



Season of Contemporary American Plays 2017

Head Electrician Paperwork Bundle

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PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

ABBREVIATIONS LIST

NAME	ABB.	NAME	ABB.	NAME	ABB.
Ella Gordon	EG	Emma Healy	EH	Mikayla Bishop	MBi
Andrea Moor	AM	Sophie Watkins	SW	Emma-Lee Sciberras	ES
Benjamin Schostakowski	BS	Maddison Penglis	MP	Marissa Hilliar	MHi
Peter Zazzali	PZ	Caitlyn Kidney	CK	Melanie Miller	MM
Matthew Burke	MB	Michael Trevisan	MT	Bethany Scott	BSco
Brittany Spooner-Jackson	BSJ	Madison Hirini	MH	Helen Gillespie	HG
Dale Norris	DN	Brooke Coleman	BC	Tiffany Lane	TL
Bailey McIntosh	BM	Aaron Cupples	AC	Rhiannon McCormick	RM
Ryan Sweet	RS	Ying Ying Yun	YYY	Stephanie Cheng	SC
Brooklyn Pace	BP	Brittany McVicar	BMc		
Ben Mills	BMi	Nicholas Seery	NS	Duty Technician	DT



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

MONDAY 22ND OF MAY			
0800	DETROIT Set and Technical Adjustments	EG, MB, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC	
1000	DETROIT Plot		
1200	LUNCH BREAK	ALL	
1300	DETROIT Plot	EG, AM, MB, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC	
1700	DINNER BREAK	ALL	
1800	DETROIT Plot	EG, AM, MB, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC	
2200	Work Finishes	ALL	



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

TUESDAY 23RD OF MAY			
0800	Power Up	EG, MB, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC	
0830	DETROIT Plot	AM	
1200	LUNCH BREAK	ALL	
1300	Company Call and Prep for Technical Rehearsal	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC, DETROIT CAST	
1330	DETROIT Fight Choreography Call	AM, JPO	
1430	DETROIT Technical Rehearsal		
1700	DINNER BREAK	ALL	
1800	DETROIT Technical Rehearsal	EG, AM, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC, DETROIT CAST	
2200	Work Finishes	ALL	



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

WEDNESDAY 24TH OF MAY			
0800	Technical Notes and Work as required	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC	EURYDICE Production Meeting at 1200 THE HAT Production Meeting at 1300
1300	LUNCH BREAK	ALL	AM filming from 1300 - 1330 CK + RS to leave LX state up w/ DT permission
1430	Company Call	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC, DETROIT CAST	
1500	DETROIT Dress Rehearsal #1	AM	Photographer will be in attendance
1730	DINNER BREAK	ALL	
1830	Company Call	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC, DETROIT CAST	
1900	DETROIT Dress Rehearsal #2	AM	
2100	Notes and Technical Work as required		
2200	Work Finishes	ALL	



PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

THURSDAY 25TH OF MAY			
0800	Technical Work as required	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC	
1200	LUNCH BREAK	ALL	
1300	Rehearsals in space and Technical Work as required	EG, AM, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC, DETROIT CAST	
1630	DINNER BREAK	ALL	
1730	Hour Call	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, BP, BMi, SW, AC, DETROIT CAST	
1830	DETROIT PERFORMANCE #1		

FRIDAY 26TH OF MAY			
1830	Hour Call	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, SW, BP, BMi, AC, DETROIT CAST	
1930	DETROIT PERFORMANCE #2		



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

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SATURDAY 27TH OF MAY			
1300	Hour Call	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, SW, BP, BMi, AC, DETROIT CAST	
1400	DETROIT PERFORMANCE #3		
1600	DINNER BREAK	ALL	
1830	Hour Call	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, SW, BP, BMi, AC, DETROIT CAST	
1930	DETROIT PERFORMANCE #4		
2130	DETROIT Bump Out	EG, MB, BSJ, DN, BM, RS, MP, CK, MT, MH, BC, EH, SW, BP, BMi, AC	
2230	Work Finishes	ALL	



PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

MONDAY 29TH OF MAY			
0800	EURYDICE Set + Technical Adjustments	EG, MB, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, BP, BMi, SW, MHi	
1200	LUNCH BREAK	ALL	
1300	EURYDICE Sound Technical Work	EG, BS, MB, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, BP, BMi, SW, MHi, EURYDICE CAST	
1500	EURYDICE Plot	EG, BS, MB, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, BP, BMi, SW, MHi	
1700	DINNER BREAK	ALL	
1800	EURYDICE Plot	EG, BS, MB, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, BP, BMi, SW, MHi	
2200	Work Finishes	ALL	



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

TUESDAY 30TH OF MAY			
0800	Power up	EG, MB, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, BP, BMi, SW, MHi	
0830	EURYDICE Plot	BS	
1200	LUNCH BREAK	ALL	
1300	Company Call and Prep for Technical Rehearsal	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1330	EURYDICE Fight Choreography Call	BS, JPO	
1430	EURYDICE Technical Rehearsal		
1700	DINNER BREAK	ALL	
1800	EURYDICE Technical Rehearsal	EG, BS, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
2200	Work Finishes	ALL	



PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

WEDNESDAY 31ST OF MAY			
0800	Technical Notes and Work as required	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi	
1300	LUNCH BREAK	ALL	THE HAT Production Meeting at 1300 AM filming from 1300 - 1330 BMc + RS to leave LX state up w/ DT permission
1430	Company Call	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1500	EURYDICE Dress Rehearsal #1	BS	Photographer will be in attendance
1730	DINNER BREAK	ALL	
1830	Company Call	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1900	EURYDICE Dress Rehearsal #2	BS	
2100	Notes and Technical Work as required		
2200	Work Finishes	ALL	



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

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THURSDAY 1ST OF JUNE			
0800	Technical Work as required	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBI, ES, EH, SW, BP, BMi, MHi	
1200	LUNCH BREAK	ALL	
1300	Rehearsals in space and Technical Work as required	EG, BS, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBI, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1630	DINNER BREAK	ALL	
1730	Hour Call	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBI, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1830	EURYDICE PERFORMANCE #1		

FRIDAY 2ND OF JUNE			
1830	Hour Call	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBI, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1930	EURYDICE PERFORMANCE #2		

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified



SATURDAY 3RD OF JUNE			
1300	Hour Call	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1400	EURYDICE PERFORMANCE #3		
1600	DINNER BREAK	ALL	
1830	Hour Call	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi, EURYDICE CAST	
1930	EURYDICE PERFORMANCE #4		
2130	EURYDICE Bump Out	EG, MB, BSJ, DN, BM, RS, YYY, BMc, NS, MBi, ES, EH, SW, BP, BMi, MHi	
2230	Work Finishes	ALL	



PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

MONDAY 5TH OF JUNE			
0800	THE HAT Set + Technical Adjustments	EG, MB, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC	
1200	LUNCH BREAK	ALL	
1300	THE HAT Projector Focus	EG, MB, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC	
1500	THE HAT Plot	PZ	
1700	DINNER BREAK	ALL	
1800	THE HAT Plot	EG, PZ, MB, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC	
2200	Work Finishes	ALL	



PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

TUESDAY 6TH OF JUNE			
0800	Power up	EG, MB, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC	
0830	THE HAT Plot	PZ	
1200	LUNCH BREAK	ALL	
1300	Company Call and Prep for Technical Rehearsal	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1330	THE HAT Technical Rehearsal	PZ	
1700	DINNER BREAK	ALL	
1800	THE HAT Tech Rehearsal	EG, PZ, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
2200	Work Finishes	ALL	



SEASON OF CONTEMPORARY
AMERICAN PLAYS

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Version 4.0

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WEDNESDAY 7TH OF JUNE			
0800	Technical Notes and Work as required	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC	
1230	LUNCH BREAK	ALL	AM filming from 1230 - 1300 BScO + RS to leave LX state up w/ DT permission
1330	Company Call	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1430	THE HAT Fight Choreography Call	PZ, JPO	
1530	THE HAT Dress Rehearsal #1		Photographer will be in attendance
1800	DINNER BREAK	ALL	
1900	Company Call	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1930	THE HAT Dress Rehearsal #2	PZ	
2200	Work Finishes	ALL	



PRODUCTION SCHEDULE

Version 4.0

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THURSDAY 8TH OF JUNE			
0800	Technical Work as required	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC	
1200	LUNCH BREAK	ALL	
1300	Rehearsals in space and Technical Work as required	EG, PZ, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1630	DINNER BREAK	ALL	
1730	Hour Call	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1830	THE HAT PERFORMANCE #1		



SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

FRIDAY 9TH OF JUNE			
1830	Hour Call	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1930	THE HAT PERFORMANCE #2		

SATURDAY 10TH OF JUNE			
1300	Hour Call	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1400	THE HAT PERFORMANCE #3		
1600	DINNER BREAK	ALL	
1830	Hour Call	EG, MB, BSJ, DN, BM, RS, MM, BScO, HG, TL, RM, EH, SW, BP, BMi, SC, THE HAT CAST	
1930	THE HAT PERFORMANCE #4		



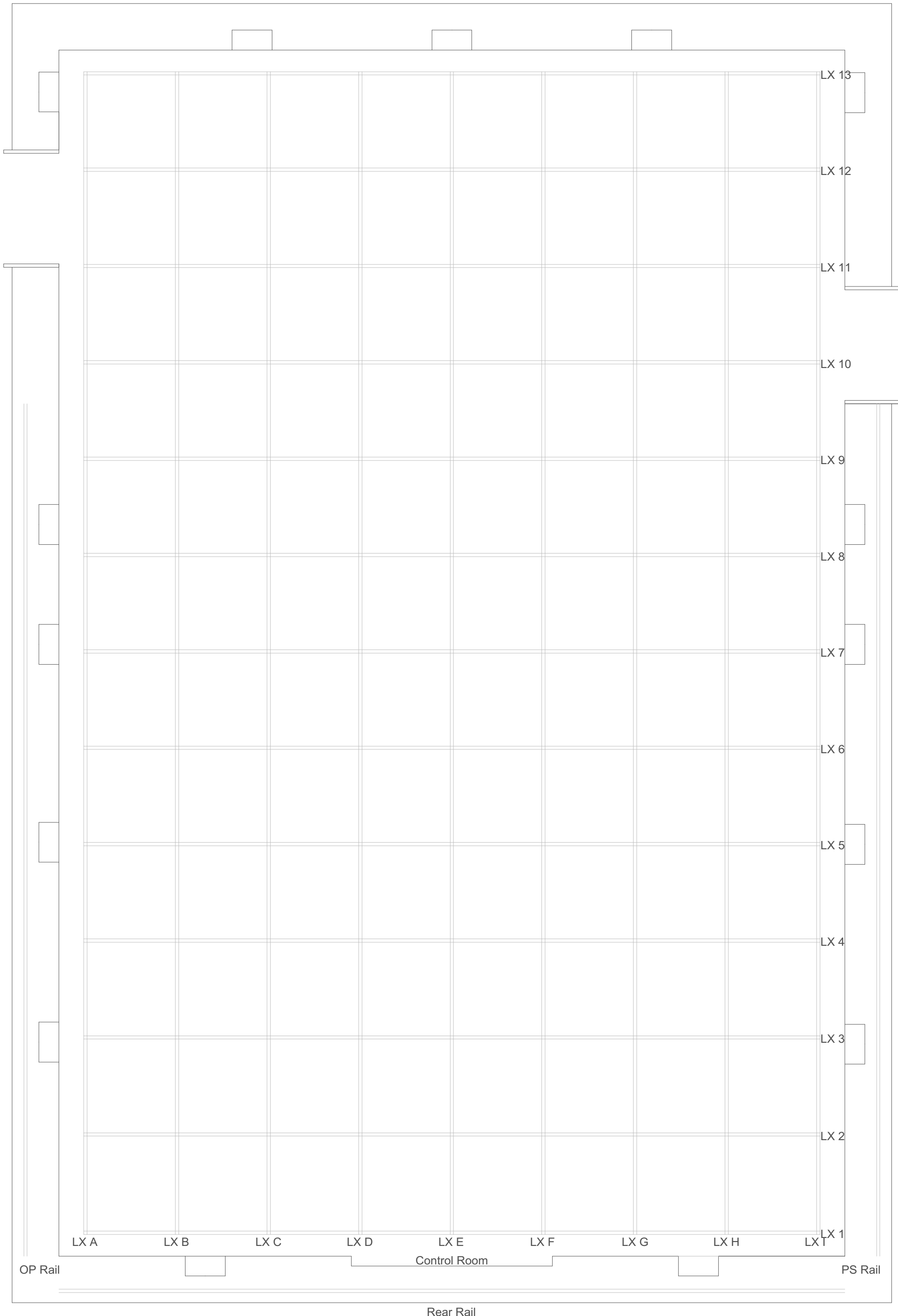
SEASON OF CONTEMPORARY
AMERICAN PLAYS

PRODUCTION SCHEDULE

Version 4.0

All activity takes place in QUT KG, Z2 THE LOFT unless otherwise specified

MONDAY 12TH OF JUNE			
0800	BUMP OUT	ALL CREW AND CREATIVES	
1700	Work Finishes	ALL	



Upstage Wall

31
32

37
38

43
44

33
34

39
40

45
46

35
36

41
42

47
48

Downstage Wall

79
80

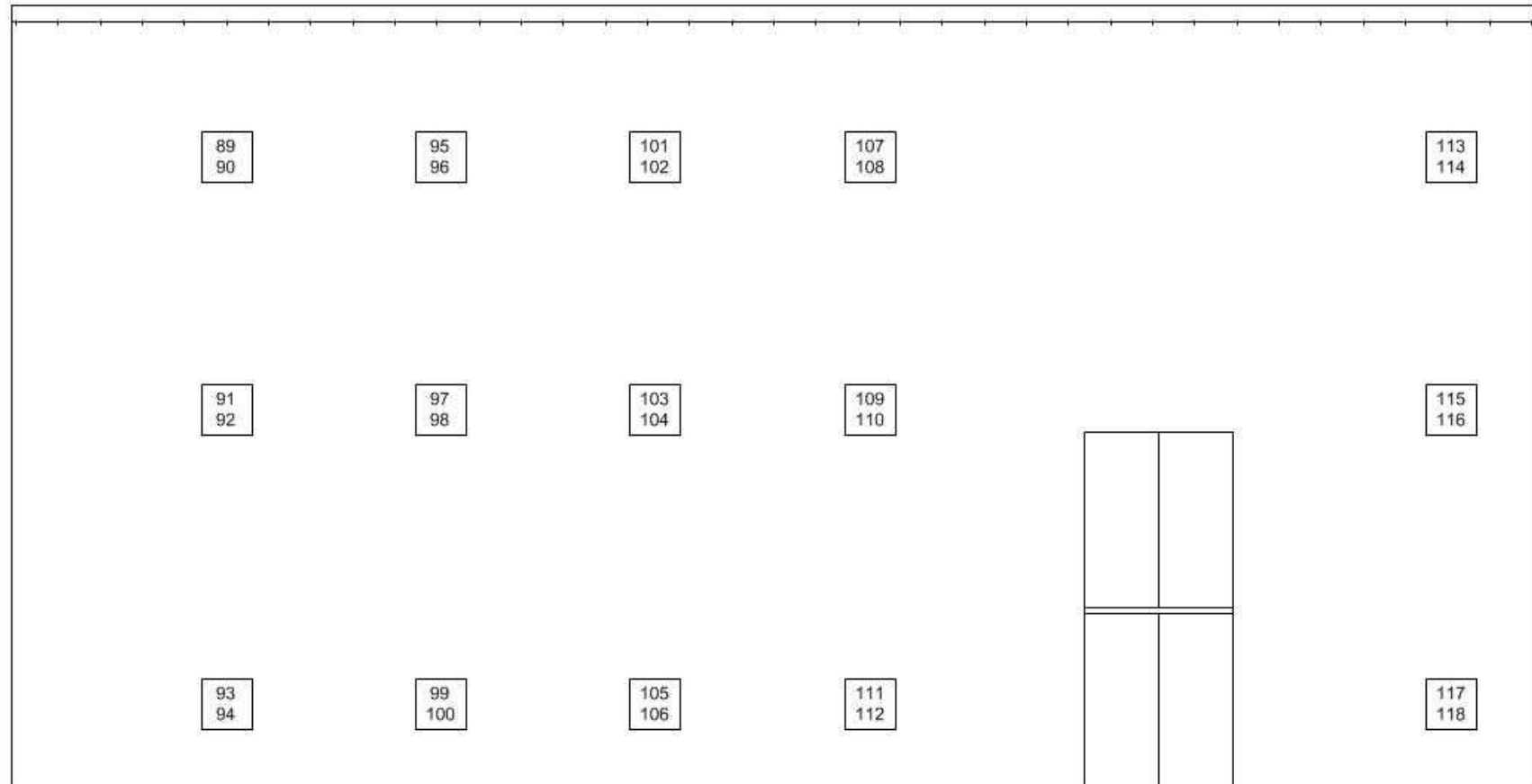
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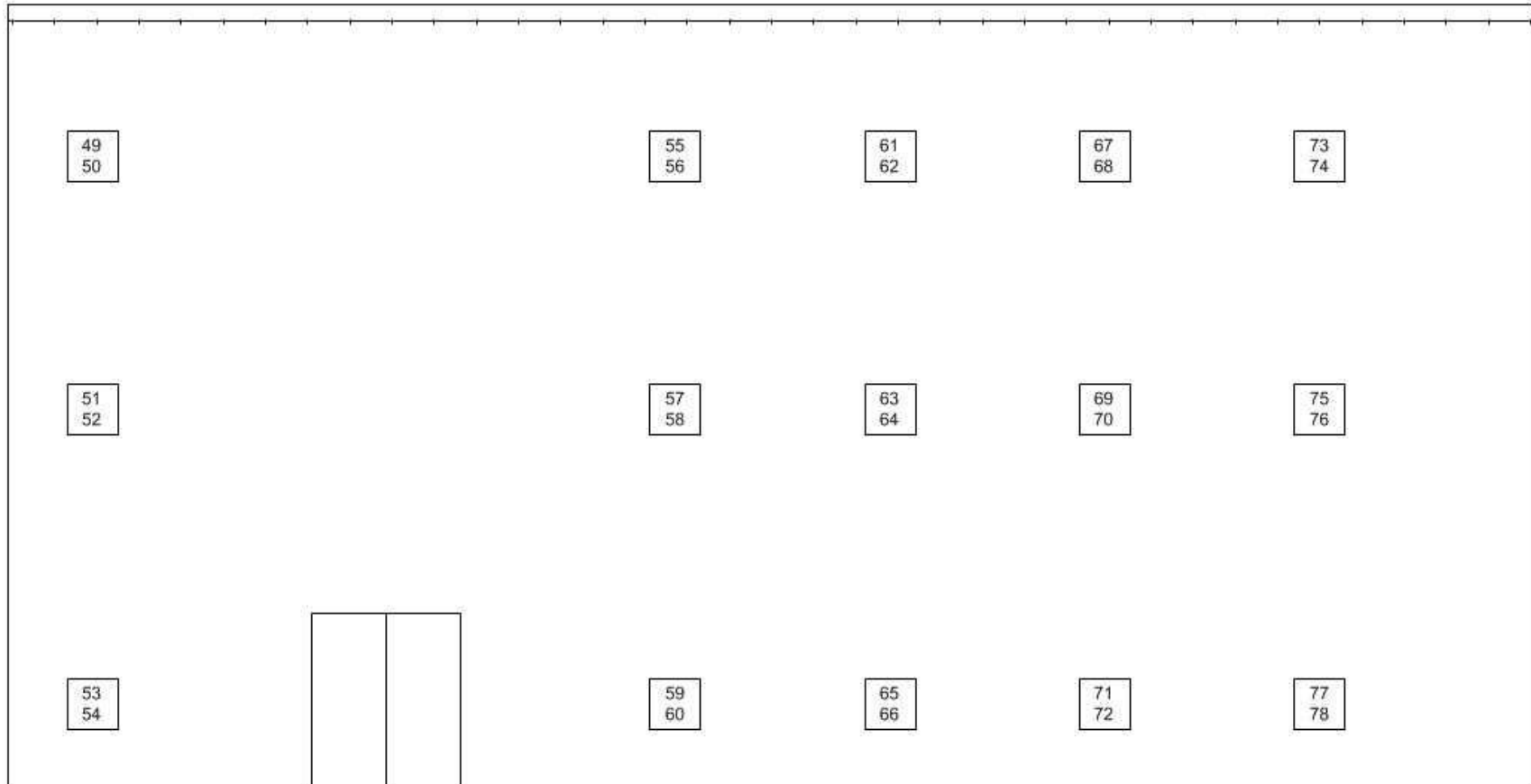
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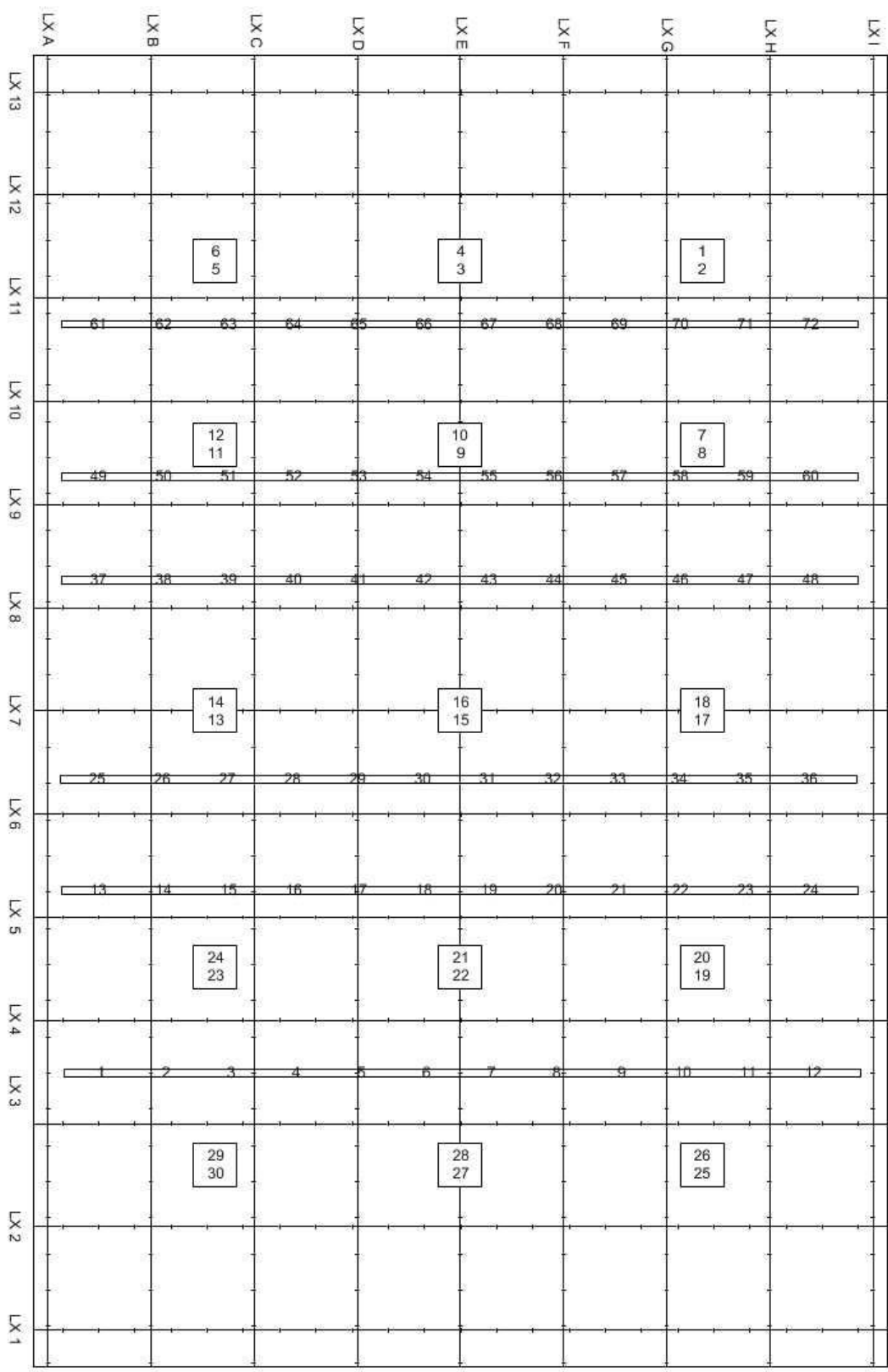
87
88

Opposite Prompt Wall



Prompt-side Wall





LX GRID



The Loft

Technical Specifications

07/02/2017

Senior Theatre Technician:

Andrew Earle

Phone number:

07 3138 4464

Mobile number:

0417 218 325

Email address:

andrew.earle@qut.edu.au

Theatre Technician:

James Millis

Phone Number

07 3138 7038

Mobile Number:

0432 392 031

Email Address

james.millis@qut.edu.au

Venue:

Phone number:

07 3138 7750

Fax number:

07 3138 2175

Email Address

events@qut.edu.au

Website:

www.gardenstheatre.qut.edu.au

Venue Address

Venue Postal Address

**QUT campus, Z2 511, Z Block, Musk Avenue, Kelvin Grove
c/o QUT, Gardens Theatre, 2 George St Brisbane CBD 4000**

STAGE

Stage Dimensions:

Distance From (*SL = Setting Line, CL = Centre Line*)

SL to rear wall	12,200mm
CL to PS wall	5,900mm
CL to OP wall	5,900mm
Rear wall to front of seating bank (retracted)	16,650mm
Stage to underside of grid	9,100mm
Stage to underside of side lighting bars	5,800mm

Setting Line: 1 metre from front of retractable seating bank

Load Rating:	Fixed grid	9.6kg/m
	Side bars	40kg/m
	Bio Box Bar:	9.6kg/m

Auditorium:

Seating capacity (retractable seating bank) **100**

NOTE: An extra row can be added on the floor to make the maximum capacity **120**

Access Equipment

Elevated Work Platform: Genie AWP-30S

EWP Restrictions: Operators must have a EWP ticket and be familiar with this model VL

Ladders: 3m fibreglass A frame
Aluminium Upright 3.1m Closed (5.3 Extended)

Loading Dock:

Elevator: 1700 (L) x 1200 (w) x 2400 (H) Door is: 1000 (w) x 2000 (h)

All other access via stairwell

LIGHTING: Fixed Grid (see lighting plan for details)

Control: Lighting desk: **ETC Element**
 Control channels: **250**
 Signal output: **DMX**
 Signal distribution: **5 pin cable**

Dimmer Racks: Total Dimmers **108 @ 2.4Kw**

House Lights: **4 x 1.2Kw PC**

Stage Luminaire:

Profiles

Make	Model	Angle	Notes	Watt	Total
ETC	Source 4	19deg		750w	20
ETC	Source 4	26deg		750w	12
ETC	Source 4	10deg		750w	12

Fresnel's

Make	Model	Detail	Watt	Total
ETC	Parnel	All have barndoors	1200w	46

Par Cans

Make	Model	Angle	Detail / Accessories	Watt	Total
	Par64	MFL	240v	1000w	20

LX Accessories

Item	Quantity	Lamp
Gobo Holders	4	ETC Source 4s
Iris	12	ETC Source 4s

Patching:

Location	Patch Points	Numbering	Detail / Accessories
Overhead Lx Conduit	72	1 - 72	6 x 12 outlet lighting conduit attached to the grid.
Overhead (Grid)	30	1 - 30	240 volt outlets in roof
Upstage Wall	18	31 - 48	
Prompt Wall	30	49 - 78	
Downstage Wall	10	79 - 88	Above retractable seating bank
OP Wall	30	89 - 118	

Power: **3 Phase Outlets:** 10 @ 50 amp located in dimmer cage

Cabling:

240v Extension Cable:

The Venue has a good stock of extension leads to accommodate the venue's standard lighting rig. Any additional equipment will require additional cable stock to be sourced.

Looms: 2 x 4 way Weiland 20 metre

AUDIO

Control Positions: **Bio box** (Back of auditorium above seats on next level)

Seating Bank (Top level of seating in the centre)

Control & Amplification:

Primary Mixer: Soundcraft SI Expression 1

FX & Processing: On Console

Amplifiers: Crown XLS 602 x 2
Crown XLS 402 (Bridged for sub as standard)
Crown XLS 202

Speakers:

FOH Speakers: 2 x JBL Control 30 (L&R)

REAR Speakers: 2 x JBL Control 30

Sub: JBL Sub

Playback:

Item	Make	Model	Detail	Total
CD	Marantz	PMD340	Single CD player	2
MD	Sony	MDS-E10	Single Minidisc Player	3

Microphones:

Make	Model	Detail / Accessories	Use	Total
Shure	SM58			4
Shure	ULX	Body pack wireless	662-698MHz	2
Shure	ULX	SM58 wireless	662-698MHz	2

Note: Hire charges apply for the use of microphones.

Accessories:

Item	Model	Detail / Accessories	Total
Mic stand boom			2
Mic stand low boom			1
Mic stand straight		Round base	1
Mic table stand			1

Line Patching:

Location	Quantity	Numbering	Detail
Overhead	30		See patch map
Prompt Wall	30		See patch map
OP Wall	30		See patch map
Rear Wall	18		See patch map
Floor	12		See patch map

Cabling:

Audio Cable: Limited audio cable available

AUDIO VISUAL

Projectors:

Type	Model	Detail / Accessories	Total
Sony	VPL-FH30	WUXGA (1920 x 1200)	1

Screens:

Projection Screen

Motorized drop down

Screen dimensions

AV Playback Equipment:

Item	Model	Detail / Accessories	Total

Cabling:

Limited stock of AV cable available.

BACKSTAGE

Communications:

Talkback: Clear-Com HME DX200 Radio packs BP-200 - 8

Paging / Show relay: Paging from Radio packs. Show relay 24/7

Stage Monitor: Greenroom only

Q Light System: None

Dressing Rooms:

Dressing Room	Capacity	Toilets	Shower	Details
DR1	4	Y	Y	PWD
DR2	4	Y	Y	PWD

Laundry / Wardrobe: Iron / ironing board 1 Clothes racks 2

Internet access: Wireless broadband upon request (charges apply)

Greenroom/ Production Office (4m x 5m):

Complete with Tea/ Coffee making facilities, Microwave, Fridge/ Freezer and Hot and Cold running water.

Venue Access: Venue can be placed on open access if requested in advance

Additional Equipment:

The following equipment is available to be booked through QUT Precincts Technical Staff.

Speakers: 14 x Mackie SRM 450
3 x Mackie SWA 1501
1 x JBL Sub

Speaker Stands: 4 x Adjustable for Mackie Speakers

Microphones: Vocal and instrument

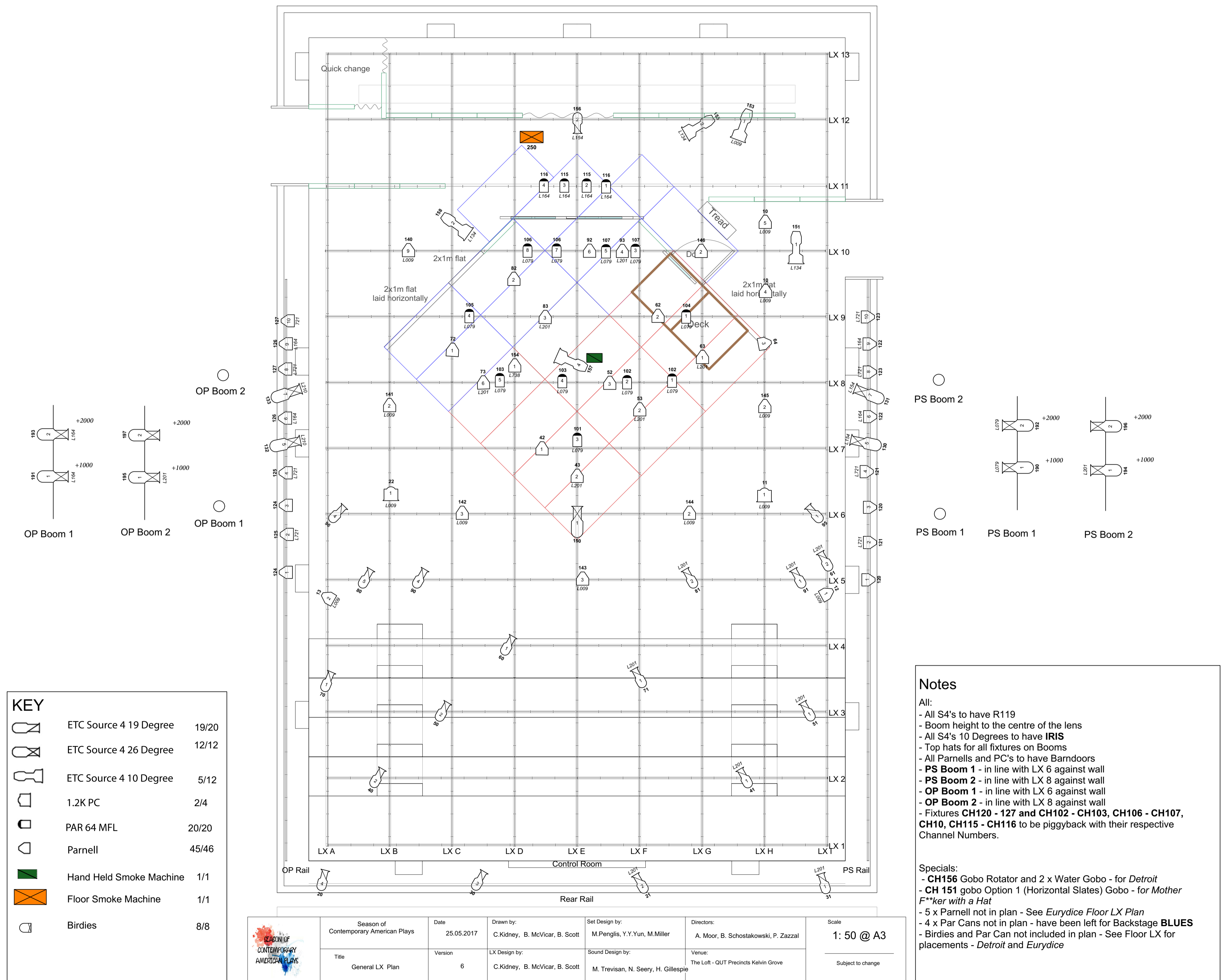
Microphone Stands: 8 x Boom

Boom Bases: 8 x Bases with various lengths of scaffold

Venue Plans:

Venue Plan Available DWG. PDF. Upon Request

Venue Section Available Yes



KEY

	ETC Source 4 19 Degree	19/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	5/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	45/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8

Notes

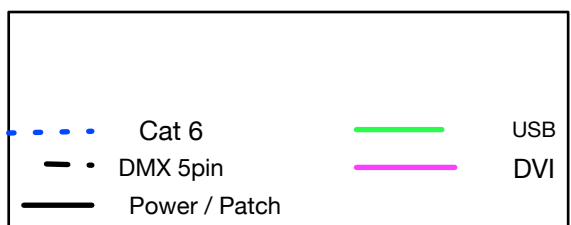
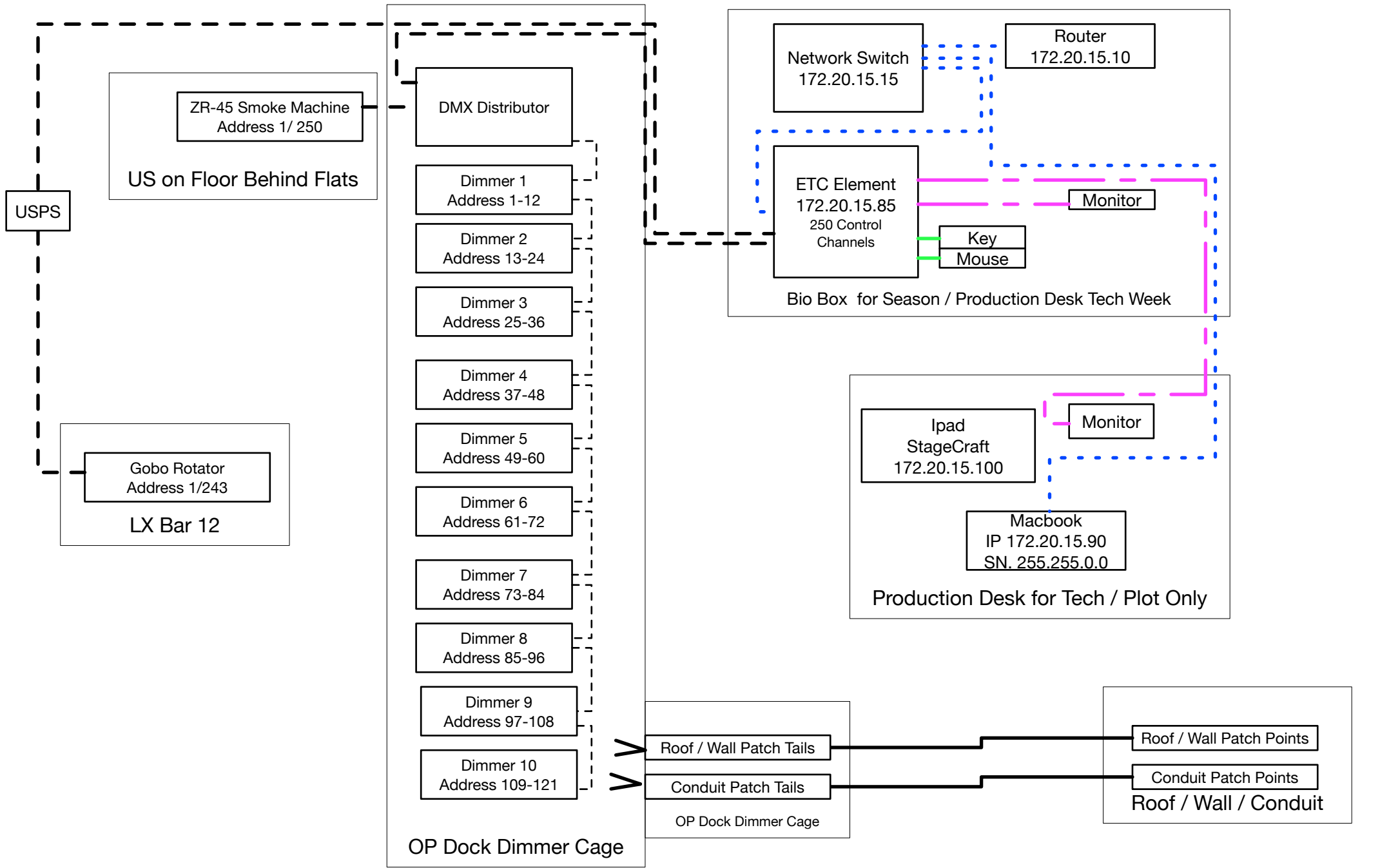
All:

- All S4's to have R119
- Boom height to the centre of the lens
- All S4's 10 Degrees to have IRIS
- Top hats for all fixtures on Booms
- All Parnells and PC's to have Barndoors
- **PS Boom 1** - in line with LX 6 against wall
- **PS Boom 2** - in line with LX 8 against wall
- **OP Boom 1** - in line with LX 6 against wall
- **OP Boom 2** - in line with LX 8 against wall
- Fixtures **CH120 - 127** and **CH102 - CH103, CH106 - CH107, CH10, CH115 - CH116** to be piggyback with their respective Channel Numbers.

Specials:

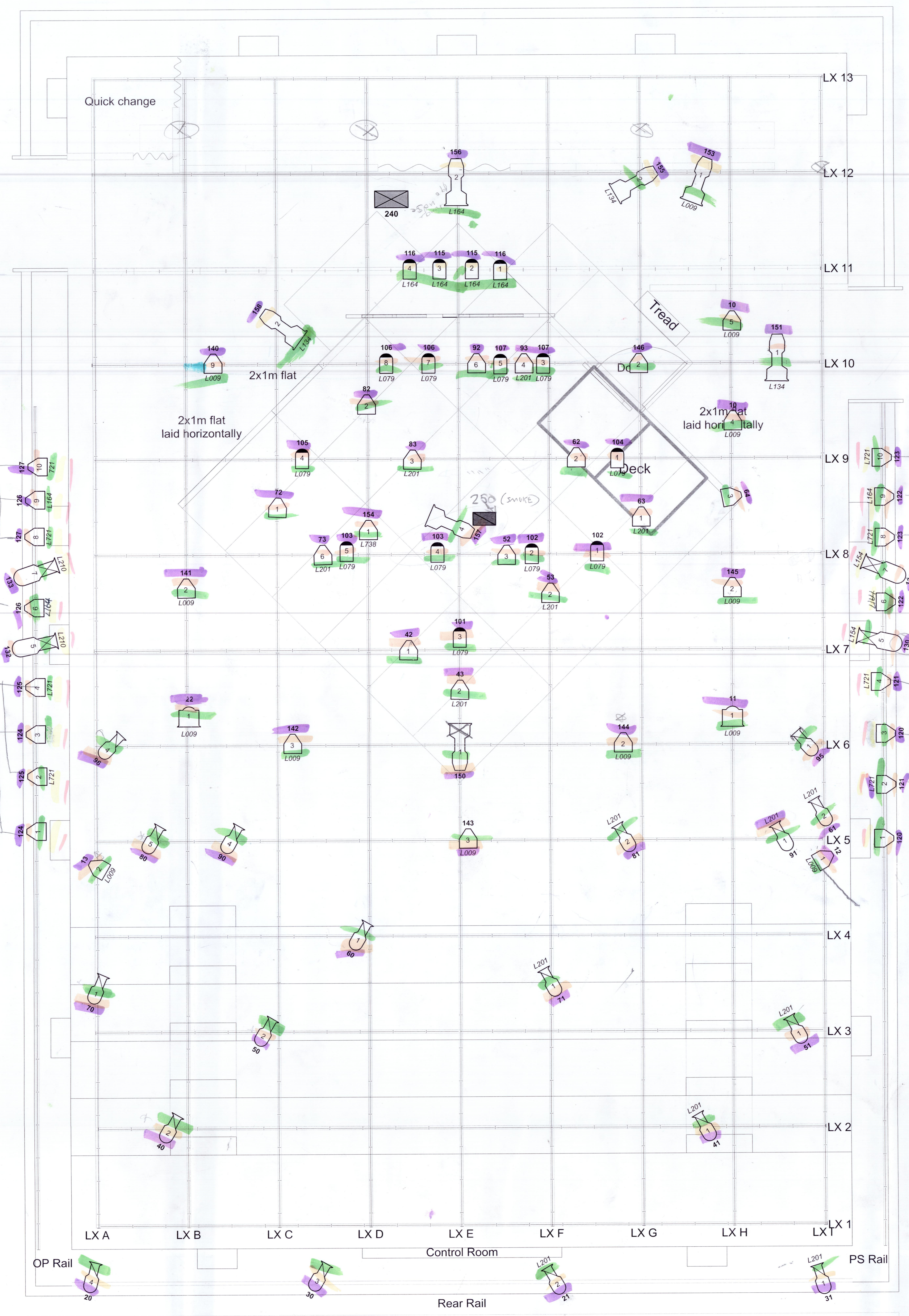
- **CH156** Gobo Rotator and 2 x Water Gobo - for *Detroit*
- **CH 151** gobo Option 1 (Horizontal Slates) Gobo - for *Mother F**ker with a Hat*
- 5 x Parnell not in plan - See *Eurydice Floor LX Plan*
- 4 x Par Cans not in plan - have been left for Backstage **BLUES**
- Birdies and Par Can not included in plan - See Floor LX for placements - *Detroit* and *Eurydice*

	Season of Contemporary American Plays	Date	25.05.2017	Drawn by:	C.Kidney, B. McVicar, B. Scott	Set Design by:	M.Pengils, Y.Y.Yun, M.Miller	Directors:	A. Moor, B. Schostakowski, P. Zazzal	Scale	1: 50 @ A3
	General LX Plan	Version	6	LX Design by:	C.Kidney, B. McVicar, B. Scott	Sound Design by:	M. Trevisan, N. Seery, H. Gillespie	Venue:	The Loft - QUT Precincts Kelvin Grove	Subject to change	



LX Desk to move to seating bank during Tech Sessions with additional monitor & ETC Nomad Mirror Mode. (TBC)
 Gobo Rotator Power from GPO
 Subject to Change.
 Not to Scale. Visual Reference Only

SOACAP - LX Schematic v3	
The Loft: QUT CI Precinct	
Bump In	Monday 15th May 2017
Bump Out	Monday 13th June 2017
Drawn By	Dale Norris HLX
Version	V3- Wed May 17 2017



Bulbs
19/26
Parnell
1.2K



Chart#
Iris
30 30
colour

KEY		
	ETC Source 4 19 Degree	18/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	7/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	45/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8
	Blues	

SEASON OF CONTEMPORARY AMERICAN PLAYS		Date	Drawn by:	Set Design by:	Directors:	Scale
Season of Contemporary American Plays		11.05.2017	C.Kidney, B. McVicar, B. Scott	M.Penglis, Y.Y.Yun, M.Miller	A. Moor, B. Shostakowski, P. Zazzali	1: 50 @ A3
Title General LX Plan		Version 4	LX Design by: C.Kidney, B. McVicar, B. Scott	Sound Design by: M. Trevisan, N. Seery, H. Gillespie	Venue: The Loft - QUT Precincts Kelvin Grove	Subject to change

Notes

All:

- All S4's to have R119
- Boom height to the centre of the lens
- All S4's 10 Degrees to have IRIS
- Top hats for all fixtures on Booms
- All Parnells and PC's to have Barndoors
- **PS Boom 1** - in line with LX 6 against wall
- **PS Boom 2** - in line with LX 8 against wall
- **OP Boom 1** - in line with LX 6 against wall
- **OP Boom 2** - in line with LX 8 against wall
- Fixtures **CH120 - 127** and **CH102 - CH103, CH106 - CH107, CH10, CH115 - CH116** to be piggyback with their respective Channel Numbers.

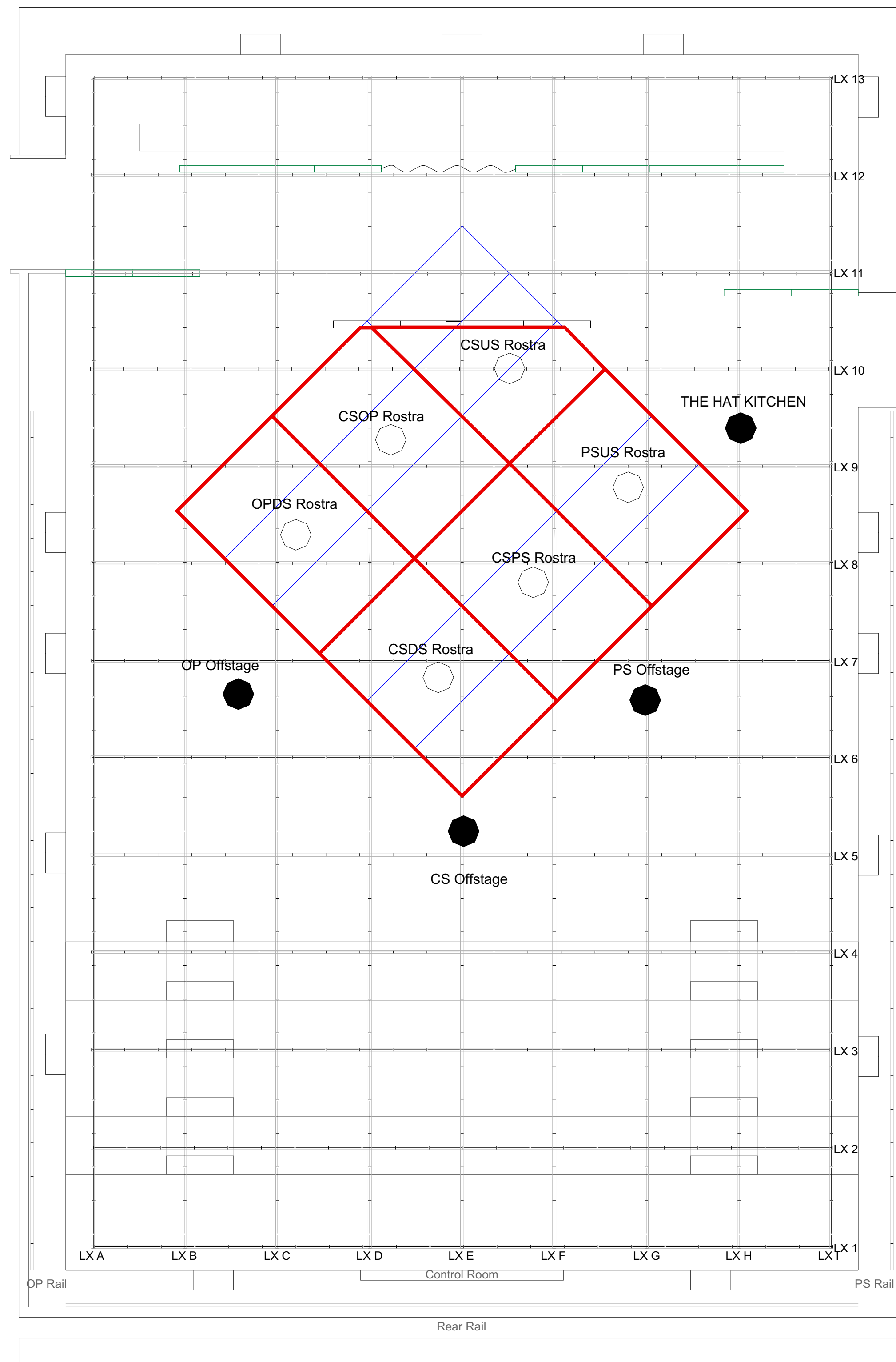
Specials:


- **CH156** Gobo Rotator and 2 x Water Gobo - for *Detroit*
- **CH 151** gobo Option 1 (Horizontal Slates) Gobo - for *Mother F**ker with a Hat*
- 5 x Parnell not in plan - See *Eurydice* Floor LX Plan
- 4 x Par Cans not in plan - have been left for Backstage **BLUES**
- Birdies not included in plan - See Floor LX for placements - *Detroit* and *Eurydice*

Quick change blue relocated to USPS for Detroit
- Return for Best of Season ✓
[THE HAT - CH130 change to 1.1.1.4 +
Solid gobo

- Eurydice → HAT
- Detroit → Eurydice cover
- Rigged
- Patched
- Focus

Transfer
4 x 26 degree
8 IRIS



	Season of Contemporary American Plays	Date 13.05.2017	Drawn By: B. Scott C. Kidney & B. McVicar	Set Design by: M. Miller, Y. Y. Yun, M. Penglis	Directors: P. Zazzali, A. Moor, B. Schostakowski	Scale 1: 50 @ A3
	Title SOCAP Focus Plan	Version 1	LX Design by: B. Scott, C. Kidney & B. McVicar	Sound Design by: H. Gillespie, N. Seery, M. Trevisan	Venue: The Loft - QUT Precincts Kelvin Grove	Subject to change

SOCAP: Focus and Position Placements

Version 1



Refer to *SOCAP FOCUS PLAN* for Focus Point

POSITION	CHANNEL	FIXTURE #	FIXTURE	COLOUR	FROST	ACCESSORIES	FOCUS	PURPOSE	SHOW
LX 2	41	1	ETC S4 19 Degrees	L201	R119	Gel Frame	CSDS Rostra	Cool Face Light	Season
LX 2	40	2	ETC S4 19 Degrees	O/W	R119	Gel Frame	CSDS Rostra	Warm Face Light	Season
LX 3	51	1	ETC S4 19 Degrees	L201	R119	Gel Frame	CSPS Rostra	Cool Face Light	Season
LX 3	50	2	ETC S4 19 Degrees	O/W	R119	Gel Frame	CSPS Rostra	Warm Face Light	Season
LX 4	60	1	ETC S4 19 Degrees	O/W	R119	Gel Frame	PSUS Rostra	Warm Face Light	Season
LX 5	91	1	ETC S4 19 Degrees	L201	R119	Gel Frame	CSUS Rostra	Cool Face Light	Season
LX 5	81	2	ETC S4 19 Degrees	L201	R119	Gel Frame	CSOP Rostra	Cool Face Light	Season
LX 5	143	3	Parnell	L009		Barn Door	CS Offstage- Off the Rostra	Warm Overhead	Season
LX 5	90	4	ETC S4 19 Degrees	O/W	R119	Gel Frame	CSUS Rostra	Warm Face Light	Season

SOCAP: Focus and Position Placements

Version 1



LX 5	80	5	ETC S4 19 Degrees	O/W	R119	Gel Frame	CSOP Rostra	Warm Face Light	Season
LX 6	95	1	ETC S4 19 Degrees	O/W	R119	Gel Frame	CSUS Wall	Warm Face Light	Season
LX 6	144	2	Parnell	L009		Barn Door	PS Offstage - Off the rostra	Warm Overhead	Season
LX 6	142	3	Parnell	L009		Barn Door	OP Offstage – Off the Rostra	Warm Overhead	Season
LX 6	96	4	ETC S4 19 Degree	O/W	R119	Gel Frame	CSUS Wall	Warm Face Light	Season
LX 7	42	1	Parnell	O/W		Barn Door	DSCS Rostra	Warm Overhead	Season
LX 8	102	1	Par64 MFL	L079		Gel Frame	CSDS Rostra	Blue Wash	Season
LX 8	102	2	Par64 MFL	L079		Gel Frame	CSPS Rostra	Blue Wash	Season
LX 8	52	3	Parnell	O/W		Barn Door	CSPS Rostra	Warm Overhead	Season

SOCAP: Focus and Position Placements

Version 1



<i>LX 8</i>	103	4	Par64 MFL	L079		Gel Grame	CSDS Rostra	Blue Wash	Season
<i>LX 8</i>	103	5	Par64 MFL	L079		Gel Frame	OPDS Rostra	Blue Wash	Season
<i>LX 8</i>	73	6	Parnell	L201		Barn Door	OPDS Rostra	Cool Overhead	Season
<i>LX 9</i>	104	1	Par64 MFL	L079		Gel Frame	PSUS Rostra	Blue Wash	Season
<i>LX 9</i>	62	2	Parnell	O/W		Barn Door	PSUS Rostra	Warm Overhead	Season
<i>LX 9</i>	83	3	Parnell	L201		Barn Door	CSOP Rostra	Cool Overhead	Season
<i>LX 9</i>	105	4	Par64 MFL	L079		Gel Frame	OPDS Rostra	Blue Wash	Season
<i>LX 10</i>	151	1	ETC S4 10 Degree	L134	R119	Gel Frame, Gobo Holder, GOBO OPTION 1 – Horizontal Slates, Iris	PSUS Rostra	Special – Kitchen Window	THE HAT

SOCAP: Focus and Position Placements

Version 1



LX 10	146	2	Parnell	O/W		Barn Door	THE HAT PS Tread	Special – Warm Overhead for PS Trends	THE HAT
LX 10	107	3	Par64 MFL	L079		Gel Frame	CSUS Rostra	Blue Wash	Season
LX 10	93	4	Parnell	L201		Barn Door	CSUS Rostra	Cool Overhead	Season
LX 10	107	5	Par64 MFL	L079		Gel Frame	CSUS Rostra	Blue Wash	Season
LX 10	92	6	Parnell	O/W		Barn Door	CSUS Rostra	Warm Overhead	Season
LX 10	106	7	Par64 MFL	L079		Gel Frame	CSOP Rostra	Blue Wash	Season
LX10	106	8	Par64 MFL	L079		Gel Frame	CSOP Rostra	Blue Wash	Season
LX 10	140	9	Parnell	L009		Barn Door	Straight Down – Barn Doors shuttering off rostra and walls	Special – Warm Overhead for OP Trend	THE HAT

SOCAP: Focus and Position Placements

Version 1



<i>LX 11</i>	116	1	Par64 MFL	L164		Gel Frame	Towards PSUS Rostra	Red Wash	Season
<i>LX 11</i>	115	2	Par64 MFL	L164		Gel Frame	Towards PSUS Rostra	Red Wash	Season
<i>LX 11</i>	115	3	Par64 MFL	L164		Gel Frame	Towards CSDS Rostra	Red Wash	Season
<i>LX 11</i>	116	4	Par64 MFL	L164		Gel Frame	Towards OPDS Rostra	Red Wash	Season
<i>LX 12</i>	153	1	ETC S4 10 Degree	L009		Gel Frame	PSUS	Special – Inside Door Light	DETROIT
<i>LX 12</i>	156	2	ETC S4 19 DEgree	L164		Gel Frame, Gobo Rotator x 2 Water Gobo	CSUC Rostra	Special – Fire Effect	DETROIT
<i>LX A</i>	70	1	ETC S4 19 Degree	O/W	R119	Gel Frame	OPDS Rostra	Warm Face Light	Season

SOCAP: Focus and Position Placements

Version 1



<i>LXA</i>	13	2	Parnell	L009		Barn Door	PS Seating Bank	FOH	Season
<i>LXB</i>	22	1	Selecon Rama PC	L009		Barn Door	OP Offstage	Warm Overhead	Season
<i>LXB</i>	141	2	Parnell	L009		Barn Door	OP Offstage- Off the Rostra	Warm Overhead	Season
<i>LXC</i>	72	1	Parnell	O/W		Barn Door	OPDS Rostra	Warm Overhead	Season
<i>LXC</i>	158	2	ETC S4 10 Degree	L134	R119	Gel Frame, Iris	CSOP Rostra – Focused to plant placement	Special – Light on Plants	THE HAT
<i>LXD</i>	154	1	Parnell	L738		Barn Door	Between CSDS Rostra and CSPS Rostra – Focus to couch placement	Special – Green Couch	THE HAT

SOCAP: Focus and Position Placements

Version 1



<i>LXD</i>	82	2	Parnell	O/W		Barn Door	CSOP Rostra	Warm Overhead	Season
<i>LXE</i>	150	1	ETC S4 10 Degree	O/W	R119	Gel Frame, Iris	US Wall – Focus to Elevator Door	Special – Elevator Door	EURYDICE
<i>LXE</i>	43	2	Parnell	L201		Barn Door	CSDS Rostra	Cool Overhead	Season
<i>LXE</i>	101	3	Par64 MFL	L079		Gel Frame	CSDS Rostra	Blue Wash	Season
<i>LXE</i>	157	4	ETC S4 10 Degree	O/W	R119	Gel Frame, Iris	OPDS Rostra – US Edge, towards Wall	Special – Door OP	THE HAT
<i>LXF</i>	71	1	ETC S4 19 Degree	L201	R119	Gel Frame	OPDS Rostra	Cool Face Light	Season
<i>LXF</i>	53	2	Parnell	L201		Barn Door	CSPS Rostra	Cool Overhead	Season
<i>LXG</i>	63	1	Parnell	L201		Barn Door	PSUS Rostra	Cool Overhead	Season

SOCAP: Focus and Position Placements

Version 1



<i>LXG</i>	155	2	ETC S4 10 Degree	L134	R119	Gel Frame, Iris	CSUS Rostra	Special – Inside Door Light	DETROIT
<i>LXH</i>	11	1	Selecon Rama PC	L009		Barn Door	PS Offstage	Warm Overhead/FOH	Season
<i>LXH</i>	145	2	Parnell	L009		Barn Door	PS Offstage – Off the Rostra	Warm Overhead/FOH	Season
<i>LXH</i>	64	3	Parnell	O/W		Barn Door	PSUS Rostra	Warm Overhead	Season
<i>LXH</i>	10	4	Parnell	L009		Barn Door	Straight Down – Off Walls	FOH	Season
<i>LXH</i>	10	5	Parnell	L009		Barn Door	Straight Down – off walls	FOH	Season
<i>LXI</i>	12	1	Parnell	L009		Barn Door	OP Seating Bank	FOH	Season
<i>LXI</i>	61	2	ETC S4 19 Degree	L201	R119	Gel Frame	PSUS Rostra	Cool Face Light	Season



Season of Contemporary American Plays:

The Loft, QUT Creative Industries Precinct

Patch Sheets



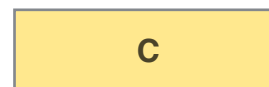
Version 3

As at 19 May 2017 at 11:03 pm

The Loft: Standard Patch Locations			
Location	# of Patch Points	Numbering	6x 12 Outlet conduit attached to the grid
Overhead Conduit	72	1-72	Outlets throughout Roof
Overhead Grid	30	1-30	
Upstage Wall	18	31-48	
Prompt Wall	30	49-78	
Downstage Wall	10	79-88	Above Seating Bank
OP Wall	30	89-118	

- C = Conduit = Yellow Tags

- R= Wall, roof patches = White small tag





Position: LX2

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	41	R25	66		L201	R119	
2	ETC Source Four 19 °	40	R30	65		OW	R119	



Position: LX3

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	51	C12	30		L201	R119	
2	ETC Source Four 19 °	50	R29	63		OW	R119	



Position:								LX4
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	60	C5	27		O/W	R119	



Position: LX5								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	91	C24	14		L201	R119	
2	ETC Source Four 19 °	81	C22	17		L201	R119	
3	ETC Parnel	143	C19	18	Barn Doors	L009	-	
4	ETC Source Four 19 °	90	C15	28		O/W	R119	
5	ETC Source Four 19 °	80	C14	15		O/W	R119	



Position: LX6

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	95	C35	16		OW	R119	Selecon Rama PC
2	ETC Parnel	144	C34	13	Barn Doors	L009	-	
3	ETC Parnel	142	C28	6	Barn Doors	L009	-	
4	ETC Source Four 19 °	96	C25	33		OW	R119	



Position: LX7

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	42	R15	70	Barn Doors	OW	-	



Position:								LX8
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	102	R14	67		L079	-	MFL Lens
2	PAR64	102	C45	87		L079	-	MFL Lens
3	ETC Parnel	52	C44	100	Barn Doors	O/W	-	
4	PAR64	103	C42	97		L079	-	MFL Lens
5	PAR64	103	C40	101		L079	-	MFL Lens
6	ETC Parnel	73	C39	98	Barn Doors	L201	-	



Position:								LX9
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	104	C58	74		L079	-	
2	ETC Parnel	62	C57	77	Barn Doors	O/W	-	MFL Lense
3	ETC Parnel	83	C53	76	Barn Doors	L201	-	
4	PAR64	105	C52	73		L079	-	



Position: LX10

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	151	C71	103	IRIS	L134	R119	
2	ETC Parnel	146	R08	64	Barn Doors	O/W	-	
3	PAR64	107	R07	61		L079	-	MFL Lense
4	ETC Parnel	93	C56	106	Barn Doors	L201	-	
5	PAR64	107	R07	61		L079	-	MFL Lense
6	ETC Parnel	92	C55	93	Barn Doors	O/W	-	
7	PAR64	106	R09	51		L079	-	MFL Lense
8	PAR64	106	R10	54		L079	-	MFL Lense
9	ETC Parnel	140	R11	2	Barn Doors	L009	-	



Position:								LX11
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	116	C68	92		L164	-	MFL Lense
2	PAR64	115	C67	95		L164	-	MFL Lense
3	PAR64	115	C66	91		L164	-	MFL Lense
4	PAR64	116	C55	94		L164	-	MFL Lense



Position: LX12								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	153	R02	10	IRIS	L009	R119	
2	ETC Source Four 19 °	156	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119	



Position: LXA

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	70	C01	25		OW	R119	
2	ETC Parnel	13	C13	29	Barn Doors	L009	-	



Position: LXB

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	22	C26	36	Barn Door	L009	-	
2	ETC Parnel	141	R17	68	Barn Doors	L009	-	



Position: LXC

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	72	C38	86	Barn Doors	OW	-	
2	ETC Source Four 10 °	158	C62	108	IRIS	L134	R119	



Position:								LXD
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	154	C41	85	Barn Doors	L738	-	
2	ETC Parnel	82	C54	88	Barn Doors	O/W	-	



Position: LXE

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	150	C30	3	IRIS	OW	R119	
2	ETC Parnel	43	C31	5	Barn Doors	L201	-	
3	PAR64	101	R16	71		L079	-	MFL Lense
4	ETC Source Four 26 °	157	C43	99	IRIS	OW	R119	



Position: LXF

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	71	C9	26		L201	R119	
2	ETC Parnel	53	C46	102	Barn Doors	L201	-	



Position: LXG								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	63	C47	96	Barn Doors	L201	-	
2	ETC Source Four 10 °	155	R01	7	IRIS	L134	R119	



Position: LXH

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	11	C36	32	Barn Door	L009		
2	ETC Parnel	145	R13	57	Barn Doors	L009	-	
3	ETC Parnel	64	C48	90	Barn Doors	O/W	-	
4	ETC Parnel	10	C60	89	Barn Doors	L009		
5	ETC Parnel	10	C72	105	Barn Doors	L009		



Position: LXI

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	12	R67	69	Barn Doors	L009	-	-
2	ETC Source Four 19 °	61	R68	72		L201	R119	



Position: REAR (DS) RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	31	R81	104		L201	R119	
2	ETC Source Four 19 °	21	R82	107		L201	R119	
3	ETC Source Four 19 °	30	R83	75		L201	R119	
4	ETC Source Four 19 °	20	R84	78		L201	R119	



DETROIT Position: OP RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	124	R97	80	Barn Doors	O/W	-	
2	ETC Parnel	125	R98	83	Barn Doors	L721	-	
3	ETC Parnel	124	R97	80	Barn Doors	O/W	-	
4	ETC Parnel	125	R98	83	Barn Doors	L721	-	
5	ETC Source Four 26 °	132	R103	35		L210	R119	
6	ETC Parnel	126	R104	34	Barn Doors	L164	-	
7	ETC Source Four 26 °	133	R109	31		L210	R119	
8	ETC Parnel	127	R110	29	Barn Doors	L721	-	
9	ETC Parnel	126	R104	34	Barn Doors	L164	-	
10	ETC Parnel	127	R110	24	Barn Doors	L721	-	



DETROIT Position:								PS RAIL
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	120	R69	60	Barn Doors	O/W	-	
2	ETC Parnel	121	R70	56	Barn Doors	L721	-	
3	ETC Parnel	120	R69	60	Barn Doors	O/W	-	
4	ETC Parnel	121	R70	56	Barn Doors	L721	-	
5	ETC Source Four 26 °	130	R64	58		L154	R119	
6	ETC Parnel	122	R58	53	Barn Doors	L164	-	
7	ETC Source Four 26 °	131	R63	55		L154	R119	
8	ETC Parnel	123	R57	52	Barn Doors	L721	-	
9	ETC Parnel	122	R58	53	Barn Doors	L164	-	
10	ETC Parnel	123	R57	52	Barn Doors	L721	-	

DETROIT Position: GROUND								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16 - Birdie	180	Weiland A0.1	43	ON FLAT	L201		TOP FLAT
2	Par 16 - Birdie	181	Weiland A0.2	44	TOP FLAT	L164		TOP FLAT
3	Par 16 - Birdie	182	Weiland A0.3	45	SLIDING DOOR	L164		SLIDING DOOR
4	Par 16 - Birdie	180	Weiland A0.1	43	ON FLAT	L201		SLIDING DOOR
5	Par 16 - Birdie	181	Weiland A0.2	44	TOP FLAT	L134		ON FLAT
6	Par 16 - Birdie	182	Weiland A0.3	45	SLIDING DOOR	L134		ON FLAT
7	Porch Light	183	Weiland A0.4	46	On Frame	-		On Door
8	ZR-45 Smoke	250	DBZ25BP77		-	-		Upstage Centre A7 Power Outlet
9	Aldi Smoke Machine	-	DBZ25BP77		-	-		Upstage Centre A7 Power Outlet



DETROIT Position: PS Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	190	R72	48		L201	R119	@ 1000mm
2	ETC Source Four 26 °	192	R71	59		L079	R119	@2000mm



DETROIT Position: PS Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	196	R59	49		L201	R119	@1000mm
2	ETC Source Four 26 °	194	R60	42		O/W	R119	@2000mm



DETROIT Position: OP Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	191	R100	84		L201	R119	@ 1000mm
2	ETC Source Four 26 °	193	R99	81		L164	R119	@2000mm



DETROIT Position: OP Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	195	R112	19		L201	R119	@1000mm
2	ETC Source Four 26 °	197	R111	20		O/W	R119	@2000mm



Position: Backstage Blues								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
2	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
3	Par 16	202	R35	9		L721	-	Mounted on USOP Flat
4	Par 16	202	R35	9		L721	-	Mounted on USPS Flat
5	Par 16	202	R48	11		L721	-	Mounted on USOP Flat
6	Par 16	202	R48	11		L721	-	Mounted on USPS Flat



Season of Contemporary American Plays:

The Loft, QUT Creative Industries Precinct

Instrument Schedule

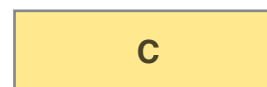


Version 3

As at 19 May 2017 at 11:03 pm

The Loft: Standard Patch Locations			
Location	# of Patch Points	Numbering	6x 12 Outlet conduit attached to the grid
Overhead Conduit	72	1-72	Outlets throughout Roof
Overhead Grid	30	1-30	
Upstage Wall	18	31-48	
Prompt Wall	30	49-78	
Downstage Wall	10	79-88	Above Seating Bank
OP Wall	30	89-118	

- C = Conduit = Yellow Tags
- R= Wall, roof patches = White small tag





Position: LX2

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	41	R25	66		L201	R119	
2	ETC Source Four 19 °	40	R30	65		OW	R119	



Position:								LX3
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	51	C12	30		L201	R119	
2	ETC Source Four 19 °	50	R29	63		OW	R119	



Position:								LX4
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	60	C5	27		O/W	R119	



Position:								LX5
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	91	C24	14		L201	R119	
2	ETC Source Four 19 °	81	C22	17		L201	R119	
3	ETC Parnel	143	C19	18	Barn Doors	L009	-	
4	ETC Source Four 19 °	90	C15	28		O/W	R119	
5	ETC Source Four 19 °	80	C14	15		O/W	R119	



Position: LX6

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	95	C35	16		OW	R119	Selecon Rama PC
2	ETC Parnel	144	C34	13	Barn Doors	L009	-	
3	ETC Parnel	142	C28	6	Barn Doors	L009	-	
4	ETC Source Four 19 °	96	C25	33		OW	R119	



Position: LX7

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	42	R15	70	Barn Doors	OW	-	



Position:								LX8
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	102	R14	67		L079	-	MFL Lense
2	PAR64	102	C45	87		L079	-	MFL Lense
3	ETC Parnel	52	C44	100	Barn Doors	O/W	-	
4	PAR64	103	C42	97		L079	-	MFL Lense
5	PAR64	103	C40	101		L079	-	MFL Lense
6	ETC Parnel	73	C39	98	Barn Doors	L201	-	



Position:								LX9
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	104	C58	74		L079	-	
2	ETC Parnel	62	C57	77	Barn Doors	O/W	-	MFL Lense
3	ETC Parnel	83	C53	76	Barn Doors	L201	-	
4	PAR64	105	C52	73		L079	-	



Position:								LX10
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	151	C71	103	IRIS	L134	R119	
2	ETC Parnel	146	R08	64	Barn Doors	O/W	-	
3	PAR64	107	R07	61		L079	-	MFL Lense
4	ETC Parnel	93	C56	106	Barn Doors	L201	-	
5	PAR64	107	R07	61		L079	-	MFL Lense
6	ETC Parnel	92	C55	93	Barn Doors	O/W	-	
7	PAR64	106	R09	51		L079	-	MFL Lense
8	PAR64	106	R10	54		L079	-	MFL Lense
9	ETC Parnel	140	R11	2	Barn Doors	L009	-	



Position:								LX11
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	116	C68	92		L164	-	MFL Lense
2	PAR64	115	C67	95		L164	-	MFL Lense
3	PAR64	115	C66	91		L164	-	MFL Lense
4	PAR64	116	C55	94		L164	-	MFL Lense



Position:								LX12
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	153	R02	10	IRIS	L009	R119	
2	ETC Source Four 19 °	156	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119	



Position: LXA

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	70	C01	25		OW	R119	
2	ETC Parnel	13	C13	29	Barn Doors	L009	-	



Position:								LXB
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	22	C26	36	Barn Door	L009	-	
2	ETC Parnel	141	R17	68	Barn Doors	L009	-	



Position: LXC

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	72	C38	86	Barn Doors	OW	-	
2	ETC Source Four 10 °	158	C62	108	IRIS	L134	R119	



Position:								LXD
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	154	C41	85	Barn Doors	L738	-	
2	ETC Parnel	82	C54	88	Barn Doors	O/W	-	



Position:								LXE
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	150	C30	3	IRIS	OW	R119	
2	ETC Parnel	43	C31	5	Barn Doors	L201	-	
3	PAR64	101	R16	71		L079	-	MFL Lense
4	ETC Source Four 26 °	157	C43	99	IRIS	OW	R119	



Position: LXF

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	71	C9	26		L201	R119	
2	ETC Parnel	53	C46	102	Barn Doors	L201	-	



Position:								LXG
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	63	C47	96	Barn Doors	L201	-	
2	ETC Source Four 10 °	155	R01	7	IRIS	L134	R119	



Position:								LXH
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	11	C36	32	Barn Door	L009		
2	ETC Parnel	145	R13	57	Barn Doors	L009	-	
3	ETC Parnel	64	C48	90	Barn Doors	O/W	-	
4	ETC Parnel	10	C60	89	Barn Doors	L009		
5	ETC Parnel	10	C72	105	Barn Doors	L009		



Position:								LXI
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	12	R67	69	Barn Doors	L009	-	-
2	ETC Source Four 19 °	61	R68	72		L201	R119	



Position: REAR (DS) RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	31	R81	104		L201	R119	
2	ETC Source Four 19 °	21	R82	107		L201	R119	
3	ETC Source Four 19 °	30	R83	75		L201	R119	
4	ETC Source Four 19 °	20	R84	78		L201	R119	



DETROIT Position: OP RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	124	R97	80	Barn Doors	O/W	-	
2	ETC Parnel	125	R98	83	Barn Doors	L721	-	
3	ETC Parnel	124	R97	80	Barn Doors	O/W	-	
4	ETC Parnel	125	R98	83	Barn Doors	L721	-	
5	ETC Source Four 26 °	132	R103	35		L210	R119	
6	ETC Parnel	126	R104	34	Barn Doors	L164	-	
7	ETC Source Four 26 °	133	R109	31		L210	R119	
8	ETC Parnel	127	R110	29	Barn Doors	L721	-	
9	ETC Parnel	126	R104	34	Barn Doors	L164	-	
10	ETC Parnel	127	R110	24	Barn Doors	L721	-	



DETROIT Position:								PS RAIL
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	120	R69	60	Barn Doors	O/W	-	
2	ETC Parnel	121	R70	56	Barn Doors	L721	-	
3	ETC Parnel	120	R69	60	Barn Doors	O/W	-	
4	ETC Parnel	121	R70	56	Barn Doors	L721	-	
5	ETC Source Four 26 °	130	R64	58		L154	R119	
6	ETC Parnel	122	R58	53	Barn Doors	L164	-	
7	ETC Source Four 26 °	131	R63	55		L154	R119	
8	ETC Parnel	123	R57	52	Barn Doors	L721	-	
9	ETC Parnel	122	R58	53	Barn Doors	L164	-	
10	ETC Parnel	123	R57	52	Barn Doors	L721	-	

DETROIT Position: GROUND								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16 - Birdie	180	Weiland A0.1	43	ON FLAT	L201		TOP FLAT
2	Par 16 - Birdie	181	Weiland A0.2	44	TOP FLAT	L164		TOP FLAT
3	Par 16 - Birdie	182	Weiland A0.3	45	SLIDING DOOR	L164		SLIDING DOOR
4	Par 16 - Birdie	180	Weiland A0.1	43	ON FLAT	L201		SLIDING DOOR
5	Par 16 - Birdie	181	Weiland A0.2	44	TOP FLAT	L134		ON FLAT
6	Par 16 - Birdie	182	Weiland A0.3	45	SLIDING DOOR	L134		ON FLAT
7	Porch Light	183	Weiland A0.4	46	On Frame	-		On Door
8	ZR-45 Smoke	250	DBZ25BP77		-	-		Upstage Centre A7 Power Outlet
9	Aldi Smoke Machine	-	DBZ25BP77		-	-		Upstage Centre A7 Power Outlet



DETROIT Position: PS Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	190	R72	48		L201	R119	@ 1000mm
2	ETC Source Four 26 °	192	R71	59		L079	R119	@2000mm



DETROIT Position: PS Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	196	R59	49		L201	R119	@1000mm
2	ETC Source Four 26 °	194	R60	42		O/W	R119	@2000mm



DETROIT Position: OP Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	191	R100	84		L201	R119	@ 1000mm
2	ETC Source Four 26 °	193	R99	81		L164	R119	@2000mm



DETROIT Position: OP Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	195	R112	19		L201	R119	@1000mm
2	ETC Source Four 26 °	197	R111	20		O/W	R119	@2000mm



Position: Backstage Blues								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
2	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
3	Par 16	202	R35	9		L721	-	Mounted on USOP Flat
4	Par 16	202	R35	9		L721	-	Mounted on USPS Flat
5	Par 16	202	R48	11		L721	-	Mounted on USOP Flat
6	Par 16	202	R48	11		L721	-	Mounted on USPS Flat



Season of Contemporary American Plays 2017 Dimmer Addresses

Number	Type	Universe	Address	Position
1	Jands FP12	1	1	OP Dock Dimmer Cage
2	Jands FP12	1	13	OP Dock Dimmer Cage
3	Jands FP12	1	25	OP Dock Dimmer Cage
4	Jands FP12	1	37	OP Dock Dimmer Cage
5	Jands FP12	1	49	OP Dock Dimmer Cage
6	Jands FP12	1	61	OP Dock Dimmer Cage
7	Jands FP12	1	73	OP Dock Dimmer Cage
8	Jands FP12	1	85	OP Dock Dimmer Cage
9	Jands FP12	1	97	OP Dock Dimmer Cage
10	Jands HP12 - T	1	109	OP Dock Dimmer Cage
Total # of Dimmers			121	
# of Dimmers in Use			95	
# of Remaining Dimmers			26	

NB: Dimmer #10 is temporary addition due to blown single circuit in Dimmer #3.



Season of Contemporary American Plays 2017

Intelligent Fixture Sheet

Fixture	Channel	Universe	Address	Position	Power	Mode
Jem ZR45 Smoke Machine	250	1	250	US Behind Flat	GPO	Single Channel
Rosco Revo Pro Gobo Rotator	156	1	243	LX Bar 12	GPO	Mode 1 (2 Channel)
Aldi Smoke Machine	-	-	-	US Behind Flat		



Season of Contemporary American Plays 2017

Returns List

Item	Qty	Notes	Date Picked Up	Picked Up	Return Date	Returned	Location
Birdies	9	Incandescent bulbs	10/05/17	Yes	12/06/17	Yes	Gardens Theatre
Smoke Machine	1	ZR-45	10/05/17	Yes	12/06/17	Yes	Gardens Theatre
Smoke Fluid	5ltr	for ZR-45 -				Yes	Gardens Theatre
Gobo Rotator	1	Revo Pro + IEC	10/05/17	Yes	12/06/17	Yes	Gardens Theatre
Gobo Pattern 1	2	Horizontal Slates	19/05/17	Yes	12/06/17	Yes	Gardens Theatre
Glass Ripple Gobo	2	B Size (TBC) Water	10/05/17	Yes	12/06/17	Yes	Gardens Theatre
Smoke Machine	1	Hand Held -Aldi + Fluid	10/05/17	Yes	12/06/17	Yes	Gardens Theatre
H Stand	3		10/05/17	Yes	12/06/17	Yes	Gardens Theatre
5Metre DMX Wire	4	for Gobo Rotator Run	10/05/17	Yes	12/06/17	Yes	Gardens Theatre
240v Power Leads	6	1m / Additional Cable Stock	18/05/17	Yes	12/06/17	Yes	The Block
12v Transformer	1	for Detroit Porch Fixture	22/05/17	Deliver	29/05/17	Yes	Tom Edmiston
60cm Fan	1	240v Powered Silver Fan	31/05/17	Deliver	05/06/17	Yes	Cameron Goerg





Additional Equipment							
Item	Qty	Notes	Date Picked Up	Picked Up	Return Date	Returned	Location
15" Macbook Pro	1	with ETC Nomad*	11/05/17	Del.	12/06/17	Yes	Dale Norris
Router	1	Apple Airport	11/05/17	Del.	12/06/17	Yes	Dale Norris
Apple iPad Pro	1	with Alien Stagecraft*	11/05/17	Del.	12/06/17	Yes	Dale Norris
Network Switch	1	+ PSU	11/05/17	Del.	12/06/17	Yes	Dale Norris
1m Cat 6 Cable	1	Patch from Network Switch to Console	11/05/17	Del.	12/06/17	Yes	Dale Norris
15m Cat 5e Cable	1	Patch from Network Switch to Prod Desk	11/05/17	Del.	12/06/17	Yes	Dale Norris
ETC Nomad Kit	1	Dongle and Gadget II	11/05/17	Del.	31/05/17	Yes	Dale Norris
RF Kit	1	for Eurydice	11/05/17	Del.	31/05/17	Yes	Dale Norris
Battery Kit	1	for Eurydice	11/05/17	Del.	31/05/17	Yes	Dale Norris
GoPro Kit	1	For Season	11/05/17	Del.	31/05/17	Yes	Dale Norris
Desk Lamp	1		11/05/17	Del.	12/06/17	Yes	Dale Norris
Keyboard	1		11/05/17	Del.	12/06/17	Yes	Dale Norris
50m Cat 5 E	2		11/05/17	Del.	05/06/17	Yes	Dale Norris

* Removed each night and returned the following day.



Venue Supply - The Loft; QUT Creative Industries Precinct			
Venue Fixture	Use	Stock	Remaining
Profiles			
ETC Source 4 19° 750w	19	20	1
ETC Source 4 26° 750w	13	13	0
ETC Source 4 10° 750w	5	12	7
Fresnels & PC's			
ETC Parnel 1200w	45	46	1
Selecon Rama PC	2	4	2
Par Cans			
Par64 MFL 1000w	17	20	3
LX Accessories			
Gobo Holder - Source 4	4	4	0
Iris Holder - Source 4	8	12	4
Boom Base Plates	4	8	4
48mm ØD Pipe x 2500mm	4	5	1
H Stands	4	4	0
LX Control and Data Distribution			
ETC Element 250	1	1	0
Jands FP 12 Dimmer	9	9	0
Jands HP 12 - T Dimmer	1	1	0

All Gel as per the gel cut sheet to be provided by QUT Precincts
HLX to count, source and provide Precincts Coordinator with # of sheets required.

All fixtures to be in good working condition, in test tag date, have; gel frame, safety chain and clamp. Fresnel's and Parnel's to have barn doors.



Gardens Theatre QUT Precincts Supply.	
Items	QTY
Birdies	8
Gobo Pattern 1 (Horizontal Slates)	2
Rosco Revo Pro Rotator	1
Glass Water Ripple Gobo	2
H Stand	3
LX Accessories	
Smoke Machine ZR45	1
Aldi Smoke Machine	1

DN to Supply.	
Items	QTY
15" Macbook Pro with ETC Nomad	1
Apple Airport Router	1
Apple iPad Pro with Alien Stagecraft	1
8 Port Network Switch	1
2m Cat 5e Cable	1
25m Cat 5e Cable	2
ETC Nomad Dongle Kit	1

Additional Equipment		
Items	QTY	From
Eurydice 60cm Fan	1	C. Goerg - Qld Ballet

NAB EFTPOS
HERKES ELECTRICAL
EAST BRISBANE AU

MID: 47974035

TID: M4CJ02

Version: 0.3.14B

CUSTOMER COPY

MAY 11, 17 15:04

BATCH: 000107

INV: 329

STAN: 000530

ACCOUNT TYPE CREDIT

RRN: 000107000329

VISA

.....0117(m)

SALE AUD \$165.04

APPROVED 08

APPROVAL CODE 401212

PLEASE RETAIN RECEIPT
FOR YOUR RECORDS

HERKES ELECTRICAL SUPPLIES PTY LTD

ABN: 25 000 130 110

ACN: 000 130 110

UNIT 10 / 26-34 DUNNING AVENUE, ROSEBERY, NSW, 2018

PO BOX 7213, ALEXANDRIA, NSW, 2015, AUSTRALIA

Bank Details BSB: 082088 Acc: 509141498

Web: www.herk.es.com.au

Email: herkes@herkes.com.au



TAX INVOICE

Doc No: 218587

Date: 11/05/17

Wholesale Ph: 02 9319 3133 Fx: 02 9699 1319

ProLighting Ph: 02 9319 2452 Fx: 02 9319 0204

ProAudio Ph: 02 9319 2452 Fx: 02 9319 0204

Hyperseal Ph: 02 9319 3133 Fx: 02 9699 1319

Invoice To:

CASH SALE
Thank You.
Please Call again

Deliver To:

QUT GARDENS THEATRE
TOM
0488163250

Customer No	Customer Order No	Sales Order No	Ship Via	Trading Terms		Payment Type		User ID	
823		197353		Cash		VISA		ME	
Product Code	Description	ORD QTY	DEL QTY	B/O QTY	Price	U.O.M	Disc	Nett Amount	Total
LEE738FULL	LEE GREEN JAS 120x50cm *FULL*	1.00	1.00 ✓	0.00	16.67	SHT	0.00	16.67	16.67
LEE795FULL	LEE MEGANTA-MAGICAL 120x50cm FULL NON	1.00	1.00 ✓	0.00	16.67	SHT	0.00	16.67	16.67
LEE009FULL	LEE AMBER PALE GOLD 120x50cm FULL 009	2.00	2.00 ✓	0.00	16.67	SHT	0.00	16.67	33.34
LEE164FULL	LEE RED-FLAME 120x50cm *FULL* *NON*	1.00	1.00 ✓	0.00	16.67	SHT	0.00	16.67	16.67
LEE134FULL	LEE AMBER GOLDEN 120x50cm FULL (NON)	2.00	2.00 ✓	0.00	16.67	SHT	0.00	16.67	33.34
LEE721FULL	LEE BLUE BERRY 120x50cm FULL NON	1.00	1.00 ✓	0.00	16.67	SHT	0.00	16.67	16.67
LEE079FULL	LEE BLUE JUST 120x50cm *FULL*	1.00	1.00 ✓	0.00	16.67	SHT	0.00	16.67	16.67

Please send remittance to: accounts@herkes.com.au
Accounts paid through AMEX a 3% surcharge will be applicable
Product returns must be done 14 days from date of Invoice
Special order items or non-stock items are non-returnable

Special Instructions

Packed	Checked

SUB TOTAL	150.03
GST	15.01
Invoice Total:	165.04
Payment Received	165.04
Balance Due	0.00

All amounts in AUD

Received

Print Name

Signature

Date



Season of Contemporary American Plays 2017

Colour Cut List.

Fixture	Gel	Quantity
Profiles		
ETC Source 4 19° 750w ETC Source 4 26° 750w	L201	14
	R119	30
	L079	4
	L139	2
	L154	4
	L164	12
	L210	2
	L738	6
	L795	4
ETC Source 4 10° 750w	L009	4
	L079	1
	L164	1
	L134	6
	R119	10
Fresnels & PC's		
ETC Parnel 1200w	L009	12
	L079	5
	L139	5
	L164	10
	L200	8
	L201	12
	L721	10
	L738	2
L795	5	
Selecon Rama 1.2K PC	L009	4
Par Cans		
Par64 MFL 1000w	L079	12 (6 to cut)
	L164	4
	L009	1
Par 16 Birdie	L134	2
	L164	2
	L201	2
	Green	Indicates Gel sourced and cut

Fixture	Frame Size	Gel Code	Name
ETC Source 4 19°	15.875 x 15.875 cm	L079	Just Blue
ETC Source 4 26°	15.875 x 15.875 cm	L200	Double CT Blue
ETC Source 4 10°	30.48 x 30.48 cm	L201	Full CT Blue 3200-5700K
ETC Parnel	19.05 x 19.05 cm	L210	Neutral Density
Selecon Rama PC	18.6 x 19.0 cm	L738	Jas Green
Par 64	25.4 x 25.4 cm	L009	Pale Amber Gold
Par 16 Birdie	7.3025 x 7.3025 cm	L134	Golden Amber
		L154	Pale Rose
		L164	Flame Red
		L139	Primary Green
		L721	Berry Blue
		L795	Magic Magenta
		R119	Roscolux Light Hamburg Frost



Season of Contemporary American Plays 2017

Consumables List

Item	Notes	Qty of Sheets	Cost per Item	Stocked by	Use	Subtotal
Martin Pro Smoke	5 Litre Bottle	1	\$50.00	Brisbane Sound Group	ZR-45 Smoke Machine	\$50.00
Lee L738	Jas Green	1	\$16.67	Prod Shop / Herkes	2x Parnel 6x S4 19 deg	\$16.67
Lee 795	Magic Magenta	1	\$16.67	Prod Shop / Herkes	5x Parnel, 4x S4 19 Deg	\$16.67
Lee 009	Pale Amber Gold	2	\$16.67	Prod Shop / Herkes	12x Parnel, 4x 1.2k PC, 4x Source 4 10 Deg	\$33.34
Lee 164	Flame Red	1	\$16.67	Prod Shop / Herkes	4x Par 64, 2x Birdies	\$16.67
Lee 134	Golden Amber	2	\$16.67	Prod Shop / Herkes	6x S4 10 Deg	\$33.34
Lee 721	Berry Blue	1	\$16.67	Prod Shop / Herkes	10x Parnel	\$16.67
Lee 079	Just Blue	1	\$16.67	Prod Shop / Herkes	12x Par 64	\$16.67

* Gel Quantities are per 120cm x 50cm sheet.

Total Cost	\$200.03
Total Budget Allocation	\$200.00
Remaining Lighting Budget Allocation	-\$0.03

Notes:

Brisbane Sound Group Have current stock of Fluid.
 Fluid also available from The Production Shop / Herkes at a cost of \$65.00 per bottle with a lead time of 4 days.
 Gel Quantities are in Sheets
 Gel Sheets priced off a single 120cm x 50cm sheet from The Production Shop / Herkes Electrical however could be stocked else where
 Fluid still TBC - Gardens Theatre has small amounts of fluid available.



Season of Contemporary American Plays 2017
Lighting Consumables Usage

Date	Item	Qty	Notes	Channel	Position	Fixture #
19 May 2017	1.2k Bulb	1	Light blew during focus.	11	LXH	1
18 May 2017	ETC 19' Bulb	1	Lighting bulb didn't work after being flashed	41	LX2	1
05 June 2017	ETC Parnel 750w Bulb	1	Bulb didn't work coming into the new week.	10	LXI	2



Season of Contemporary American Plays:
The Loft, QUT Creative Industries Precinct
Instrument Schedule

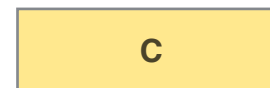


Version 5
As at 24 May 2017 at 8:42 am



The Loft: Standard Patch Locations			
Location	# of Patch Points	Numbering	6x 12 Outlet conduit attached to the grid
Overhead Conduit	72	1-72	Outlets throughout Roof
Overhead Grid	30	1-30	
Upstage Wall	18	31-48	
Prompt Wall	30	49-78	
Downstage Wall	10	79-88	Above Seating Bank
OP Wall	30	89-118	

- C = Conduit = Yellow Tags
- R= Wall, roof patches = White small tag





Position: LX2

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	41	R25	66		L201	R119	
2	ETC Source Four 19 °	40	R30	65		OW	R119	



Position: LX3

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	51	C12	30		L201	R119	
2	ETC Source Four 19 °	50	R29	63		OW	R119	



Position:								LX4
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	60	C5	27		O/W	R119	



Position:								LX5
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	91	C24	14		L201	R119	
2	ETC Source Four 19 °	81	C22	17		L201	R119	
3	ETC Parnel	143	C19	18	Barn Doors	L009	-	
4	ETC Source Four 19 °	90	C15	28		O/W	R119	
5	ETC Source Four 19 °	80	C14	15		O/W	R119	



Position: LX6

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	95	C35	16		OW	R119	Selecon Rama PC
2	ETC Parnel	144	C34	13	Barn Doors	L009	-	
3	ETC Parnel	142	C28	6	Barn Doors	L009	-	
4	ETC Source Four 19 °	96	C25	33		OW	R119	



Position: LX7

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	42	R15	70	Barn Doors	OW	-	



Position: LX8

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	102	R14	67		L079	-	MFL Lense
2	PAR64	102	C45	87		L079	-	MFL Lense
3	ETC Parnel	52	C44	100	Barn Doors	O/W	-	
4	PAR64	103	C42	97		L079	-	MFL Lense
5	PAR64	103	C40	101		L079	-	MFL Lense
6	ETC Parnel	73	C39	98	Barn Doors	L201	-	



Position:								LX9
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	104	C58	74		L079	-	
2	ETC Parnel	62	C57	77	Barn Doors	O/W	-	MFL Lense
3	ETC Parnel	83	C53	76	Barn Doors	L201	-	
4	PAR64	105	C52	73		L079	-	



Position:								LX10
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	151	C71	103	IRIS	L134	R119	
2	ETC Parnel	146	R08	64	Barn Doors	O/W	-	
3	PAR64	107	R07	61		L079	-	MFL Lense
4	ETC Parnel	93	C56	106	Barn Doors	L201	-	
5	PAR64	107	R07	61		L079	-	MFL Lense
6	ETC Parnel	92	C55	93	Barn Doors	O/W	-	
7	PAR64	106	R09	51		L079	-	MFL Lense
8	PAR64	106	R10	54		L079	-	MFL Lense
9	ETC Parnel	140	R11	2	Barn Doors	L009	-	



Position: LX11

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	116	C68	92		L164	-	MFL Lense
2	PAR64	115	C67	95		L164	-	MFL Lense
3	PAR64	115	C66	91		L164	-	MFL Lense
4	PAR64	116	C55	94		L164	-	MFL Lense



Position: LX12								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	153	R02	10	IRIS	L009	R119	
2	ETC Source Four 19 °	156	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119	



Position: LXA

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	70	C01	25		OW	R119	
2	ETC Parnel	13	C13	29	Barn Doors	L009	-	



Position: LXB

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	22	C26	36	Barn Door	L009	-	
2	ETC Parnel	141	R17	68	Barn Doors	L009	-	



Position:								LXC
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	72	C38	86	Barn Doors	O/W	-	
2	ETC Source Four 10 °	158	C62	108	IRIS	L134	R119	



Position:								LXD
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	154	C41	85	Barn Doors	L738	-	
2	ETC Parnel	82	C54	88	Barn Doors	O/W	-	



Position: LXE

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	150	C30	3	IRIS	OW	R119	
2	ETC Parnel	43	C31	5	Barn Doors	L201	-	
3	PAR64	101	R16	71		L079	-	MFL Lense
4	ETC Source Four 26 °	157	C43	99	IRIS	OW	R119	



Position:								LXF
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	71	C9	26		L201	R119	
2	ETC Parnel	53	C46	102	Barn Doors	L201	-	



Position: LXG								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	63	C47	96	Barn Doors	L201	-	
2	ETC Source Four 10 °	155	R01	7	IRIS	L134	R119	



Position:								LXH
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	11	C36	32	Barn Door	L009		
2	ETC Parnel	145	R13	57	Barn Doors	L009	-	
3	ETC Parnel	64	C48	90	Barn Doors	O/W	-	
4	ETC Parnel	10	C60	89	Barn Doors	L009		
5	ETC Parnel	10	C72	105	Barn Doors	L009		



Position:								LXI
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	12	R67	69	Barn Doors	L009	-	-
2	ETC Source Four 19 °	61	R68	72		L201	R119	



								Position: REAR (DS) RAIL
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	31	R81	104		L201	R119	
2	ETC Source Four 19 °	21	R82	107		L201	R119	
3	ETC Source Four 19 °	30	R83	75		L201	R119	
4	ETC Source Four 19 °	20	R84	78		L201	R119	



DETROIT Position: OP RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	124	R97	80	Barn Doors	O/W	-	
2	ETC Parnel	125	R98	83	Barn Doors	L721	-	
3	ETC Parnel	124	R97	80	Barn Doors	O/W	-	
4	ETC Parnel	125	R98	83	Barn Doors	L721	-	
5	ETC Source Four 26 °	132	R103	35		L210	R119	
6	ETC Parnel	126	R104	34	Barn Doors	L164	-	
7	ETC Source Four 26 °	133	R109	31		L210	R119	
8	ETC Parnel	127	R110	29	Barn Doors	L721	-	
9	ETC Parnel	126	R104	34	Barn Doors	L164	-	
10	ETC Parnel	127	R110	24	Barn Doors	L721	-	



DETROIT Position:								PS RAIL
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	120	R69	60	Barn Doors	O/W	-	
2	ETC Parnel	121	R70	56	Barn Doors	L721	-	
3	ETC Parnel	120	R69	60	Barn Doors	O/W	-	
4	ETC Parnel	121	R70	56	Barn Doors	L721	-	
5	ETC Source Four 26 °	130	R64	58		L154	R119	
6	ETC Parnel	122	R58	53	Barn Doors	L164	-	
7	ETC Source Four 26 °	131	R63	55		L154	R119	
8	ETC Parnel	123	R57	52	Barn Doors	L721	-	
9	ETC Parnel	122	R58	53	Barn Doors	L164	-	
10	ETC Parnel	123	R57	52	Barn Doors	L721	-	



DETROIT Position:								GROUND
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16 - Birdie	180	Weiland A0.1	43	ON FLAT	L201		TOP FLAT
2	Par 16 - Birdie	181	Weiland A0.2	44	TOP FLAT	L134		TOP FLAT
3	Par 16 - Birdie	182	Weiland A0.3	45	SLIDING DOOR	L164		SLIDING DOOR
4	Par 16 - Birdie	180	Weiland A0.1	43	ON FLAT	L201		SLIDING DOOR
5	Par 16 - Birdie	181	Weiland A0.2	44	TOP FLAT	L134		ON FLAT
6	Par 16 - Birdie	182	Weiland A0.3	45	SLIDING DOOR	L164		ON FLAT
7	Porch Light	183	Weiland A0.4	46	On Frame	-		On Door
8	ZR-45 Smoke	250	DBZ25BP77		-	-		Upstage Centre A7 Power Outlet
9	Aldi Smoke Machine	-	DBZ25BP77		-	-		Upstage Centre A7 Power Outlet
10	Par 64	185	R54	22	Barn Doors	L009	-	on Top of Flat



DETROIT Position: PS Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	190	R72	48		L164	R119	@ 1000mm
2	ETC Source Four 26 °	192	R71	59		L079	R119	@2000mm



DETROIT Position: PS Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	196	R59	49		L201	R119	@1000mm
2	ETC Source Four 26 °	194	R60	42		O/W	R119	@2000mm



DETROIT Position: OP Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	191	R100	84		L079	R119	@ 1000mm
2	ETC Source Four 26 °	193	R99	81		L164	R119	@2000mm



DETROIT Position: OP Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	195	R112	19		L201	R119	@1000mm
2	ETC Source Four 26 °	197	R111	20		O/W	R119	@2000mm



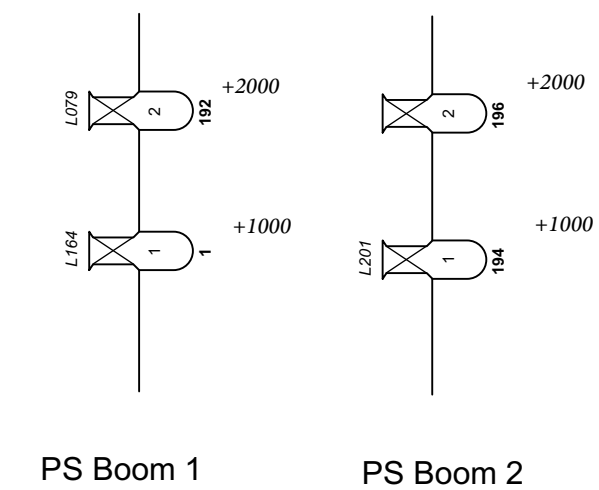
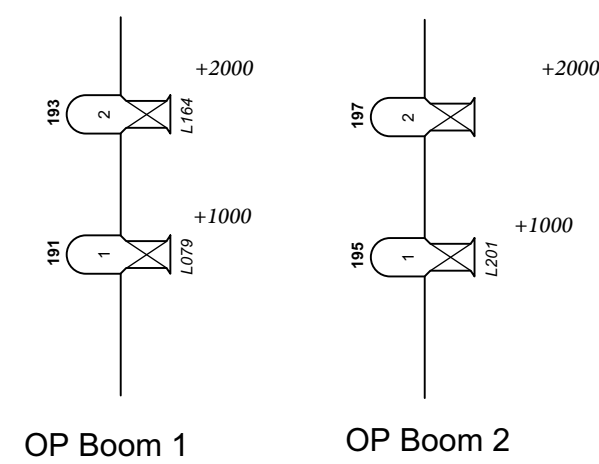
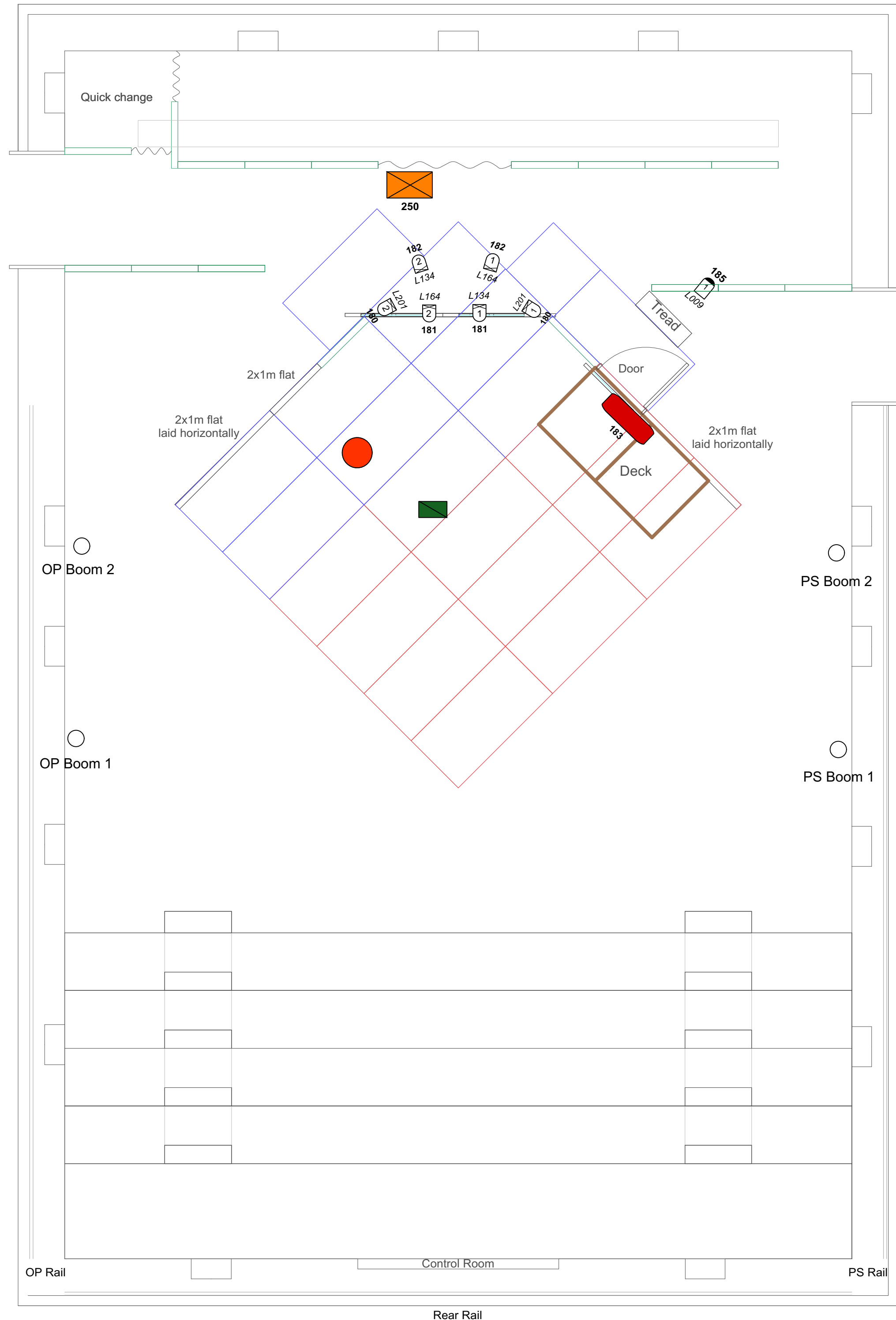
								Position: Backstage Blues
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
2	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
3	Par 16	202	R35	9		L721	-	Mounted on USOP Flat
4	Par 16	202	R35	9		L721	-	Mounted on USPS Flat
5	Par 16	202	R48	11		L721	-	Mounted on USOP Flat
6	Par 16	202	R48	11		L721	-	Mounted on USPS Flat



Season of Contemporary American Plays 2017
DETROIT - Lamp Check Cue Synopsis

Cue #	Channels	Description	Time (secs)	Notes
0.1	1 thru 202 (All)	@ 30%	30secs	Fade Up
0.2	All	@ 0%	30secs	Fade Out
0.3	20,30,40,50,60,70,80,90,95,96	@30 %	7 Secs	FOH Warm (10)
0.4	21, 31,41,51,61,71,81,91	@30 %	7 Secs	FOH Cool (8)
0.5	10, 10,11,12,13,22	@30 %	7 Secs	House LX (6)
0.6	42,52,62,72,82,92	@30 %	7 Secs	O/H Warm (6)
0.7	43,53,63,73,83,93	@30 %	7 Secs	O/H Cool (6)
0.8	101 - 107	@30 %	7 Secs	O/H Blue (11)
0.9	115 + 116	@30 %	7 Secs	O/H Amber (4)
1	120 - 133	@30 %	7 Secs	Side Bars
1.1	150, 151, 153, 154, 155, 156,157, 158	@30 %	7 Secs	Specials (8) + Gobo Rotating
1.2	141 - 145	@30 %	7 Secs	Corridor of Light (5)
1.3	190- 197	@30 %	7 Secs	Booms (8)
1.4	180- 183 +185	@30 %	7 Secs	Set LX (8)
1.5	250	Manual Operation	Burst	Smoke (1)
1.6	All	@0 %	7 Secs	DBO Check
1.7	202	Full	7 Secs	Blues Check
3	Pre Show State As per LX File			

*Ensure isolation before testing cue list



KEY		
	ETC Source 4 19 Degree	19/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	5/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	45/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8
	Porch Light	1/1
	Battery operated Lights	6/6

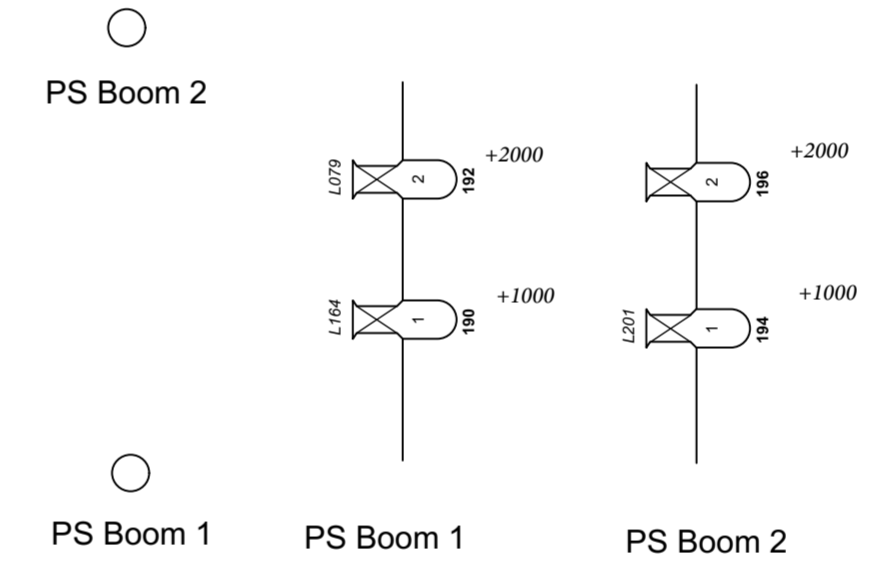
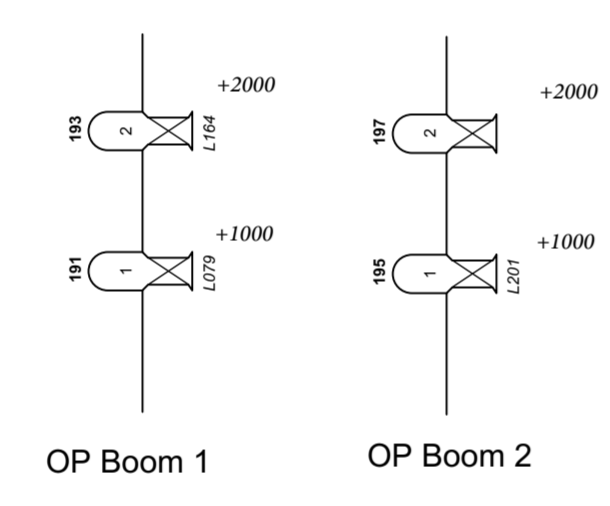
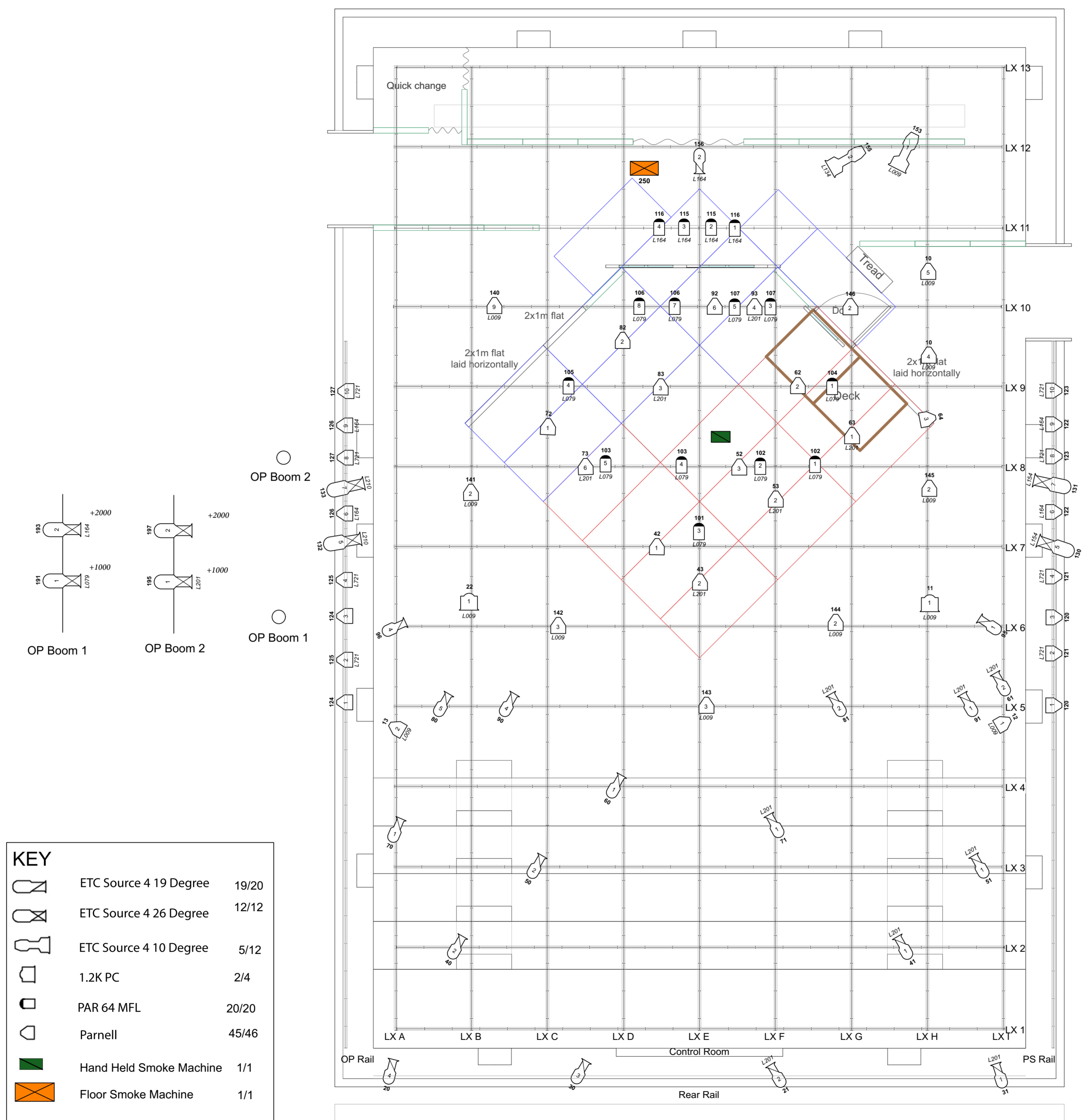
Notes

- All:
- All S4's to have R119
 - Boom height to the centre of the lens
 - All S4's 10 Degrees to have **IRIS**
 - Top hats for all fixtures on Booms
 - All Parnells and PC's to have Barndoors
 - **PS Boom 1** - in line with LX 6 against wall
 - **PS Boom 2** - in line with LX 8 against wall
 - **OP Boom 1** - in line with LX 6 against wall
 - **OP Boom 2** - in line with LX 8 against wall
- Fixtures **CH120 - 127 and CH102 - CH103, CH106 - CH107, CH10, CH115 - CH116** to be piggyback with their respective Channel Numbers.

Floor Specials:

- CH180** will be screwed to flats facing in
 - CH181** will be screwed to top of flats facing down
 - CH182** will be placed at the bottom of the sliding door
 - CH183** is a porch light - **ONLY** used for **DETROIT**
 - CH185** is a Par Can with Barn Doors - **ONLY** used for **DETROIT**
- Please note Floor Battery Operated Lights will be turned on by Actor or ASM during Scene 8. They will be placed underneath wooden table.**

	Season of Contemporary American Plays	Date 25.05.2017	Drawn by: C.Kidney in collaboration with B. McVicar, B. Scott	Set Design by: M.Penglis in collaboration with Y.Y.Yun, M.Miller	Directors: A. Moor	Scale 1: 50 @ A3
	Title Detroit LX Floor Plan	Version 6	LX Design by: C.Kidney in collaboration with B. McVicar, B. Scott	Sound Design by: M. Trevisan	Venue: The Loft - QUT Precincts Kelvin Grove	Subject to change



KEY

	ETC Source 4 19 Degree	19/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	5/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	45/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8

Notes

All:

- All S4's to have R119
- Boom height to the centre of the lens
- All S4's 10 Degrees to have IRIS
- Top hats for all fixtures on Booms
- All Parnells and PC's to have Barndoors
- **PS Boom 1** - in line with LX 6 against wall
- **PS Boom 2** - in line with LX 8 against wall
- **OP Boom 1** - in line with LX 6 against wall
- **OP Boom 2** - in line with LX 8 against wall
- Fixtures **CH120 - 127** and **CH102 - CH103, CH106 - CH107, CH10, CH115 - CH116** to be piggyback with their respective Channel Numbers.

Specials:

- 4 x Par Cans not in plan - have been left for Backstage BLUES
- Birdies and Par Can not included in plan - See Floor LX for placements - Detroit and Eurydice
- Battery Operated Lights will be placed underneath wooden table, and will be operated by ASM or Actor - not in plan - See Detroit Floor LX for placements

	Season of Contemporary American Plays	Date 25.05.2017	Drawn by: C.Kidney in collaboration with B. McVicar, B. Scott	Set Design by: M.Pengils in collaboration with Y.Y.Yun, M.Miller	Directors: A. Moor	Scale: 1: 50 @ A3
	Title Detroit LX Plan	Version 6	LX Design by: C.Kidney in collaboration with B. McVicar, B. Scott	Sound Design by: M. Trevisan	Vaue: The Loft - QUT Precincts Kelvin Grove	Subject to change



Head Electrician: Show Plot

Note:

Thank-you for stepping into the role of Head Electrician on the Season of Contemporary American Plays in my absence. This document, in conjunction with supporting documentation and the assistance of the LX Operator should be able to assist you in executing this role. Should you have any issues please do not hesitate to contact LX Operator or Production Stage Manager Chookas,
Dale Norris

Hour Call

- Obtain comms pack from Sound Department
- Action any notes from previous show report.
- Turn on all power distribution and dimmer racks located in the OP Dock Cage via the 10x 3 Phase Switches
- Turn on the Stair lights by pressing the two grey switches located in the dimmer cage next to the orange distribution board
- Ensure the LX Operator has powered up the lighting desk
- Turn off Stage Workers Located: at the Audience Entrance Door PS (6 Switches)
- Turn On Back Stage Blues Located: at the Clipsal Switch in the OP Dock
- Enter Cue #0.01 to perform lamp check
- Check position of birdies on set.
- Complete a lamp check by ensuring all fixtures are working and that the gel has not burnt through, check through the entire rig. -a detailed channel list is located in this plot
 - check for fixtures that have slipped focus / burnt through gel and action if required.
- Check Gobo Rotation on Channel #156 with LX Operator ensuring the Gobo Spins.
- Check with Duty Technician that the venue is isolated; then turn on ZR45 Smoke machine and Aldi Smoke Machine by pressing red button on rear of machine
- Run Atmospheric test with LX Operator by manual operation via console
- Complete a Black Out check; ensuring that OP Doors are closed / covered check for any light spill and rectify
- Advise LXO to enter pre show state
- Advice PSM pre show lighting checks are completed

During Show:

- Stand by on comms backstage to resolve any issues that may arise

Post Show:

- Upon clearance
 - Turn on stage workers located at the PS Audience door entrance
 - ensure LX Operator has lamped off fixtures and powered down lighting rig
 - Turn off both Atmospheric effects machines at the button of the rear of the machines and check fluid levels
 - Turn off all power distribution and dimmer racks located in the OP Dock Cage via the 10x 3 Phase Switches
 - Turn off the backstage blues off via the OP Dock Clipsal Switch
 - Turn off the Stair lights by pressing the two grey switches located in the dimmer cage next to the orange distribution board
 - Return Comms to SND Departments
 - Meet with PSM to provide or action notes
 - Sign out and Exit Venue

Contacts

Ryan Sweet: LXO - 0478 152 702
Emma Healy: FLX - 0448 468 568
Ella Gordon: PSM - 0410 365 585

Network Name: SOCAP LX
Password: S0c@p2017!
IP Address: 172.20.15.120
Subnet Mask: 255.255.0.0
Console IP Address: 192.168.97.110
Console Name: LoftElement

Lighting Network



Season of Contemporary American Plays 2017

Detroit - Head Electrician Show Plot

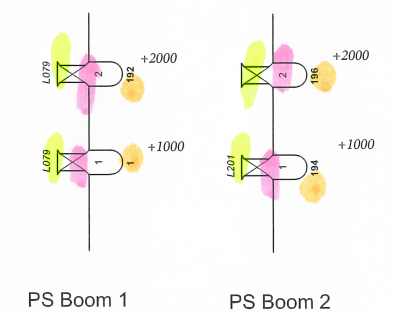
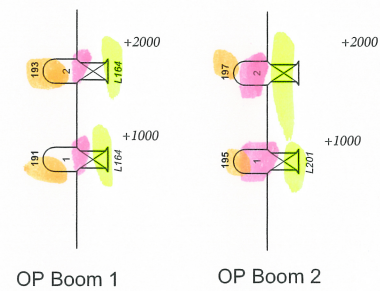
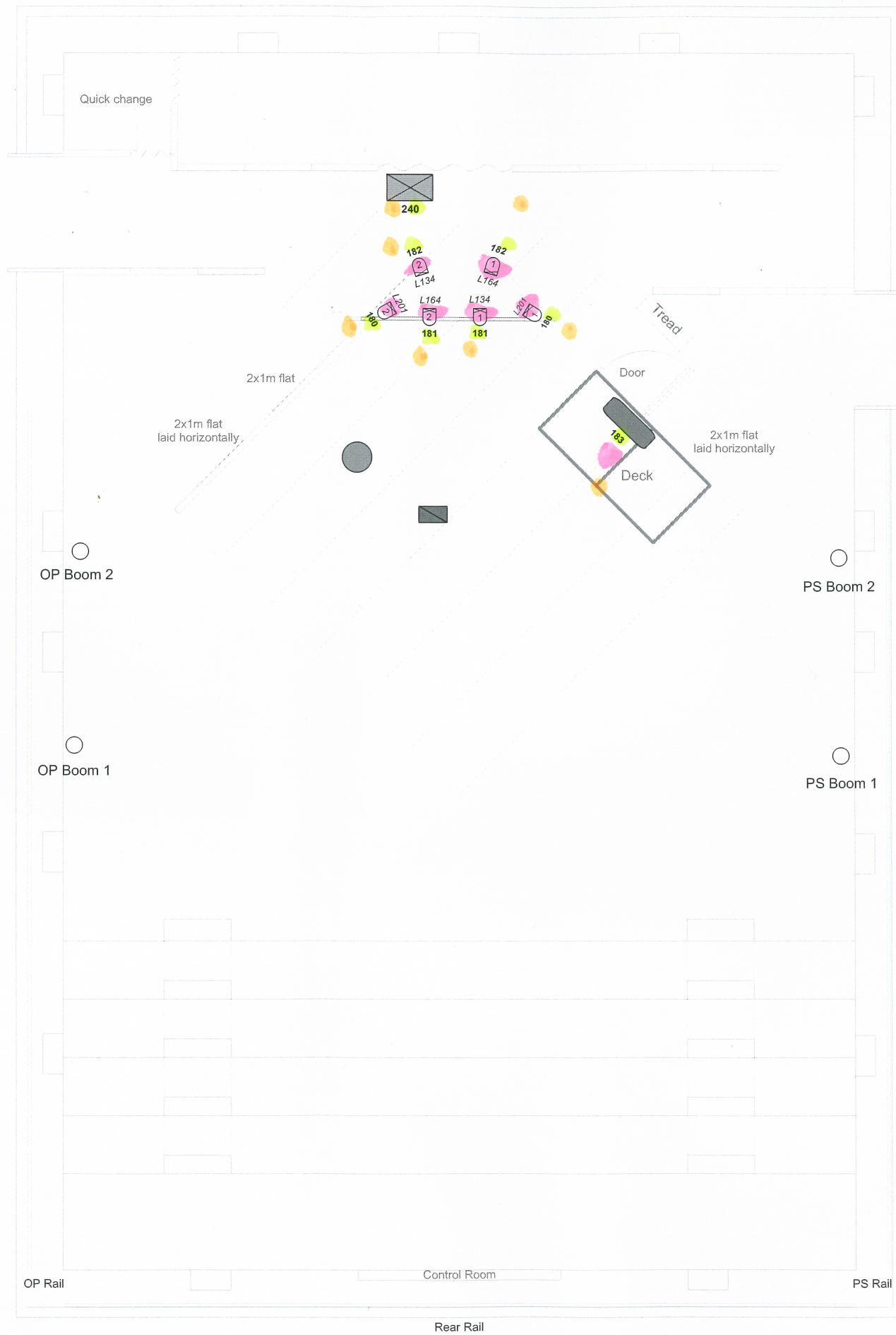
Things to Note

- The Lifter is located on Level 6; ensure you carry out the checks, fill out the EWP logbook and have it authorised by the duty technician.
- Gels are stored at the Green Room end of the dock in two collapsable folders sorted by both Gel # and Size as well as by Bar.
- Bulbs are stored in the Dimmer Cage; please see the Duty Technician for access to bulbs
- A Red Folder with all patch sheets, instrument schedules and associated paperwork is located with the gel folders.
- Dock Blues are located in the Bio Box; LXO to operate.

Fader	Use	Channels	Mode
1	House Lights	10 thru 14	
2	Backstage Blues	202	
3	Workers	42,52,62,72,82,92	
20	ZR-45 Smoke Machine	250	Inhibit

Pre Show Lamp Check Cue List

Cue #	Channels	Description	Time (secs)	Notes
0.1	1 thru 202 (All)	@ 30%	30secs	Fade Up
0.2	All	@ 0%	30secs	Fade Out
0.3	20,30,40,50,60,70,80,90,95,96	@30 %	7 Secs	FOH Warm (10)
0.4	31,41,51,61,71,81,91	@30 %	7 Secs	FOH Cool (7)
0.5	10, 10,11,12,13,22	@30 %	7 Secs	House LX (6)
0.6	42,52,62,72,82,92	@30 %	7 Secs	O/H Warm (6)
0.7	43,53,63,73,83,93	@30 %	7 Secs	O/H Cool (6)
0.8	101 - 107	@30 %	7 Secs	O/H Blue (12)
0.9	115 + 116	@30 %	7 Secs	O/H Amber (4)
1	120 - 133	@30 %	7 Secs	Side Bars
1.1	150, 151, 153, 154, 155, 156,157, 158	@30 %	7 Secs	Specials (8) + Gobo Rotating
1.2	141 - 145	@30 %	7 Secs	Corridor of Light (5)
1.3	190- 197	@30 %	7 Secs	Booms (8)
1.4	180- 183 +185	@30 %	7 Secs	Set LX (8)
1.5	250	Manual Operation	Burst	Smoke (1)
1.6	All	@0 %	7 Secs	DBO Check
1.7	202	@ 50	7 Secs	Blues Check



KEY		
	ETC Source 4 19 Degree	19/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	5/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	45/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8
	Porch Light	1/1
	Battery operated Lights	6/6

	Season of Contemporary American Plays	Date 20.05.2017	Drawn by: C.Kidney in collaboration with B. McVicar, B. Scott	Set Design by: M.Penglis in collaboration with Y.Y.Yun, M.Miller	Directors: A. Moor	Scale 1: 50 @ A3
	Title Detroit LX Floor Plan	Version 5	LX Design by: C.Kidney in collaboration with B. McVicar, B. Scott	Sound Design by: M. Trevisan	Venue: The Loft - QUT Precincts Kelvin Grove	Subject to change

Notes

All:

- All S4's to have R119
- Boom height to the centre of the lens
- All S4's 10 Degrees to have IRIS
- Top hats for all fixtures on Booms
- All Parnells and PC's to have Barndoors
- **PS Boom 1** - in line with LX 6 against wall
- **PS Boom 2** - in line with LX 8 against wall
- **OP Boom 1** - in line with LX 6 against wall
- **OP Boom 2** - in line with LX 8 against wall

Fixtures **CH120 - 127** and **CH102 - CH103, CH106 - CH107, CH10, CH115 - CH116** to be piggyback with their respective Channel Numbers.

Floor Specials:
CH180 will be screwed to flats facing in
CH181 will be screwed to top of flats facing down
CH182 will be placed at the bottom of the sliding door
CH183 is a porch light - **ONLY** used for **DETROIT**
Please note Floor Battery Operated Lights will be turned on by Actor or ASM during Scene 8. They will be placed underneath wooden table.



Lighting Cue Synopsis

CUE NO.	TIME	SCENE NO.	PAGE NO.	CUE POINT	DESCRIPTION	NOTES
0.1 – 1.7				HEAD LX CHECKS	REFER TO HEAD LX Preshow Checks	
3	5	1	3	Preshow State	Preshow State	
3.5	F/O 20s -/ 40	1	3	<i>Song Hello Detroit:</i> "...your renaissance, and.. "	H/L OUT	
4	- / 40	1	3	F/O LX CUE 3.5	PRESHOW STATE OUT	
Scene 1						
5	0 / 0	1	3	<i>Song Hello Detroit :</i> "... Hello.. "	Saturday Afternoon - 1600 Brings up opening scene	Beginning Scene 1 Mary and Ben Backyard
5.5	8 / 2	1	4	<i>Visual Cue: Ben fooling around with the Umbrella – halfway as he puts it up.</i>	Decrease CH133 "Coverage from the umbrella"	

Season of Contemporary American Plays: *DETROIT*
 LIGHTING CUE SYNOPSIS
 Version 6



6	1.5 / 2	1	5	<i>Visual Cue: As Mary goes inside the sliding doors to collect the table</i>	Mary and Ben's house light comes on from inside	
7	F / O 48 5 / 50	1	10	Ben: "Alright, we gonna eat some meat."	Sunset: Pink <u>Transition Part 1:</u> OP BAR Fading Red and O/W out on OP Side Bar	
8	80	1	10	F/O LX CUE 7	<u>Transition Part 2:</u> PS BAR Fade out Orange and O/W and Fade up Blues on PS Side Bar	F/O from LX CUE 7
9	40	1	15	Sharon: "The ice is right here "	Increase in blue overhead Brings up more light DSC for Ben and the Umbrella	
10	0 / 0	1	18	Sharon: "And we asked if we could live here. We asked him to give us a chance." BEAT	Blue Scene Change Over State Silhouettes (<i>Blue Wash from US</i>)	End of Scene 1 Wait one beat before saying 'GO'

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Scene 2						
11	F/O 13s 5	2	19	<i>Visual Cue: Ben closing the sliding glass door</i>	Later that night... - 2300	Beginning Scene 2 Sharon and Bens Backyard
11.5	8	2	20	F/O LX CUE 11	Bring in face light Sharon and Kenny Back yard	F/O from LX CUE 11
11.6	8	2	24	Kenny: "...Remember..."	Take out face light and darken scene	
12	F/O 6s 2 / 2	2	25	<i>Visual Cue: Kenny closing the PS Blue Door</i>	Blue Scene Change Over State Silhouettes (Blue Wash from US)	End of Scene 2 Wait one beat before saying 'GO'
Scene 3						
13	15	3	25	F/O LX CUE 12	Sunrise: Orange <u>Transition Part 1: OP BAR</u> Blues on OP Side bar to fade down.	F/O from LX CUE 12

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14	8 / 13	3	25	<i>Visual Cue: Ben walking out the sliding glass door</i>	<u>Transition Part 2:</u> OP Bar Fade up Red and O/W on OP Bar	F/O from LX CUE 13 6 x candles will be on stage
14.5	20 / 5	3	25	<i>Visual Cue: Ben putting down the last candle</i>	Next Saturday Afternoon – 1600 <u>Transition Part 3:</u> Op Bar Fade Up Red and O/W on PS Bar	F/O from LX CUE 14 Beginning Scene 3 – Lawn Party – Mary and Bens Backyard
15	30	3	29	Ben: “Okay let’s throw these puppies on the grill ”	Sunset: Pink <u>Transition 1:</u> OP Bar Fade Red and O/W out on OP leaving	
16	F/O 23s 35	3	29	F/O LX CUE 15	<u>Transition 2:</u> PS Bar Taking out Reds PS Bar	F/O from LX CUE 15
16.5	54	3	29	F/O X CUE 16	<u>Transition 3:</u> PS Bar Fade up blues on OP Bar Add face light – will lead into scene	F/O from LX CUE 16

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17	20	3	33	Sharon: "We did meet at rehab."	Increase in Blue overheads and takes out blues on OP Bar	
18	0 / 0	3	35	Sharon: "Really, super fun." BEAT	Blue Scene Change Over State Silhouettes <i>(Blue Wash US)</i>	End of Scene 3 Wait one beat before saying 'GO'
Scene 4						
19	40	4	36	<i>Visual Cue: Kenny walking out of Blue door for the second time</i>	Slowly fades up scene wash	Beginning Scene 4
19.5	4	4	36	<i>Visual Cue: Sharon giving Mary her cup of Vodka</i>	Brings in extra face light to the scene	
23	0 / 0	4	51	<i>Visual Cue: Ben spewing into bucket</i>	Blue Scene Change Over State Silhouettes <i>(Blue Wash US)</i>	End of Scene 4 Wait one beat before saying 'GO'

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 LIGHTING CUE SYNOPSIS
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Scene 5

Scene 5						
23.5	4	5	51	<i>Visual Cue: As Kenny and Sharon close their door</i>	Friday Night – 2200 Brings in Sharon and Kenny kitchen light, porch light and dark state.	Beginning of Scene 5 Mary and Ben Backyard – however states and ends with Sharon and Kenny Backyard
24	6	5	51	<i>Visual Cue: As Sharon turns and takes a step US on 400ml Rostra.</i>	Bring in face light, and more blue overheads	
25	2	5	54	Mary: "I know. I just get bored with it every now and then. "	Mary and Ben's kitchen light comes on	
26	0 / 0	5	55	<i>Visual Cue: Sharon scratches her arm</i>	Blue Scene Change Over State Silhouettes (<i>Blue Wash US</i>)	End of scene 5 Wait one beat before saying 'GO'

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Scene 6						
27	5	6	56	Visual Cue: As Ryan takes objects off his computer	Saturday Afternoon 1600 Brings up state for scene	Beginning Scene 6 Mary and Bens Backyard and Sharon and Kenny Backyard End of Scene 6
Scene 7						
		7	63		Continue same state from Scene 6	Beginning Scene 7 Both Backyards
27.5	5 / 4	7	67	Mary: "It's Saturday night! Let's have a good time." BEAT	Transition between Scene 7 and 8. Brings in a deep red light	End of Scene 7
Scene 8						
28	6	8	68	<i>Visual Cue:</i> When Ben goes on top of the bench and dances	Later that night... Fade up Night Scene with deep blues and face light	Beginning of Scene 8
30	10	8	79	Sharon: "Light it, Kenny. "	ASM CUE 5 – turning on LED lights underneath table	6 x LED lights underneath wooden table.

Season of Contemporary American Plays: *DETROIT*
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					Dimming of Lights around stage – focus on the bonfire	*lights come up then press "STROBE"
30.5	F/O 1s 0 / 0	8	80	<i>Visual Cue: Sharon moving the bench US</i>	Brings in smoke machine for 1 second at 5%	
30.7	0 / 0	8	80	F/O: 30.5	Takes smoke machine out after 1 second	F/O 30.5
31	F/O 3s 5	8	80	<i>Visual Cue: Kenny hiding behind the flat and then walking back out</i>	Brings up CH181 (bottom birdies with effect) ASM Q 6 – moving curtains	
32	6	8	81	F/O LX CUE 31	Brings up CH182 (top birdies with effect) Brings in CH156 Gobo on 15% Rotation	
33	5	8	81	Mary: "Yes, but are the curtains.."	Increase in Gobo Rotation and Intensity Rotation 30% Bring Smoke Machine in at 5%	

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34	F/O 3 s 5	8	81	Ben: "Let's go next door "	Increase in Gobo Rotation and Intensity Rotation at 70% Increase Smoke Machine to 35% Brings in Red Wash and takes out blues and face light	
35	9	8	81	F/O LX CUE 34	Increase in Red Wash Gobo Rotation still at 70% Smoke Machine increase to 35%	Red Wash
36	8	8	81	<i>Visual Cue: Halfway through dancing and Kenny dips Sharon</i>	Increase Reds Increase in Smoke Machine 55%	Red Wash
37	5 / 5	8	81	<i>Visual Cue: Sharon and Kenny raising their hands. (Also with SNDQ)</i>	Brings in PS Boom 1 and OP Boom 1 – flashing Red and Blue (in time with sound) Takes out Red Wash Smoke Out	End of Scene 8

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 LIGHTING CUE SYNOPSIS
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Scene 9

Scene 9						
39	8	8	81	Visual Cue: Actors walking DS and standing in front of the Red and Blue Side Booms	Next Morning... Flashing of Booms stops	Beginning of Scene 9
40	5	8	86	Frank: "I think my sister Lois had a picture of herself standing right there, planting that tree. "	Fade out PS Face light Leaving Red and Blue Side Booms	
41	5	8	87	DBO	Blackout	End of Show
42	2	8	87	Bows	Bows	End of Show
43	10	8	87	Post Show	Post Show	End of Show



Detroit Lighting Operators Show Plot

Task	Notes
1 Hour Call	
Sign In	In Green Room
Turn on switches	Behind Lighting Board
Turn on Element Lighting Board	Board will automatically go to correct file
Collect and put on comms	From Head of Sound/ Next to Lighting Board
Put up backstage blues and dock blues	Fader 2 is Backstage blues Black switch on panel in the corridor, put to the bottom left
Turn off Bio box lights	Light switch on panel in corridor
30 Minutes Call	
See if building is isolated	Check with Head LX over Comms
Check Smoke machine is plugged in	Check with Head LX over Comms
Go through lamp check with Head LX	Cue 0.1 through 3.0
Listen for comms check in	From Stage Manager
Go to Different Lighting states for fight choreography	Stage Manager will tell which ones
15 Minutes Call	
Make sure Air-con is turned on	Next to panel in corridor, put both on.
Go to Pre-show Lighting state	Cue 3
During Show	
Make sure Air-con stays on for fire scene	Next to panel in corridor, put both on.
Post Show	
Turn off backstage blues and GO TO CUE (OUT)	Fader 2 After main Loft lights have come up.
Turn on main lights for dock and Bio-Box	Black switch on panel in corridor and light switch.
Save file to Desk and two USB's	Only if needed
Power down desk	In menu, press displays to get to it
Switch off power points	Behind Desk
Sign off comms	
Sign out	In green room

Ryan Sweet
 Season Lighting Operator
 Ph: 0478 152 702
 Email: Ryan.Sweet@connect.qut.edu.au

As of 25/05/17

****Subject To Change****



Detroit to Eurydice

During Show's / tech week.

- Attach 5x Pannels to H Stands.
- set 5x 5m 240v power leads aside

Saturday Night Post Show (1 Hour)

- Re-locate Lighting Laptop to Seating bank and connect Ethernet Cable
- Set LX - Strike all birdies + Par64 from set.

Soft Patch:

Channel 180 becomes Channel 160 @ Address 43
Channel 181 becomes Channel 161 @ Address 44
Channel 182 becomes Channel 162 @ Address 45
Channel 183 Becomes Channel 163 @ Address 46

Add Channel 164 Channel 164 @ Address 21

- Remove Gel from Booms and replace as follows;

Prompt Side Boom One

Position One L 164 - L079

Position Two L079 to L139

Prompt Side Boom Two

Position One L201 to L079

Position Two from O/W to L139

Opposite Prompt One

Position One L079 - L164

Position Two from L164 to L795

Opposite Prompt Two

Position One from L201 to L164

Position Two from O/W to L795

- run Weiland to US edge of set
 - Tail 1 - to Birdies in Elevator
 - Tail 2 - Prompt Side pannels (Ganged)
 - Tail 3 - OP Side Pannels (Ganged)
 - Tail 4 - to Birdies DSC

Run Patch lead from US Patch Point to Pannel on H-Stand



Monday Morning (4 Hours)

PS Rail

Fixture 1 from O/W to L139

Fixture 2 From L721 to L079

Fixture 3 from O/W to L139

Fixture 4 from L721 to L079

Fixture 5 No Change - L154 remains

Fixture 6 from L164 to L 139

Fixture 7 No Change L154 Remains

Fixture 8 from L721 to L079

Fixture 9 from L164 to L139

Fixture 10 from L217 to L079

OP Rail

Fixture 1 from O/W to L795

Fixture 2 from L721 to L164

Fixture 3 from O/W to L795

Fixture 4 from L721 to L164

Fixture 5 No Change L210 Remains

Fixture 6 from L164 to L795

Fixture 7 No Change L210 Remains

Fixture 8 from L721 to to L164

Fixture 9 from L164 to L795

Fixture 10 from L721 to L164

LX12 -

Channel 156 Remove Gobo & Rotator and re gel to L079



Season of Contemporary American Plays:
The Loft, QUT Creative Industries Precinct
Instrument Schedule Amendment

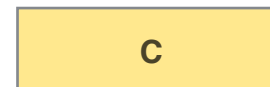


Version 3.3
As at 1 June 2017 at 8:43 am



The Loft: Standard Patch Locations			
Location	# of Patch Points	Numbering	6x 12 Outlet conduit attached to the grid
Overhead Conduit	72	1-72	Outlets throughout Roof
Overhead Grid	30	1-30	
Upstage Wall	18	31-48	
Prompt Wall	30	49-78	
Downstage Wall	10	79-88	Above Seating Bank
OP Wall	30	89-118	

- C = Conduit = Yellow Tags



- R= Wall, roof patches = White small tag





Position:								LX2
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	41	R25	66		L201	R119	
2	ETC Source Four 19 °	40	R30	65		OW	R119	



Position:								LX3
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	51	C12	30		L201	R119	
2	ETC Source Four 19 °	50	R29	63		OW	R119	



Position:								LX4
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	60	C5	27		OW	R119	



Position:								LX5
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	91	C24	14		L201	R119	
2	ETC Source Four 19 °	81	C22	17		L201	R119	
3	ETC Parnel	143	C19	18	Barn Doors	L009	-	
4	ETC Source Four 19 °	90	C15	28		O/W	R119	
5	ETC Source Four 19 °	80	C14	15		O/W	R119	



Position:								LX6
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	95	C35	16		O/W	R119	Selecon Rama PC
2	ETC Parnel	144	C34	13	Barn Doors	L009	-	
3	ETC Parnel	142	C28	6	Barn Doors	L009	-	
4	ETC Source Four 19 °	96	C25	33		O/W	R119	



Position:								LX7
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	42	R15	70	Barn Doors	O/W	-	



Position:								LX8
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	102	R14	67		L079	-	MFL Lense
2	PAR64	102	C45	87		L079	-	MFL Lense
3	ETC Parnel	52	C44	100	Barn Doors	O/W	-	
4	PAR64	103	C42	97		L079	-	MFL Lense
5	PAR64	103	C40	101		L079	-	MFL Lense
6	ETC Parnel	73	C39	98	Barn Doors	L201	-	



Position:								LX9
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	104	C58	74		L079	-	
2	ETC Parnel	62	C57	77	Barn Doors	O/W	-	MFL Lense
3	ETC Parnel	83	C53	76	Barn Doors	L201	-	
4	PAR64	105	C52	73		L079	-	



Position:								LX10
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	151	C71	103	IRIS	L134	R119	
2	ETC Parnel	146	R08	64	Barn Doors	O/W	-	
3	PAR64	107	R07	61		L079	-	MFL Lens
4	ETC Parnel	93	C56	106	Barn Doors	L201	-	
5	PAR64	107	R07	61		L079	-	MFL Lens
6	ETC Parnel	92	C55	93	Barn Doors	O/W	-	
7	PAR64	106	R09	51		L079	-	MFL Lens
8	PAR64	106	R10	54		L079	-	MFL Lens
9	ETC Parnel	140	R11	2	Barn Doors	L009	-	



Position:								LX11
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	116	C68	92		L164	-	MFL Lense
2	PAR64	115	C67	95		L164	-	MFL Lense
3	PAR64	115	C66	91		L164	-	MFL Lense
4	PAR64	116	C55	94		L164	-	MFL Lense



Position:								LX12
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	153	R02	10	IRIS	L009	R119	
2	ETC Source Four 19 °	156	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119	



Position:								LXA
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	70	C01	25		O/W	R119	
2	ETC Parnel	13	C13	29	Barn Doors	L009	-	



Position:								LXB
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	22	C26	36	Barn Door	L009	-	
2	ETC Parnel	141	R17	68	Barn Doors	L009	-	



Position:								LXC
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	72	C38	86	Barn Doors	OW	-	
2	ETC Source Four 10 °	158	C62	108	IRIS	L134	R119	



Position:								LXD
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	154	C41	85	Barn Doors	L738	-	
2	ETC Parnel	82	C54	88	Barn Doors	OW	-	



Position:								LXE
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	150	C30	3	IRIS	O/W	R119	
2	ETC Parnel	43	C31	5	Barn Doors	L201	-	
3	PAR64	101	R16	71		L079	-	MFL Lense
4	ETC Source Four 26 °	157	C43	99	IRIS	O/W	R119	



Position:								LXF
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	71	C9	26		L201	R119	
2	ETC Parnel	53	C46	102	Barn Doors	L201	-	



Position:								LXG
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	63	C47	96	Barn Doors	L201	-	
2	ETC Source Four 10 °	155	R01	7	IRIS	L134	R119	



Position:								LXH
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	11	C36	32	Barn Door	L009		
2	ETC Parnel	145	R13	57	Barn Doors	L009	-	
3	ETC Parnel	64	C48	90	Barn Doors	O/W	-	
4	ETC Parnel	10	C60	89	Barn Doors	L009		
5	ETC Parnel	10	C72	105	Barn Doors	L009		



Position:								LXI
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	12	R67	69	Barn Doors	L009	-	-
2	ETC Source Four 19 °	61	R68	72		L201	R119	



EURYDICE Position: GROUND								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16	160	Weiland A0.1	43				DSC
2	Par 16	160	Weiland A0.1	43				DSC
3	Par 16	160	Weiland A0.1	43				DSC
4	Par 16	160	Weiland A0.1	43				DSC
5	Par 16	160	Weiland A0.1	43				DSC
6	Par 16	160	Weiland A0.1	43				DSC
7	ETC Parnel	163	R37	21		L201		USC
8	Par 16	164	Weiland A0.4	46				In Elevator
9	Par 16	164	Weiland A0.4	46				In Elevator
10	ZR-45 Smoke Machine	250	US A7-240v	A. 250	-	-	-	Behind USPS Flat
11	Aldi Smoke Machine	-	US A7-240v	-	-	-	-	(Manual Pump) Behind USPS Flat
12	Fan	-	US A7-240v	-	-			Behind USPS Flat



EURYDICE Position: PS RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	120	R69	60	Barn Doors	L139	-	
2	ETC Parnel	121	R70	56	Barn Doors	L079	-	
3	ETC Parnel	120	R69	60	Barn Doors	L139	-	
4	ETC Parnel	121	R70	56	Barn Doors	L079	-	
5	ETC Source Four 26 °	130	R64	58		L154	R119	
6	ETC Parnel	122	R58	53	Barn Doors	L139	-	
7	ETC Source Four 26 °	131	R63	55		L154	R119	
8	ETC Parnel	123	R57	52	Barn Doors	L079	-	
9	ETC Parnel	122	R58	53	Barn Doors	L139	-	
10	ETC Parnel	123	R57	52	Barn Doors	L079	-	



EURYDICE Position: OP RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	124	R97	80	Barn Doors	L795	-	
2	ETC Parnel	125	R98	83	Barn Doors	L164	-	
3	ETC Parnel	124	R97	80	Barn Doors	L795	-	
4	ETC Parnel	125	R98	83	Barn Doors	L164	-	
5	ETC Source Four 26 °	132	R103	35		L210	R119	
6	ETC Parnel	126	R104	34	Barn Doors	L795	-	
7	ETC Source Four 26 °	133	R109	31		L210	R119	
8	ETC Parnel	127	R110	29	Barn Doors	L164	-	
9	ETC Parnel	126	R104	34	Barn Doors	L795	-	
10	ETC Parnel	127	R110	24	Barn Doors	L164	-	



EURYDICE Position: OP Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	191	R100	84		L164	R119	@ 1000mm
2	ETC Source Four 26 °	193	R99	81		L795	R119	@2000mm



EURYDICE Position: OP Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	195	R112	19		L164	R119	@1000mm
2	ETC Source Four 26 °	197	R111	20		L795	R119	@2000mm



EURYDICE Position: PS Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	190	R72	48		L079	R119	@ 1000mm
2	ETC Source Four 26 °	192	R71	59		L139	R119	@2000mm



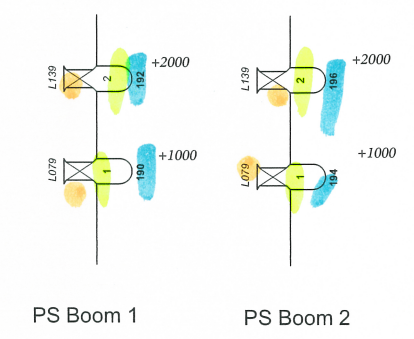
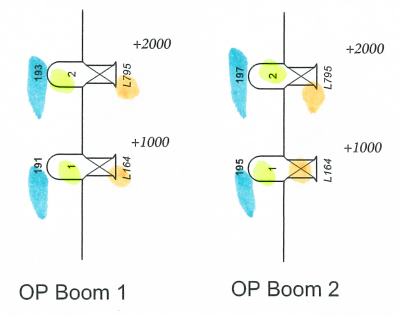
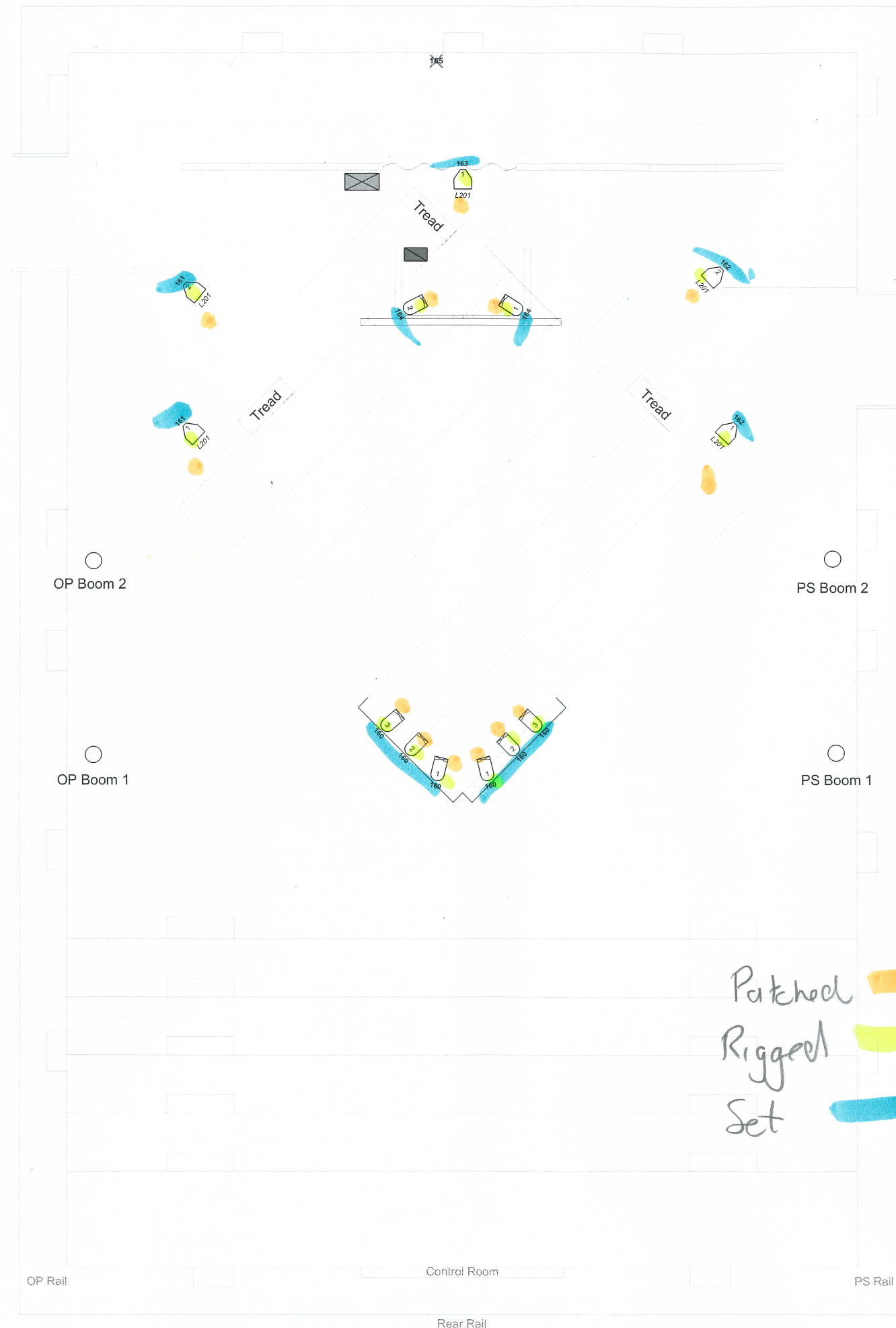
EURYDICE Position: PS Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	196	R59	49		L079	R119	@1000mm
2	ETC Source Four 26 °	194	R60	42		L139	R119	@2000mm



Position: REAR (DS) RAIL								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	31	R81	104		L201	R119	
2	ETC Source Four 19 °	21	R82	107		L201	R119	
3	ETC Source Four 19 °	30	R83	75		L201	R119	
4	ETC Source Four 19 °	20	R84	78		L201	R119	



								Position: Backstage Blues
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
2	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
3	Par 16	202	R35	9		L721	-	Mounted on USOP Flat
4	Par 16	202	R35	9		L721	-	Mounted on USPS Flat
5	Par 16	202	R48	11		L721	-	Mounted on USOP Flat
6	Par 16	202	R48	11		L721	-	Mounted on USPS Flat

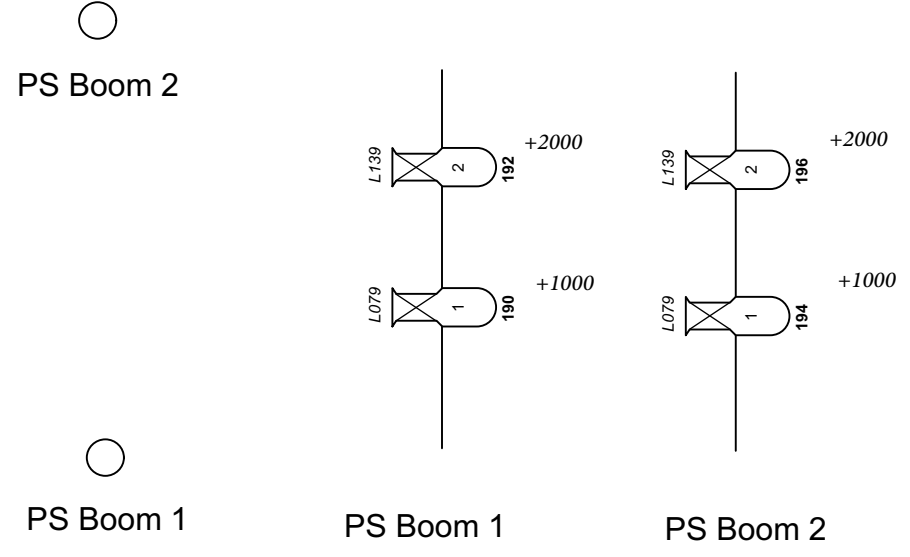
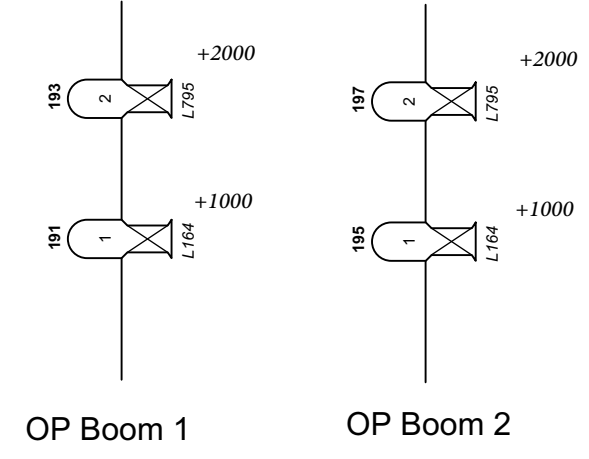
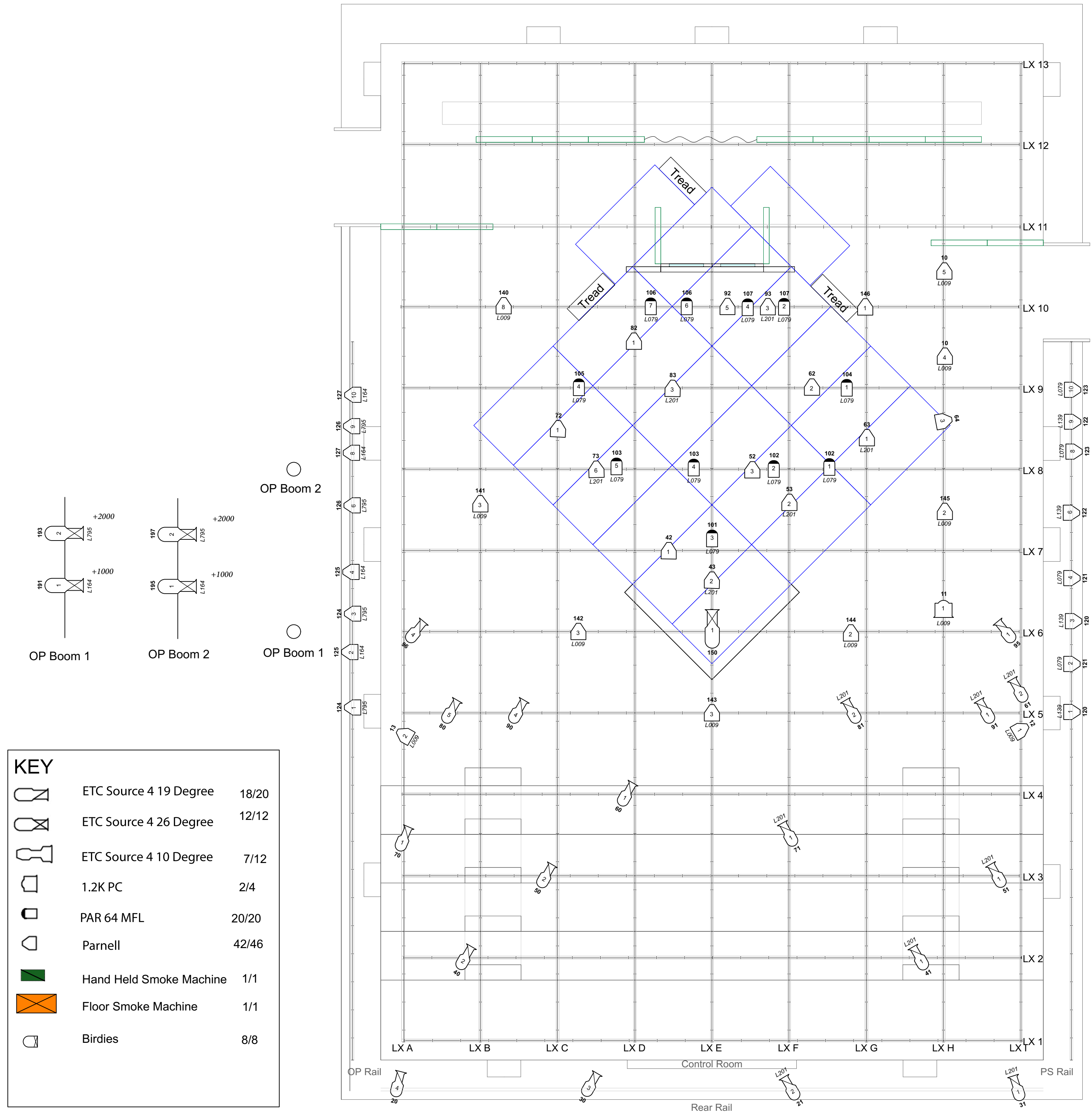


KEY		
	ETC Source 4 19 Degree	18/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	7/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	46/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8

*Patched
Rigged
Set*

Notes

- Parnells to be on H-Stands
- **CH 160** to be attached via separate lip attached to front rostra.
- All Fixtures in **CH 160** to be piggy-backed
- All Fixtures in **CH 161** to be piggy-backed
- All Fixtures in **CH 162** to be piggy-backed
- All Fixtures in **CH 164** to be piggy-backed
- **CH 163** to be used in Act 2 Sc 1, 14 and Act 3 Sc 3. When not in use, stored at US marked point
- **CH 164** Fixtures to be attached to top of flats
- For all grid fixtures. See Eurydice LX Plan



KEY

	ETC Source 4 19 Degree	18/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	7/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	42/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8

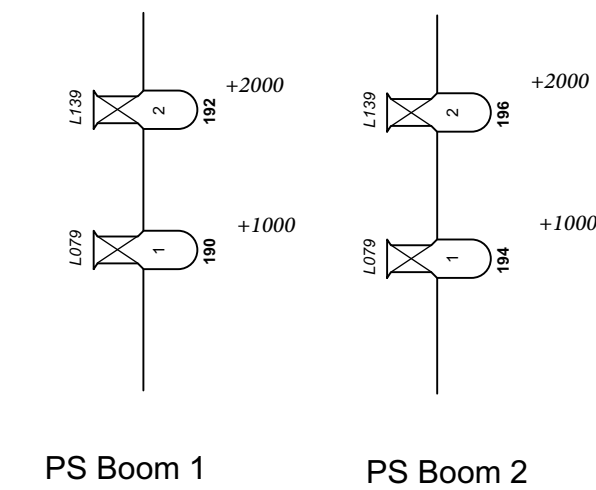
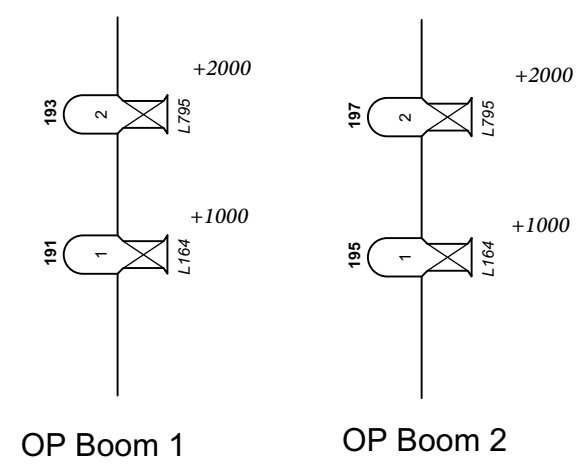
Notes

All:

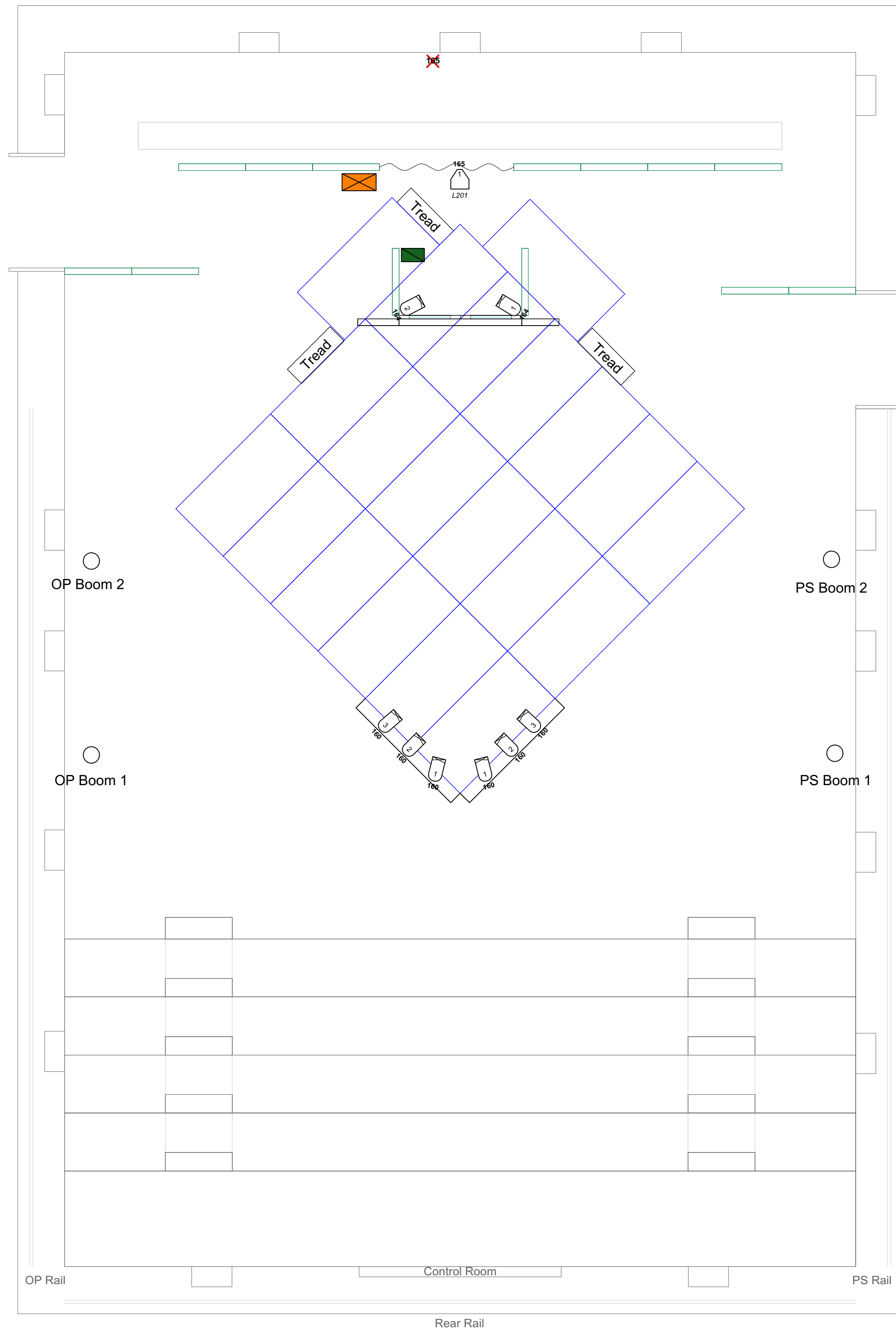
- All S4's to have R119
- Boom height to the centre of the lens
- All S4's 10 Degrees to have **IRIS**
- Top hats for all fixtures on Booms
- All Parnells and PC's to have Barndoors
- Fixtures in **CH 10, 102, 103, 106, 107, 120-127** to be piggybacked with their respective channel numbers
- **PS Boom 1** - in line with LX 6 against wall
- **PS Boom 2** - in line with LX 8 against wall
- **OP Boom 1** - in line with LX 6 against wall
- **OP Boom 2** - in line with LX 8 against wall

Specials:

- 1 x Parnell not in plan - See Eurydice Floor LX Plan
- 4 x Par Cans not in plan - have been left for Backstage **BLUES**
- Birdies not included in plan - See Floor LX for placements - *Detroit and Eurydice*



KEY		
	ETC Source 4 19 Degree	18/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	7/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	42/46
	Hand Held Smoke Machine	1/1
	Floor Smoke Machine	1/1
	Birdies	8/8



Notes

- **CH 165** to be on a H-Stand
- **CH 160** to be attached via separate lip attached to front rostra.
- All Fixtures in **CH 160** to be piggy-backed
- All Fixtures in **CH 164** to be piggy-backed
- **CH 165** to be stored at US marked point when not in use to accommodate for Backstage traffic
- **CH 164** Fixtures to be attached to top of flats
- For all grid fixtures. See Eurydice LX Plan



SOCAP:
Eurydice
 Lighting Cue Synopsis
 Version 5.0

Cue No.	Time	Cue Point			Description	Notes
		Sc	Pg	Line/Movement		
Preshow						
3	-	-	-	-	Preshow State	
3.1	5	-	-	Director's Speech	Fade up DS Facelight	Only for 1 st show
3.5	-	-	-	FOH Clearance	DBO	
Prologue						
4	5	1	1	Actors in Position for Act 1 Sc 1	Bright Daylight on Eurydice and Orpheus	
4.5	5		3	Last "I'll race you!"	Low blue	
ACT 1						
5	5	2	3	Start sc 2	Full Blue Wash on Father	
7	5	3		Enter Eurydice	Warm Wash	
8	5	4		Enter Father	Blue Wash	
9	0			End Slo-Mo Dance	Snap Warm wash + magenta	
9.5	5			Orpheus song	Fade Up US wall, fade low side corners	
10	5			"silly goose"	LX 7 state	
10.5	5	6		Orpheus exits	Blue Wash	For striking of stage furniture
11	0	7		Start Sc 7	Snap cool wash	
12	1		7	Open Elevator doors	Fade up elevator birdies	
13	5			With sound "Albatross"	Fade down facelight + DS light	
14	0		9	Man grabs Eurydice	Snap DBO	With f/on of 5 seconds



SOCAP:
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 Lighting Cue Synopsis
 Version 5.0

14.5	10			A few beats into "Barbara Ann"	Low blue + Smoke in	With f/on of 10 second
14.6	0			F/On	Smoke out	

ACT 2						
15	5	1	9	Spirits Inside Elevator (doors close)	Backlight low	
15.1	10			VISUAL - Spirits rise	Fade up backlight	
15.5	40			VISUAL - Spirits Walk	Fade up Magenta	
15.51	29			VISUAL - Spirits duck	Fade up green	
16	3			With elevator noises	Backlight + smoke	
16.05	2		10	VISUAL – smoke visible in windows	Smoke out	
16.1	10			Doors open	Blue state	
16.2	5			Elevator door close	Backlight out. Fade up cool face light + footlights on Eurydice	
17	8			Enter Father	Crossfade sidelight to Blue + cool wash	
18	1	2	12	Start Sc 2	Snap to Elevator Special and Birdies + low blue on Eurydice,	
19	5	4		Start Sc 4	Blue with cool facelight on Eurydice and Father	
20	1	6		Start Sc 6	Snap to Elevator Special and Birdies + low blue on Eurydice	
21	5	7	13	Start Sc 7	Blue with cool facelight on Eurydice and Father	
22	1	10		Start Sc 10	Snap to Elevator Special and Birdies + low blue on Eurydice	
23	5	9	14	Start Sc 9	Blue with cool facelight on Eurydice and Father	
23.5	10	11		Teach me some words	Facelight across stage	
23.6	10			Tell me about Orpheus	LX 23 state	
Bump	-	14	15	Start Sc 14	Bump backlight fader with lighting crash	With SND Cue
24	0				Lightning effects on elevator birdies and backlight	With f/on of 2



SOCAP:
Eurydice
 Lighting Cue Synopsis
 Version 5.0

						seconds
24.1	5			F/On	Fade in elevator special	With f/on of 10 seconds
24.2	5			F/On 10 seconds	Fade in Eurydice	
Bump	-			"Surly To the Sea"	Bump backlight fader with lighting crash	With SND Cue
Bump	-			"Eurydice did you hear that"	Bump backlight fader with lighting crash	With SND Cue
Bump	-			End scene	Bump backlight fader with lighting crash	With SND Cue
27	3	16		Enter lord of underworld	Blue/Magenta with cool Facelight for Eurydice + Child	
Bump	-	20	16		Bump backlight fader with lighting crash	With SND Cue
28	1			Start Sc 20	Lighting effect on elevator birdies + backlight	
29	5		17	With doors closing	Fade to DBO + Smoke	With f/on of 5 seconds
29.5	5			F/on	Smoke Out	
Bump	-			With final lightning crash	Bump backlight fader with lighting crash	With SND Cue

ACT 3						
32	5	1	17	Elevator Doors Open	Dark scene	
33	5		18	Elevator Doors close	Fade to DBO	
34	5/3	2		Eurydice and Father Enter	Blue wash with cool facelight on Eurydice and Father	
34.5	5			Father Leaves	Fade to black w/ Eurydice Facelight + Smoke	With F/On of 0 seconds
34.6	20			F/On	Fade up backlight	
35	10			VISUAL – Spirits Part	Smoke. Blue/Magenta wash – Facelight DS on Eurydice	With f/on of 10 seconds
35.5	5			F/On	Smoke out	
37	5		19	"Its in your head"	Fade out facelight on rostra. Fade up DS sidelight + Smoke	With F/on of



SOCAP:
Eurydice
Lighting Cue Synopsis
 Version 5.0

						10 seconds	
37.5	0			F/On	Smoke out		
38	5		20	"Eurydice"	Fade out ds sidelight - father facelight		
39	10	3	21	"I remember"	Blue + footlights		
39.5	10			VISUAL - Father crosses DSC	Elevator out		
40	5			"and swim"	Elevator Birdies + smoke.		
40.5	5			VISUAL - smoke visible in windows, w/Doors open	Smoke out		
40.6	5			Elevator Door Closes	Birdies out		
44	5			22	VISUAL - Eurydice Dips herself in River	Footlights dim. Elevator Birdies + Smoke	F/On 5 seconds
44.1	0				F/On	Smoke out	
44.5	8				VISUAL - Smoke visible in windows, w/Doors open	Elevator special	
44.6	5				Doors close	Birdies out	
45	5				Orpheus walks out of elevator	Fade out elevator special. Facelight on Orpheus	
46	0		End of Scene	DBO			

Postshow						
47	5	-	-	Curtain Call	Curtain Call State	
48	5	-	-	Post Show	Post Show State	



SOCAP:
Eurydice
 Floor LX Cue Synopsis
 Version 2.0

Cue No.	Cue Point				Description	Notes
	Act	Sc	Pg	Line/Movement		
Light Set	2	1	9	In Blackout	Set elevator backlight Parnell (CH 163) behind Elevator box	In preparation for Eurydice's underworld entrance
Light Strike			10	Elevator doors close	Set elevator backlight Parnell (CH 163) at back of venue	
Light Set		11	14	"Tell me more about Orpheus"	Set elevator backlight Parnell (CH 163) behind Elevator box	In preparation for sc .16
Smoke 1		14	15	Start Sc 14	Handheld Smoke Machine – Burst into Elevator	
Light Strike				Elevator doors close	Set elevator backlight Parnell (CH 163) at back of venue	
Light Set		16	16	Child exits	Set elevator backlight Parnell (CH 163) behind Elevator box	In preparation for sc. 20. Light stays in position for rest of show.
Smoke 2		20		Start Sc 20	Handheld Smoke Machine – Burst into Elevator	
Smoke 3	3	1	18	Elevator Doors Close (w/ Orpheus and Mother)	Handheld Smoke Machine – Burst into elevator. Smoke machine to be held at a height that will have smoke visible in windows.	



Head Electrician: Show Plot

Note:

Thank-you for stepping into the role of Head Electrician on the Season of Contemporary American Plays in my absence. This document, in conjunction with supporting documentation and the assistance of the LX Operator should be able to assist you in executing this role. Should you have any issues please do not hesitate to contact LX Operator or Production Stage Manager. Chookas,
Dale Norris

Hour Call

- Obtain comms pack from Sound Department and battery from Green Room
- Action any notes from previous show report.
- Turn on all power distribution and dimmer racks located in the OP Dock Cage via the 10x 3 Phase Switches
- Turn on the Stair lights by pressing the two grey switches located in the dimmer cage next to the orange distribution board
- Check with Duty Technician that the venue is isolated; then turn on ZR45 Smoke machine and Aldi Smoke Machine by pressing red button on rear of machine located USC
- Ensure the LX Operator has powered up the lighting desk
- Ensure Floor Electrician has commenced their pre-show checks
- Turn off Stage Workers Located: at the Audience Entrance Door PS (6 Switches)
- Turn On Back Stage Blues and make up parcan Located: at the Clipsal Switch in the OP Dock
- Enter Cue #0.01 to perform lamp check
- Check position of birdies in set; Elevator fixtures should be pointing inwards, and DSC should be pointing USC
- Complete a lamp check by ensuring all fixtures are working and that the gel has not burnt through, check through the entire rig. -a detailed channel list is located in this plot and can be assisted by focus notes in the paperwork bundle
 - Check for fixtures that have slipped focus / burnt through gel and action if required.
- Run Atmospheric test with LX Operator by manual operation via console
- Complete a Black Out check; ensuring that OP Doors are closed / covered check for any light spill and rectify
- Advise LXO to enter pre show state
- Advise PSM pre show lighting checks are completed

During Show:

- Stand by on comms backstage to resolve any issues that may arise
- Oversee the execution of the Floor Electrician's show plot

Post Show:

- Upon clearance
 - Turn on stage workers located at the PS Audience door entrance
 - ensure LX Operator has lamped off fixtures and powered down lighting rig
 - Turn off both Atmospheric effects machines at the button of the rear of the machines and check fluid levels
 - Ensure Floor Electrician has completed post show duties
 - Turn off all power distribution and dimmer racks located in the OP Dock Cage via the 10x 3 Phase Switches
 - Monitor fluid levels of small and large smoke machine
 - Turn off the backstage blues & Parcan off via the OP Dock Clipsal Switch
 - Turn off the Stair lights by pressing the two grey switches located in the dimmer cage next to the orange distribution board
 - Return Comms to SND Department; place battery on charge in Green Room
 - Meet with PSM to provide or action notes
 - Sign out and Exit Venue



Things to Note

- The Lifter is located on Level 6; ensure you carry out the checks, fill out the EWP logbook and have it authorised by the duty technician.
- Gels are stored at the Green Room end of the dock in two collapsable folders sorted by both Gel # and Size as well as by Bar.
- Bulbs are stored in the Dimmer Cage; please see the Duty Technician for access to bulbs
- A Red Folder with all patch sheets, instrument schedules and associated paperwork is located with the gel folders.
- Dock Blues are located in the Bio Box; LXO to operate.
- The Smoke Machines have a six minute warm up time.
- Additional smoke fluid (MDG / Martin) is located in the OP Dock Lighting Store
- MDS are available from the Red lighting Folder and the PSM

Contacts

Ryan Sweet: LXO - 0478 152 702
Emma Healy: FLX - 0448 468 568
Ella Gordon: PSM - 0410 365 585

Lighting Network

Network Name: SOCAP LX
Password: S0c@p2017!
IP Address: 172.20.15.120
Subnet Mask: 255.255.0.0
Console IP Address: 192.168.97.110
Console Name: LoftElement



Season of Contemporary American Plays 2017
EURYDICE - Head Electrician Show Plot

Fader	Use	Channels	Mode
1	House Lights	10 thru 14	
2	Backstage Blues	202	
3	Workers	42,52,62,72,82,92	
20	ZR-45 Smoke Machine	250	Inhibit

Pre Show Lamp Check Cue List

Cue #	Channels	Description	Time (secs)	Notes
0.1	1 thru 202 (All)	@ 30%	30secs	Fade Up
0.2	All	@ 0%	30secs	Fade Out
0.3	20,30,40,50,60,70,80,90,95,96	@30 %	7 Secs	FOH Warm (10)
0.4	31,41,51,61,71,81,91	@30 %	7 Secs	FOH Cool (7)
0.5	10, 10,11,12,13,22	@30 %	7 Secs	House LX (6)
0.6	42,52,62,72,82,92	@30 %	7 Secs	O/H Warm (6)
0.7	43,53,63,73,83,93	@30 %	7 Secs	O/H Cool (6)
0.8	101 - 107	@30 %	7 Secs	O/H Blue (12)
0.9	115 + 116	@30 %	7 Secs	O/H Amber (4)
1	120 - 133	@30 %	7 Secs	Side Bars
1.1	150, 151, 153, 154, 155, 156,157, 158	@30 %	7 Secs	Specials (8) + Gobo Rotating
1.2	141 - 145	@30 %	7 Secs	Corridor of Light (5)
1.3	190- 197	@30 %	7 Secs	Booms (8)
1.4	160,161,162, 163, 164,	@30 %	7 Secs	Set LX (13)
1.5	250	Manual Operation	Burst	Smoke (1)
1.6	All	@0 %	7 Secs	DBO Check
1.7	202	@ 50	7 Secs	Blues Check



Eurydice Lighting Operators Show Plot

Task	Notes
1 Hour Call	
Sign In	In Green Room
Turn on switches	Behind Lighting Board
Turn on Element Lighting Board	Board will automatically go to correct file
Collect and put on comms	From Head of Sound/ Next to Lighting Board
Put up backstage blues and dock blues	Fader 2 is Backstage blues Black switch on panel in the corridor, put to the bottom left
Turn off Bio box lights	Light switch on panel in corridor
30 Minutes Call	
See if building is isolated	Check with Head LX over Comms
Check Smoke machine is plugged in	Check with Head LX over Comms
Go through lamp check with Head LX	Cue 0.1 through 3.0. bring up smoke inhibitor (Fader 6) when needed and test LX Bump 1 (Fader 4)
Listen for comms check in	From Stage Manager
Go to Different Lighting states for roller-skates choreography	Stage Manager will tell which ones
15 Minutes Call	
Make sure Air-con is turned on	Next to panel in corridor, put both on.
Go to Pre-show Lighting state	Cue 3
During Show	
During intire show make sure to bring up smoke inhibitor when it says so for smoke cues	Fader 6
Make sure Air-con stays on for entire show	Next to panel in corridor, put both on.
Listen for Smoke Inhibiter CUES	Bring Fader 6 to FULL Bring down after smoke has finished
Listen for first LX Bump	Will be called as LX Bump GO (Fader 4)
Take smoke out after 10 seconds of 20 second cue	Cue 34.6
Post Show	
Turn up workers SUB	Fader 3, only when given Front of House Clearance.
Turn off backstage blues and GO TO CUE (OUT), Than take OUT workers SUB	Fader 2 After main Loft lights have come up. Fader 3
Inform Head LX that they can turn off Dimmers	After all Post-show steps above have been completed
Turn on main lights for dock and Bio-Box	Black switch on panel in corridor and light switch.
Save file to Desk and two USB's	Only if needed
Power down desk	In menu, press displays to get to it
Switch off power points	Behind Desk
Sign off comms	
Sign out	In green room

Ryan Sweet
 Season Lighting Operator
 Ph: 0478 152 702
 Email: Ryan.Sweet@connect.qut.edu.au

As of 1/06/17

****Subject To Change****



DIRECTED BY BEN SCHOSTAKOWSKI

Stage Manager: Mikaela Sanders

FLOOR LX: SHOW PLOT

Version 1.2

To whom it may concern:

Thank you for stepping into the role of the FLOOR ELECTRICIAN (LX) for EURYDICE on the Season of American Contemporary Plays. The following document, in conjunction with the documentation and the assistance of the Head LX and LX Operator should be able to assist you in executing this role. Should you have any issues, please do not hesitate to contact the relevant parties (see document end for contact details).

CUE	ACTION	SPECIFIC NOTES
HOUR CALL	Floor Electrician: shift starts	<p>VENUE: The Loft, QUT Kelvin Grove.</p> <p>Sign in (sheet is next to the notice board in the Green Room)</p> <p>Action any notes from the previous show report or duties as allocated by the Head LX/LX Op.</p>
HALF HOUR CALL	Preset and test FAN, 2 x SMOKE MACHINES, MAKEUP LIGHT and REAR STAGE PARNELL	<p><i>Lighting operator will power up lighting system. The FAN and SMOKE MACHINES are powered through dimmed outlets, and will not turn on until this is complete.</i></p> <p>The FAN is located on the OP side of the ELEVATOR, right next to the pulley system for the elevator doors.</p> <ul style="list-style-type: none"> - Power up: To turn on the fan, plug into the female tail located directly underneath the rostra (labelled FAN). The fan should always be on the '2' setting (due to noise levels). Ensure fan is working, then unplug. - Location: The fan is pre-set on the floor behind the elevator, marked with labelled tape. Ensure the tape mark on the fan lines up with the arrow drawn on the tape on the floor, and the fan is angled at the same angle as the metal brace (slightly up onto the stage) If cast/crew are moving through, do not pre-set until closer to the show. <p>ENSURE VENUE IS ISOLATED BEFORE TURNING ON SMOKE MACHINES. There are two smoke machines, both located on the floor directly PS of the ELEVATOR DOORS.</p> <ul style="list-style-type: none"> - Smoke levels: Ensure both machines have adequate smoke (approx 1/3 of the fluid container. If necessary, fill (check with Head LX for fluid location). - Power up: Ensure the power leads for both machines are plugged in (leads labelled next to the machines). Turn on the power switches for both machines. These will light up red if power is received. Both machines will begin to heat.

	(CONTD.)	<ul style="list-style-type: none"> - Test: After machines have heated, manually test the smoke for both machines. - Location: These machines do not move, and should therefore should already be in position. <p>The MAKEUP LX is the PAR can lamp located in the dock corridor, hanging on the meat rack closest to the stage entrance. The lamp is plugged into the nearest hot power outlet, labelled MAKEUP LIGHT.</p> <ul style="list-style-type: none"> - Test: Ensure the light turns on, however leave off as the Makeup team will use as necessary. <p>The REARSTAGE PARNELL is set directly centre of the rear stage crossover, upon a milk crate. Ensure the light is plugged in, and the LX OP will check this in the lamp checks.</p>
	Check FLOOR LAMP FOCUS (liaise with LX OP)	<p>Ensure that all birdies located DS of the rostra are pointing onstage and do not appear to have been knocked. All hotspots should be centred on the approximate height of an average person, standing 1m upstage of the rostra's DS edge.</p> <p>Ensure floor PARNells (2 OP and 2 PS) are sitting within their glow tape outlines on the floor, and are facing onstage with all barn doors open.</p>
	Obtain COMMS pack from sound department	<p>Sound operator: Bailey McIntosh Sound Assistant: Sophie Watkins</p>
BEGINNERS	Be set backstage for FAN ON	<p>Usually it is easiest to sit just beside the OP elevator rostra, next to the fan pre-set position. Be careful of sightlines – especially when the elevator doors open, as the inside lights create a long reflection that is easily visible to the audience.</p> <p>Because the knob to turn the fan on is on the opposite side of the fan (within audience sightlines), the fan is turned on and off by plugging in/unplugging the cable. It is difficult to find the connection in the dark, so have the plug prepared and half pushed in to make the cue instantaneous.</p> <p>NB: ALL FAN/SMOKE CUES WILL BE CALLED OVER COMMS, EXCEPT FOR THE FAN OFF CUE. Also, once the light is set, it is not stricken until post show – just be wary of actors who may trip/get caught on it.</p>
STANDYBY FAN ON	CHECK FAN	Half connect plug so that it's easy to plug in immediately and double check positioning.
GO FAN	CONNECT PLUG SO FAN STARTS	Double check curtains are moving by looking at the shadows cast on the backstage wall/curtains – adjust if necessary.

STANDBY FAN OFF		THERE IS NO CUE OVER COMMS FOR THIS. Be prepared (hands on the plug) to react. A good standby line is Eurydice’s “Well close your eyes then” which happens about 5s before the cue.
BLACKOUT	UNPLUG + STRIKE FAN	<u>FAST</u> CHANGEOVER – WATCH OUT FOR OTHERS The instant the blackout happens, unplug the fan and slide the fan under the OP elevator rostra to hide. It will stay here for the remainder of the show, so ensure it is fully under. There is a piece of black cloth on the group to stop some noise, but beware of hitting the fan on the underside of the rostra.
	SET REAR STAGE PARNELL	Immediately enter the backstage crossover via the OP side of the centre curtain (avoiding others). Pick up the light, wait for the spirits to enter the elevator, then place the light on the floor as close as possible to the rostra/tread. <i>Be careful not to hit the rostra/tread, just for noise.</i>
	Clear curtain from smoke machine Standby	Immediately move to PS of the elevator (watching sightlines!) and clear the black elevator curtain from the smoke machine. Continue to hold so that the smoke enters the elevator area but does not escape
EURYDICE ENTERS ELEVATOR	HOLD BACK CURTAIN for SMOKE CAPSULE	Hold back the curtain from the smoke machine, ensuring that the least amount of smoke possible escapes from inside the elevator (the effect created is like a smoke capsule, and any escaping smoke ruins the effect). <i>This is not called over comms, so the best cue points are:</i> Standby line: “Oh look, here comes Eurydice now....” Just before: “If she died, too young....”
STORM 1	STANDBY HANDHELD SMOKE	CALLED OVER COMMS. On go, press the red button on the handheld smoke machine remote. Continue to hold the red button until the smoke machine stops/runs out. The smoke should be pointed across stage. A good personal standby is when Orpheus enters the elevator in a raincoat. Also, before that “Tell me more about Orpheus”
	HANDHELD SMOKE GO	
STORM 2	STANDBY HANDHELD SMOKE	CALLED OVER COMMS. AS BEFORE – hold red button until smoke runs out. Good personal standby: “I’m growing, I’m growing” and Lord of the Underworld exiting PS.
	HANDHELD SMOKE GO	
MOTHER IN ELEVATOR	STANDBY HANDHELD SMOKE	CALLED OVER COMMS. AS BEFORE – hold red button until smoke runs out. Good personal standby: “My mother has needs”
	HANDHELD SMOKE GO	

REMAINDER OF SHOW	CLEAR CURTAINS	For the remainder of the show, ensure the curtains are clear from the smoke machines at all times. If the curtains are closed, ensure that the smoke from the elevator will not escape.
POST SHOW CLEARANCE	Turn off SMOKE MACHINES Strike REAR STAGE PARNELL Reset FAN	Turn off both smoke machines by the switch and then removing the power cables. Leave cables easily accessible next to the machines. There are no power down processes for these machines. Check the fluid level for both machines, and ensure there is enough for the remaining show. Strike the rear stage lamp back to the milk crate on which it started (ready for the next show). Do not unplug. Take the fan out from underneath the stage and place on the rostra OP of the elevator so that it is out of the way.
	Return COMMS to Sound department	Don't forget to place battery on charge in the Green room!
	CHECK IN	Check in with the LX OP and HEAD LX to ensure that everything has been completed for the night. Don't forget to sign out!

HEAD ELECTRICIAN

Dale Norris
0448 574 203

LX OPERATOR

Ryan Sweet
0478 152 702

PRODUCTION STAGE MANAGER

Ella Gordon
0410 365 585



Season of Contemporary American Plays 2017
EURYDICE - Lamp Check Cue Synopsis

Cue #	Channels	Description	Time (secs)	Notes
0.1	1 thru 202 (All)	@ 30%	30secs	Fade Up
0.2	All	@ 0%	30secs	Fade Out
0.3	20,30,40,50,60,70,80,90,95,96	@30 %	5 / 5	FOH Warm (10)
0.4	31,41,51,61,71,81,91	@30 %	5 / 5	FOH Cool (7)
0.5	10, 10,11,12,13,22	@30 %	5 / 5	House LX (6)
0.6	42,52,62,72,82,92	@30 %	5 / 5	O/H Warm (6)
0.7	43,53,63,73,83,93	@30 %	5 / 5	O/H Cool (6)
0.8	101 - 107	@30 %	5 / 5	O/H Blue (12)
0.9	115 + 116	@30 %	5 / 5	O/H Amber (4)
1	120 - 133	@30 %	5 / 5	Side Bars
1.1	150, 151, 153, 154, 155, 156,157, 158	@30 %	5 / 5	Specials (8) + Gobo Rotating
1.2	141 - 145	@30 %	5 / 5	Corridor of Light (5)
1.3	190- 197	@30 %	5 / 5	Booms (8)
1.4	160, 161,162,163, 164	@30 %	5 / 5	Set LX (13)
1.5	250	Manual Operation	Burst	Smoke (1)
1.6	All	@0 %	5	DBO Check
1.7	202	@ 50	5/5	Blues Check
3	Pre Show State		As per LX File	

*Ensure isolation before testing cue list



Eurydice to The Hat

During Show's / tech week.

- Locate 1x Slate Gobo

Saturday Night Post Show (1 Hour)

- Re-locate lighting desk to seating bank & send DMX over seating bank
- Set LX - Strike all electrics from set.

- Remove Gel from Booms and replace as follows;

Prompt Side Boom One

Position One L079 to L164

Position Two L139 to L164

Prompt Side Boom Two

Position One L079 to L164

Position Two L139 to L164

Opposite Prompt One

Position One No Change L164

Position Two L795 to L164

Opposite Prompt Two

Position One L164 No Change

Position Two L795 to L164



Monday Morning (4 Hours)

PS Rail

Fixture 1 from L139 to L200

Fixture 2 From L079 to O/W

Fixture 3 from L139 to L200

Fixture 4 from L079 to O/W

Fixture 5 from L154 to L134 **and Slated Gobo**

Fixture 6 from L 139 to L200

Fixture 7 from L154 to L738

Fixture 8 from L079 to O/W

Fixture 9 from L139 to L200

Fixture 10 from L079 to O/W

OP Rail

Fixture 1 from L795 to L200

Fixture 2 from L164 to O/W

Fixture 3 from L795 to L200

Fixture 4 from L164 to O/W

Fixture 5 from L210 to L738

Fixture 6 from L795 to L200

Fixture 7 from L210 to L738

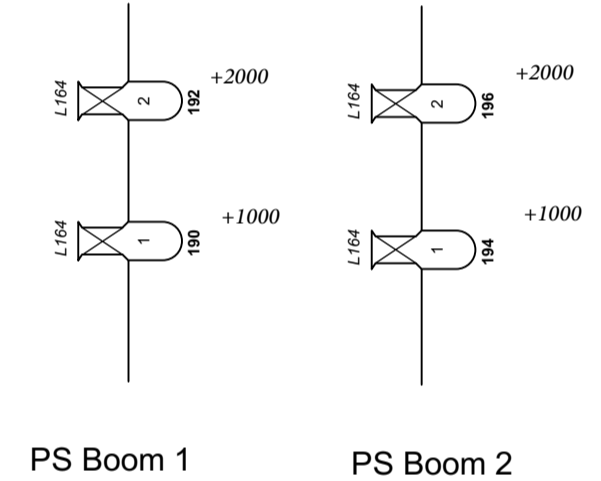
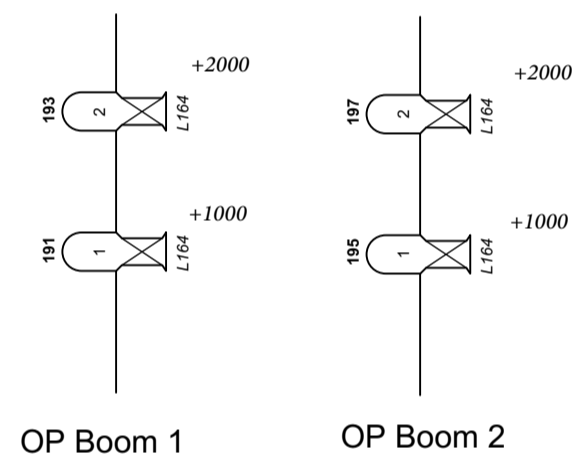
Fixture 8 from L164 to O/W

Fixture 9 from L795 to L200

Fixture 10 from L164 to O/W

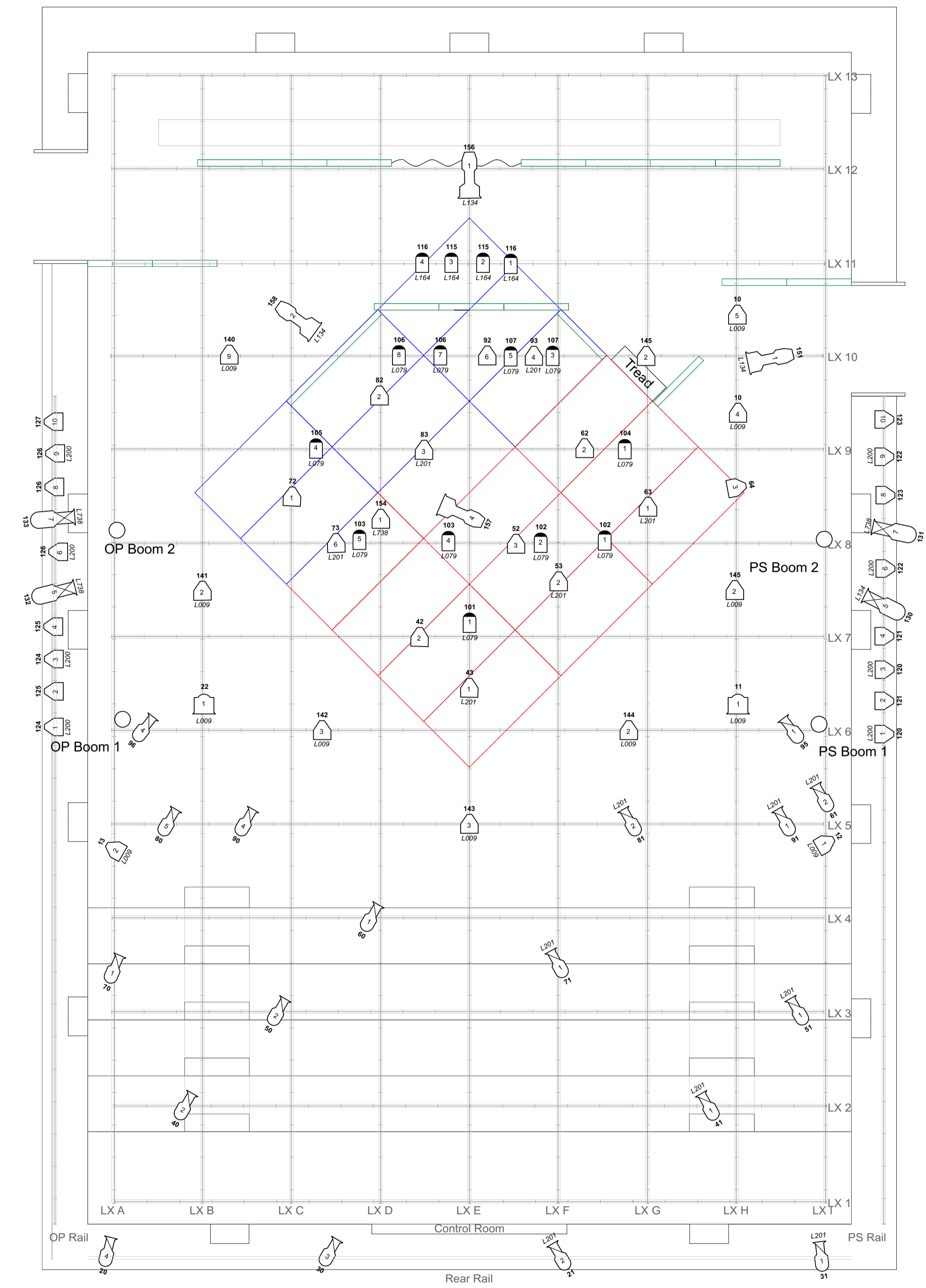
LX10 -

Channel 151 - Insert Slated Gobo



KEY

	ETC Source 4 19 Degree	18/20
	ETC Source 4 26 Degree	12/12
	ETC Source 4 10 Degree	7/12
	1.2K PC	2/4
	PAR 64 MFL	20/20
	Parnell	45/46



Notes

All:

- All S4's to have R119
- Boom height to the centre of the lens
- All S4's 10 Degrees to have **IRIS**
- Top hats for all fixtures on Booms
- Fixtures in CH 10, 102, 103, 106, 107, 115, 116, 120 - 127 to be piggybacked with their respective channel numbers.
- All Parnells and PC's to have Barndoors
- **PS Boom 1** - in line with LX 6 against wall
- **PS Boom 2** - in line with LX 8 against wall
- **OP Boom 1** - in line with LX 6 against wall
- **OP Boom 2** - in line with LX 8 against wall

Specials:

- **CH 151** and **CH 130** gobo Option 1 (Horizontal Slates) Gobo - for *Mother F**ker with a Hat*
- 4 x Par Cans not in plan - have been left for Backstage **BLUES**

	Season of Contemporary American Plays	Date 18.05.2017	Drawn By: B.Scott in collaboration with C.Kidney & B.McVicar	Set Design by: M.Miller	Directors: P.Zazzali	Scale 1: 50 @ A3
	Title THE HAT LX Plan	Version 4	LX Design by: B.Scott in collaboration with C.Kidney & B.McVicar	Sound Design by: H. Gillespie	Venue: The Loft - QUT Precincts Kelvin Grove	Subject to change



Season of Contemporary American Plays:
The Loft, QUT Creative Industries Precinct
Instrument Schedule Amendment



Version 3.0
As at 19 May 2017 at 11:03 pm



The Loft: Standard Patch Locations			
Location	# of Patch Points	Numbering	6x 12 Outlet conduit attached to the grid
Overhead Conduit	72	1-72	Outlets throughout Roof
Overhead Grid	30	1-30	
Upstage Wall	18	31-48	
Prompt Wall	30	49-78	
Downstage Wall	10	79-88	Above Seating Bank
OP Wall	30	89-118	

● C = Conduit = Yellow Tags



● R= Wall, roof patches = White small tag





Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LX2
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	41	R25	66		L201	R119	
2	ETC Source Four 19 °	40	R30	65		OW	R119	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position: LX3

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	51	C12	30		L201	R119	
2	ETC Source Four 19 °	50	R29	63		OW	R119	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LX4
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	60	C5	27		OW	R119	



Season of Contemporary American Plays 2017
 The Hat Instrument Schedule Amendment

Position:								LX5
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	91	C24	14		L201	R119	
2	ETC Source Four 19 °	81	C22	17		L201	R119	
3	ETC Parnel	143	C19	18	Barn Doors	L009	-	
4	ETC Source Four 19 °	90	C15	28		O/W	R119	
5	ETC Source Four 19 °	80	C14	15		O/W	R119	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LX7
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	42	R15	70	Barn Doors	O/W	-	



Season of Contemporary American Plays 2017
 The Hat Instrument Schedule Amendment

Position:								LX8
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	102	R14	67		L079	-	MFL Lense
2	PAR64	102	C45	87		L079	-	MFL Lense
3	ETC Parnel	52	C44	100	Barn Doors	O/W	-	
4	PAR64	103	C42	97		L079	-	MFL Lense
5	PAR64	103	C40	101		L079	-	MFL Lense
6	ETC Parnel	73	C39	98	Barn Doors	L201	-	



Position:								LX9
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	104	C58	74		L079	-	
2	ETC Parnel	62	C57	77	Barn Doors	O/W	-	MFL Lense
3	ETC Parnel	83	C53	76	Barn Doors	L201	-	
4	PAR64	105	C52	73		L079	-	



Position: LX10

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	151	C71	103	IRIS	L134	R119	
2	ETC Parnel	146	R08	64	Barn Doors	O/W	-	
3	PAR64	107	R07	61		L079	-	MFL Lens
4	ETC Parnel	93	C56	106	Barn Doors	L201	-	
5	PAR64	107	R07	61		L079	-	MFL Lens
6	ETC Parnel	92	C55	93	Barn Doors	O/W	-	
7	PAR64	106	R09	51		L079	-	MFL Lens
8	PAR64	106	R10	54		L079	-	MFL Lens
9	ETC Parnel	140	R11	2	Barn Doors	L009	-	



Position:								LX11
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	PAR64	116	C68	92		L164	-	MFL Lense
2	PAR64	115	C67	95		L164	-	MFL Lense
3	PAR64	115	C66	91		L164	-	MFL Lense
4	PAR64	116	C55	94		L164	-	MFL Lense



Position:								LX12
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	153	R02	10	IRIS	L009	R119	
2	ETC Source Four 19 °	156	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LXA
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	70	C01	25		O/W	R119	
2	ETC Parnel	13	C13	29	Barn Doors	L009	-	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LXB
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	22	C26	36	Barn Door	L009	-	
2	ETC Parnel	141	R17	68	Barn Doors	L009	-	



Season of Contemporary American Plays 2017
 The Hat Instrument Schedule Amendment

Position:								LXC
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	72	C38	86	Barn Doors	OW	-	
2	ETC Source Four 10 °	158	C62	108	IRIS	L134	R119	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position: LXD

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	154	C41	85	Barn Doors	L738	-	
2	ETC Parnel	82	C54	88	Barn Doors	OW	-	



Season of Contemporary American Plays 2017

The Hat Instrument Schedule Amendment

Position:								LXE
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 10 °	150	C30	3	IRIS	O/W	R119	
2	ETC Parnel	43	C31	5	Barn Doors	L201	-	
3	PAR64	101	R16	71		L079	-	MFL Lense
4	ETC Source Four 26 °	157	C43	99	IRIS	O/W	R119	



Position:								LXF
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	71	C9	26		L201	R119	
2	ETC Parnel	53	C46	102	Barn Doors	L201	-	



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LXG
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	63	C47	96	Barn Doors	L201	-	
2	ETC Source Four 10 °	155	R01	7	IRIS	L134	R119	



Season of Contemporary American Plays 2017

The Hat Instrument Schedule Amendment

Position:								LXH
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Selecon Rama PC	11	C36	32	Barn Door	L009		
2	ETC Parnel	145	R13	57	Barn Doors	L009	-	
3	ETC Parnel	64	C48	90	Barn Doors	O/W	-	
4	ETC Parnel	10	C60	89	Barn Doors	L009		
5	ETC Parnel	10	C72	105	Barn Doors	L009		



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

Position:								LXI
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	12	R67	69	Barn Doors	L009	-	-
2	ETC Source Four 19 °	61	R68	72		L201	R119	



Position: REAR (DS) RAIL

Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	31	R81	104		L201	R119	
2	ETC Source Four 19 °	21	R82	107		L201	R119	
3	ETC Source Four 19 °	30	R83	75		L201	R119	
4	ETC Source Four 19 °	20	R84	78		L201	R119	



The Hat Position:								PS RAIL
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	120	R69	60	Barn Doors	L200	-	
2	ETC Parnel	121	R70	56	Barn Doors	O/W	-	
3	ETC Parnel	120	R69	60	Barn Doors	L200	-	
4	ETC Parnel	121	R70	56	Barn Doors	O/W	-	
5	ETC Source Four 26 °	130	R64	58	Slated Gobo	L134	-	
6	ETC Parnel	122	R58	53	Barn Doors	L200	-	
7	ETC Source Four 26 °	131	R63	55		L738	R119	
8	ETC Parnel	123	R57	52	Barn Doors	O/W	-	
9	ETC Parnel	122	R58	53	Barn Doors	L200	-	
10	ETC Parnel	123	R57	52	Barn Doors	O/W	-	



The Hat Position:								OP RAIL
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Parnel	124	R97	80	Barn Doors	L200	-	
2	ETC Parnel	125	R98	83	Barn Doors	O/W	-	
3	ETC Parnel	124	R97	80	Barn Doors	L200	-	
4	ETC Parnel	125	R98	83	Barn Doors	O/W	-	
5	ETC Source Four 26 °	132	R103	35		L738	R119	
6	ETC Parnel	126	R104	34	Barn Doors	L200	-	
7	ETC Source Four 26 °	133	R109	31		L738	R119	
8	ETC Parnel	127	R110	29	Barn Doors	O/W	-	
9	ETC Parnel	126	R104	34	Barn Doors	L200	-	
10	ETC Parnel	127	R110	24	Barn Doors	O/W	-	



The Hat Position: OP Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	191	R100	84		L164	R119	@ 1000mm
2	ETC Source Four 26 °	193	R99	81		L164	R119	@2000mm



The Hat Position:								OP Boom 2
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	195	R112	19		L164	R119	@1000mm
2	ETC Source Four 26 °	197	R111	20		L164	R119	@2000mm



Season of Contemporary American Plays 2017
The Hat Instrument Schedule Amendment

The Hat Position: PS Boom 1								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	190	R72	48		L164	R119	@ 1000mm
2	ETC Source Four 26 °	192	R71	59		L164	R119	@2000mm



The Hat Position: PS Boom 2								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 26 °	196	R59	49		L164	R119	@1000mm
2	ETC Source Four 26 °	194	R60	42		L164	R119	@2000mm



Position: Backstage Blues								
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
2	Par 16	202	R35	9		L721	-	Mounted in Quick Change Booth
3	Par 16	202	R35	9		L721	-	Mounted on USOP Flat
4	Par 16	202	R35	9		L721	-	Mounted on USPS Flat
5	Par 16	202	R48	11		L721	-	Mounted on USOP Flat
6	Par 16	202	R48	11		L721	-	Mounted on USPS Flat



Season of Contemporary American Plays 2017

The Hat Instrument Schedule Amendment

Position:								LX6
Fix #	Fixture	Channel #	Patch	Dimmer	Accessories	Colour	Frost	Notes
1	ETC Source Four 19 °	95	C35	16		O/W	R119	Selecon Rama PC
2	ETC Parnel	144	C34	13	Barn Doors	L009	-	
3	ETC Parnel	142	C28	6	Barn Doors	L009	-	
4	ETC Source Four 19 °	96	C25	33		O/W	R119	



Head Electrician: Show Plot

Note:

Thank-you for stepping into the role of Head Electrician on the Season of Contemporary American Plays in my absence. This document, in conjunction with supporting documentation and the assistance of the LX Operator should be able to assist you in executing this role. Should you have any issues please do not hesitate to contact LX Operator or Production Stage Manager. Chookas,

Hour Call

- Obtain comms pack from Sound Department and battery from Green Room
- Action any notes from previous show report.
- Turn on all power distribution and dimmer racks located in the OP Dock Cage via the 10x 3 Phase Switches
- Turn on the Stair lights by pressing the two grey switches located in the dimmer cage next to the orange distribution board
- Ensure the LX Operator has powered up the lighting desk
- Ensure Floor Electrician has commenced their pre-show checks
- Turn off Stage Workers Located: at the Audience Entrance Door PS (6 Switches)
- Turn On Back Stage Blues Located: at the Clipsal Switch in the OP Dock
- Enter Cue #0.01 to perform lamp check
- Complete a lamp check by ensuring all fixtures are working and that the gel has not burnt through, check through the entire rig. -a detailed channel list is located in this plot and can be assisted by focus notes in the paperwork bundle
 - Check for fixtures that have slipped focus / burnt through gel and action if required.
- Complete a Black Out check; ensuring that OP Doors are closed / covered check for any light spill and rectify
- Advise LXO to enter pre show state
- Advise PSM pre show lighting checks are completed
- Check in With HOD Sound that Vision Systems is working as expected and trouble shoot as required.

During Show:

- Stand by backstage to resolve any issues that may arise
- Oversee the execution of Vision Cues and ensure they run appropriately by listening in on show call.
-

Post Show:

- Upon clearance
 - Turn on stage workers located at the PS Audience door entrance
 - ensure LX Operator has lamped off fixtures and powered down lighting rig
 -
 - Turn off all power distribution and dimmer racks located in the OP Dock Cage via the 10x 3 Phase Switches
 - Monitor fluid levels of small and large smoke machine
 - Turn off the backstage blues off via the OP Dock Clipsal Switch
 - Turn off the Stair lights by pressing the two grey switches located in the dimmer cage next to the orange distribution board
 - Meet with HOD Sound to check in on Vision Systems
 - Meet with PSM to provide or action notes
 - Sign out and Exit Venue



Season of Contemporary American Plays 2017

The Motherfucker with the Hat - Head Electrician Show Plot

Things to Note

- The Lifter is located on Level 6; ensure you carry out the checks, fill out the EWP logbook and have it authorised by the duty technician.
- Gels are stored at the Green Room end of the dock in two collapsable folders sorted by both Gel # and Size as well as by Bar.
- Bulbs are stored in the Dimmer Cage; please see the Duty Technician for access to bulbs
- A Red Folder with all patch sheets, instrument schedules and associated paperwork is located with the gel folders.
- Dock Blues are located in the Bio Box; LXO to operate.

Contacts

Ryan Sweet: LXO - 0478 152 702

Emma Healy: FLX - 0448 468 568

Ella Gordon: PSM - 0410 365 585

Lighting Network

Network Name: SOCAP LX

Password: S0c@p2017!

IP Address: 172.20.15.120

Subnet Mask: 255.255.0.0

Console IP Address: 192.168.97.110

Console Name: LoftElement



Season of Contemporary American Plays 2017
 The Motherfucker with the Hat - Head Electrician Show Plot

Fader	Use	Channels	Mode
1	House Lights	10 thru 14	
2	Backstage Blues	202	
3	Workers	42,52,62,72,82,92	
20	ZR-45 Smoke Machine	250	Inhibit

Pre Show Lamp Check Cue List

Cue #	Channels	Description	Time (secs)	Notes
0.1	1 thru 202 (All)	@ 30%	30secs	Fade Up
0.2	All	@ 0%	30secs	Fade Out
0.3	20,30,40,50,60,70,80,90,95,96	@30 %	7 Secs	FOH Warm (10)
0.4	31,41,51,61,71,81,91	@30 %	7 Secs	FOH Cool (7)
0.5	10, 10,11,12,13,22	@30 %	7 Secs	House LX (6)
0.6	42,52,62,72,82,92	@30 %	7 Secs	O/H Warm (6)
0.7	43,53,63,73,83,93	@30 %	7 Secs	O/H Cool (6)
0.8	101 - 107	@30 %	7 Secs	O/H Blue (12)
0.9	115 + 116	@30 %	7 Secs	O/H Amber (4)
1	120 - 133	@30 %	7 Secs	Side Bars
1.1	150, 151, 153, 154, 155, 156,157, 158	@30 %	7 Secs	Specials (8) + Gobo Rotating
1.2	141 - 145	@30 %	7 Secs	Corridor of Light (5)
1.3	190- 197	@30 %	7 Secs	Booms (8)
1.6	All	@0 %	7 Secs	DBO Check
1.7	202	@ 50	7 Secs	Blues Check



Season of Contemporary American Plays 2017
The Hat - Lamp Check Cue Synopsis

Cue #	Channels	Description	Time (secs)	Notes
0.1	1 thru 202 (All)	@ 30%	30secs	Fade Up
0.2	All	@ 0%	30secs	Fade Out
0.3	20,30,40,50,60,70,80,90,95,96	@30 %	5 / 5	FOH Warm (10)
0.4	31,41,51,61,71,81,91	@30 %	5 / 5	FOH Cool (7)
0.5	10, 10,11,12,13,22	@30 %	5 / 5	House LX (6)
0.6	42,52,62,72,82,92	@30 %	5 / 5	O/H Warm (6)
0.7	43,53,63,73,83,93	@30 %	5 / 5	O/H Cool (6)
0.8	101 - 107	@30 %	5 / 5	O/H Blue (12)
0.9	115 + 116	@30 %	5 / 5	O/H Amber (4)
1	120 - 133	@30 %	5 / 5	Side Bars
1.1	150, 151, 153, 154, 155, 156,157, 158	@30 %	5 / 5	Specials (8) + Gobo Rotating
1.2	141 - 145	@30 %	5 / 5	Corridor of Light (5)
1.3	190- 197	@30 %	5 / 5	Booms (8)
1.6	All	@0 %	5	DBO Check
1.7	202	@ 50	5/5	Blues Check
3	Pre Show State As per LX File			

*Ensure isolation before testing cue list



Motherfucker With The Hat Lighting Operators Show Plot

Task	Notes
1 Hour Call	
Sign In	In Green Room
Turn on switches	Behind Lighting Board
Turn on Element Lighting Board	Board will automatically go to correct file
Collect and put on comms	From Head of Sound/ Next to Lighting Board
Put up backstage blues and dock blues	Fader 2 is Backstage blues Black switch on panel in the corridor, put to the bottom left
Turn off Bio box lights	Light switch on panel in corridor
30 Minutes Call	
Go through lamp check with Head LX	Cue 0.1 through 3.0.
Listen for comms check in	From Stage Manager
Go to Different Lighting states for fight choreography	Stage Manager will tell which ones
15 Minutes Call	
Make sure Air-con is turned on	Next to panel in corridor, put both on.
Go to Pre-show Lighting state	Cue 3
During Show	
Make sure Air-con stays on for entire show	Next to panel in corridor, put both on.
Post Show	
Turn up workers SUB	Fader 3, only when given Front of House Clearance.
Turn off backstage blues and GO TO CUE (OUT), Than take OUT workers SUB	Fader 2 After main Loft lights have come up. Fader 3
Inform Head LX that they can turn off Dimmers	After all Post-show steps above have been completed
Turn on main lights for dock and Bio-Box	Black switch on panel in corridor and light switch.
Save file to Desk and two USB's	After every show
Power down desk	In menu, press displays to get to it
Switch off power points	Behind Desk
Sign off comms	
Sign out	In green room

Ryan Sweet
 Season Lighting Operator
 Ph: 0478 152 702
 Email: Ryan.Sweet@connect.qut.edu.au

As of 8/06/17

****Subject To Change****



The Motherf**ker with The Hat

Lighting Cue Synopsis. V4

Lighting Cue Synopsis V.3							
CUE #	F/ON	DELAY	TIME	PAGE #	CUE POINT	DESCRIPTION	NOTES
PRESHOW							
LX Q3			5	N/A		Preshow	FOH, Ch 115 & 116 (RED), Ch 22, 143, 145.
LX Q4			3	N/A	FOH Clearance	Fade to Black	DBO
SCENE 1							
LX Q6			5	7	Actor and set preset	Veronica's Apartment	Group 2 & 4. Ch 64 & 95.
LX Q7			2	7	<i>Jackie appears at door.</i>	Doorway lights up.	Fades up doorway.
LX Q8			5	7	<i>Jackie walks towards Veronica.</i>	Doorway Fade out	Fades out doorway.
LX Q9	0	20	30/30	10	<i>Jackie sees the hat.</i>	Wash changes to blue	Group 4 out. Group 2 & 3 up.
LX Q9.5	0		2	10	F/ON	Light on coat rack	Fades up light on coat rack.
LX Q 9.6		20	3	10	F/ON	Fades out light on coat rack	Fades out light on coat rack.
LX Q10	4	3	1	14	<i>Jackie exits</i>	Fade to black	DBO
LX Q11	0		5	14	F/ON	Effect 1	SND "U Mad" by Kanye West – Scene Change
LX Q11.5		9	5	14	F/ON	Effect 2	SND "U Mad" by Kanye West – Scene Change
LX Q 11.7		3	1	14	Actor and Set Preset	Fade to black	DBO
SCENE 2							
LX Q12			3	14	Ralph's Apartment Title Fade Out	Ralph's Apartment	Group 2 & 3
LX Q13			5	15	Ralph – "Did you journal about it?"	Kitchen fade UP	Adds Ch 10 at 30
LX Q14	4	3	1	19	Jackie - "No doubt, bro. No doubt. "	Fade to black	DBO
LX Q15			5	19	F/ON	Effects 3, 4, 5	SND "El Chapo" by The Game – Scene Change

Compiled by Bethany Scott
Lighting Designer

The Motherf**ker with The Hat
Lighting Cue Synopsis
Subject to change

Version 4
as of 8/06/17 at 11:33am
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The Motherf**ker with The Hat

Lighting Cue Synopsis. V4

LX Q15.5		3	1	19	Actors and set preset	Fade to black	DBO
SCENE 3							
LX Q16			5	20	Julio's Apartment Title Fade Out	Julio's Apartment	Group 1, 2, Side Light.
LX Q17			5	20	<i>Julio enters carrying empandas.</i>	Kitchen fade OUT	Ch 10 out
LX Q18	6		1	26	Julio – "Take the empandas. "	Fade to black	DBO
LX Q19			5	26	F/ON	Effects 5 & 6	SND "Don't Stop What You're Doing" by Puff Daddy – Scene Change
LX Q19.5		3	1	26	Actors and set preset	Fade to black	DBO
SCENE 4							
LX Q20			5	27	Veronica's Apartment Title Fade Out	Veronica's Apartment	Group 2, 4 & 5. Ch 120, 122, 124, 126, 142.
LX Q21	0		1		Veronica – "Call me when you're fuckin' dead. "	Fade to black	DBO
LX Q22			5	29	F/ON	Effects 7 & 8	SND "What I do" by Machine Gun Kelly – Scene Change
LX Q22.5		3	1	29	Actor and set preset	Fade to black	DBO
SCENE 5							
LX Q23			3	30	Ralph's Apartment Title Fade Out	Stark white light with dimmed green.	Group 2, 3 & 5. Ch 131, 132, 154 (Green).
LX Q 23.5			7		Victoria sits on dining room chair.	Green fades out	Ch 131, 132, 154 (Green) out.
LX Q24	0		3	36	Victoria – "I got more packing to do."	Fade to black	DBO
LX Q25			5	36	F/ON	Effects 9 & 10	SND "You Don't Know" by Eminem – Scene Change
LX Q 25.5		3	1	36	Actor and set preset	Fade to black	DBO



The Motherf**ker with The Hat

Lighting Cue Synopsis. V4

SCENE 6							
LX Q26			5	36	Veronica's Apartment Title Fade Out	Veronica's Apartment	Group 1, 2 & 3. Ch 96
LX Q27	5		0	37	<i>Stickball bat stops rattling.</i>	DBO	DBO
LX Q28			5	37	F/ON	Effects 11 & 12	SND "X Gon Give It To Ya" by DMX – Scene Change
LX Q28.5		3	1		Actors and set preset	Fade to black	DBO
SCENE 7							
LX Q29			3	38	Julio's Apartment Title Fade Out	Light snaps to bright state	Group 1 & 4. Warm Side Light. Ch 130.
LX Q30			3	38	Jackie - "Bro, I can't eat this. "	Light dims to scene state	Group 1 & 4. Warm Side Light. Ch 130.
LX Q31	3		1	43	<i>They hug.</i>	Fade to black	DBO
LX Q32			2	43	F/ON	Effects 13 & 14	SND "The Point of No Return" by Immortal Technique – Scene Change
LX Q32.5		3	1	43	Actors and set Preset	Fade to black	DBO
SCENE 8							
LX Q33			5	44	Ralph's Apartment Title Fade Out	Ralph's Apartment	Group 1, 2 & 3. Cool Side Light
LX Q33.5			5	44	Ralph. D – "Thanks"	Doorway light	Fades up on doorway.
LX Q33.6			5	44	<i>Julio and Jackie walk into the room.</i>	Doorway light fade	Fades out doorway.
LX Q34			30	46	<i>Julio exits</i>	Red side light slowly fades in.	Adds Ch 115, 116 and booms
LX Q35			8	49	Ralph. D – "Too old for this shit... "	Red slowly fades out.	Ch 115, 116 and booms out



The Motherf**ker with The Hat

Lighting Cue Synopsis. V4

LX Q36	3		1	52	<i>Jackie spits on ground. 1</i>	DBO	DBO
LX Q37			5	52	F/ON		SND "Violence" by B.O.B – Scene Change
LX Q37.5		3	1	52	<i>Actors and set preset</i>	Fade to black	DBO
SCENE 9							
LX Q38			3	52	Veronica's Apartment Title Fades Out	Red Backlight	Group 2, 4. Ch 115 & 116 (RED). Ch 70 & 140. Warm Side Light.
LX Q38.5			3	55	<i>Jackie enters</i>	Doorway fade out	Ch 140 and 157 out.
LX Q40			5	55	Veronica – "Jackie"	Fades to black	DBO
POST SHOW							
LX Q41			1	N/A	After music fade in.	Post Show	SND "X Gon Give it to ya" by DMX – Scene Change
LX Q42			3	N/A	FOH Clearance	House lights up.	Adds FOH

Season of the Contemporary American Plays 2017

Master Sheet

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Channel	Position	Fixture #	Fixture	Patch / Circuit	Dimmer / Address	Accessories	Colour	Frost	Notes	Weight (KG)	Universe	Focus	Purpose	Wattage (W)	Show
10	LXH	4	ETC Parnel	C60	89	Barn Doors	L009	-		6.4kg	1	Straight down to floor	HLX	1200w	Season
10	LXH	5	ETC Parnel	C72	105	Barn Doors	L009	-		6.4kg	1	Straight down to floor	HLX	1200w	Season
11	LXH	1	Selecon Rama PC	C36	32	Barn Door	L009	-		3.6kg	1	PS offstage	Warm Overhead / HLX	1200w	Season
12	LXI	1	ETC Parnel	R67	69	Barn Doors	L009	-		6.4kg	1	Straight down to floor	HLX	1200w	Season
13	LXA	2	ETC Parnel	C13	29	Barn Doors	L009	-		6.4kg	1	PS Seating Bank	HLX	1200w	Season
20	REAR	4	ETC Source Four 19 °	R84	78		O/W	R119		6.4kg	1	OP Offstage	Warm Face Light	750w	Season
21	REAR	2	ETC Source Four 19 °	R82	107		L201	R119		6.4kg	1	OP Offstage	Cool Face Light	750w	Season
22	LXB	1	Selecon Rama PC	C26	36	Barn Door	L009	-		6.4kg	1	OP Offstage Off Rostra	Warm Overhead	1200w	Season
30	REAR	3	ETC Source Four 19 °	R83	75		O/W	R119		6.4kg	1	PS offstage	Warm Face Light	750w	Season
31	REAR	1	ETC Source Four 19 °	R81	104		L201	R119		6.4kg	1	PS offstage	Cool Face Light	750w	Season
40	LX2	2	ETC Source Four 19 °	R30	65		O/W	R119		6.4kg	1	CSDS Rostra	Warm Face Light	750w	Season
41	LX2	1	ETC Source Four 19 °	R25	66		L201	R119		6.4kg	1	CSDS Rostra	Cool Face Light	750w	Season
42	LX7	1	ETC Parnel	R15	70	Barn Doors	O/W	-		6.4kg	1	DSCS Rostra	Warm Overhead	1200w	Season
43	LXE	2	ETC Parnel	C31	5	Barn Doors	L201	-		6.4kg	1	CSDS Rostra	Cool Overhead	1200w	Season
50	LX3	2	ETC Source Four 19 °	R29	63		O/W	R119		6.4kg	1	CSPS Rostra	Warm Face Light	750w	Season
51	LX3	1	ETC Source Four 19 °	C12	30		L201	R119		6.4kg	1	CSPS Rostra	Cool Face Light	750w	Season
52	LX8	3	ETC Parnel	C44	100	Barn Doors	O/W	-		6.4kg	1	CSPS Rostra	Warm Overhead	1200w	Season
53	LXF	2	ETC Parnel	C46	102	Barn Doors	L201	-		6.4kg	1	CSPS Rostra	Cool Overhead	1200w	Season
60	LX4	1	ETC Source Four 19 °	C5	27		O/W	R119		6.4kg	1	PSUS Rostra	Warm Face Light	750w	Season
61	LXI	2	ETC Source Four 19 °	R68	72		L201	R119		6.4kg	1	PSUS Rostra	Cool Face Light	750w	Season
62	LX9	2	ETC Parnel	C57	77	Barn Doors	O/W	-		6.4kg	1	PSUS Rostra	Warm Overhead	1200w	Season
63	LXG	1	ETC Parnel	C47	96	Barn Doors	L201	-		6.4kg	1	PSUS Rostra	Cool Overhead	1200w	Season
64	LXH	3	ETC Parnel	C48	90	Barn Doors	O/W	-		6.4kg	1	PSUS Rostra	Warm Overhead	1200w	Season
70	LXA	1	ETC Source Four 19 °	C01	25		O/W	R119		6.8kg	1	OPDS Rostra	Warm Face Light	750w	Season
71	LXF	1	ETC Source Four 19 °	C9	26		L201	R119		6.4kg	1	OPDS Rostra	Cool Face Light	750w	Season
72	LXC	1	ETC Parnel	C38	86	Barn Doors	O/W	-		6.4kg	1	OPDS Rostra	Warm Overhead	1200w	Season
73	LX8	6	ETC Parnel	C39	98	Barn Doors	L201	-		6.4kg	1	OPDS Rostra	Cool Overhead	1200w	Season
80	LX5	5	ETC Source Four 19 °	C14	15		O/W	R119		6.4kg	1	CSOP Rostra	Warm Face Light	750w	Season
81	LX5	2	ETC Source Four 19 °	C22	17		L201	R119		6.4kg	1	CSOP Rostra	Cool Face Light	750w	Season
82	LXD	2	ETC Parnel	C54	88	Barn Doors	O/W	-		6.4kg	1	CSOP Rostra	Warm Overhead	1200w	Season
83	LX9	3	ETC Parnel	C53	76	Barn Doors	L201	-		6.4kg	1	CSOP Rostra	Cool Overhead	1200w	Season

Season of the Contemporary American Plays 2017

Master Sheet

Channel	Position	Fixture #	Fixture	Patch / Circuit	Dimmer / Address	Accessories	Colour	Frost	Notes	Weight (KG)	Universe	Focus	Purpose	Wattage (W)	Show
90	LX5	4	ETC Source Four 19 °	C15	28		O/W	R119		6.4kg	1	CSUS Rostra	Warm Face Light	750w	Season
91	LX5	1	ETC Source Four 19 °	C24	14		L201	R119		6.4kg	1	CSUS Rostra	Warm Face Light	750w	Season
92	LX10	6	ETC Parnel	C55	93	Barn Doors	O/W	-		6.4kg	1	CSUS Rostra	Warm Overhead	1200w	Season
93	LX10	4	ETC Parnel	C56	106	Barn Doors	L201	-		6.4kg	1	CSUS Rostra	Warm Overhead	1200w	Season
95	LX6	1	ETC Source Four 19 °	C35	16		O/W	R119		6.4kg	1	CSUS Wall	Warm Face Light	750w	Season
96	LX6	4	ETC Source Four 19 °	C25	33		O/W	R119		6.4kg	1	CSUS Wall	Warm Face Light	750w	Season
101	LXE	3	PAR64	R16	71		L079	-	MFL Lense	4.6kg	1	CSDS Rostra	Blue Wash	1000w	Season
102	LX8	1	PAR64	R14	67		L079	-	MFL Lense	6.4kg	1	CSPS Rostra	Blue Wash	1000w	Season
102	LX8	2	PAR64	C45	87		L079	-	MFL Lense	6.4kg	1	CSPS Rostra	Blue Wash	1000w	Season
103	LX8	4	PAR64	C42	97		L079	-	MFL Lense	6.4kg	1	CSDS Rostra	Blue Wash	1000w	Season
103	LX8	5	PAR64	C40	101		L079	-	MFL Lense	6.4kg	1	OPDS Rostra	Blue Wash	1000w	Season
104	LX9	1	PAR64	C58	74		L079	-	MFL Lense	6.4kg	1	PSUS Rostra	Blue Wash	1000w	Season
105	LX9	4	PAR64	C52	73		L079	-	MFL Lense	6.4kg	1	OPDS Rostra	Blue Wash	1000w	Season
106	LX10	7	PAR64	R09	51		L079	-	MFL Lense	6.4kg	1	CSOP Rostra	Blue Wash	1000w	Season
106	LX10	8	PAR64	R10	54		L079	-	MFL Lense	6.4kg	1	CSOP Rostra	Blue Wash	1000w	Season
107	LX10	3	PAR64	R07	61		L079	-	MFL Lense	6.4kg	1	CSUS Rostra	Blue Wash	1000w	Season
107	LX10	5	PAR64	R07	61		L079	-	MFL Lense	6.4kg	1	CSUS Rostra	Blue Wash	1000w	Season
115	LX11	2	PAR64	C67	95		L164	-	MFL Lense	6.4kg	1	Towards CSPS Ros	Amber Wash	1000w	Season
115	LX11	3	PAR64	C66	91		L164	-	MFL Lense	6.4kg	1	Towards CSDS Ros	Amber Wash	1000w	Season
116	LX11	1	PAR64	C68	92		L164	-	MFL Lense	6.4kg	1	Towards PSUS Ros	Amber Wash	1000w	Season
116	LX11	4	PAR64	C55	94		L164	-	MFL Lense	6.4kg	1	Towards OPDS Ros	Amber Wash	1000w	Season
120	PS RAIL	1	ETC Parnel	R69	60	Barn Doors	L139	-		6.4kg	1	To OP off Audience	High Side Light	1200w	EURYIDICE
120	PS RAIL	1	ETC Parnel	R69	60	Barn Doors	O/W	-		6.4kg	1	To OP off Audience	High Side Light	1200w	Season
120	PS RAIL	1	ETC Parnel	R69	60	Barn Doors	L200	-		6.4kg	1	To OP off Audience	High Side Light	1200w	THE HAT
120	PS RAIL	3	ETC Parnel	R69	60	Barn Doors	L139	-		6.4kg	1	To OP off Audience	High Side Light	1200w	EURYIDICE
120	PS RAIL	3	ETC Parnel	R69	60	Barn Doors	O/W	-		6.4kg	1	To OP off Audience	High Side Light	1200w	Season
120	PS RAIL	3	ETC Parnel	R69	60	Barn Doors	L200	-		6.4kg	1	To OP off Audience	High Side Light	1200w	THE HAT
121	PS RAIL	2	ETC Parnel	R70	56	Barn Doors	L079	-		6.4kg	1	To OP off Audience	High Side Light	1200w	EURYIDICE
121	PS RAIL	2	ETC Parnel	R70	56	Barn Doors	L721	-		6.4kg	1	To OP off Audience	High Side Light	1200w	Season
121	PS RAIL	2	ETC Parnel	R70	56	Barn Doors	O/W	-		6.4kg	1	To OP off Audience	High Side Light	1200w	THE HAT
121	PS RAIL	4	ETC Parnel	R70	56	Barn Doors	L721	-		6.4kg	1	To OP off Audience	High Side Light	1200w	Season
121	PS RAIL	4	ETC Parnel	R70	56	Barn Doors	O/W	-		6.4kg	1	To OP off Audience	High Side Light	1200w	THE HAT
121	PS RAIL	4	ETC Parnel	R70	56	Barn Doors	L079	-		6.4kg	1	To OP off Audience	High Side Light	1200w	

Season of the Contemporary American Plays 2017

Master Sheet

Channel	Position	Fixture #	Fixture	Patch / Circuit	Dimmer / Address	Accessories	Colour	Frost	Notes	Weight (KG)	Universe	Focus	Purpose	Wattage (W)	Show
122	PS RAIL	6	ETC Parnel	R58	53	Barn Doors	L164	-		6.4kg	1	Towards OP	High Side Light	1200w	Season
122	PS RAIL	6	ETC Parnel	R58	53	Barn Doors	L139	-		6.4kg	1	Towards OP	High Side Light	1200w	
122	PS RAIL	6	ETC Parnel	R58	53	Barn Doors	L200	-		6.4kg	1	Towards OP	High Side Light	1200w	
122	PS RAIL	9	ETC Parnel	R58	53	Barn Doors	L139	-		6.4kg	1	Towards OP	High Side Light	1200w	EURYIDICE
122	PS RAIL	9	ETC Parnel	R58	53	Barn Doors	L164	-		6.4kg	1	Towards OP	High Side Light	1200w	Season
122	PS RAIL	9	ETC Parnel	R58	53	Barn Doors	L200	-		6.4kg	1	Towards OP	High Side Light	1200w	THE HAT
123	PS RAIL	8	ETC Parnel	R57	52	Barn Doors	L079	-		6.4kg	1	Towards OP	High Side Light	1200w	EURYIDICE
123	PS RAIL	8	ETC Parnel	R57	52	Barn Doors	L721	-		6.4kg	1	Towards OP	High Side Light	1200w	Season
123	PS RAIL	8	ETC Parnel	R57	52	Barn Doors	O/W	-		6.4kg	1	Towards OP	High Side Light	1200w	THE HAT
123	PS RAIL	10	ETC Parnel	R57	52	Barn Doors	L079	-		6.4kg	1	Towards OP	High Side Light	1200w	EURYIDICE
123	PS RAIL	10	ETC Parnel	R57	52	Barn Doors	L721	-		6.4kg	1	Towards OP	High Side Light	1200w	Season
123	PS RAIL	10	ETC Parnel	R57	52	Barn Doors	O/W	-		6.4kg	1	Towards OP	High Side Light	1200w	THE HAT
124	OP RAIL	1	ETC Parnel	R97	80	Barn Doors	L795	-		6.4kg	1	To PS off audience	High Side Light	1200w	EURYIDICE
124	OP RAIL	1	ETC Parnel	R97	80	Barn Doors	O/W	-		6.4kg	1	To PS off audience	High Side Light	1200w	Season
124	OP RAIL	1	ETC Parnel	R97	80	Barn Doors	L200	-		6.4kg	1	To PS off audience	High Side Light	1200w	THE HAT
124	OP RAIL	3	ETC Parnel	R97	80	Barn Doors	L795	-		6.4kg	1	To PS off audience	High Side Light	1200w	EURYIDICE
124	OP RAIL	3	ETC Parnel	R97	80	Barn Doors	O/W	-		6.4kg	1	To PS off audience	High Side Light	1200w	Season
124	OP RAIL	3	ETC Parnel	R97	80	Barn Doors	L200	-		6.4kg	1	To PS off audience	High Side Light	1200w	THE HAT
125	OP RAIL	2	ETC Parnel	R98	83	Barn Doors	L164	-		6.4kg	1	To PS off audience	High Side Light	1200w	EURYIDICE
125	OP RAIL	2	ETC Parnel	R98	83	Barn Doors	L721	-		6.4kg	1	To PS off audience	High Side Light	1200w	Season
125	OP RAIL	2	ETC Parnel	R98	83	Barn Doors	O/W	-		6.4kg	1	To PS off audience	High Side Light	1200w	THE HAT
125	OP RAIL	4	ETC Parnel	R98	83	Barn Doors	L721	-		6.4kg	1	To PS off audience	High Side Light	1200w	Season
125	OP RAIL	4	ETC Parnel	R98	83	Barn Doors	O/W	-		6.4kg	1	To PS off audience	High Side Light	1200w	THE HAT
125	OP RAIL	4	ETC Parnel	R98	83	Barn Doors	L164	-		6.4kg	1	To PS off audience	High Side Light	1200w	
126	OP RAIL	6	ETC Parnel	R104	34	Barn Doors	L164	-		6.4kg	1	Towards PS	High Side Light	1200w	Season
126	OP RAIL	6	ETC Parnel	R104	34	Barn Doors	L200	-		6.4kg	1	Towards PS	High Side Light	1200w	
126	OP RAIL	6	ETC Parnel	R104	34	Barn Doors	L795	-		6.4kg	1	Towards PS	High Side Light	1200w	
126	OP RAIL	9	ETC Parnel	R104	34	Barn Doors	L795	-		6.4kg	1	To PS	High Side Light	1200w	EURYIDICE
126	OP RAIL	9	ETC Parnel	R104	34	Barn Doors	L164	-		6.4kg	1	To PS	High Side Light	1200w	Season
126	OP RAIL	9	ETC Parnel	R104	34	Barn Doors	L200	-		6.4kg	1	To PS	High Side Light	1200w	THE HAT
127	OP RAIL	8	ETC Parnel	R110	29	Barn Doors	L164	-		6.4kg	1	To PS	High Side Light	1200w	EURYIDICE
127	OP RAIL	8	ETC Parnel	R110	29	Barn Doors	L721	-		6.4kg	1	To PS	High Side Light	1200w	Season
127	OP RAIL	8	ETC Parnel	R110	29	Barn Doors	O/W	-		6.4kg	1	To PS	High Side Light	1200w	THE HAT
127	OP RAIL	10	ETC Parnel	R110	24	Barn Doors	L164	-		6.4kg	1	To PS	High Side Light	1200w	EURYIDICE
127	OP RAIL	10	ETC Parnel	R110	24	Barn Doors	L721	-		6.4kg	1	To PS	High Side Light	1200w	Season

Season of the Contemporary American Plays 2017

Master Sheet

Channel	Position	Fixture #	Fixture	Patch / Circuit	Dimmer / Address	Accessories	Colour	Frost	Notes	Weight (KG)	Universe	Focus	Purpose	Wattage (W)	Show
127	OP RAIL	10	ETC Parnel	R110	24	Barn Doors	O/W	-		6.4kg	1	To PS	High Side Light	1200w	THE HAT
130	PS RAIL	5	ETC Source Four 26 °	R64	58		L154	R119		6.4kg	1	Towards OPDS	High Side Light	750w	Season
130	PS RAIL	5	ETC Source Four 26 °	R64	58		L154	R119		6.4kg	1	Towards OPDS	High Side Light	750w	
130	PS RAIL	5	ETC Source Four 26 °	R64	58		L738	R119		6.4kg	1	Towards OPDS	High Side Light	750w	
131	PS RAIL	7	ETC Source Four 26 °	R63	55		L154	R119		6.4kg	1	Towards OPPS US	High Side Light	750w	Season
131	PS RAIL	7	ETC Source Four 26 °	R63	55		L154	R119		6.4kg	1	Towards OPPS US	High Side Light	750w	
131	PS RAIL	7	ETC Source Four 26 °	R63	55		L738	R119		6.4kg	1	Towards OPPS US	High Side Light	750w	
132	OP RAIL	5	ETC Source Four 26 °	R103	35		L210	R119		6.4kg	1	to PSUS DS Edge	High Side Light	750w	Season
132	OP RAIL	5	ETC Source Four 26 °	R103	35		L210	R119		6.4kg	1	to PSUS DS Edge	High Side Light	750w	
132	OP RAIL	5	ETC Source Four 26 °	R103	35		L738	R119		6.4kg	1	to PSUS DS Edge	High Side Light	750w	
133	OP RAIL	7	ETC Source Four 26 °	R109	31		L210	R119		6.4kg	1	To PSUS US Edge	Side Colour	750w	Season
133	OP RAIL	7	ETC Source Four 26 °	R109	31		L210	R119		6.4kg	1	To PSUS US Edge	Side Colour	750w	
133	OP RAIL	7	ETC Source Four 26 °	R109	31		L738	R119		6.4kg	1	To PSUS US Edge	Side Colour	750w	
140	LX10	9	ETC Parnel	R11	2	Barn Doors	L009	-		6.4kg	1	Straight down to floor	Side Colour	1200w	Season
141	LXB	2	ETC Parnel	R17	68	Barn Doors	L009	-		6.4kg	1	OP Offstage Off Rostra	Warm Overhead	1200w	Season
142	LX6	3	ETC Parnel	C28	6	Barn Doors	L009	-		6.4kg	1	OP Offstage Off Rostra	Warm Overhead	1200w	Season
143	LX5	3	ETC Parnel	C19	18	Barn Doors	L009	-		6.4kg	1	CS Offstage Off Rostra	Warm Overhead	1200w	Season
144	LX6	2	ETC Parnel	C34	13	Barn Doors	L009	-		6.4kg	1	PS offstage Of Rostra	Warm Overhead	1200w	Season
145	LXH	2	ETC Parnel	R13	57	Barn Doors	L009	-		6.4kg	1	Walkway O/H	HLX	1200w	Season
146	LX10	2	ETC Parnel	R08	64	Barn Doors	O/W	-		6.4kg	1	PS Tread	Warm Overhead	1200w	Season
150	LXE	1	ETC Source Four 26 °	C30	3	IRIS	O/W	R119		6.8kg	1	US Wall / Elevator	Special	750w	Season
151	LX10	1	ETC Source Four 10 °	C72	67	IRIS,	L134	R119		6.8kg	1		Special	750w	EURYDICE
151	LX10	1	ETC Source Four 10 °	C71	103	IRIS	L134	R119		6.8kg	1	PSUS Rostra	Special	750w	Season
151	LX10	1	ETC Source Four 10 °	C71	103	IRIS, Slated Gobo	L134	R119		6.8kg	1	PSUS Rostra	Special - Kitchen	750w	THE HAT
153	LX12	1	ETC Source Four 26 °	R02	10	IRIS	L009	R119		6.8kg	1	PSUS Rostra	Inside Door	750w	DETROIT
154	LXD	1	ETC Parnel	C41	85	Barn Doors	L738	-		6.4kg	1	Between CSDS and CSPS	Special	1200w	Season
155	LXG	2	ETC Source Four 10 °	R01	7	IRIS	L134	R119		6.8kg	1	CSUS Rostra	Special	750w	DETR(T)
156	LX12	2	ETC Source Four 19 °	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L079	R119		6.8kg	1	CSUS Rostra	Special	750w	EURYDICE
156	LX12	2	ETC Source Four 19 °	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119		6.8kg	1	CSUS Rostra	Special	750w	Season
156	LX12	2	ETC Source Four 19 °	R04	8	IRIS, Gobo Rotator, Glass Gobo x2	L164	R119		6.8kg	1	CSUS Rostra	Special	750w	THE HAT

Season of the Contemporary American Plays 2017

Master Sheet

Channel	Position	Fixture #	Fixture	Patch / Circuit	Dimmer / Address	Accessories	Colour	Frost	Notes	Weight (KG)	Universe	Focus	Purpose	Wattage (W)	Show
157	LXE	4	ETC Source Four 26 °	C43	99	IRIS	O/W	R119		6.8KG	1	OPDS Rostra US Edge	Special	750w	Season
158	LXC	2	ETC Source Four 10 °	C62	108	IRIS	L134	R119		6.8kg	1	CSOP Plant	Special	750w	Season
160	Ground	1	Par 16 - Birdie		74				Gange 1	0.25kg					EURYIDICE
160	Ground	2	Par 16 - Birdie		74				Gange 1	0.25kg					EURYIDICE
160	Ground	3	Par 16 - Birdie		74				Gange 1	0.25kg					EURYIDICE
161	Ground	1	Par 16 - Birdie		75				Gange 2	0.25kg					EURYIDICE
161	Ground	2	Par 16 - Birdie		75				Gange 2	0.25kg					EURYIDICE
161	Ground	3	Par 16 - Birdie		75				Gange 2	0.25kg					EURYIDICE
162	Ground	1	ETC Parnel		76	Barn Doors + H Stand	L201		Gang 3	6.4kg					EURYIDICE
162	Ground	2	ETC Parnel		76	Barn Doors + H Stand	L201		Gang 3	6.4kg					EURYIDICE
163	Ground	1	ETC Parnel		77	Barn Doors + H Stand	L201		Gang 4	6.4kg					EURYIDICE
163	Ground	2	ETC Parnel		77	Barn Doors + H Stand	L201		Gang 4	6.4kg					EURYIDICE
164	On Flat	1	Par 16 - Birdie						Gang 5	0.25kg					EURYIDICE
164	On Flat	2	Par 16 - Birdie						Gang 5	0.25kg					EURYIDICE
180	Ground	1	Par 16 - Birdie	We A3	79	ON FLAT	L201			0.25kg	1				Detroit
180	Ground	2	Par 16 - Birdie	We A3	79	ON FLAT	L201			0.25kg	1				Detroit
181	Ground	1	Par 16 - Birdie	We A1	80	TOP FLAT	L164			0.25kg	1				Detroit
181	Ground	2	Par 16 - Birdie	We A1	80	TOP FLAT	L134			0.25kg	1				Detroit
182	Ground	1	Par 16 - Birdie	We A2	81	SLIDING DOOR	L164			0.25kg	1				Detroit
182	Ground	2	Par 16 - Birdie	We A2	81	SLIDING DOOR	L134			0.25kg	1				Detroit
183	PS Flat		Porch Light								1				Detroit
185	Ground	1	Par 64	R54	22	Barn Doors	L009			4.6kg	1				DETR(T)
190	PS Boom 1	1	ETC Source Four 26 °	R72	48		L079	R119	@1000mm	6.4kg	1	To OP	Side Light	750w	EURYIDICE
190	PS Boom 1	1	ETC Source Four 26 °	R72	48		L164	R119	@ 1000mm	6.4kg	1	To OP	Side Light	750w	Season
190	PS Boom 1	1	ETC Source Four 26 °	R72	48		L164	R119	@1000mm	6.4kg	1	To OP	Side Light	750w	THE HAT
191	OP Boom 1	1	ETC Source Four 26 °	R100	84		L164	R119	@ 1000mm	6.4kg	1	To PS	Side Light	750w	EURYIDICE
191	OP Boom 1	1	ETC Source Four 26 °	R100	84		L079	R119	@ 1000mm	6.4kg	1	To PS	Side Light	750w	Season
191	OP Boom 1	1	ETC Source Four 26 °	R100	84		L164	R119	@ 1000mm	6.4kg	1	To PS	Side Light	750w	THE HAT
192	PS Boom 1	2	ETC Source Four 26 °	R71	59		L139	R119	@2000mm	6.4kg	1	To OP	Side Light	750w	EURYIDICE
192	PS Boom 1	2	ETC Source Four 26 °	R71	59		L079	R119	@2000mm	6.4kg	1	To OP	Side Light	750w	Season
192	PS Boom 1	2	ETC Source Four 26 °	R71	59		L164	R119	@2000mm	6.4kg	1	To OP	Side Light	750w	THE HAT
193	OP Boom 1	2	ETC Source Four 26 °	R99	81		L795	R119	@2000mm	6.4kg	1	To PS	Side Light	1200w	EURYIDICE

Season of the Contemporary American Plays 2017

Master Sheet

Channel	Position	Fixture #	Fixture	Patch / Circuit	Dimmer / Address	Accessories	Colour	Frost	Notes	Weight (KG)	Universe	Focus	Purpose	Wattage (W)	Show
193	OP Boom 1	2	ETC Source Four 26 °	R99	81		L164	R119	@2000mm	6.4kg	1	To PS	Side Light	1200w	Season
193	OP Boom 1	2	ETC Source Four 26 °	R99	81		L164	R119	@2000mm	6.4kg	1	To PS	Side Light	1200w	THE HAT
194	PS Boom 2	2	ETC Source Four 26 °	R60	42		L139	R119	@2000mm	6.4kg	1	To OP	Side Light	750w	EURYDICE
194	PS Boom 2	2	ETC Source Four 26 °	R60	42		O/W	R119	@2000mm	6.4kg	1	To OP	Side Light	750w	Season
194	PS Boom 2	2	ETC Source Four 26 °	R60	42		L164	R119	@2000mm	6.4kg	1	To OP	Side Light	750w	THE HAT
195	OP Boom 2	1	ETC Source Four 26 °	R112	19		L164	R119	@1000mm	6.4kg	1	To PS	Side Light	750w	EURYDICE
195	OP Boom 2	1	ETC Source Four 26 °	R112	19		L201	R119	@1000mm	6.4kg	1	To PS	Side Light	750w	Season
195	OP Boom 2	1	ETC Source Four 26 °	R112	19		L164	R119	@1000mm	6.4kg	1	To PS	Side Light	750w	THE HAT
196	PS Boom 2	1	ETC Source Four 26 °	R59	49		L079	R119	@1000mm	6.4kg	1	To OP	Side Light	750w	EURYDICE
196	PS Boom 2	1	ETC Source Four 26 °	R59	49		L201	R119	@1000mm	6.4kg	1	To OP	Side Light	750w	Season
196	PS Boom 2	1	ETC Source Four 26 °	R59	49		L164	R119	@1000mm	6.4kg	1	To OP	Side Light	750w	THE HAT
197	OP Boom 2	2	ETC Source Four 26 °	R111	20		L795	R119	@2000mm	6.4kg	1	To PS	Side Light	750w	EURYDICE
197	OP Boom 2	2	ETC Source Four 26 °	R111	20		O/W	R119	@2000mm	6.4kg	1	To PS	Side Light	750w	Season
197	OP Boom 2	2	ETC Source Four 26 °	R111	20		L164	R119	@2000mm	6.4kg	1	To PS	Side Light	750w	THE HAT
250	Ground	1	ZR-45		92		-				1		Cool Boom	2000w	Season

Fixture	Weight
ETC Source Four 10 °	6.8kg
ETC Source Four 19 °	6.4kg
ETC Source Four 26 °	6.4kg
ETC Parnel	3.6kg
Selecon Rama 1.2K PC	6.9kg
Par 64	4.6kg
Par 16 Birdie	0.2kg

The Loft Standard Show File

V1 As At Saturday 10 June 2017

Created By Dale Norris

www.dalenorris.com // dale.norris@connect.qut.edu.au

Visual Reference Only Not To Scale



1.2K PC 4/4



750w Panel 2/46



1000w PAR64 12/20

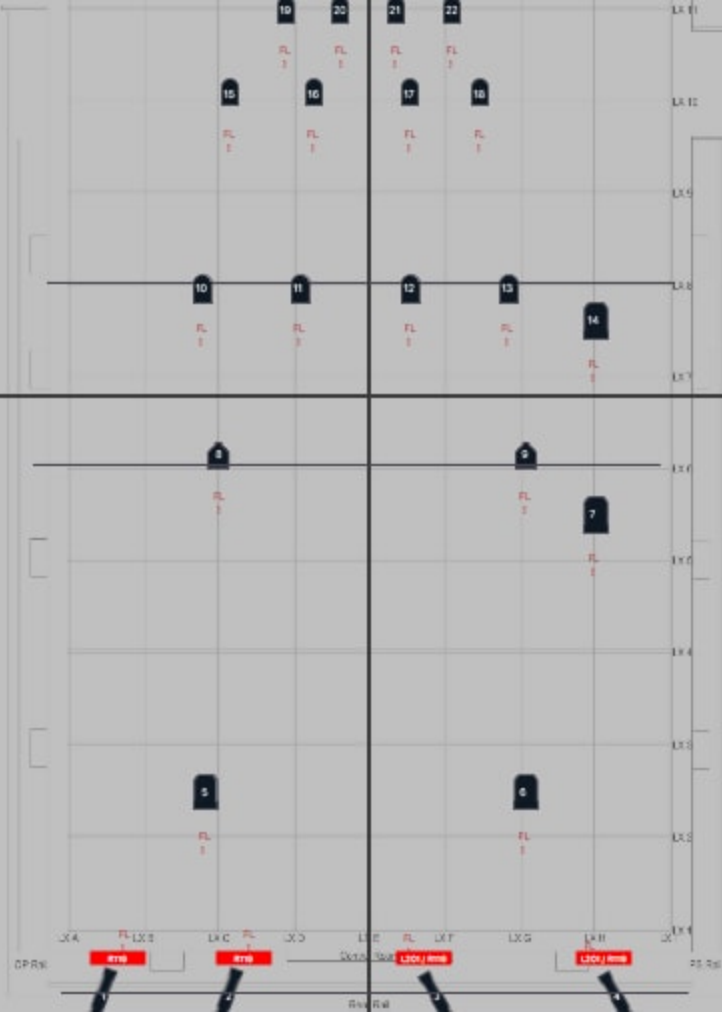


750w ETC Source 4 19 Degree 4/20

Colour



Notes:
All PC's & Panels to Have Barn Doors
All Profiles to Have R119



The Loft- Return to Standard
Master Sheet

The Loft Return to Standard 2017 June 12

Channel	Dimmer / Address	Position	Fixture #	Fixture	Patch / Circuit	Accessories	Colour	Frost	Notes	Focus / Purpose	Wattage (W)	Weight (KG)	Universe
1	78	REAR	4	ETC Source Four 19 °	R84		O/W	R119		OP Offstage	750w	6.4kg	1
2	107	REAR	2	ETC Source Four 19 °	R82		L201	R119		OP Offstage	750w	6.4kg	1
3	75	REAR	3	ETC Source Four 19 °	R83		O/W	R119		PS offstage	750w	6.4kg	1
4	104	REAR	1	ETC Source Four 19 °	R81		L201	R119		PS offstage	750w	6.9kg	1
5	1	LXC	1	Selecon Rama PC	C09	Barn Doors		-		House Lights	1200w	6.9kg	1
6	2	LXG	1	Selecon Rama PC	C03	Barn Doors				House Lights	1200w	6.9kg	1
7	32	LXH	1	Selecon Rama PC	C36	Barn Doors		-		House Lights	1200w	6.9kg	1
8	6	LX6	2	ETC Parnel	C28	Barn Doors		-		Down/ Backlight	750w	6.4kg	1
9	13	LX6	1	ETC Parnel	C34	Barn Doors		-		Down/ Backlight	750w	6.4kg	1
10	67	LX8	1	PAR64	R14				MFL Lense	Down/ Backlight	1000w	4.6kg	1
11	87	LX8	2	PAR64	C45				MFL Lense	Down/ Backlight	1000w	4.6kg	1
12	97	LX8	3	PAR64	C42				MFL Lense	Down/ Backlight	1000w	4.6kg	1
13	101	LX8	4	PAR64	C40				MFL Lense	Down/ Backlight	1000w	4.6kg	1
14	3	LXH	2	Selecon Rama PC	R48					House Lights	1200w	4.6kg	1
15	51	LX10	3	PAR64	R09				MFL Lense	Down/ Backlight	1000w	4.6kg	1
16	54	LX10	4	PAR64	R10				MFL Lense	Down/ Backlight	1000w	4.6kg	1
17	39	LX10	1	PAR64	R07				MFL Lense	Down/ Backlight	1000w	4.6kg	1
18	61	LX10	2	PAR64	R07				MFL Lense	Down/ Backlight	1000w	4.6kg	1
19	95	LX11	2	PAR64	C67				MFL Lense	Down/ Backlight	1000w	4.6kg	1
20	91	LX11	3	PAR64	C66				MFL Lense	Down/ Backlight	1000w	4.6kg	1
21	92	LX11	1	PAR64	C68				MFL Lense	Down/ Backlight	1000w	4.6kg	1
22	94	LX11	4	PAR64	C55			-	MFL Lense	Down/ Backlight	1000w	4.6kg	1



GENERAL INFORMATION

Designed for venues using primarily conventional lighting, the Element control console provides the powerful features of the Eos system in an economical and simplified package. In addition to keypad commands, True LTP Channel Faders provide hands-on control of intensity and can be used to set manual levels and edit recorded cues and submasters. Moving Light Controls are available to facilitate the use of conventional accessories like moving mirror heads, color scrollers or gobo rotators, or to make controlling small numbers of moving lights simple and direct. Element can be backed up by another Element, ETCnomad™ 1024 dongle or ETCnomad Puck™ 1024 mini-computer.

FEATURES

- 1,024 Outputs
- 250 or 500 Channels
- 40 or 60 Fader versions, pageable as channel or submaster control
- User Definable Direct Selects
- User Configurable, interactive Magic Sheets
- Master Playback pair with 60mm faders, Go, Stop/Back
- Intensity, Focus, Color and Beam Palettes
- Stepped, Relative and Absolute Effects
- Six Color Pickers and Gel Picker for LED, CMY color mixing
- ETCNet2™, Net3™/ACN, ArtNet and Avab UDP output protocols
- Show import from Obsession®, Express™, Expression®, Emphasis®, Congo®, Cobalt®, Safari, Strand 500/300 Series, Grand MA1 and Grand MA2
- Distributed DMX, MIDI, SMPTE and contact closure via Net3 Gateways
- OSC Transmit/Receive
- UDP Transmit/Receive
- Support for multiple languages, including English, German, Spanish, French, Italian, Japanese, Korean, Russian and Chinese (Simplified and Traditional)

ORDERING INFORMATION

Element

MODEL	DESCRIPTION
LMNT-40-250	Element Console, 40 Faders, 250 Channels
LMNT-40-500	Element Console, 40 Faders, 500 Channels
LMNT-60-250	Element Console, 60 Faders, 250 Channels
LMNT-60-500	Element Console, 60 Faders, 500 Channels
LMNT-UPGD	Element 250 - Channel Upgrade

ETCNet2 or Net3 is distributed using Net3 Gateways, which provide DMX, MIDI/ SMPTE Time Code and switch-closure functionality. MIDI In/Out and switch-closure are also available locally at the console.

Two universes of DMX512A output are available at the console via 5-pin XLR. These also support RDM.

Element Accessories

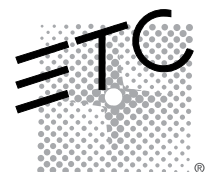
MODEL	DESCRIPTION
Net3 RFR	Net3 Radio Focus Remote
Net3 RFR-RX	Net3 Radio Focus Remote, Receiver Only
Net3 RFR-TX	Net3 Radio Focus Remote, Transmitter Only
Net3 RVI	Net3 Remote Video Interface (Element supports Mirror Mode* operation only)

*Mirror Mode provides remote display and paging of the same screens that are displayed on the console itself. Synchronized backup is provided by another Element console or a Nomad™.

Element supports two external monitors compatible with Windows 7, 1280x1024 minimum resolution, standard, touch or multi-touch. These may be two DVI or one DVI and one Display port

SHIPS WITH:

- Dust cover
- Mouse and mousepad



SPECIFICATIONS

SYSTEM CAPACITY

- 1,024 Outputs/Parameters
- 250 or 500 Channels
- 10,000 Cues
- One Cue List
- 4 x 1000 Palettes (Intensity, Focus, Color, Beam)
- 1,000 Groups
- 1,000 Effects (relative, absolute or step)
- 1,000 Macros
- 1,000 Snapshots
- 1,000 Color Paths
- Supports two external DVI monitors or one Display Port monitor with a minimum of 1280x1024 resolution, which may also be touch- or multi-touchscreens
- Solid-state hard drive
- USB ports for flashdrives, pointing devices, keyboards

DISPLAY FUNCTIONS

- All show data may be viewed on one or two external monitors. Views may be expanded across both from easily-accessed front-panel controls. Three user-configurable workspaces per display, with split screen/sizing controls
- The Central Information Area accesses:
 - Browser
 - File Management
 - System Setup
 - Network Configuration
 - Show Data Utilities
 - Printing
 - Record Target Lists
 - Patch functions
 - Help
 - Six Color Pickers and Gel Picker
 - On-Demand Moving Light Controls
 - Electronic alpha keyboard
 - Command Line
 - Selected Cue
 - Error messages and advisories
- Channel Displays
 - Live channel summary or table view
 - Blind cue, palette and submaster views in list, channel, table and spreadsheet formats
 - Flexi-channel to determine which channels to display
 - Zoom allows user to define how many channels are viewed
 - Color-coded intensity levels indicate direction of move
 - Color-coded non-intensity levels indicate change from previous state
 - Graphic differentiation of moving lights, single-parameter devices, unpatched channels and deleted channels
- Magic Sheets
 - User-definable interactive display layouts
 - Images and symbols may be imported

SPECIFICATIONS

- Patch Views
 - Patch by channel
 - Patch by address
 - Patch by Device List (RDM)
 - Assign proportional patch value, curve, preheat value for intensity
 - Swap pan and tilt
 - Invert pan and tilt
 - Custom fixture editor
- Playback Status Display
 - Graphic representation of cue list status and past and future cues
- Cue List Index
- Effects Editor
- Group Editor
- Park Display
- Dimmer Monitoring

PLAYBACK CONTROLS

- Master Playback crossfade pair with two 60mm potentiometers, Go, Stop/Back and Load buttons
- Grand Master with Blackout
- Playback fader controls include:
 - Timing Disable
 - Off
 - Release
 - Manual Override
 - Rate
- A maximum of 300 submasters (additive or inhibitive) via integral faders

MOVING LIGHT CONTROLS

- On-Demand Moving Light controls include labeling and current parameter value on connected display monitor
- Flip and Home functions
- Parameters selectable on screen for mouse-based or touchscreen control or command-line actions

MACROS

- May be set to play background or foreground
- Startup and shutdown Macros

SPECIFICATIONS

MANUAL CONTROL

- Channel selection from keypad
- Lists constructed with +, -, thru
- Intensity set with level wheel, keypad, “full” and “out”
- True LTP channel faders for direct hands-on intensity control
- Ordered groups
- Offset, including even, odd, random, reverse
- Sneak
- Remainder Dim and restore
- Home by parameter, parameter category or all non-intensity parameters
- Park at level
- Scaled park for temporary percentage adjustment
- ‘Recall’ from and ‘Copy’ to commands
- ‘About’ provides detailed view of selected channels or record targets
- Undo manual control, record, update and delete operations
- Lamp controls to strike, douse, calibrate fixtures

PROGRAMMING FEATURES

- Channel Functions
 - Non-Intensity parameters set via numeric entry or On-Demand Moving Light Controls
 - Color matching to gel selector
 - Color Path, color tinting and color spectrum tools.
- Palette Functions
 - Record and Update functions
 - Toggle display to absolute data
 - Up to 99 decimal values may be inserted between any two whole numbers
 - Selective store to refine contents of record targets
- Effects
 - Create live or blind
 - Pattern-based relative dynamic effects
 - Absolute effects
 - Step effects
 - Cycle time, trail and grouping determine channel distribution and behavior when moving through effect
 - Duration of infinite, a specific amount of time or number of passes through pattern
 - Effect attributes to modify basic behavior
 - Channel Level overrides
 - Cue Level overrides
 - Entry mode determines how parameters enter effects
 - Exit mode determines how parameters depart effects
- Cue Recording
 - Record tracking or cue-only
 - Auto-playback recorded cues

SPECIFICATIONS

- Auto-mark
- Block at cue, intensity or parameter level
- Follow times
- Out of sequence link
- Loop functions
- Preheat enable
- Twenty-part multi-part cues with default part assignment
- Cue level rate override
- Up to 99 decimal cues between every two complete numbered cues
- Execute List
 - Triggers macros with delay
 - Show-control triggers
 - Analog triggers
- Update and Update Trace functions
- Undo record and delete
- Submasters
 - Additive, inhibitive or effect submasters
 - Bump button timing to fade up, dwell and fade out
 - Exclusive and Shielded modes
 - Faders as progress controller or intensity master
 - Bump button to mark NPs
 - Priority status
- Curves
 - Assignable in patch to modify dimmer output ramp
 - Assignable at cue or cue part-level to modify intensity crossfade profile or non-intensity parameter ramping

INTERFACES

- Two DMX/RDM Ports
- Two Ethernet ports (ETCNet2™, Net3™, Artnet and Avab UDP output protocols)
- Contact Closure triggers via D-Sub connector
- Two DVI video connectors support two external DVI displays (1280x1024) with optional touch or multi-touch control
- One Display Port connector
- Seven multipurpose USB ports
- OSC Transmit/Receive
- UDP Transmit/Receive
- Net3 Radio Focus Remote
- MIDI In/Out (Timecode, Show Control)
- Additional MIDI/SMPTE Time Code and Show Control through Net3 Gateway
- Additional contact closure (12 analog inputs, 12 SPDT contact outputs, RS-232) through Net3 Gateway
- One eSATA port

ELECTRICAL

- AC input (100-240V at 50/60 Hz)
- 2A at 120V or 1A at 240V maximum power consumption

PHYSICAL

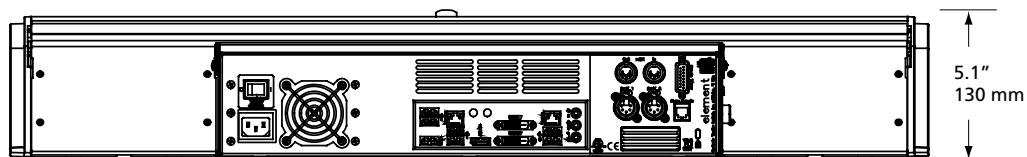
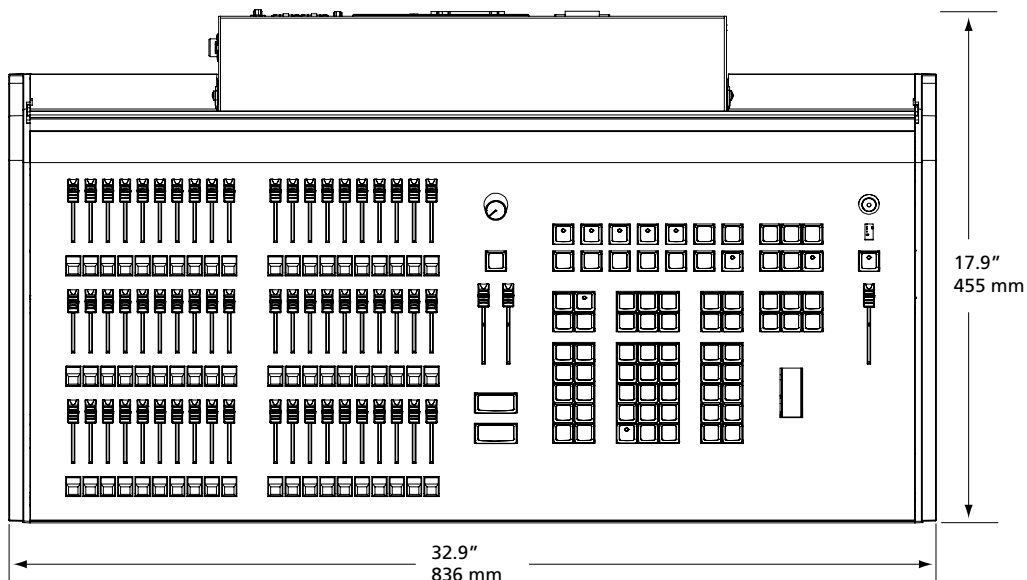
Element Console Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
Element Console	5.1	130	32.9	836	17.9	455

Element Console Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
Element Console	30	13.6	37.5	17

*Weights and dimensions typical



Corporate Headquarters • 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • Tel +1 608 831 4116 • Fax +1 608 836 1736
 London, UK • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • Tel +44 (0) 20 8896 1000 • Fax +44 (0) 20 8896 2000

Rome, IT • Via Pieve Torina, 48, 00156 Rome, Italy • Tel +39 (06) 32 111 683 • Fax +44 (0) 20 8752 8486

Holzkirchen, DE • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00

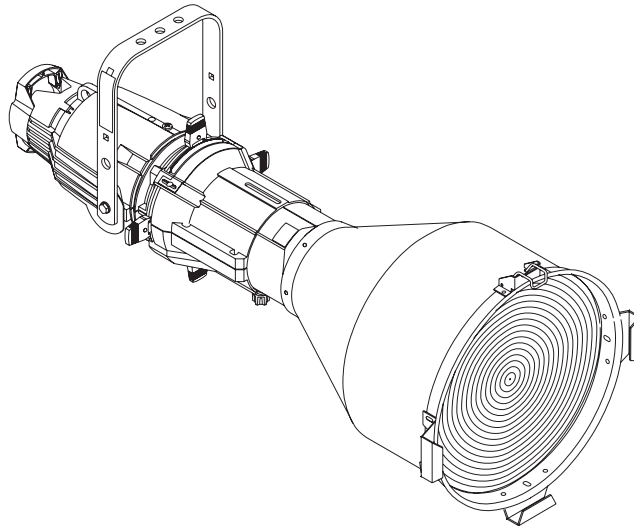
Hong Kong • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325

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100V 115/120V 230/240V

Ellipsoidal Series



SPECIFICATIONS

PHYSICAL

- Rugged, die cast aluminum construction
- Rotating shutter assembly $\pm 25^\circ$
- 20 gauge stainless steel shutters in a tri-plane assembly
- Interchangeable lens tubes with smooth-running teflon guides provide nine user-fit field angle options
- Thermally insulated rear handle
- High impact, thermally insulated knobs and shutter handles
- Two accessory slots and a top mounted, gel frame retainer
- Steel yoke with two mounting positions
- Positive locking single-clutch fixture body
- Slot for glass or stainless steel patterns
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- UL and cUL Listed

ELECTRICAL

- 115-240V, 50/60Hz
- High temperature 3-conductor 36" leads in a glass fiber outer sleeve.
- Supports ETC Dimmer Doubling™ technology

LAMP

- 750W maximum
- HPL – compact tungsten filament contained in a krypton-filled quartz envelope (see table for suitable lamp types)
- Patented filament geometry provides extremely efficient light collection and transmission
- Integral die cast aluminum heat sink lamp base

SPECIFICATIONS

OPTICAL

- Re-optimized optical system for improved photometric performance and field uniformity
- Faceted borosilicate reflector with dichroic cold mirror coating removes greater than 90% infrared radiation (heat) and reflects greater than 95% of visible light
- Reflector secured with anti-vibration shock mounts
- Micro-groove plastic fresnel lens
- Lens(es) secured with anti-vibration shock mounts
- Tool free, positive locking X, Y and Z lamp centering adjustments, unaffected by relamping
- Beam edge continually adjustable hard-to-soft
- Interchangeable lens barrels permit selection of 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70° and 90° field angles as well as 19°, 26°, 36°, and 50° EDLT lenses

ORDERING INFORMATION

Source Four

MODEL	DESCRIPTION
410	10° ellipsoidal (black)
410-1	10° ellipsoidal (white)

ETC Source Fours are supplied with C-clamp, color frame and 3' (96cm) leads as standard

Connector Designation

Use Suffixes below to specify Factory-Fitted Connector type

MODEL	DESCRIPTION
-A	Parallel-blade U-ground connector
-B	Two-pin and ground, 20 amp connector
-C	Grounded, 20 amp, twistlock connector
-M	Dimmer Doubling Connector (NEMA L515P)

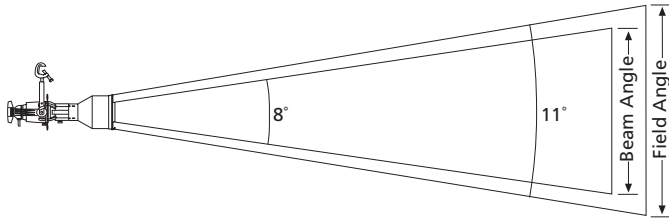
See back page for Source Four Accessories



Ellipsoidal Series

PHOTOMETRICS

Photometric data below is measured with an HPL 750W/115V 300 hr lamp. To convert data when using any other HPL lamp, use the lumen or candela multiplying factors (Lm MF or Cd MF) for that specific lamp, listed in the Lamps table in this datasheet. For lumen data, multiply by the Lm MF. For candela or footcandle data, multiply by the Cd MF.



Throw Distance (d)	45' 13.7m	70' 21.3m	100' 30.5m	125' 38.1m
Field Diameter	8.5' 2.6m	13.2' 4.0m	18.9' 5.8m	23.6' 7.2m
Illuminance (fc)	387	160	78	50
Illuminance (lux)	4,164	1,721	843	540

Source Four 10°(cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
10°	783,310	11,925	8,615	54.5%	15.9

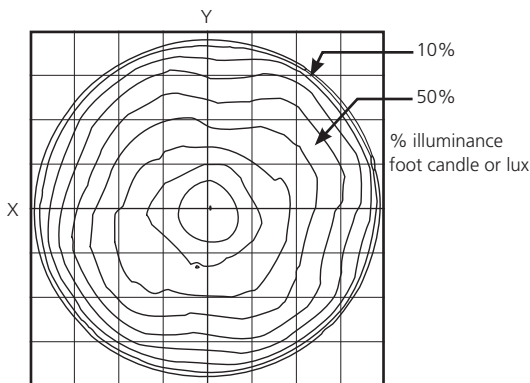
Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared.

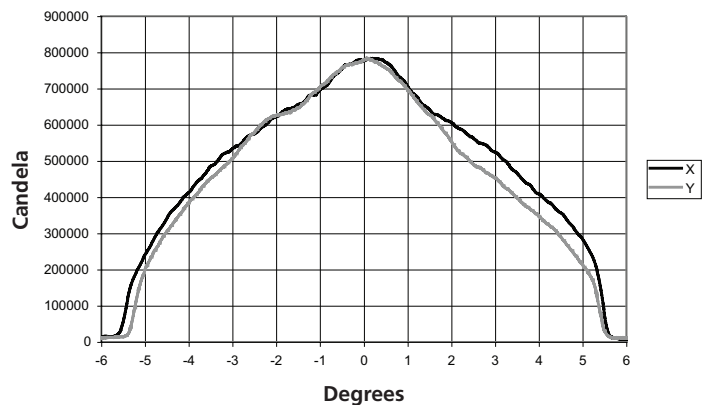
For Field diameter at any distance, multiply distance by .19

For Beam diameter at any distance, multiply distance by .14

Iso-Illuminance Diagram
(Flat Surface Distribution)



Cosine Candela Plot



Complete IES photometry data files (LM-63-02 format) may be downloaded from the ETC website.

Go to <http://www.etcconnect.com/downloads.asp>

Ellipsoidal Series

L A M P S

To determine Candela (Cd) or Lumens (Lm) for any other HPL lamp, multiply the Candela or Lumen value by the appropriate multiplying factor (CdMF or LmMF) shown for that lamp in the table below.

ETC Part #	Lamp Code	Watts	Volts	Initial Lumens	Color Temp. K	Average Rated Life	10° Cd MF	10° Lm MF
RT116	HPL 750/115**	750	115	21,900	3,250	300	1.00	1.00
RT196	HPL 750/115X	750	115	16,400	3,050	1,500	.64	.74
RT113	HPL 575/115**	575	115	16,520	3,250	300	.86	.82
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.56	.56
RT142	HPL 375/115	375	115	10,540	3,250	300	.72	.53
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.50	.40
N/A	HPL 750/120	750	120	21,900	3,250	300	1.00	1.00
N/A	HPL 750/120X	750	120	16,400	3,050	1,500	.64	.74
RT115	HPL 575/120	575	120	16,520	3,250	300	.86	.82
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.56	.56
RT112	HPL 550/77*	550	77	16,170	3,250	300	.87	.81
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.59	.56
RT160	HPL 750/230**	750	230	19,750	3,200	300	.77	.77
N/A	HPL 750/230X	750	230	15,600	3,050	1,500	.48	.61
RT129	HPL 575/230**	575	230	14,900	3,200	400	.65	.63
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.46	.46
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.36	.33
N/A	HPL 750/240	750	240	19,750	3,200	300	.77	.77
N/A	HPL 750/240X	750	240	15,600	3,050	1,500	.48	.61
RT130	HPL 575/240	575	240	14,900	3,200	400	.61	.63
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.43	.46
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.36	.33

Source Four is rated for 750W maximum

*77 Volt HPL lamps are for use with ETC Dimmer Doubling technology only

**Photometric data was prepared using a production fixture and the Prometric CCD measurement system. Fixture adjusted for cosine distribution and tested with calibrated lamp at rated voltage. All data normalized to nominal lamp lumens in accordance with IES LM-73-04. Testing performed at ETC West, Hollywood, CA. All other multiplying factors extrapolated from primary test data.

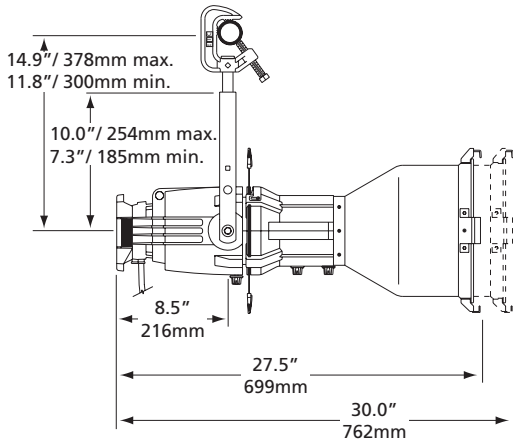
For links to photometry file downloads (IES LM-63-02 format) go to www.etconnect.com

HPL Specified Tolerances: Watts +/- 5%, Lumens +/-7%, Average life +/-10%, Color Temperature +/- 50K

"N/A" lamps are not available for purchase from ETC. Contact your Dealer for purchase.

Ellipsoidal Series

PHYSICAL



ORDERING INFORMATION

Continued from front page...

Source Four Accessories

MODEL	DESCRIPTION
410LT	10° lens tube with lens installed (black)
410LT-1	10° lens tube with lens installed (white)
400CC	C-clamp (included)
400PH-A	Pattern holder (A size)
400PH-B	Pattern holder (B size)
400PH-G	Glass pattern holder
400SC	Safety cable
400RS	Drop-in iris
410CF	Colorframe for 10° (12") (included)
410DN	Donut for 10° (12")
410TH	Top hat
410FB	Source Four Fixture Body, Double Clutch

Note: For colors other than black or white, please call ETC.

Source Four products are protected by one or more of the following patents:

U.S.	USRE36,3316, US5,345,371, US6,092,914 and US5,775,799
U.K.	GB0592589, GB0673488, 99930527.9*
Germany	DE0592589, GB0673488, 99930527.9*
Japan	JP2,501,772

* European patent application number

Source Four Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
10°	15	6.8	24	10.9

*Includes 2.3 lbs for C-clamp

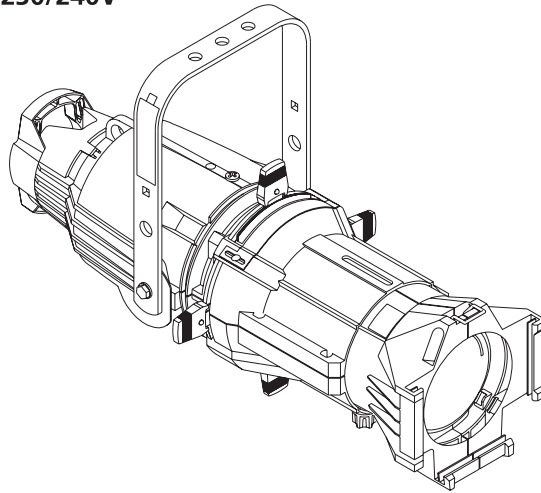


Corporate Headquarters • 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • Tel +1 608 831 4116 • Fax +1 608 836 1736
 London, UK • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • Tel +44 (0)20 8896 1000 • Fax +44 (0)20 8896 2000
 Rome, IT • Via Pieve Torina, 48, 00156 Rome, Italy • Tel +39 (06) 32 111 683 • Fax +44 (0)20 8752 8486
 Holzkirchen, DE • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00
 Hong Kong • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325
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100V 115/120V 230/240V

Ellipsoidal Series



SPECIFICATIONS

PHYSICAL

- Rugged, die cast aluminum construction
- Rotating shutter assembly $\pm 25^\circ$
- 20 gauge stainless steel shutters in a tri-plane assembly
- Interchangeable lens tubes with smooth-running teflon guides provide nine user-fit field angle options
- Thermally insulated rear handle
- High impact, thermally insulated knobs and shutter handles
- Two accessory slots and a top mounted, gel frame retainer
- Steel yoke with two mounting positions
- Positive locking single-clutch fixture body
- Slot for glass or stainless steel patterns
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- UL and cUL Listed

ELECTRICAL

- 115-240V, 50/60Hz
- High temperature 3-conductor 36" leads in a glass fiber outer sleeve
- Supports ETC Dimmer Doubling™ technology

LAMP

- 750W maximum
- HPL – compact tungsten filament contained in a krypton-filled quartz envelope (see table for suitable lamp types)
- Patented filament geometry makes for extremely efficient light collection and transmission
- Integral die cast aluminum heat sink lamp base

SPECIFICATIONS

OPTICAL

- Re-optimized optical system for improved photometric performance and field uniformity
- Projector-quality, high contrast aspheric lens
- Optional enhanced definition lens tube available for even higher image quality.
- Faceted borosilicate reflector with dichroic cold mirror coating removes greater than 90% infrared radiation (heat) and reflects greater than 95% of visible light
- Reflector secured with anti-vibration shock mounts
- Lens(es) secured with anti-vibration shock mounts
- Tool free, positive locking X, Y and Z lamp centering adjustments, unaffected by relamping
- Beam edge continually adjustable hard-to-soft
- Interchangeable lens barrels permit selection of 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70° and 90° field angles as well as 19°, 26°, 36°, and 50° EDLT lenses

ORDERING INFORMATION

Source Four

MODEL	DESCRIPTION
419	19° ellipsoidal (black)
419-1	19° ellipsoidal (white)

ETC Source Four are supplied with C-clamp, color frame and 3' (96cm) leads as standard

Connector Designation

Use Suffixes below to specify Factory-Fitted Connector type

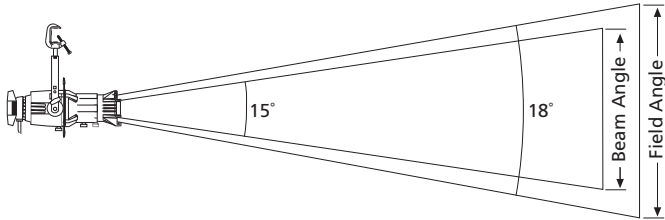
MODEL	DESCRIPTION
-A	Parallel-blade U-ground connector
-B	Two-pin and ground, 20 amp connector
-C	Grounded, 20 amp, twistlock connector
-M	Dimmer Doubling Connector (NEMA L515P)

See back page for Source Four Accessories



PHOTOMETRICS

Photometric data below is measured with an HPL 750W/115V 300 hr lamp. To convert data when using any other HPL lamp, use the lumen or candela multiplying factors (Lm MF or Cd MF) for that specific lamp, listed in the Lamps table in this datasheet. For lumen data, multiply by the Lm MF. For candela or footcandle data, multiply by the Cd MF.



Throw Distance (d)	25' 7.6m	40' 12.2m	55' 16.7m	70' 21.3m
Field Diameter	8' 2.4m	13' 3.9m	18' 5.4m	22' 6.8m
Illuminance (fc)	392	153	81	50
Illuminance (lux)	4,217	1,648	872	538

Source Four 19°(cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
19°	243,520	11,180	8,785	51.1%	14.9

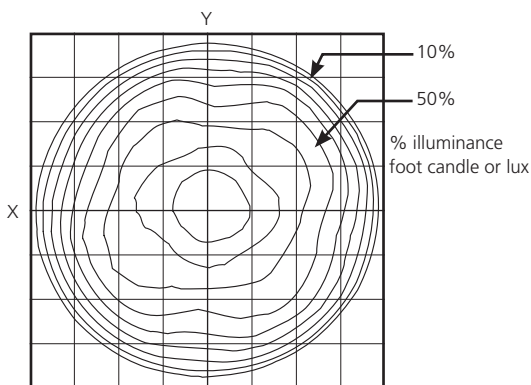
Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared.

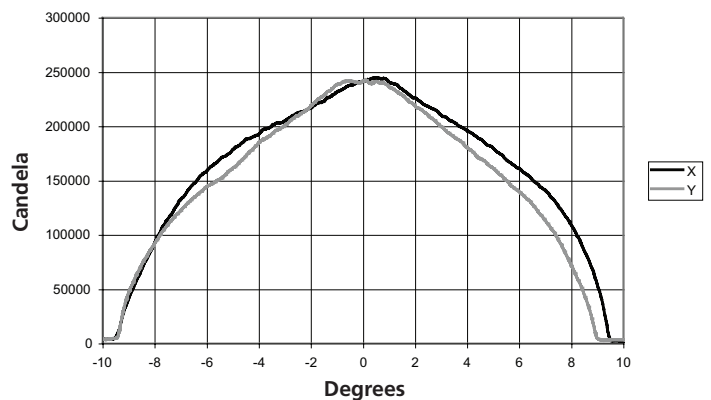
For Field diameter at any throw distance, multiply the throw distance by .32

For Beam diameter at any throw distance, multiply the throw distance by .26

Iso-Illuminance Diagram
(Flat Surface Distribution)



Cosine Candela Plot



Complete IES photometry data files (LM-63-02 format) may be downloaded from the ETC website.

Go to <http://www.etconnect.com/downloads.asp>

Ellipsoidal Series

L A M P S

To determine Candela (Cd) or Lumens (Lm) for any other HPL lamp, multiply the Candela or Lumen value by the appropriate multiplying factor (CdMF or LmMF) shown for that lamp in the table below.

ETC Part #	Lamp Code	Watts	Volts	Initial Lumens	Color Temp. K	Average Rated Life	19° Cd MF	19° Lm MF
RT116	HPL 750/115**	750	115	21,900	3,250	300	1.00	1.00
RT196	HPL 750/115X	750	115	16,400	3,050	1,500	.64	.74
RT113	HPL 575/115**	575	115	16,520	3,250	300	.85	.82
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.56	.56
RT142	HPL 375/115	375	115	10,540	3,250	300	.71	.53
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.49	.40
N/A	HPL 750/120	750	120	21,900	3,250	300	1.00	1.00
N/A	HPL 750/120X	750	120	16,400	3,050	1,500	.64	.74
RT115	HPL 575/120	575	120	16,520	3,250	300	.85	.82
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.56	.56
RT112	HPL 550/77*	550	77	16,170	3,250	300	.87	.81
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.59	.56
RT160	HPL 750/230**	750	230	19,750	3,200	300	.64	.70
N/A	HPL 750/230X	750	230	15,600	3,050	1,500	.40	.55
RT129	HPL 575/230**	575	230	14,900	3,200	400	.55	.53
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.38	.42
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.30	.28
N/A	HPL 750/240	750	240	19,750	3,200	300	.64	.70
N/A	HPL 750/240X	750	240	15,600	3,050	1,500	.40	.55
RT130	HPL 575/240	575	240	14,900	3,200	400	.52	.53
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.36	.42
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.30	.28

Source Four is rated for 750W maximum

*77 Volt HPL lamps are for use with ETC Dimmer Doubling technology only

**Photometric data was prepared using a production fixture and the Prometric CCD measurement system. Fixture adjusted for cosine distribution and tested with calibrated lamp at rated voltage. All data normalized to nominal lamp lumens in accordance with IES LM-73-04. Testing performed at ETC West, Hollywood, CA. All other multiplying factors extrapolated from primary test data.

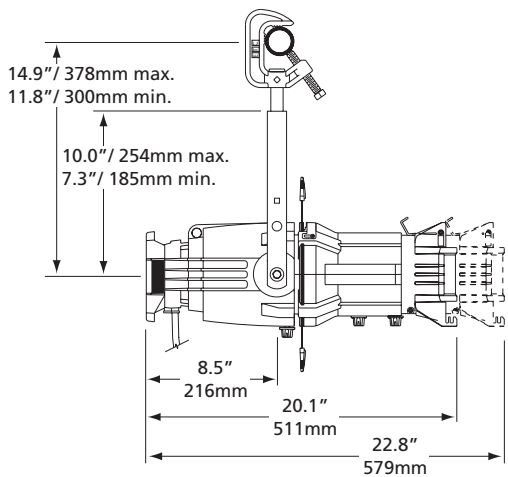
For links to photometry file downloads (IES LM-63-02 format) go to www.etconnect.com

HPL Specified Tolerances: Watts +/- 5%, Lumens +/-7%, Average life +/-10%, Color Temperature +/- 50K

"N/A" lamps are not available for purchase from ETC. Contact your Dealer for purchase.

Ellipsoidal Series

PHYSICAL



Source Four Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
19°	14	6.4	20	9.1

*Includes 2.3 lbs for C-clamp

ORDERING INFORMATION

Continued from front page...

Source Four Accessories

MODEL	DESCRIPTION
419LT	19° lens tube with lens installed (black)
419LT-1	19° lens tube with lens installed (white)
419EDLT	19° Enhanced Definition Lens Tube complete (black)
419EDLT-1	19° Enhanced Definition Lens Tube complete (white)
400CC	C-clamp (included)
400PH-A	Pattern holder (A size)
400PH-B	Pattern holder (B size)
400PH-G	Glass pattern holder
400SC	Safety cable
400RS	Drop-in iris
400CF	Colorframe (6.25") (included)
400DN	Donut (6.25")
400TH	Top hat
400HH	Half hat
400GE	Gel extender (Recommended for 19° and 26° only)
407GE	Conical gel extender (requires 407CF below)
407CF	7.5" Square color frame (Required for 14°, 70°, 90° and 407GE)
400FB	Source Four Fixture Body, Single Clutch

Note: For colors other than black or white, please call ETC.

Source Four products are protected by one or more of the following patents:

U.S.	USRE36,3316, US5,345,371, US6,092,914 and US5,775,799
U.K.	GB0592589, GB0673488, 99930527.9*
Germany	DE0592589, GB0673488, 99930527.9*
Japan	JP2,501,772

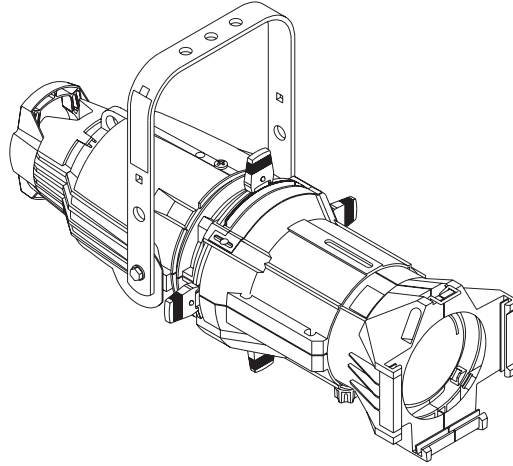
* European patent application number





100V 115/120V 230/240V

Ellipsoidal Series



SPECIFICATIONS

PHYSICAL

- Rugged, die cast aluminum construction
- Rotating shutter assembly $\pm 25^\circ$
- 20 gauge stainless steel shutters in a tri-plane assembly
- Interchangeable lens tubes with smooth-running teflon guides provide nine user-fit field angle options
- Thermally insulated rear handle
- High impact, thermally insulated knobs and shutter handles
- Two accessory slots and a top mounted, gel frame retainer
- Steel yoke with two mounting positions
- Positive locking single-clutch fixture body
- Slot for glass or stainless steel patterns
- Wide accessory slot with sliding cover for motorized pattern devices or optional iris
- UL and cUL Listed

ELECTRICAL

- 115-240V, 50/60Hz
- High temperature 3-conductor 36" leads in a glass fiber outer sleeve
- Supports ETC Dimmer Doubling™ technology

LAMP

- 750W maximum
- HPL – compact tungsten filament contained in a krypton-filled quartz envelope (see table for available lamp options)
- Patented filament geometry makes for extremely efficient light collection and transmission
- Integral die cast aluminum heat sink lamp base

SPECIFICATIONS

OPTICAL

- Re-optimized optical system for improved photometric performance and field uniformity
- Projector-quality, high contrast aspheric lens
- Optional enhanced definition lens tube available for even higher image quality
- Faceted borosilicate reflector with dichroic cold mirror coating removes greater than 90% infrared radiation (heat) and reflects greater than 95% of visible light
- Reflector secured with anti-vibration shock mounts
- Lens(es) secured with anti-vibration shock mounts
- Tool free, positive locking X, Y and Z lamp centering adjustments, unaffected by relamping
- Beam edge continually adjustable hard-to-soft
- Interchangeable lens barrels permit selection of 5°, 10°, 14°, 19°, 26°, 36°, 50°, 70°, and 90° field angles as well as 19°, 26°, 36°, and 50° EDLT lenses

ORDERING INFORMATION

Source Four

MODEL	DESCRIPTION
426	26° ellipsoidal (black)
426-1	26° ellipsoidal (white)

ETC Source Four are supplied with C-clamp, color frame and 3' (96cm) leads as standard

Connector Designation

Use Suffixes below to specify Factory-Fitted Connector type

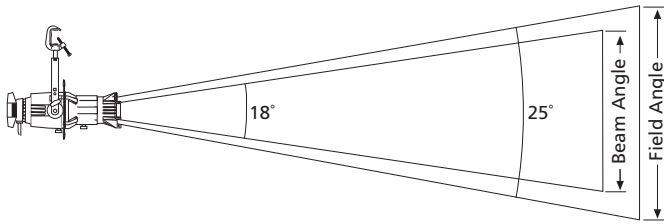
MODEL	DESCRIPTION
-A	Parallel-blade U-ground connector
-B	Two-pin and ground, 20 amp connector
-C	Grounded, 20 amp, twistlock connector
-M	Dimmer Doubling Connector (NEMA L515P)

See back page for Source Four Accessories



PHOTOMETRICS

Photometric data below is measured with an HPL 750W/115V 300 hr lamp. To convert data when using any other HPL lamp, use the lumen or candela multiplying factors (Lm MF or Cd MF) for that specific lamp, listed in the Lamps table in this datasheet. For lumen data, multiply by the Lm MF. For candela or footcandle data, multiply by the Cd MF.



Throw Distance (d)	15' 4.6m	30' 9.1m	45' 13.7m	60' 18.1m
Field Diameter	6.7' 2.0m	13.4' 4.1m	20.1' 6.1m	26.8' 8.2m
Illuminance (fc)	783	196	87	49
Illuminance (lux)	8,432	2,108	937	527

Source Four 26°(cosine)

Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
26°	176,255	13,690	9,040	62.5%	18.3

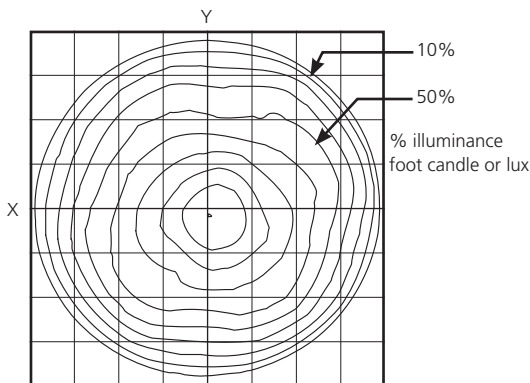
Metric Conversions: For meters, multiply feet by .3048
For Lux multiply footcandles by 10.76

To determine center beam illumination in footcandles at any throw distance, divide candela by the throw distance squared.

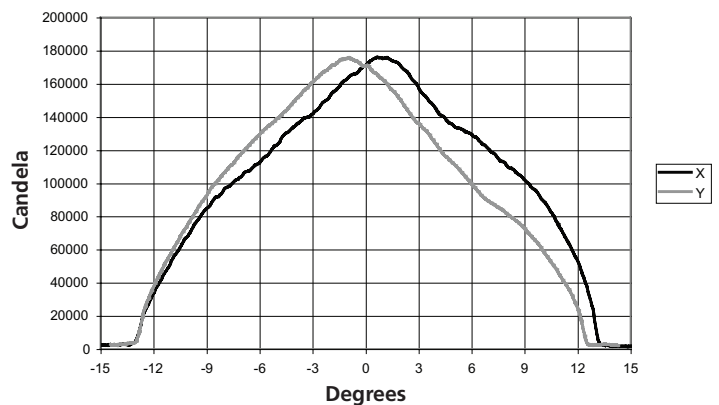
For Field diameter at any throw distance, multiply the throw distance by .45

For Beam diameter at any throw distance, multiply the throw distance by .32

Iso-Illuminance Diagram
(Flat Surface Distribution)



Cosine Candela Plot



Complete IES photometry data files (LM-63-02 format) may be downloaded from the ETC website.

Go to <http://www.etcconnect.com/downloads.asp>

Ellipsoidal Series

L A M P S

To determine Candela (Cd) or Lumens (Lm) for any other HPL lamp, multiply the Candela or Lumen value by the appropriate multiplying factor (CdMF or LmMF) shown for that lamp in the table below.

ETC Part #	Lamp Code	Watts	Volts	Initial Lumens	Color Temp. K	Average Rated Life	26° Cd MF	26° Lm MF
RT116	HPL 750/115**	750	115	21,900	3,250	300	1.00	1.00
RT196	HPL 750/115X	750	115	16,400	3,050	1,500	.64	.74
RT113	HPL 575/115**	575	115	16,520	3,250	300	.78	.82
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.56	.56
RT142	HPL 375/115	375	115	10,540	3,250	300	.66	.52
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.45	.40
N/A	HPL 750/120	750	120	21,900	3,250	300	1.00	1.00
N/A	HPL 750/120X	750	120	16,400	3,050	1,500	.64	.74
RT115	HPL 575/120	575	120	16,520	3,250	300	.78	.82
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.56	.56
RT112	HPL 550/77*	550	77	16,170	3,250	300	.77	.77
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.59	.56
RT160	HPL 750/230**	750	230	19,750	3,200	300	.64	.75
N/A	HPL 750/230X	750	230	15,600	3,050	1,500	.40	.59
RT129	HPL 575/230**	575	230	14,900	3,200	400	.53	.61
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.38	.45
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.29	.32
N/A	HPL 750/240	750	240	19,750	3,200	300	.64	.75
N/A	HPL 750/240X	750	240	15,600	3,050	1,500	.40	.59
RT130	HPL 575/240	575	240	14,900	3,200	400	.50	.61
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.36	.45
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.29	.32

Source Four is rated for 750W maximum

*77 Volt HPL lamps are for use with ETC Dimmer Doubling technology only

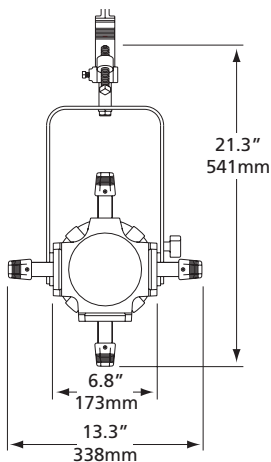
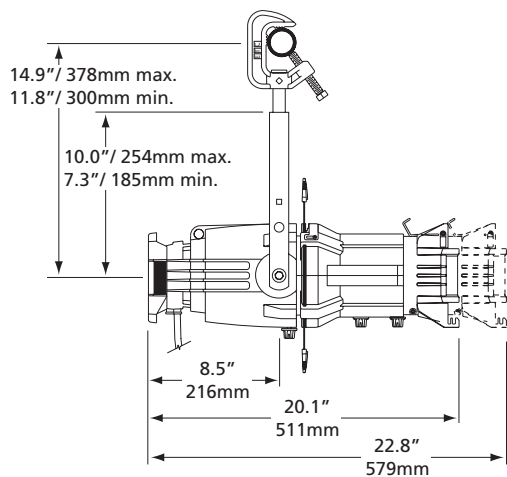
**Photometric data was prepared using a production fixture and the Prometric CCD measurement system. Fixture adjusted for cosine distribution and tested with calibrated lamp at rated voltage. All data normalized to nominal lamp lumens in accordance with IES LM-73-04. Testing performed at ETC West, Hollywood, CA. All other multiplying factors extrapolated from primary test data.

For links to photometry file downloads (IES LM-63-02 format) go to www.etcconnect.com

HPL Specified Tolerances: Watts +/- 5%, Lumens +/-7%, Average life +/-10%, Color Temperature +/- 50K

"N/A" lamps are not available for purchase from ETC. Contact your Dealer for purchase.

PHYSICAL



Source Four Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
26°	14	6.4	20	9.1

*Includes 2.3 lbs for C-clamp

ORDERING INFORMATION

Continued from front page...

Source Four Accessories

MODEL	DESCRIPTION
426LT	26° lens tube complete (black)
426LT-1	26° lens tube complete (white)
426EDLT	26° Enhanced Definition Lens Tube complete (black)
426EDLT-1	26° Enhanced Definition Lens Tube complete (white)
400CC	C-clamp (included)
400PH-A	Pattern holder (A size)
400PH-B	Pattern holder (B size)
400PH-G	Glass pattern holder
400SC	Safety cable
400RS	Drop-in iris
400CF	Colorframe (6.25") (included)
400DN	Donut (6.25")
400TH	Top hat
400HH	Half hat
400GE	Gel extender (Recommended for 19° and 26° only)
407GE	Conical gel extender (requires 407CF below)
407CF	7.5" Square color frame (required for 14°, 70°, 90° and 407GE)
400FB	Source Four fixture body, single clutch

Note: For colors other than black or white, please call ETC.

Source Four products are protected by one or more of the following patents:

U.S.	USRE36,3316, US5,345,371, US6,092,914 and US5,775,799
U.K.	GB0592589, GB0673488, 99930527.9*
Germany	DE0592589, GB0673488, 99930527.9*
Japan	JP2,501,772

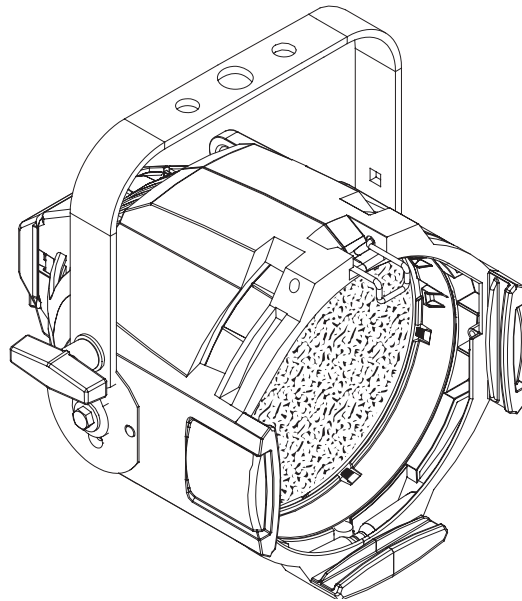
* European patent application number





100V 115/120V 230/240V

PAR Series



SPECIFICATIONS

PHYSICAL

- Rugged die-cast aluminum construction
- High-impact, thermally insulated precision focus knob
- Sealed reflector housing
- Reflector temperature control through integral heat sink fins
- Gel frame holders with two accessory slots
- Top-mounted, gel-frame retainer
- Steel yoke with two mounting positions
- Positive locking yoke clutch
- UL and cUL Listed

ELECTRICAL

- 115-240V, 50/60Hz
- High-temperature three-conductor 36" leads in a glass fiber outer sleeve
- Supports ETC Dimmer Doubling™ technology

LAMP

- HPL – compact tungsten filament contained in a krypton/xenon-filled quartz envelope (see table for suitable lamp types)
- 750W maximum
- Patented filament geometry makes for extremely efficient light collection and transmission
- Integral die-cast aluminum heat sink lamp base

LENSES

- Patented wave lens system
- Two heat resistant borosilicate glass lenses
- One fixed wave clear lens and one rotatable wave stippled lens installed
- Tool free front lens changing
- Thermally insulated lens ring

SPECIFICATIONS

OPTICAL

- Integral 24° – 47° spot to flood adjustment
- Modified parabolic and multifaceted reflector
- Computer designed reflector facets molded directly into heat sink casting, finished with an enhanced aluminum deposition process, and polished for maximum reflectance

ORDERING INFORMATION

Source Four PARnel

MODEL	DESCRIPTION
PARnel	Source Four PARnel (Black)
PARnel-1	Source Four PARnel (White)

ETC Source Four PARnel are supplied with a color frame and 3' (96cm) lead as standard

Connector Designation

Use Suffixes below to specify Factory-Fitted Connector type

MODEL	DESCRIPTION
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling Connector (NEMA L515P)

See back page for Source Four PAR Accessories



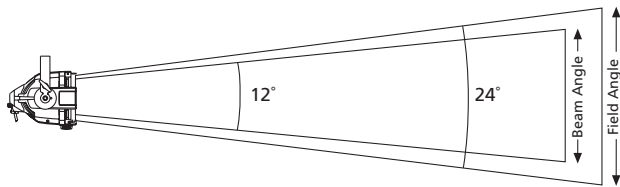
PHOTOMETRICS

Photometric data below is measured with an HPL 750W/115V 300 hr lamp. To convert data when using any other HPL lamp, use the lumen or candela multiplying factors (Lm MF or Cd MF) for that specific lamp. These multiplying factors are listed in the Lamps table in this datasheet. For lumen data, multiply by the Lm MF. For candela or footcandle data, multiply by the Cd MF.

Source Four PARnel - Spot Focus

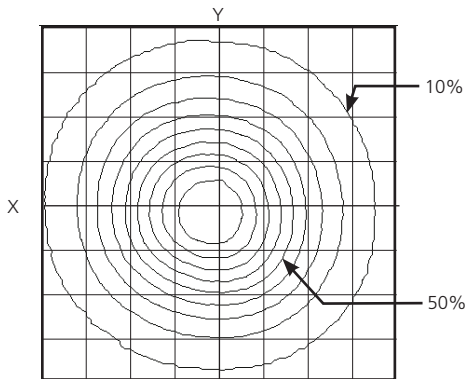
Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
Spot	190,390	9,135	4,610	41.7%	12.2

For Field diameter at any distance, multiply distance by 0.42
 For Beam diameter at any distance, multiply distance by 0.21

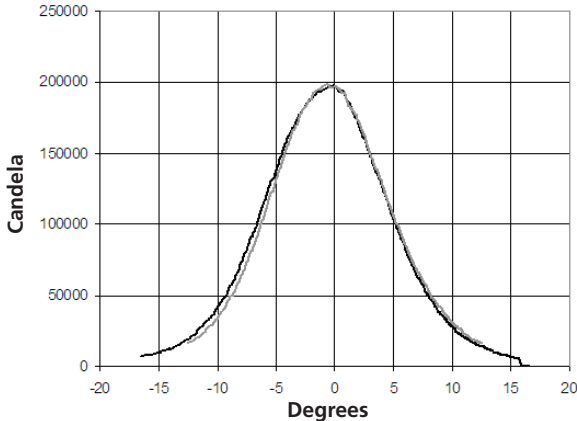


Throw Distance (d)	20.0'	35.0'	50.0'	60.0'
	6.1m	10.7m	15.2m	18.3m
Field Diameter	8.4'	14.7'	20.9'	25.1'
	2.6m	4.5m	6.4m	7.7m
Illuminance (fc)	476	155	76	53
Illuminance (lux)	5,123	1,673	820	569

Iso-Illuminance Diagram (Flat Surface Distribution)



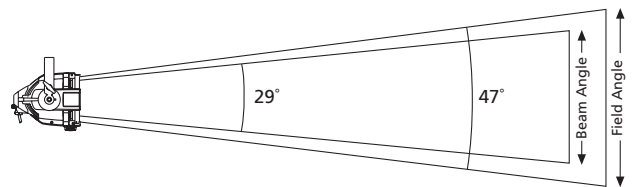
Candela Plot



Source Four PARnel - Flood Focus

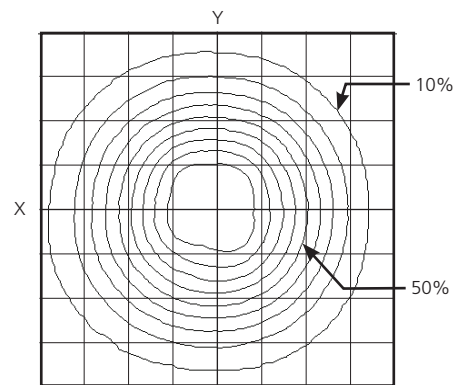
Degree	Candela	Field Lumens	Beam Lumens	Efficiency	Lumens per watt
Flood	47,050	10,560	6,440	48.2%	14.1

For Field diameter at any distance, multiply distance by 0.87
 For Beam diameter at any distance, multiply distance by 0.52

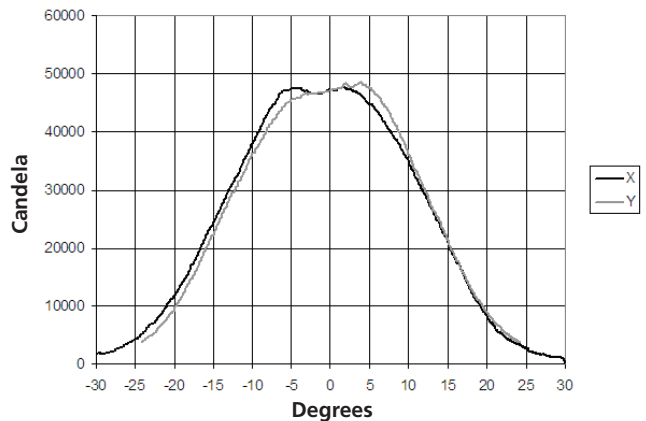


Throw Distance (d)	10.0'	15.0'	20.0'	30.0'
	3.0m	4.6m	6.1m	9.1m
Field Diameter	8.7'	13.0'	17.3'	26.0'
	2.6m	4.0m	5.3m	7.9m
Illuminance (fc)	471	209	118	52
Illuminance (lux)	5,065	2,251	1266	563

Iso-Illuminance Diagram (Flat Surface Distribution)



Candela Plot



PAR Series

LAMP S

To determine Candela (Cd) or Lumens (Lm) for any other HPL lamp, multiply the Candela or Lumen value by the appropriate multiplying factor (CdMF or LmMF) shown for that lamp in the table below.

ETC Part #	Lamp Code	Watts	Volts	Initial Lumens	Color Temp. K	Avg. Rated Life	Spot Cd MF	Spot Lm MF	Flood Cd MF	Flood Lm MF
RT116	HPL 750/115**	750	115	21,900	3,250	300	1.00	1.00	1.00	1.00
RT196	HPL 750/115X	750	115	16,400	3,050	1,500	.64	.74	.64	.74
RT113	HPL 575/115**	575	115	16,520	3,250	300	.82	.75	.78	.76
RT114	HPL 575/115X	575	115	12,360	3,050	2,000	.56	.56	.56	.56
RT142	HPL 375/115	375	115	10,540	3,250	300	.69	.48	.66	.49
RT143	HPL 375/115X	375	115	8,500	3,050	1,000	.48	.36	.45	.37
N/A	HPL 750/120	750	120	21,900	3,250	300	1.00	1.00	1.00	1.00
N/A	HPL 750/120X	750	120	16,400	3,050	1,500	.64	.74	.64	.74
RT115	HPL 575/120	575	120	16,520	3,250	300	.82	.75	.78	.76
RT171	HPL 575/120X	575	120	12,360	3,050	2,000	.56	.56	.56	.56
RT112	HPL 550/77*	550	77	16,170	3,250	300	.84	.74	.80	.75
RT117	HPL 550/77X*	550	77	12,160	3,050	2,000	.59	.56	.59	.56
RT160	HPL 750/230**	750	230	19,750	3,200	300	.78	.86	.81	.84
N/A	HPL 750/230X	750	230	15,600	3,050	1,500	.49	.68	.50	.66
RT129	HPL 575/230**	575	230	14,900	3,200	400	.64	.65	.62	.64
RT138	HPL 575/230X	575	230	11,780	3,050	1,500	.47	.52	.49	.50
RT154	HPL 375/230X	375	230	7,800	3,050	1,000	.35	.34	.34	.33
N/A	HPL 750/240	750	240	19,750	3,200	300	.78	.86	.81	.84
N/A	HPL 750/240X	750	240	15,600	3,050	1,500	.49	.68	.50	.66
RT130	HPL 575/240	575	240	14,900	3,200	400	.61	.65	.59	.64
RT139	HPL 575/240X	575	240	11,780	3,050	1,500	.44	.52	.45	.50
RT155	HPL 375/240X	375	240	7,800	3,050	1,000	.35	.34	.34	.33

Source Four PARnels rated for 750W maximum.

*77 Volt HPL lamps are for use with ETC Dimmer Doubling technology only.

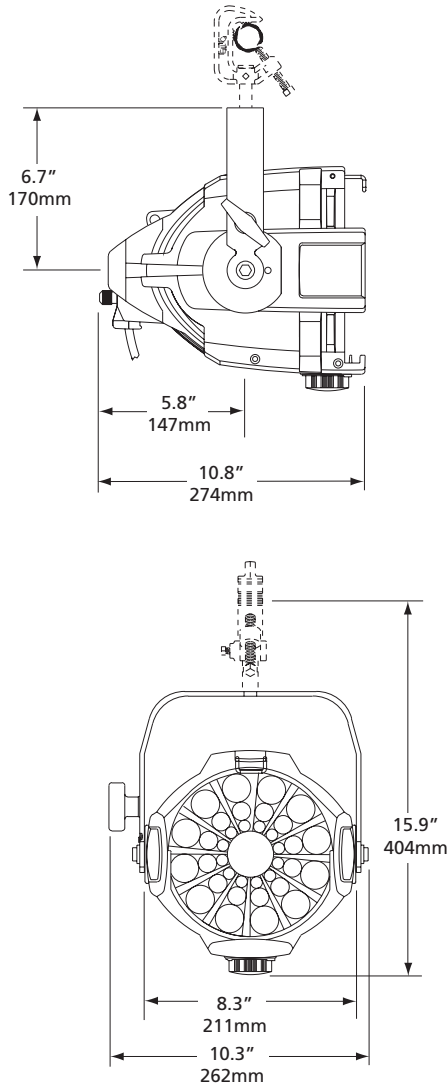
**Photometric data was prepared using a production fixture and the Prometric CCD measurement system. Fixture adjusted for cosine distribution and tested with calibrated lamp at rated voltage. All data normalized to nominal lamp lumens in accordance with IES LM-73-04. Testing performed at ETC West, Hollywood, CA. All other multiplying factors extrapolated from primary test data.

For links to photometry file downloads (IES LM-63-02 format) go to www.etconnect.com.

HPL Specified Tolerances: Watts +/- 5%, Lumens +/-7%, Average life +/-10%, Color Temperature +/- 50K

"N/A" lamps are not available for purchase from ETC. Contact your Dealer for purchase.

PHYSICAL



ORDERING INFORMATION

Continued from front page...

Source Four PARNel Accessories

MODEL	DESCRIPTION
407CF	Color frame (7.5") (included)
400SC	Safety Cable
400CC	C-Clamp
400PTH3	Top hat, 3"
400PTH6	Top hat, 6"
400PHH	Half hat
400XBTH	Cross baffle top hat
400PGE3	Gel extender, 3"
400PGE6	Gel extender, 6"
400BD	Barn door
400L	Egg crate louver
400WB	Weighted base

Note: For colors other than black and white, please call ETC.

Source Four products are protected by one or more of the following patents:

U.S.	USRE36,3316, US5,345,371, US6,092,914 and US5,775,799
U.K.	GB0592589, GB0673488, 99930527.9*
Germany	DE0592589, GB0673488, 99930527.9*
Japan	JP2,501,772

* European patent application number

Source Four PARNel Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
PARNel	8	3.6	12.8	5.8

*Add 2.3 lbs for C-clamp



Corporate Headquarters • 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • Tel +1 608 831 4116 • Fax +1 608 836 1736
 London, UK • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • Tel +44 (0)20 8896 1000 • Fax +44 (0)20 8896 2000
 Rome, IT • Via Pieve Torina, 48, 00156 Rome, Italy • Tel +39 (06) 32 111 683 • Fax +44 (0)20 8752 8486
 Holzkirchen, DE • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00
 Hong Kong • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325
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JEM ZR45

The JEM™ ZR45 is a high-end fog machine designed to deliver superior and uninterrupted performance in demanding professional applications. Via its enhanced and powerful 2,000 W heat exchanger, the JEM ZR45 produces an exceptional peak output ideal for major venues and stages in both install and rental markets. The rugged yet weight-optimized JEM ZR45 also features variable output control for more subtle effects and is fully up-to-date with digital remote, DMX and RDM. The entire JEM ZR range is compatible with a wide range of JEM Pro fog fluids. As machines designed and built to last, the JEM ZRs will continue to perform with great output and low consumption.

High endurance high-end fog machine

Exceptional performance and output

Various control options via digital remote, DMX and RDM

GALLERY



FEATURES

- 2,000 W (EU model) / 1,800 W (US model) heat exchanger
- 80 ml in 30 seconds peak performance
- 1300 m³/min fog output
- Variable output control for subtle effects
- 9-10 minute warm-up time
- Digital remote, DMX and RDM
- Compatible with a wide range of JEM Pro fog fluids
- Floor standing or truss mounting (bracket included)
- PowerCON TRUE1
- 5-liter bottle

TECHNICAL SPECIFICATIONS

Physical

Length: 602 mm (23.1 in.)
 Width: 395 mm (15.6 in.)
 Height: 306 mm (12.1 in.)
 Height including hanging bracket: 393 mm (15.5 in.)
 Weight, dry: 17.7 kg (39.1 lb.)
 Weight, filled: 22.7 kg (50 lbs.)

Performance

Coverage volume: 1300 m³ (45,909 ft³) per minute
 Fluid consumption (max.): 210 ml per minute
 Continuous effect output
 Ready time: 10 minutes

Control and Programming

Control options: Integrated digital remote control, DMX, master/slave link mode, optional PLC interface
 Control parameters: Continuous or timer-controlled output
 Fog: Variable output control, 0-100%
 DMX channels: 1
 DMX compliance: ANSI E1.11 - USITT DMX512-A
 RDM compliance: ANSI/ESTA E1.20 RDM

Construction

Housing: Steel and aluminum
 Hanging bracket: Integrated yoke w/safety attachment point
 Color: Black

Heat exchanger (US model): 1800 W, thermally protected
Heat exchanger (EU model): 2000 W, thermally protected
Fluid pump: Dual oscillating piston, high pressure
Fluid management: Fluid out sensing, sealed for transportation
Fluid reservoir: 5 l drop-in reservoir with quick-connect fitting
External fluid control: Fluid sensing
Remote control: Integrated Digital Remote with 3 m cable, 3-pin XLR

Installation

Mounting: Standing or hanging
Orientation: Up to +/- 40° from horizontal
Clearance around machine: 100 mm (4 in.)

Connections

AC Power: Neutrik PowerCON TRUE1
DMX, link mode in/out: 5-pin locking XLR
Remote control: 3-pin locking XLR
Firmware: AVR socket
Optional PLC interface: 3- and 4-pin locking XLR

Electrical

EU model:

AC power: 220-240 V nominal, 50/60 Hz
Main fuse: 12.5 AT (slow blow), 250 V
Typical power and current: 2100 W, 9.2 A*

US model:

AC power: 100-130 V nominal, 50/60 Hz
Main fuse: 20 AT (slow blow), 125 V
Typical power and current: 1800 W, 15 A*

*Measurements made at nominal voltage. Allow for a deviation of +/- 10%.

Thermal

Maximum ambient temperature (Ta max.): 40° C (104° F)
Exterior surface temperature, steady state: 30° C (86° F)
Max. nozzle temperature: 290° C (554° F)
Minimum ambient temperature (Ta min.): 5° C (41° F)

Approvals

EU model
EU safety: EN 60335-1+A15, EN 62233
EU EMC: EN 61000-6-3
EU immunity: EN 61000-6-1
Australia/NZ (pending): RCM

US model

US safety: UL 998
Canadian safety: CSA C22.2 No. 104.01

Included Items

Fluid reservoir, 5 l: P/N 34300506
JEM™ ZR Series Digital Remote Control: P/N 92765048
Power input cable, EU, powerCON TRUE1, stripped ends, 3 m (9.8 ft.): P/N 11501043
Power input cable, US, 20A, powerCON TRUE1, molded NEMA 5-20P, 2 m (6.6 ft.): P/N 11501046

Accessories

JEM™ ZR45 Ducting System with 5 m (16.4 ft.) ducting: P/N 92625014
JEM™ ZR Series PLC Interface: P/N 92765049

Approved fluids

JEM™ Pro Smoke Studio
JEM™ Pro Smoke Super
JEM™ Pro Smoke High Density
JEM™ I-Fog Fluid
JEM™ Pro Steam Simulation
RUSH™ Fog Fluid
JEM™ Pro Clean Supreme
Various sizes available - contact your dealer or see 'Fluids' product pages for details

Installation hardware

G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007
Safety cable, SWL 60 kg, BGV C1/ DGUV 17, black: P/N 91604006

Service tools

Epsilon 5 AVR Programmer: P/N 50502004
Temperature Calibration Box: P/N 92620005

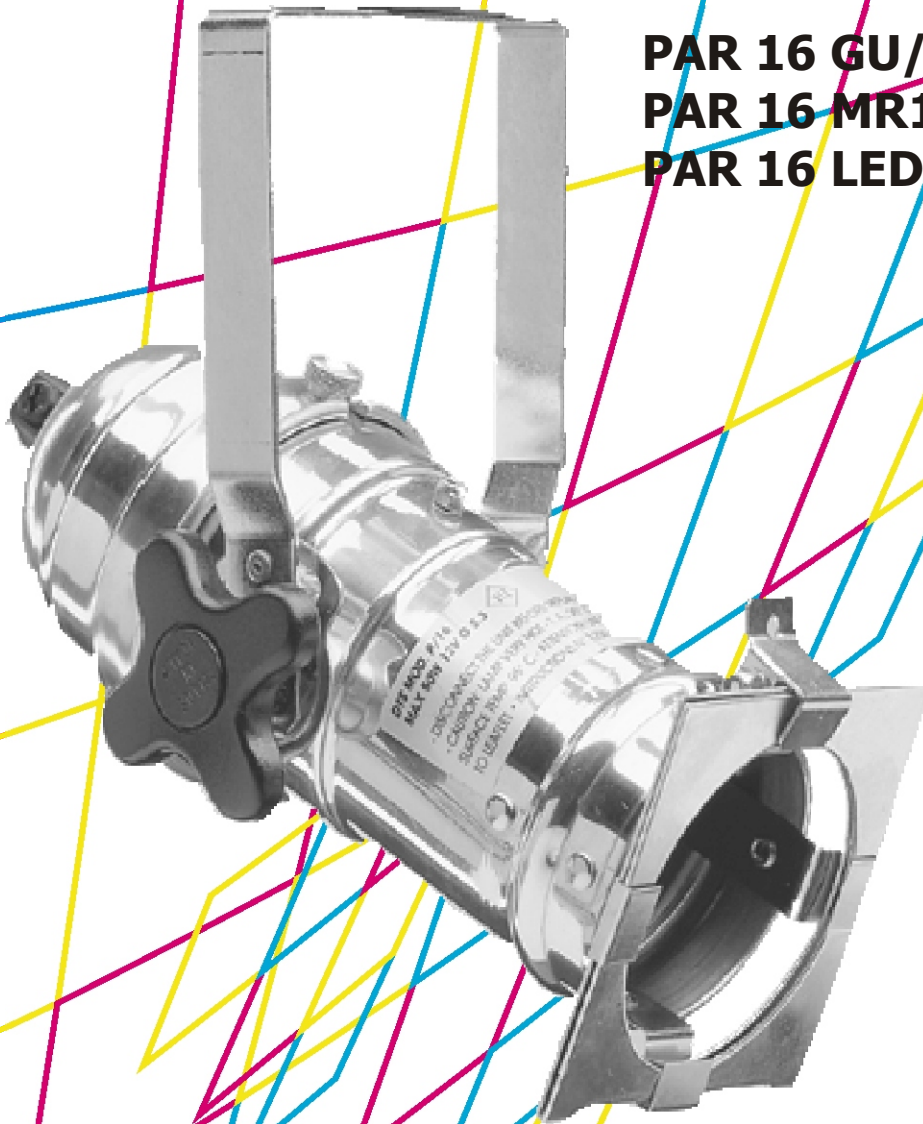
Ordering Information

JEM™ ZR45, EU: P/N 92215360
JEM™ ZR45, US: P/N 92215370



PAR16

PAR 16 GU/GZ 10
PAR 16 MR16 GX5,3 12V
PAR 16 LED



03.P16.02.01.01
PAR 16 CLASSIC GU/GZ10 BLACK
+SOCKETS KIT

03.P16.02.02.01
PAR 16 CLASSIC GU/GZ10 LUX
+SOCKETS KIT

User's Manual Rel 2.0 GB

D.T.S. Illuminazione srl - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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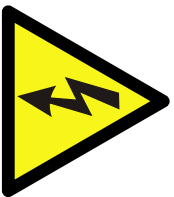
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SYMBOLS

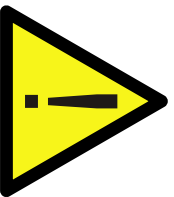
Graphic symbols used on this manual



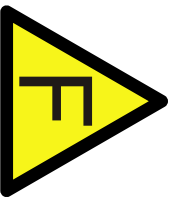
THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



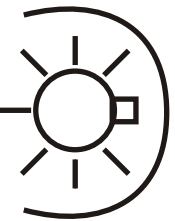
THIS SYMBOL MEANS: "THE UNIT MAY BE INSTALLED ON NORMAL INFLAMMABLE SURFACES"



THIS SYMBOL MEANS: "CLASS III DEVICE, DO NOT APPLY MORE THAN 12V~"



THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT



THIS SYMBOL MEANS: "USE ONLY LOW-PRESSURE LAMPS ACCORDING TO LOCAL REGULATIONS"

GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The device is not for domestic use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before replacing the lamp.

The lamp must be replaced if it has been damaged or deformed by prolonged use or overheating.

The PAR16 with GU10/GZ-10 lamp socket must always be equipped with an efficient ground connection.

TECHNICAL FEATURES

The PAR16 CLASSIC GU/GZ10 is a projector for MR 16 lamps, with classic shape in 2 sections, with square filter frame and polished finishing.

The projector is available also with black finishing.

D.T.S. uses top-quality 99/5 aluminium with a 20/10 thickness for its can bodies, offering greater strength and incredible resistance to knocks and heat, together with a superior polish.

The edge is not sharp and is therefore safer; it is stronger and conveys extra strength to the body; it is better finished, making the PAR 16 more elegant.

The PAR16 is fitted with an internal safety cable between rear and front.

The internal plate + clutch system of the PAR16 is preferable to other systems that corrode aluminium or don't offer a good grip. This ensures safer operation because it permits 0° ÷ 90° rotation (as requested by international safety standards) and the par can cannot take up positions that are hazardous for the inflammable surfaces above the par can itself.

Unlike ordinary par cans, the gelatine bearing hooks are spoked to better adhere to the body, thereby ensuring greater strength and indeformability.

The projector is fitted with a GU10/GZ10 lamp socket for 230V halogen lamp (max 50W).

Within unit box is provided a GX5.3 lamp socket (with cables) for Low Tension 12V~MR16 halogen lamp (max 50W).

The projector is also provided with a LED lens holder for DTS MR16 LED lamps (no MR16 LED lamp unit included).

Protection

Ip20 protection level against the penetration of solids and liquids

Construction

PAR16 is made on aluminium

Thermal

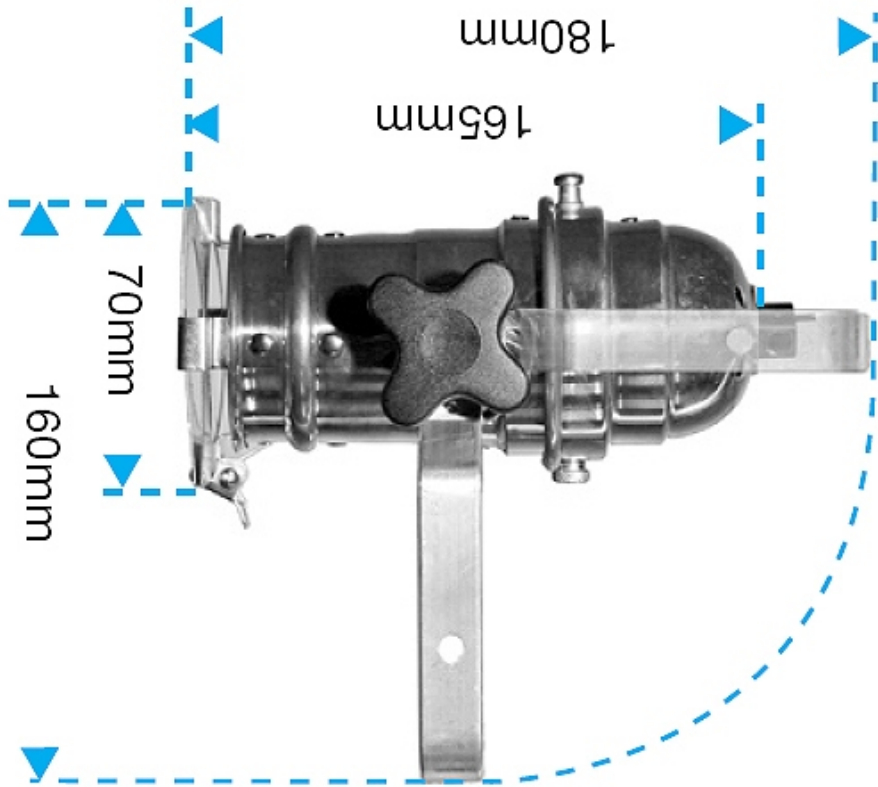
Operating ambient temperature:

PAR16 CLASSIC GU/GZ10, PAR16 CLASSIC GX5.3 -10° / 25°
PAR16 LED -10° / 40°

Weight

0,2 kg

Dimensions



ACCESSORIES

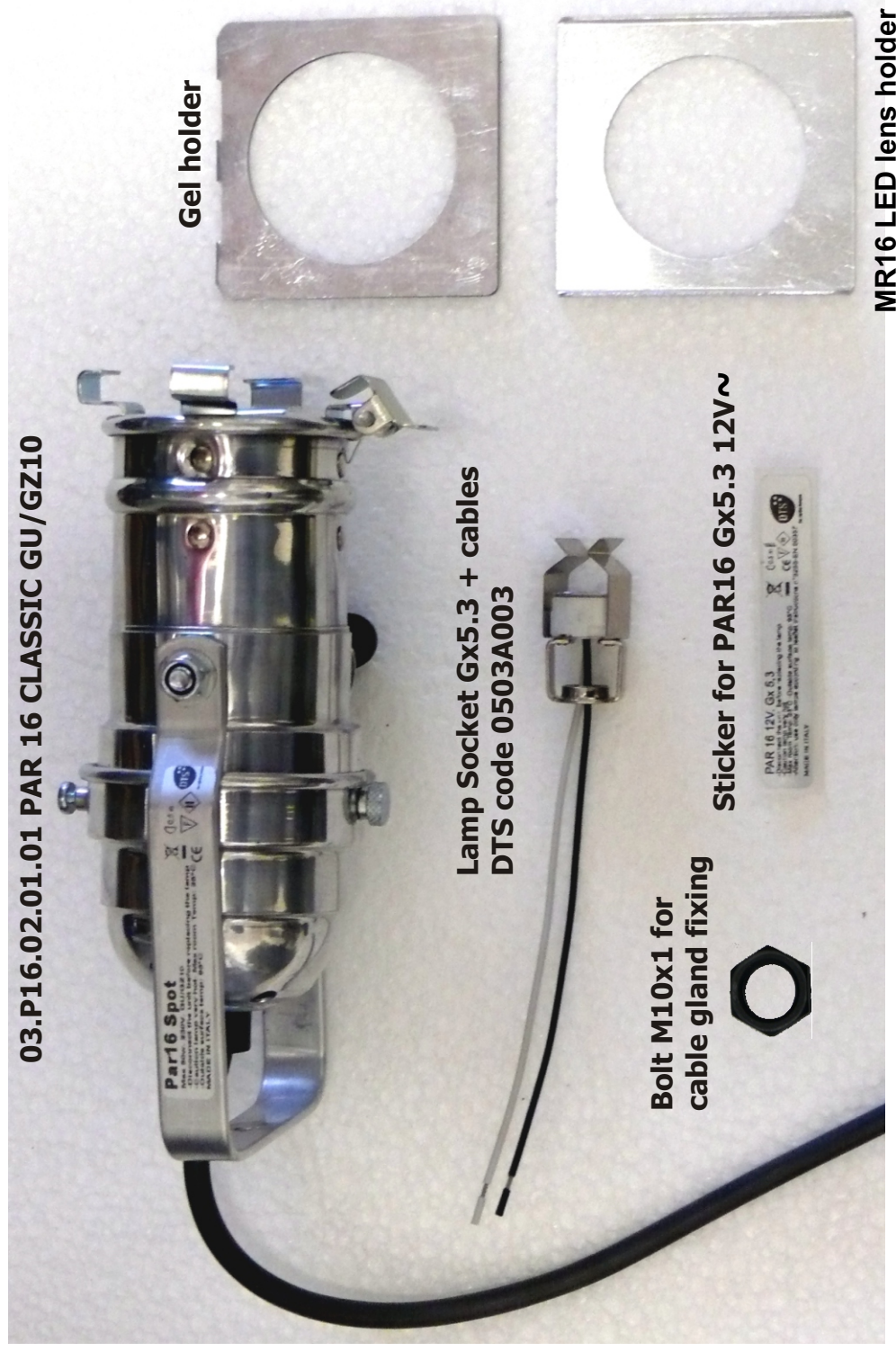
As standard

03.P16.02.01.01 PAR 16 CLASSIC GU/GZ10 BLACK CLOUD + SOCKETS KIT

- *User's manual - DTS code 0517I189
- *Lamp Socket Gx5.3 + cables - DTS code 0503A003
- *MR16 LED lens holder black colour - DTS code 02M00425.01
- *Gel holder black - DTS code 02M00411.01
- *Sticker for PAR16 Gx5.3 12V~ - DTS code 0517P027
- *Bolt M10x1 for cable gland fixing (PAR16 in MR16 LED configuration) DTS CODE 0518P018

03.P16.02.02.01 PAR 16 CLASSIC GU/GZ10 LUX+SOCKETS KIT

- *User's manual - DTS code 0517I189
- *Lamp Socket Gx5.3 + cables - DTS code 0503A003
- *MR16 LED lens holder lux - DTS code 00M00425
- *Gel holder lux - DTS code 00M00411
- *Sticker for PAR16 Gx5.3 12V~ - DTS code 0517P027
- *Bolt M10x1 for cable gland fixing (PAR16 in MR16 LED configuration) DTS CODE 0518P018



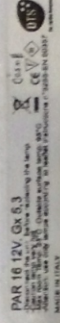
03.P16.02.01.01 PAR 16 CLASSIC GU/GZ10

Lamp Socket Gx5.3 + cables
DTS code 0503A003

Bolt M10x1 for
cable gland fixing



Sticker for PAR16 Gx5.3 12V~



Gel holder

MR16 LED lens holder

Optional (on request)

- Barndoor polish (Cod. 03.BD16.00.02)
- Barndoor black (Cod. 03.BD16.00.01)
- "C" clamp G30 Black for 30 mm pipe (max. load 5Kg) (cod. 0521A020)
- "C" clamp G30 Chrome for 30 mm pipe (max. load 5Kg) (cod. 0512A020.20)
- Gel filters

IMPORTANT SAFETY INFORMATION

Fire prevention:

The unit may be installed on normal inflammable surfaces



-Minimum distance from the closest illuminable surface: 0,5 MT. (0,5M)

Prevention of electric shock:



PAR 16 CLASSIC GU/GZ10

-High voltage is present inside PAR 16 CLASSIC GU/GZ10. Unplug the unit prior to performing any function which involves touching the inside of the unit, including lamp replacement.

-A good earth connection is essential for proper functioning of the PAR 16 CLASSIC GU/GZ10.

-Never connect the PAR 16 CLASSIC GU/GZ10 unit without proper earth connection.

-The fixture should be located in places with a good air ventilation.

PAR 16 CLASSIC Gx5.3 12V~



A Class III appliance is designed to be supplied from a separated/safety extra-low voltage (SELV) power source. The voltage from a SELV supply is low enough that under normal conditions a person can safely come into contact with it without risk of electrical shock. The extra safety features built into Class I and Class II appliances are therefore not required.

Protection against ultraviolet radiation:

PAR 16 CLASSIC GU/GZ10



PAR 16 CLASSIC Gx5.3 12V~

Tungsten filament lamps, such as halogen and incandescent, provide minimal UV.

MR16 lamps are made using special quartz, which has properties that enable it to filter out nearly all of the UV portion of the spectrum.

Use only low-pressure lamps according to local regulations

Safety:



-The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.

-Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.

-The external surface of the unit, at various points, may exceed 95°C.



Never handle the unit until at least 10 minutes have elapsed since the lamp was turned off.

-Always replace the lamp if any physical damage is evident.

-Never install the fixture in an enclosed area lacking sufficient air flow. The ambient temperature should not exceed 25°C for PAR16 GU/GZ10 and PAR16 Gx5.3.

The ambient temperature should not exceed 40°C for PAR16 LED.

-A hot lamp may explode, so always wait for at least 10 minutes prior to attempting to replace the lamp.

-Always wear suitable hand protection when handling the lamp.

Level of protection against the penetration of solid and liquid objects:



-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP 20.

VOLTAGE AND FREQUENCY

PAR16 GU/GZ10 operate at 230 VOLT 50Hz; Lamp MAX Power 50W

PAR16 Gx5.3 operate at 12V~; Lamp MAX Power 50W.

WARNING: for Main Grid connection, we recommend the use of an isolation transformer.

Isolation transformers provide galvanic isolation and it's used to protect against electric shock

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available. For connection purposes, ensure that your plug is capable of supporting 6 amps at 230V.

Strict adherence to regulatory norms is strongly recommended.

INSTALLATION

For ceiling mounted installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

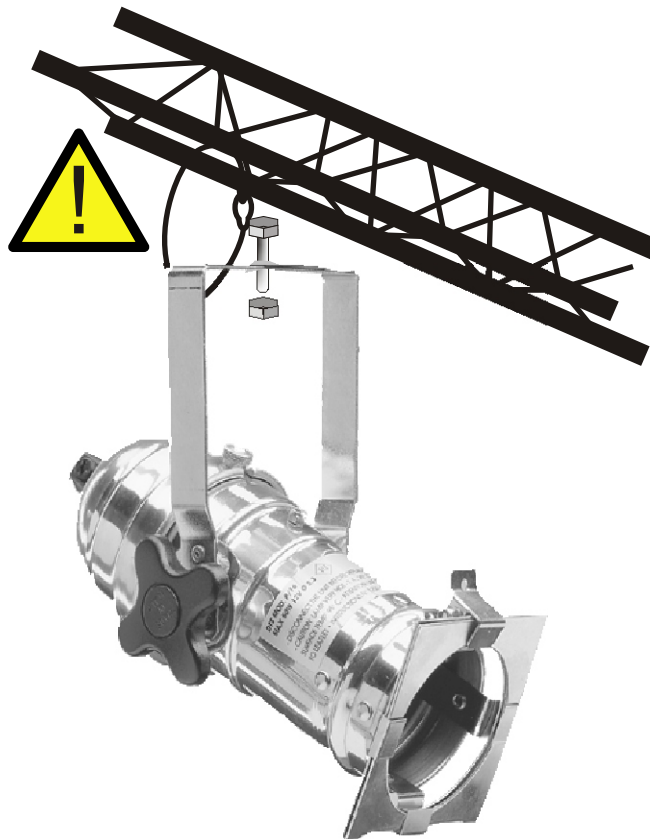
The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it. The structure should also be sufficiently rigid so as not to move or shake .

Safety cable



We recommend the use of a safety cable connected to the unit and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail. Make sure that the iron cable can bear the weight of the entire unit.

You may attach the safety cable as shown in the picture below.

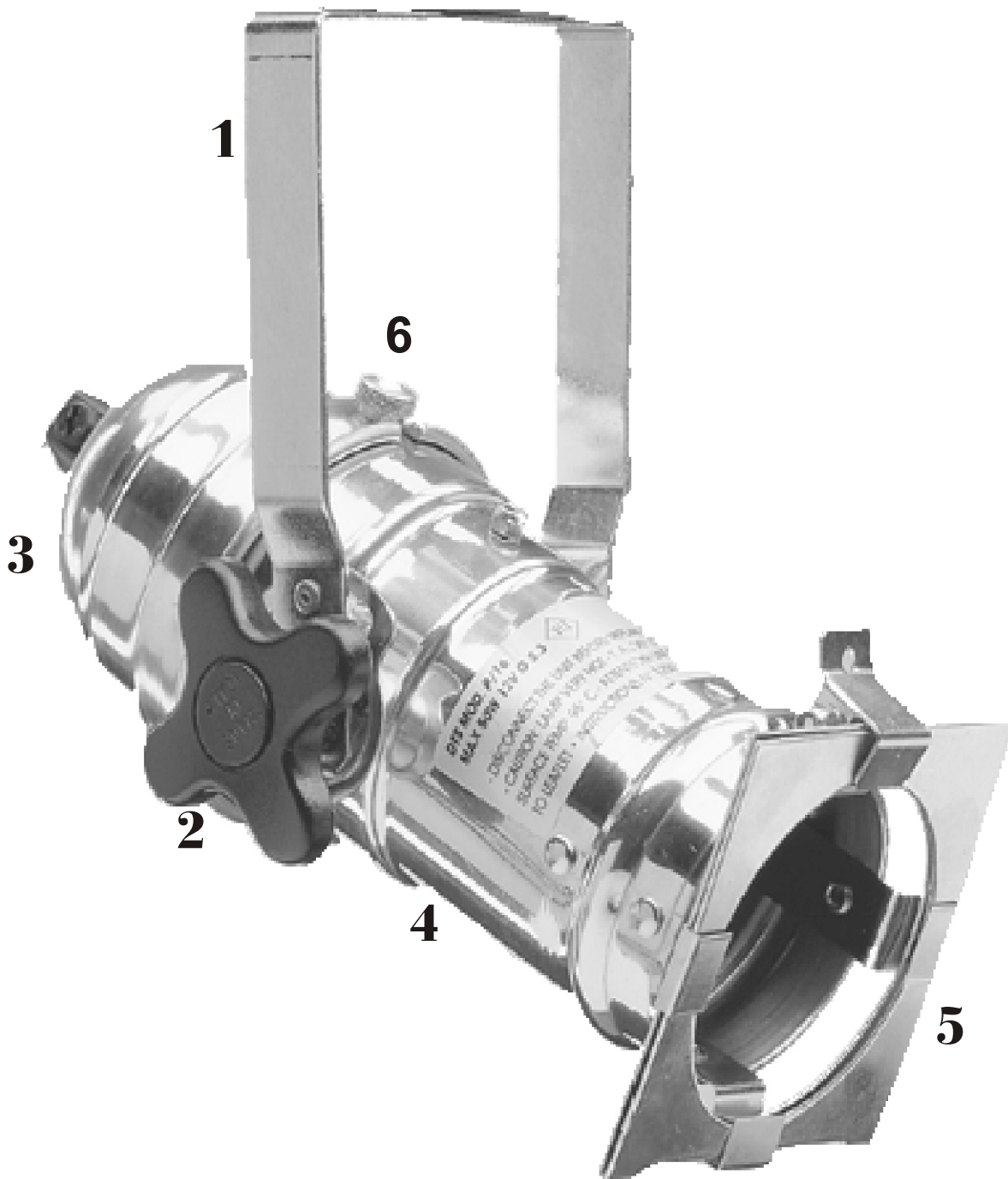


Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid. The proper unit functioning would be compromised should this occur.

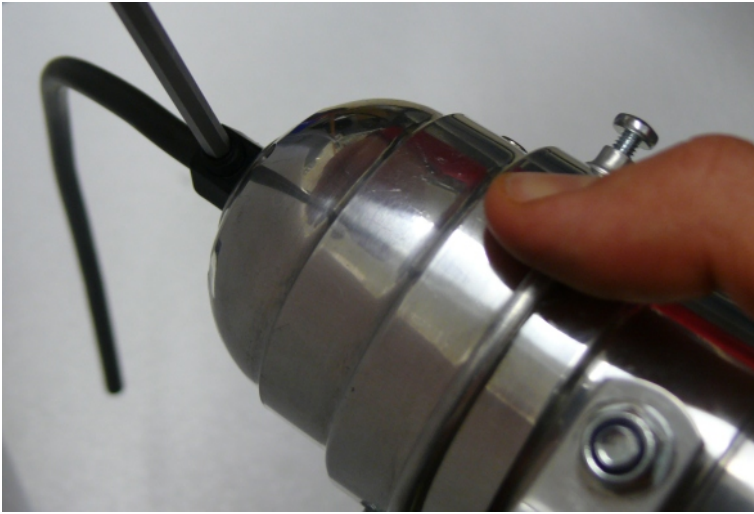
PAR16 MECHANICAL PARTS DESCRIPTION

- 1) BRACKET
- 2) FIXING BRACKET KNOB
- 3) REAR SIDE
- 4) FRONT SIDE
- 5) GEL HOLDER
- 6) REAR SIDE FIXING KNOB



PAR16 Gx5.3 LAMP SOCKET INSERTING PROCEDURE

Loosen the Allen screw on cable gland fixing the lamp socket cable



Loosen the Philips screw on back side of the unit

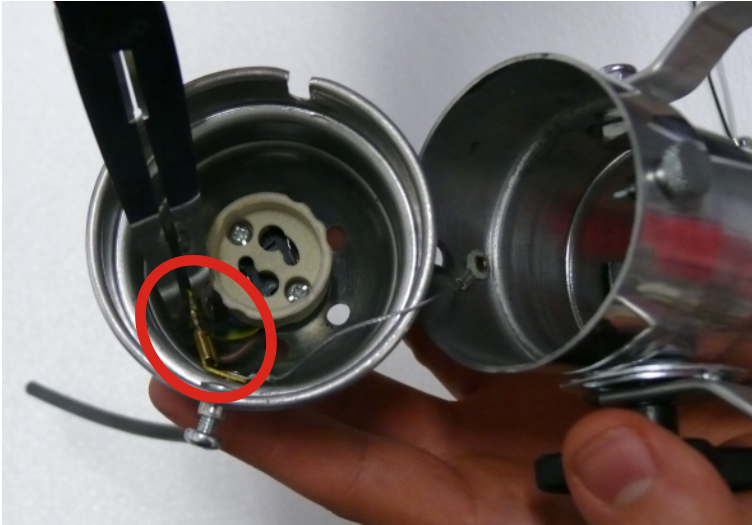


Pull up the rear side fixing knob and open the unit

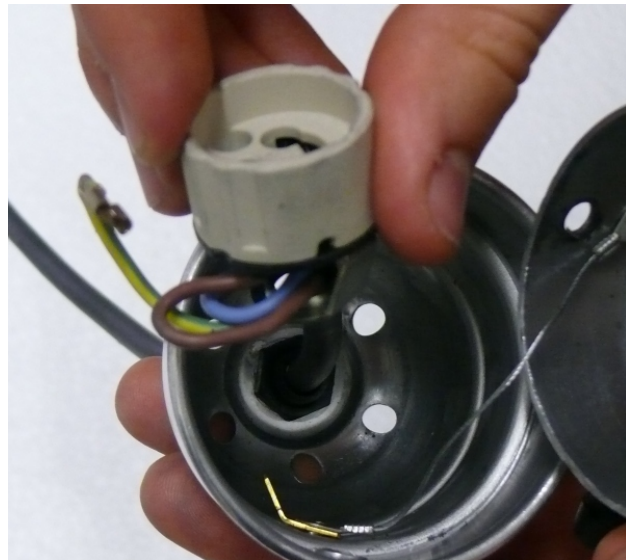


PAR16 Gx5.3 LAMP SOCKET INSERTING PROCEDURE

Unplug the earth/ground fast-on female cable connector



Rotate the lamp socket GU/GZ10 counter clockwise and remove it from the unit



Apply the Gx5.3 lamp socket and rotate it clockwise till it has been completely fixed to the unit body



PAR16 - MR16 LED LAMP INSERTING PROCEDURE

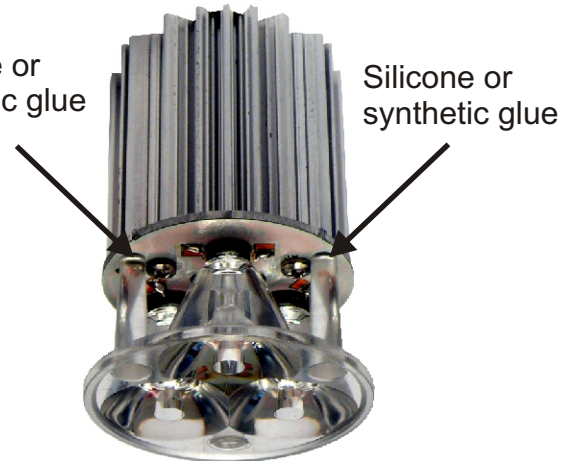
NOTE: BEFORE TO PRECEED, REMOVE THE GU/GZ10 LAMP SOCKET AS PREVIOUSLY DESCRIBED AT PAGES 9 AND 10.

Place a drop of silicone or other synthetic glue in the 3 holes of the pcb board to fix the LED module to the dedicated D.T.S. Lenses.

Never touch the LEDs with hands

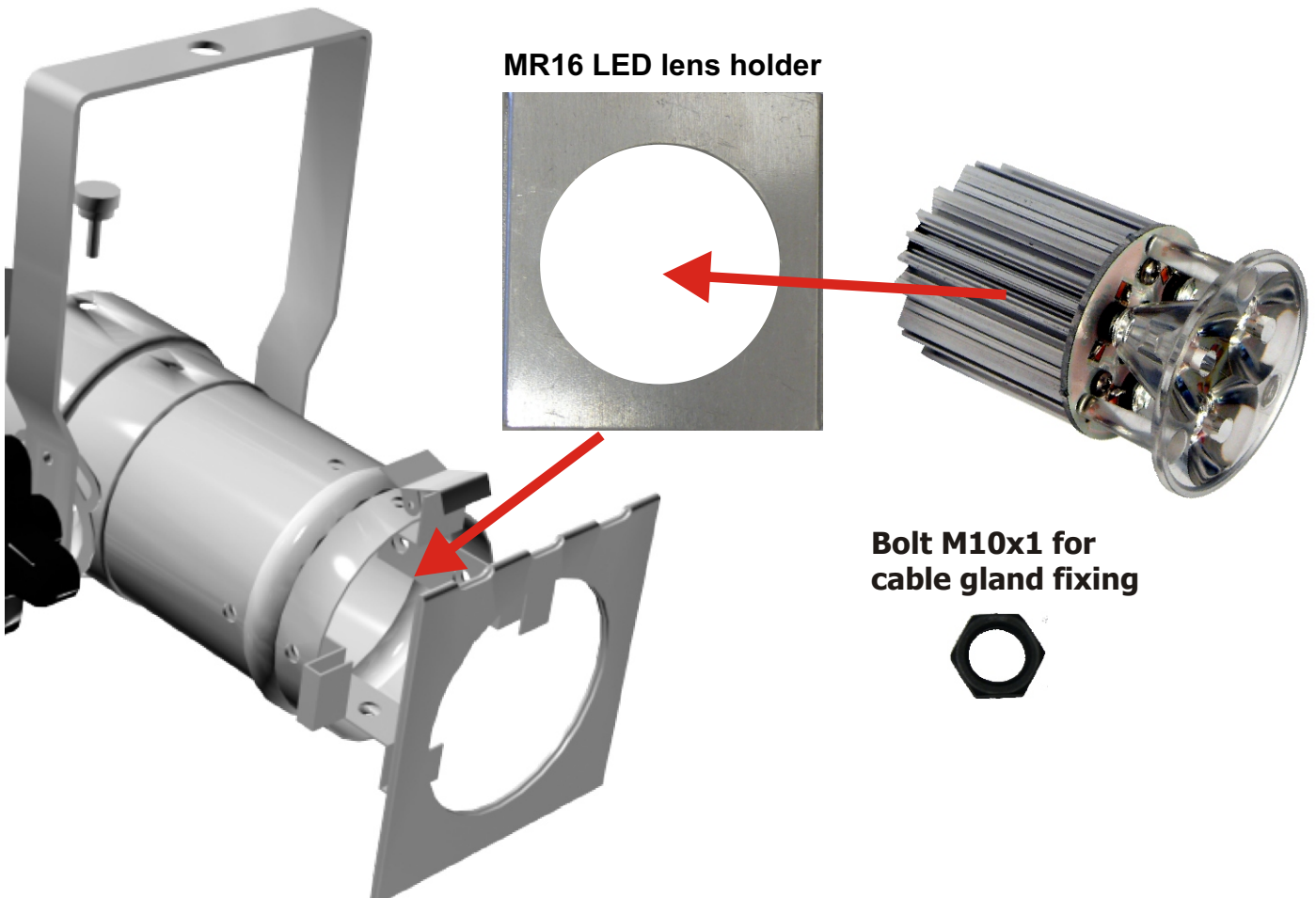


Silicone or synthetic glue



Silicone or synthetic glue

Place the MR16 LED unit into PAR16 by passing from the front side of the unit.
Fix the MR16 LED unit by using the dedicated LED lens holder



MR16 LED lens holder

**Bolt M10x1 for
cable gland fixing**

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MADE IN ITALY



The Lighting Company

ISO 9001:2000

D.T.S quality system

Is certified to the

ISO 9001:2000 standard

D.T.S. Products are designed
And manufactured at the D.T.S
Plants in Italy



05171189

PAR 56 & 64/AL

Altman PARs are low-cost, highly flexible luminaires designed for diverse applications. Intensities and beam spread are a function of the installed light source, so any one unit can serve multiple purposes simply by changing the lamp type.

The smaller size of the PAR56 reduces installation hassles, while the PAR64's optional PAR56/64 adapter ring gives the fixture great versatility. With oval beams and lamp ranges from 300 to 500 watts for the PAR56 and 300 to 1000 watts for the PAR64, these lights are ideal for use in concerts, nightclubs, television and film remotes and architectural applications where maximum flexibility is desired in a small, compact package.

The PAR64-AL is a PAR64 unit constructed from .050-gauge rolled aircraft aluminum to minimize weight without sacrificing durability.

WASH LIGHTING

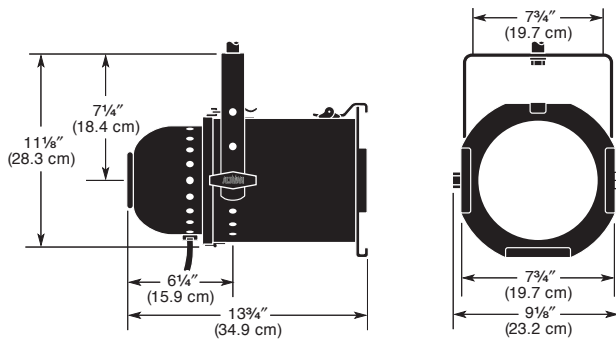
Catalog Numbers

PAR56
PAR64
PAR64-AL

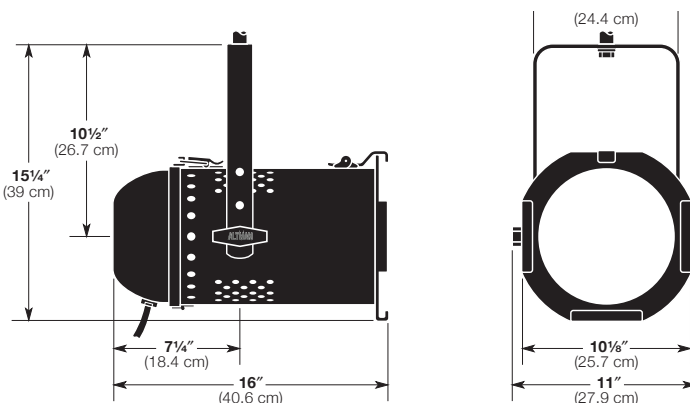


300-500 WATT **PAR 56** 300-1000 WATT **PAR 64 & PAR 64-AL** Features

- Constructed of rugged sheet steel (PAR56/64) or rolled aircraft aluminum (PAR64-AL)
- 360° lamp rotation
- Hinged rear cover for easy lamp access
- Spring loaded accessory holder safety latch
- Mogul-end prong socket
- Three position yoke adjustment
- Three 36" Teflon lead wires
- Color frame, wire mesh safety screen and safety cable with spring clip included.
- U.L. and c.U.L. listed for 500 Watts (PAR56) or 1000 Watts (PAR64/AL)
- Made in the USA



PAR56



PAR64 • PAR64-AL



BRINGING IMAGINATION TO LIGHT

57 Alexander St., Yonkers, NY 10701
© 2012 Altman Stage Lighting, Inc.

Tel: 914-476-7987

Visit our website at www.altmanlighting.com

Model	-	Lamp
	-	

**See following page for lamp data*

Project:	Approval Date:
Location:	Fixture Type:

Specifications:

Materials: Construction employs all corrosion-resistant materials and hardware.

Housing: Spun, rolled, and stamped steel (PAR56, PAR64) or aluminum (PAR64-AL).

Yoke: Rigid flat steel for PAR56 and PAR64, rigid flat aluminum for PAR64-AL.

Socket: Mogul-end prong. Tool free relamping.

Rating: 120/240 volts AC/DC: 4.2/2.1 amps, 500 watts maximum for PAR56; 8.3/4.2 amps, 1000 watts maximum for PAR64 and PAR64-AL.

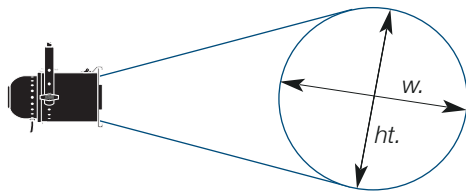
Cable: 36" Teflon leads encased in black sleeving.

Focusing: Lamp can be rotated 360°.

Accessories: Standard 7.5" x 7.5" accessories for PAR56; 10" x 10" accessories for PAR64 and PAR64-AL. Wire mesh safety screen included for PAR56, PAR64 and PAR64-AL.

Finish: Black epoxy sandtex, electrostatic application (PAR56 and PAR64) or brushed aluminum finish outside, flat baked black enamel inside (PAR64-AL).

Weight: Approx. 9 lbs. (4.1 kg) for PAR56; approx. 11 lbs. (5.0 kg) for PAR64; approx 8 lbs. (3.6 kg) for PAR64-AL.



Accessories:

Model Number	Supplied with the fixture
6-CFB	Black Color Frame 7.5"x7.5" (PAR56)
8-CFB	Black Color Frame 10"x10" (PAR64/AL)
SC-36-BK	36" Black Safety Cable w/ Spring Clip
Additional Accessories	
510	Malleable Iron Pipe Clamp for 3/4"-1 1/2" Pipe
6-BD-4	4 door, 8 leaf barndoors (PAR56)
6-SN	Snoot, Black (PAR56)
8-BD-4	4 door, 8 leaf barndoors (PAR64/AL)
8-SN	Snoot, Black (PAR64/AL)
PAR56/64-AR	Adapter ring (for PAR64 & PAR64-AL only)

Lamps:

Watts	ANSI code	Order code	Color temp. (°K)	Rated life (hrs)	Rated lumens	Beam shape	Candlepower (cd)	Beam angle	Field angle
300	--	90-300PAR56/NSP	2800	2000	1,800	NSP	70,000	8°x10°	15°x20°
300	--	90-300PAR56/MFL	2800	2000	2,000	MFL	24,000	11°x23°	20°x35°
300	--	90-300PAR56/WFL	2800	2000	2,100	WFL	10,000	18°x37°	30°x60°
500	--	90-500PAR56/NSP	3000	4000	4,900	NSP	96,000	8°x13°	15°x32°
500	--	90-500PAR56/MFL	3000	4000	5,700	MFL	43,000	10°x26°	20°x42°
500	--	90-500PAR56/WFL	3000	4000	5,725	WFL	19,000	20°x44°	34°x66°
PAR64, PAR64-AL Lamp Information									
500	--	90-500PAR64/NSP	2800	2000	3,000	NSP	110,000	7°x12°	13°x20°
500	--	90-500PAR64/MFL	2800	2000	3,400	MFL	35,000	11°x13°	20°x35°
500	--	90-500PAR64/WFL	2800	2000	3,500	WFL	12,000	20°x42°	35°x65°
1000	--	90-Q1000P64/NSP	3000	4000	8,500	NSP	180,000	8°x15°	14°x31°
1000	--	90-Q1000P64/MFL	3000	4000	10,000	MFL	80,000	12°x28°	22°x45°
1000	--	90-Q1000P64/WFL	3000	4000	13,500	WFL	33,000	24°x48°	45°x72°
1000	FFN	90-FFN	3200	600	11,000	VNSP	400,000	6°x12°	10°x24°
1000	FFP	90-FFP	3200	600	12,000	NSP	330,000	7°x14°	14°x26°
1000	FFR	90-FFR	3200	600	14,000	MFL	125,000	12°x28°	21°x44°
1000	FFS	90-FFS	3200	600	19,000	WFL	40,000	24°x48°	45°x71°

Photometrics:

Lamp	10'			20'			30'			40'			50'			60'		
	Center beam fc	ht.(')	w.(')	Center beam fc	ht.(')	w.(')	Center beam fc	ht.(')	w.(')	Center beam fc	ht.(')	w.(')	Center beam fc	ht.(')	w.(')	Center beam fc	ht.(')	w.(')
90-300PAR56/NSP	700	2.6	3.5	175	5.3	7.1	78	7.9	10.6	44	10.5	14.1	--	--	--	--	--	--
90-300PAR56/MFL	240	3.5	6.3	60	7.1	12.6	27	10.6	18.9	15	14.1	25.2	--	--	--	--	--	--
90-300PAR56/WFL	100	5.4	11.5	25	10.7	23.1	11	16.1	34.6	6	21.4	46.2	--	--	--	--	--	--
90-500PAR56/NSP	960	2.6	5.7	240	5.3	11.5	107	7.9	17.2	60	10.5	22.9	38	13.2	28.7	--	--	--
90-500PAR56/MFL	430	3.5	7.7	108	7.1	15.4	48	10.6	23.0	27	14.1	30.7	17	17.6	38.4	--	--	--
90-500PAR56/WFL	190	6.1	13.0	48	12.2	26.0	21	18.3	39.0	12	24.5	52.0	8	30.6	65.0	--	--	--
90-500PAR64/NSP	1,100	2.3	3.5	275	4.6	7.1	122	6.8	10.6	69	9.1	14.1	44	11.4	17.6	--	--	--
90-500PAR64/MFL	350	3.5	6.3	88	7.1	12.6	39	10.6	18.9	22	14.1	25.2	14	17.6	31.5	--	--	--
90-500PAR64/WFL	120	6.3	12.7	30	12.6	25.5	13	18.9	38.2	8	25.2	51.0	5	31.5	63.7	--	--	--
90-Q1000P64/NSP	1,800	2.5	5.5	450	4.9	11.1	200	7.4	16.6	113	9.8	22.8	72	12.3	27.7	--	--	--
90-Q1000P64/MFL	800	3.9	8.3	200	7.8	16.6	89	11.7	24.9	50	15.6	33.1	32	19.4	41.4	--	--	--
90-Q1000P64/WFL	330	8.3	14.5	83	16.6	29.1	37	24.9	43.6	21	33.1	58.1	13	41.4	72.7	--	--	--
90-FFN	4,000	1.8	4.3	1,000	3.5	8.5	445	5.3	12.8	250	7.0	17.0	160	8.8	21.3	111	10.5	25.5
90-FFP	3,300	2.5	4.6	825	4.9	9.2	367	7.4	13.9	206	9.8	18.5	132	12.3	23.1	92	14.8	27.7
90-FFR	1,250	3.7	8.0	313	7.4	16.2	139	11.1	24.3	78	14.8	32.3	50	18.5	40.4	35	22.2	48.5
90-FFS	400	8.3	14.3	100	16.6	28.5	44	24.9	42.8	25	33.1	57.0	16	41.4	71.3	11	49.7	85.6



Pro Smoke Super (ZR mix) fluid

Pro Smoke Super is a medium density and duration fog fluid ideal for clubs, theatres and touring. This industry standard fluid is the automatic choice of most users, and is the most specified fog fluid in the world. Suitable for most Martin fog effect generators; a dense white airborne fog is produced with a medium length dispersal time. Its medium to high index of refraction makes this formula ideal for all effects.

GALLERY



Available in 5, 9.5, 25, and 220 l containers

For use in most Martin Fog Machines

Water based formula

Most specified fog fluid in the world

FEATURES

- Water-based formula
- Leaves no residue
- Produced with ultra-pure, de-ionized water
- White Fog effect
- Available in various size containers
- For use in all compatible Martin Fog Effect generators

TECHNICAL SPECIFICATIONS

Physical

Pro Smoke Super (ZR mix), 4 x 5 l: P/N 97120020

Bottle dimensions, 5 l: 191 x 127 x 280 mm (7.5 x 5 x 11 in.)
Bottles per case: 4
Case dimensions (L x W x H): 380 x 300 x 310 mm (15 x 11.9 x 12.3 in.)
Case weight: 22 kg (49 lb.)
Cases per pallet: 30
Pallet dimensions (L x W x H): 1200 x 800 x 1400 mm (47.3 x 31.5 x 47.3 in.)
Pallet weight: 675 kg (1489 lb.)

Pro Smoke Super (ZR mix), 2.5 gal/9.5 l: P/N 97120021

Bottle dimensions, 9.5 l: 250 x 245 x 231 mm (9.8 x 9.6 x 9.1 in.)
Packaged bottle dimensions (L x W x H): 260 x 260 x 250 mm (10.3 x 10.3 x 9.9 in.)
Weight of package: 10 kg (22.1 lb.)
Packages per pallet: 48
Pallet dimensions (L x W x H): 1200 x 800 x 1350 mm (47.3 x 31.5 x 53.2 in.)
Pallet weight: 495 kg (1092 lb.)

Pro Smoke Super (ZR mix), 25 l: P/N 97120022

Container dimensions, 25 l (L x W x H): 440 x 270 x 250 mm (17.4 x 10.7 x 9.9 in.)
Container weight: 26 kg (58 lb.)
No outer packaging
Containers per pallet: 24
Pallet dimensions (L x W x H): 1200 x 800 x 1400 mm (47.3 x 31.5 x 47.3 in.)
Pallet weight: 639 kg (1409 lb.)

Pro Smoke Super (ZR Mix), 220 l: P/N 97120023

Container dimensions, 220 l (L x W x H): 600 x 600 x 900 mm (23.7 x 23.7 x 35.5 in.)
Container weight: 230 kg (508 lb.)
Containers per pallet: 2
No outer packaging
Pallet dimensions (L x W x H): 1200 x 800 x 1100 mm (47.3 x 31.5 x 47.3 in.)
Pallet weight: 475 kg (1048 lb.)

Thermal

Minimum operating temperature (Ta min): 5° C (41° F)

Maximum ambient temperature (Ta max.): 40° C (104° F)

Storage

Upright only

Ambient temperature: 10 - 30° C (50 - 86° F)

Shelf life maximum, sealed: 5-Year

Shelf life, opened: 2-Year reduction once opened from maximum

See *Safety Data Sheets (SDS)* for comprehensive safety and storage information.

Ordering Information

Pro Smoke Super (ZR mix), 4 x 5 L: P/N 97120020

Pro Smoke Super (ZR mix), 2.5 gal/9.5 L: P/N 97120021

Pro Smoke Super (ZR mix), 25 l: P/N 97120022

Pro Smoke Super (ZR mix), 220 l: P/N 97120023



Product Specification Sheet

Rama 150 PC 5°- 60°



The Rama 150 PC (1.0kW / 1.2kW, 150mm lens) provides an adjustable cone of light that has a crisper edge than a Fresnel, and is easily blended with adjacent beams to provide even illumination.

Features

Integrated safety bond, rated for the fitting; maximum free length = 830mm.

Adjustable yoke balance point.

'Swing-down' door for easy access to lamp or cleaning. Disconnects the mains power supply on opening.

Smooth 'posi-slide' focus system, no metal to metal contact.

Constructed of aluminium extrusion and moulded engineering plastics.

Cooler operation due to use of engineering plastics on front (colour frame mount) and rear of luminaire.

Heat-insulated rear grab-handle which doubles as handy storage for the 1m cable length.

Tilt and focus scale is in real degrees allowing for accurate WSYIWYG implementation.

Lamps: 220V-240V

T/29 1200W
27,600 lumens 400 hours average life

CP90 1200W
30,000 lumens 200 hours average life

T/11 T/19 1000W
21,500 lumens 750 hours average life

CP70 1000W
25,000 lumens 200 hours average life

Order Codes

16RAPC150
Rama 150 PC - GX9.5 lamp base

16RAPC150G22
Rama 150 PC - G22 lamp base

20BDRA
Rama barndoor

20BDRA8
Rama barndoor – eight leaf

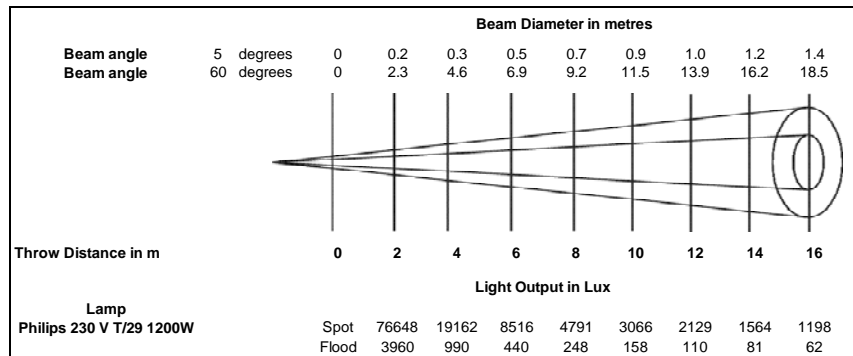
20SM6
Rama lens safety mesh

Approvals

Compliant to CE standards.

Photometric Data

Tests conducted using a standard T29, 1200W, 230V lamp.
 Peak candela at 5° - 306,600
 Peak candela at 60° - 15,840



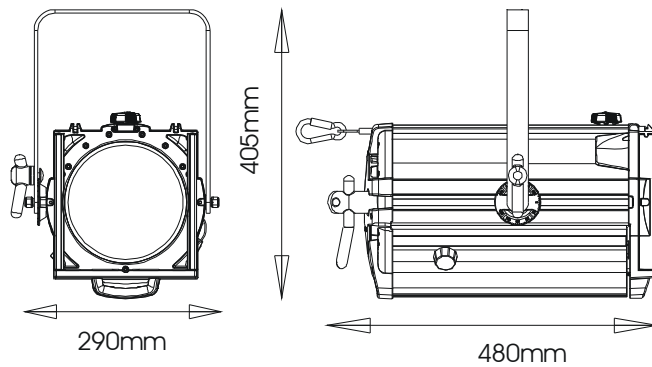
Physical Data

Weight: 6.9kg

Packed weight: 7.8kg

Colour frame size: 186mm x 190mm

Included: 1x colour frame, yoke nut and bolt, lens safety mesh, instruction leaflet.



Philips Selecon reserves the right to change the specifications without notice (January 2014).



RevoProTM

Programmable Gobo Rotator



ver 1.1
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QUICK SET UP GUIDE

The RevoPRO™ Dual Programmable Rotator is quick and easy to configure using the LCD display.

1. Load a standard B size gobo into each gobo wheel. The threaded collar should be tightened until just in contact with the gobo. Do not over tighten. If using two metal gobos with fine elements in the design, place a Gobo Spacer Ring (Part no. 205 83007 0000) between the gobos to prevent warping and entanglement.

Tip: When screwing on the threaded collar, place one finger from each hand on the machined flat spots and slowly rotate the collar, keeping even pressure on both fingers. This helps the threads to engage evenly and prevents binding and cross threading.

2. Insert RevoPRO™ into a the iris slot of a compatible luminaire. Make sure unit is completely seated.
3. Engage Friction Lock by depressing plunger. Secure RevoPRO™ to the luminaire using a safety cable.
4. Connect an IEC 18AWG power cable to the appropriate power supply (100-240VAC 50/60hz).
5. Use LCD Display and buttons B1 – B4 to configure RevoPRO.
6. Press B1 to enter Setup mode. When display begins blinking, press B1 again to select desired Mode (1-7). Note: RevoPRO™ uses 2, 4, or 6 channels of DMX depending on the Operation Mode selected.
7. Set DMX Address using B2 – B4. Press B2 to set 100s place of desired DMX Address. Press B3 to set 10s place. Press B4 to set 1s place.
8. Display will now show, for example 1.001 to indicate Mode 1, DMX Address 001.
9. Press and hold B2 to save your configuration. RevoPRO™ will remember and restore your saved configuration on power up.
10. Adjust channels 1-6 (depending on Op Mode) on your lighting control desk to set speed, direction and index position of each gobo.
11. RevoPRO™ can be configured for stand alone operation, requiring no DMX control. See Section 7 inside for more instructions.

1. GETTING TO KNOW YOUR REVOPRO

RevoPRO™ Programmable Gobo Rotator

Advanced features and control options for any environment. DMX control with 7 modes of operation or console-free on board programming. Complete control even in spaces without lighting desks and universes of DMX like museums, retail, and commercial buildings. With its internal power supply, RevoPRO is perfectly suited in lighting rigs where an external PSU is not desirable, like theme parks and cruise ships. RevoPRO™ is a powerful and versatile tool for creating subtle or dynamic, realistic or extravagant, beautiful or arresting lighting effects

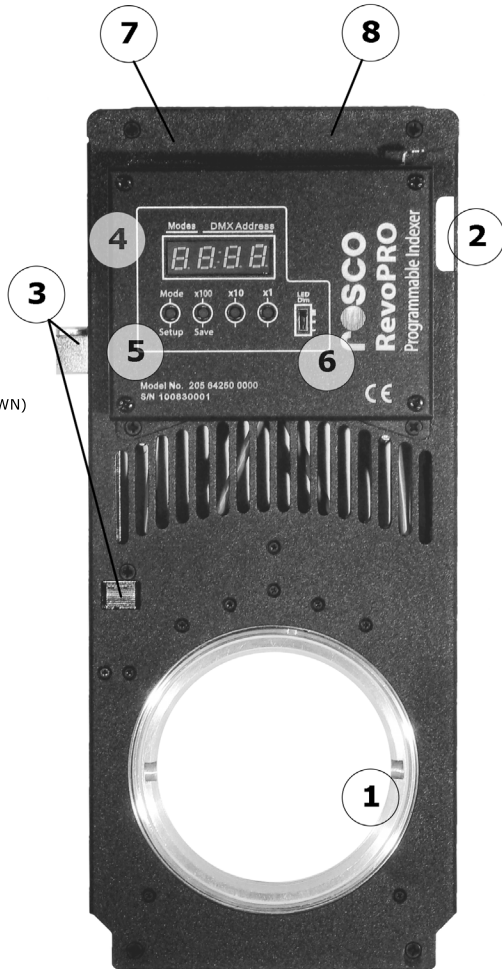
Engineered with fresh eyes and a focus on building a versatile, advanced feature set, the RevoPRO™ was designed with the lighting designer in mind.

The RevoPRO™ features

- Dual stepper motors for independent control of speed and direction for each gobo
- Indexing control of BOTH gobos in 8- or 16-bit resolution
- Universal 100-240VAC auto-sensing, auto-switching power supply with standard IEC connector.
- On-board 5-pin DMX input and pass-thru ports
- Flexible programming configurations accommodates simple 2 channel control or advanced moving light console controls
- 99 pre-programmed effects sequences selected using the LED display panel
- Custom programming option to set and store speed and direction without DMX or external controllers
- High temperature silicon belt for smooth, reliable, silent (squeak free) operation;
- Modern stepper motor drives with advanced electronic controls allow the designer to dial speed from 0.5rpm to 24rpm with no risk of stalling;
- Simple, intuitive and user friendly operator modes provide maximum flexibility for programmers of all abilities;
- Threaded gobo collar insures secure fit for any type of gobo – thin metal to thick effects glass.
- Friction Lock™ secure fit mechanism holds the rotator tightly in the iris slot even when the lens barrel is rotated around.

Unleash your imagination and browse through more than 2000 steel and glass gobos at www.rosco.com or design your own pattern, made by Rosco to your precise specifications. The lighting effects you will create with the RevoPRO™ are limitless.

1. THREADED GOBO COLLAR
2. SAFETY CABLE ATTACHMENT
3. FRICTION LOCK
4. LED DISPLAY CONTROLS
5. CONFIGURATION BUTTONS
6. LED DISPLAY DIMMER
7. IEC POWER CONNECTOR (NOT SHOWN)
8. 5-PIN DMX PORTS (NOT SHOWN)



2. WHAT'S IN THE BOX

- RevoPRO™ programmable gobo rotator
- Operator manual
- Quick start card

3. REQUIREMENTS

- 100-240VAC 50/60 hz mains power
- DMX 512 control signal or operate in stand-alone mode
- Modern ellipsoidal spotlight with appropriate sized iris slot including ETC S4, ETC S4 Zoom, Selecon Pacific, Strand SL and Altman Shakespeare, among others.
- B size steel or glass gobos

4. SPECIFYING AND INSTALLING GOBOS

Your Rosco RevoPRO Dual Programmable Rotator will accept standard B-size gobos of virtually any style, whether steel or glass, b/w or color, textured or flat. A B-size gobo has a diameter of 86mm (3.38in) and an image area of 64.5mm (2.54in).

Many modern luminaires have optical systems capable of projecting a larger image area. The RevoPRO™ has an open aperture of 75mm (2.95in) giving you the flexibility to maximize your projection size by using gobos with a larger image area.

RevoPRO™ will accept a wide range of gobo styles from many manufacturers including Stainless Steel gobos, Colorizers™, Image Glass™, Prismatic™, Colorwaves™, Silk Screen Gobos , B/W Glass gobos, 1C Glass Gobos, 2C Glass Gobos, 3C Glass Gobos, Multi-Color Gobos and many others.

Loading Gobos into your RevoPRO™ rotator

RevoPRO™ has two gobo wheels into which you can load gobo effects. While it is most common to load just one gobo into each wheel, you can stack gobos together into the same wheel position providing your stack does not exceed the total maximum thickness of 3.5mm (0.138in).

All Rosco BeltDriveFx rotators utilize an innovative Threaded Collar to securely hold gobos of varying thicknesses. Unlike the spring clips common in similar equipment, the Threaded Collar screws down to positively lock the gobo in place. This prevents the gobo from slipping during rotation and losing index or centering.

To load a gobo into the gobo wheels

1. Place the rotator on a stable flat surface. Unscrew the Threaded Collar from each gobo wheel (counter-clockwise to unscrew, clockwise to tighten).

There are two flat sections on the collar to give your fingers a place to grip. If the collar has been over tightened and is stuck, another small machined spot on the outer ring allows you to gain purchase when spinning the collar opposite to the entire gobo wheel.



2. Once the Threaded Collars are removed, insert a B size gobo so that it lays flat against the gobo wheel.

TIP: When installing a metal gobo, an optional Gobo Spacer Ring (Part no. 205 83007 0000) is available to increase the separation between the gobos to achieve a wider range of focus effects. This spacer can also be useful if two metal gobos with fine thin details are being used. In the event that the heat from the luminaire causes the gobos to warp towards one another, use of the spacer ring will prevent the gobos from getting tangled together.

3. Screw on the Threaded Collar until just in contact with the gobo. Do not over tighten.

The Threaded Collar has Teflon™ threads to ease rotation and avoid binding however there is still a small risk of cross threading. Do not forcibly screw on the Threaded Collar. If you encounter undue resistance, back off and start again. Lay the Threaded Collar flat onto the ring and slowly and evenly rotate until the threads align and engage properly.

TIP: When screwing on the Collar, place one finger from each hand on the machined flats and slowly rotate the collar, keeping even pressure on both fingers. This helps the threads to engage evenly and prevents binding and cross threading. If you are having difficulties getting the thread to “catch,” slowly spin the Collar CCW while continuing to apply gentle even pressure, then reverse back to CW until the threading begins.

4. Repeat this process for both gobo wheels.

NOTE: *When using Apollo gobos*

Apollo Design manufactures a non-standard “B” sized gobo which has an 80mm diameter. Rosco BeltDriveFx rotators can accept these smaller gobos provided you keep a few considerations in mind. The underside of the Threaded Collar which hold gobos in place has been machined with an 80mm recessed lip. To install an Apollo 80mm gobo, you must insure that the gobo sits in the center of the gobo mounting ring as the Threaded Collar slowly tightens down. Slight wiggling of the gobo during this process helps to find the center recessed ridge.

5. INSTALLATION, POWER AND DATA CONNECTIONS

The RevoPRO™ has been engineered to fit into the bodies of most modern ellipsoidal luminaires including ETC Source Four, ETC S4 Zoom, Selecon Pacific, Selecon Pacific Zoom, Altman Shakespeare and Strand SL among others.

1. Insert RevoPRO™ into the iris slot of the luminaire with the motor box facing forward, towards the lens.

Inserting the rotator in the opposite orientation will cause the motor box to interfere with the shutter handles.

It may be necessary to angle the yoke of the luminaire back to allow access into the accessory iris slot.

On certain luminaires, the sliding cover over the iris slot may have to be removed to allow the RevoPRO™ to fit properly.

Note: When installing into a Selecon Pacific luminaire, align the groove in the edge of the RevoPRO™ body with the rear-most tab of the Iris Slot.

2. When seated fully and completely, the gobo wheel should be centered in the lens tube. If necessary, remove the lens tube and visually confirm that the rotator is seated and aligned properly. It is important that the aperture of the gobo rotator be centered in the optical path of the

luminaire in order to project without obstructions to the gobo design.

3. The RevoPRO™ is equipped with a unique safety feature, the Friction Lock. Depress the metal slider located on the left side of the RevoPRO™ to extend a knurled brake cylinder.

This brake presses against the inside wall of the iris slot, securely holding the RevoPRO™ in place.

Note: To install the RevoPRO™ into your luminaire it is necessary that the Friction Lock Slider be in the UP position, with the lock disengaged.



4. Attach a safety cable to the RevoPRO™ and then to the yoke of your luminaire or other secure point.

The D-cut out in the metal housing to the right of the motor box will accept the spring clip of a standard safety cable or the loop end of a small safety cable.

Power and Data

The RevoPRO™ uses an internal, auto-sensing, auto-switching power supply suitable for almost any location.

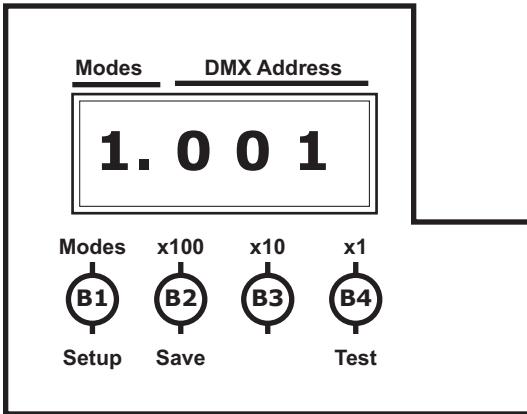
1. Connect it to any suitable 100-240VAC 50/60hz power source using an ANSI standard IEC cable.
2. If using a DMX controller, connect a 5-pin DMX cable from your lighting desk/console or from the pass-thru of another DMX device into the DMX input port on your PSU.

6. CHOOSING OPERATION MODE AND SETTING DMX ADDRESS

When powered on, the RevoPRO™ will restore to its previous configuration. If this configuration was an indexing mode (3-7) then the unit will go through a

15 second BOOT process first.

Use the LCD display and buttons B1 – B4 to set Mode and DMX Address.



Note: Press = Quick Press ~ 0.25 seconds, Press and Hold = 1 second

To Set Operation Mode

- Press B1 once to enter SETUP . Display will momentarily change to SET- and then return to the previous display, blinking.
- To Change Modes, Press B1 to select the desired mode 1-7 (see below for detailed explanation of the different modes).

For example 2.001 = Mode 2, DMX Address 001.

For Stand Alone Mode or Library Effects, press B1 until E.6XX appears in the display.

- Press and hold B2 to SAVE or continue to set DMX Address.

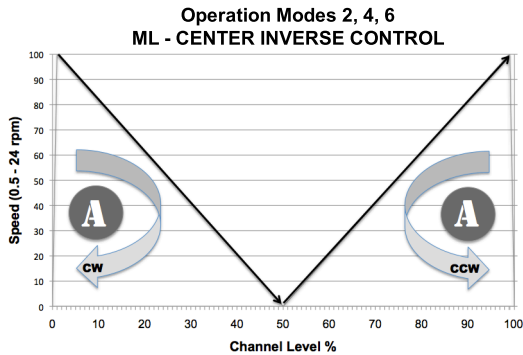
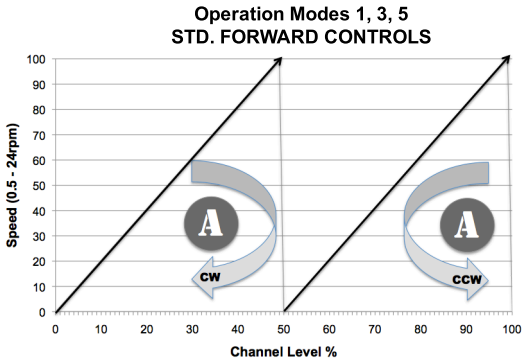
To Set DMX Address

- If still in SETUP (display blinking) use buttons B2 – B4 to set the three digits of the DMX address desired.
- Press B2 to set 100's place. Keep pressing until desired digit appears.
- Press B3 to set the 10s place.
- Press B4 to set the 1s place.
- For example 3.101 = Mode 3, DMX Address 101.
- Press and hold B2 to SAVE

7. OPERATION MODES

The RevoPRO™ has seven modes of operation to offer the programmer and lighting designer maximum flexibility.

- MODE ONE – 2 Channel - Std Forward Control
- MODE TWO – 2 CH - ML Center Inverse Control
- MODE THREE – 4 CH 8 Bit (Coarse) Indexing – Std Forward Control
- MODE FOUR – 4 CH 8 Bit Indexing ML Center Inverse Control
- MODE FIVE – 6 CH 16 Bit (Fine) Indexing - Std Forward Control
- MODE SIX – 6 CH 16 Bit (Fine) Indexing ML Center Inverse Control
- MODE SEVEN – 4 CH Indexing Shortest Path – 8 bit
- STAND ALONE – No DMX required



MODE ONE: 2 CH Forward Control

Mode One provides simple control of Gobo A and Gobo B using only two channels of DMX. Channel 1 controls Gobo A, Channel 2 controls Gobo B. Speed and direction of each gobo is adjusted by varying the level of the appropriate channel. Adjust Channel 1 from 0 to 50% (0 – 127 DMX value) to rotate Gobo A clockwise. Adjust Channel 1 from 51 – 99% (128 – 254) to rotate Gobo A Counter-Clockwise. 0% (DMX 0), 50% (DMX 128) and 100% (DMX 255) are full stop.

Adjust Channel 2 to control Gobo B similarly.

Note: Clockwise is determined when looking down the light path from the point of view of the lamp, with the motor box facing away from you.

Mode 1 Channel assignments

CH	Level	DMX	Function / Result
1	0	0	Gobo A - Stop
2	0	0	Gobo B - Stop
1	1-49	1-127	Gobo A - CW (slow to fast)
1	50	128	Gobo A - Stop
1	51-99	129-254	Gobo A - CCW (slow to fast)
1	FL	255	Gobo A - Stop
2	1-49	1-127	Gobo B - CW (slow to fast)
2	50	128	Gobo B - Stop
2	51-99	129-254	Gobo B - CCW (slow to fast)
2	FL	255	Gobo B - Stop

MODE TWO: 2 CH - ML Center Inverse Control

Similar to Mode one, Mode Two provides simple two channel control of the RevoPRO™. For programmers who prefer it, the speed and direction control is more similar to that used by automated lighting programmers. Speed control configuration is “center inverse.” In this mode, slowest speed in both directions is set at the 50% (DMX 128) point on the channel. To increase speed in the clockwise directions, adjust the level down from 50% (DMX 128) to 1% for full speed. 0% is full stop. To increase speed in the Counter Clockwise direction, adjust the level up from 50% to 99%.

Adjust Channel 2 to control Gobo B similarly

Mode 2 Channel assignments

CH	Level	DMX	Function / Result
1	0	0	Gobo A - Stop
2	0	0	Gobo B - Stop
1	1-49	1-127	Gobo A - CW (fast to slow)
1	50	128	Gobo A - Stop
1	51-99	129-254	Gobo A - CCW (slow to fast)
1	FL	255	Gobo A - Stop
2	1-49	1-127	Gobo B - CW (Fast to slow)
2	50	128	Gobo B - Stop
2	51-99	129-254	Gobo B - CCW (slow to fast)
2	FL	255	Gobo B - Stop

MODE THREE: 4 CH Indexing – 8 bit resolution - Forward Control

Indexing is a feature where the designer can specifically stop the rotation at a certain location. This is useful for some effects like Clock or See-Saw movements, but it is also useful with an I-Cue Mirror when you need to keep the orientation of a gobo very specific, as with a logo. Mode Three allows for simple, low resolution indexing using only 2 channels per gobo. As in Mode One, speed and direction for Gobo A is controlled by Channel 1, speed and direction for Gobo B controlled by Channel 2. Channel 3 is used to set the position of between 1-degree and 370-degrees of Gobo A. Channel 4 is used to set the position of Gobo B between 1-degree and 370-degrees. For precise programming, program the index using DMX values, not channel percentages.

Example: To set Gobo A rotating at full speed, set CH1 = 99% and set CH3 = 0. To now stop Gobo A at a precise orientation, set CH 3 = DMX 127 (or any other value > 0). Rotation will continue until the exact orientation is achieved and then stop. To continue rotating, set CH3 = 0.

Mode 3 Channel assignments

CH	Level	DMX	Function / Result
1	0	0	Gobo A - Stop
2	0	0	Gobo B - Stop
1	1-49	1-127	Gobo A - CW (slow to fast)
1	50	128	Gobo A - Stop
1	51-99	129-254	Gobo A - CCW (slow to fast)
1	FL	255	Gobo A - Stop

CH	Level	DMX	Function / Result
3	0	0	Gobo A - Continuous rotation
3	1-100	1-255	Gobo A - Index position 0-370° 1.45° per DMX value
2	1-49	1-127	Gobo B - CW (slow to fast)
2	50	128	Gobo B - Stop
2	51-99	129-254	Gobo B - CCW (slow to fast)
2	FL	255	Gobo B - Stop
4	0	0	Gobo B - Continuous rotation
4	1-100	1-255	Gobo B - Index position 0-370° 1.45° per DMX value

MODE FOUR: 4 CH Indexing – 8 bit resolution - ML Center Inverse

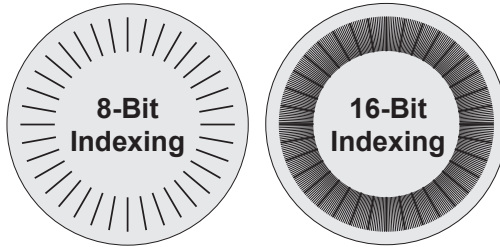
Similar to Mode Two, Mode Four uses the center 50% mark on the channel level to control speed and direction of the gobos. And similar to Mode Three, this configuration allows for low resolution indexing of the gobos using Channels 3 & 4.

Mode 4 Channel assignments

CH	Level	DMX	Function / Result
1	0	0	Gobo A - Stop
2	0	0	Gobo B - Stop
1	1-49	1-127	Gobo A - CW (Fast to slow)
1	50	128	Gobo A - Stop
1	51-99	129-254	Gobo A - CCW (Slow to Fast)
1	FL	255	Gobo A - Stop
3	0	0	Gobo A - Continuous rotation
3	1-100	1-255	Gobo A - Index position 0-370° 1.45° per DMX value
2	1-49	1-127	Gobo B - CW (Fast to slow)
2	50	128	Gobo B - Stop
2	51-99	129-254	Gobo B - CCW (Slow to Fast)
2	FL	255	Gobo B - Stop
4	0	0	Gobo B - Continuous rotation
4	1-100	1-255	Gobo B - Index position 0-370° 1.45° per DMX value

MODE FIVE: 6 CH Indexing – 16 bit resolution - Forward Control

16-Bit or high resolution indexing provides very fine position control over the orientation of the gobo but requires 1 extra control channel per gobo to accomplish this. In 8-bit resolution, each point of DMX value changes the position of the gobo by 1.45-degrees. (370-degrees / 255 values of DMX). When projected over long distances, this 1.45-degree step can make for very coarse gobo position control. In 16-Bit, high resolution, each 1.45-degree step is further divided by 255 points of DMX. With this additional channel of precision, the gobo position can be adjusted within 0.005-degrees!



To program in 16-bit resolution, Channels 1 control speed and direction of Gobo A. Channel 3 sets the coarse position of Gobo A. Channel 4 sets the fine position of Gobo A (precisely adjusting the coarse point set by Channel 3).

Channels 2, 5, & 6 similarly control Gobo B.

Mode 5 Channel assignments

CH	Level	DMX	Function / Result
1	0	0	Gobo A - Stop
2	0	0	Gobo B - Stop
1	1-49	1-127	Gobo A - CW (Slow to Fast)
1	50	128	Gobo A - Stop
1	51-99	129-254	Gobo A - CCW (Slow to Fast)
1	FL	255	Gobo A - Stop
3 + 4	0	0	Gobo A - Continuous rotation
3	1-100	1-255	Gobo A - Coarse Index 0-370° 1.45° per DMX value
4	1-100	1-255	Gobo A - Fine Index .005° per DMX value
2	1-49	1-127	Gobo B - CW (Slow to Fast)
2	50	128	Gobo B - Stop
2	51-99	129-254	Gobo B - CCW (Slow to Fast)
2	FL	255	Gobo B - Stop

CH	Level	DMX	Function / Result
5 + 6	0	0	Gobo B - Continuous rotation
5	1-100	1-255	Gobo B - Coarse Index 0-370° 1.45° per DMX value
6	1-100	1-255	Gobo B - Fine Index .005° per DMX value

MODE SIX: 6 CH Indexing – 16 bit resolution - ML Center Inverse

Mode Six is similar to Mode 5 except Speed and Direction controls are configured to Center Inverse like in Modes Two and Four.

Mode 6 Channel assignments

CH	Level	DMX	Function / Result
1	0	0	Gobo A - Stop
2	0	0	Gobo B - Stop
1	1-49	1-127	Gobo A - CW (Fast to Slow)
1	50	128	Gobo A - Stop
1	51-99	129-254	Gobo A - CCW (Slow to Fast)
1	FL	255	Gobo A - Stop
3 + 4	0	0	Gobo A - Continuous rotation
3	1-100	1-255	Gobo A - Coarse Index 0-370° 1.45° per DMX value
4	1-100	1-255	Gobo A - Fine Index .005° per DMX value
2	1-49	1-127	Gobo B - CW (Fast to slow)
2	50	128	Gobo B - Stop
2	51-99	129-254	Gobo B - CCW (Slow to Fast)
2	FL	255	Gobo B - Stop
5 + 6	0	0	Gobo B - Continuous rotation
5	1-100	1-255	Gobo B - Coarse Index 0-370° 1.45° per DMX value
6	1-100	1-255	Gobo B - Fine Index .005° per DMX value

MODE SEVEN: 4 CH Indexing Shortest Path – 8 bit

In Mode Seven, control of speed, direction, and 8-bit index position is separated into 2 channels for each gobo. Channel 1 sets Gobo A to rotating CW,

increasing speed from 0-100% (0-255 DMX). Channel 2 will set Gobo A spinning CCW, speed varying from 0-100% based on level. If BOTH Channel 1 and 2 are at levels other than 0, then Channel 2 sets the 8 bit index position. The gobo will rotate, at the speed set by Channel 1 until it reaches the index point set by Channel 2 and then stop. If either channel is then taken to 0, rotation will resume with speed and direction according to the level set on the active channel.

Control of Gobo B uses Channels 3 & 4 similarly.

Mode 7 Channel assignments

CH	Level	DMX	Function / Result
1 2	0 0	0 0	Gobo A - Stop
1 2	1-100 0	1-255 0	Gobo A - CW (Slow to Fast)
1 2	0 1-100	0 1-255	Gobo A - CCW (Slow to Fast)
1 2	1-100	1-255 1-255	Gobo A - CW speed to index position Gobo A - Index 0-370° (1.45°/DMX)
3 4	0 0	0 0	Gobo B - Stop
3 4	1-100 0	1-255 0	Gobo B - CW (Slow to Fast)
3 4	0 1-100	0 1-255	Gobo B - CCW (Slow to Fast)
3 4	1-100	1-255 1-255	Gobo B - CW speed to index position Gobo B - Index 0-370° (1.45°/DMX)

EFFECTS LIBRARY – NO DMX

The RevoPRO can be configured to operate with no DMX signal present by using the LED Display Panel to recall and apply one of 10 pre programmed effects sequences to either Gobo A or Gobo B. By combining any of these 10 sequences, a total of 100 variations can be achieved. The list of pre-programmed effects is:

- 0 = Continuous rotation
- 1 = Swing 181°
- 2 = Swing 80°
- 3 = Swing 21°
- 4 = Swing 360°

- 5 = Slide 116° with speed (slow to fast)
- 6 = Clock ticking
- 7 = Shaking and rotate
- 8 = Slide 360° with speed (slow to fast)
- 9 = March 5°, 5°, 5°, 5°, stop and continuous

Once applied to a specific gobo wheel, you can further set speed and direction of each of these sequences.

1. Press B1 once to enter SETUP . Display will momentarily change to SET- and then return to the previous display, blinking.
2. Press B1 until E.6XX appears in the display.
Each X corresponds to the effect applied to gobo wheel A and B respectively. For example E.600 indicates that Effect 0 (continuous rotation) has been applied to Gobo A and Gobo B. E.637 indicates that Effect 3 (swing 21°) has been applied to Gobo A and Effect 7 (Shaking and Rotate) has been applied to Gobo B.
3. Press B3 to increment the Effect Number for Gobo A
4. Press B4 to increment the Effect Number for Gobo B
5. Press B2 once. Display will show A._XX for speed and direction of GOBO A
6. Press B4 to increase speed. Positive numbers indicate CW rotation.
7. Press B3 to decrease speed. Negative numbers indicate CCW rotation.
8. Press B2 again to switch to Gobo B. Display will show B._XX
9. Press B4 to increase speed. Positive numbers indicate CW rotation.
10. Press B3 to decrease speed. Negative numbers indicate CCW rotation.
11. Press and hold B2 to SAVE.

Depending on the effects sequence selected, RevoPRO may run through a homing sequence before activating the specified effects. To adjust the speed and direction of this program, repeat steps 1-12 without changing the Effects numbers in steps 1-4. RevoPRO will recall and restore the last programmed effects sequence in the event of a power loss or Operation Mode change.

Note: Some effects sequences (notably, #3, #6, #9) that create quick alternating movements may and which are run at high speeds may cause minor clicking noises due to the fast direction changes. Reduce the speed settings to minimize this.

		GOBO A EFFECT									
		0	1	2	3	4	5	6	7	8	9
GOBO B EFFECT	0	E600	E610	E620	E630	E640	E650	E660	E670	E680	E690
	1	E601	E611	E621	E631	E641	E651	E661	E671	E681	E691
	2	E602	E612	E622	E632	E642	E652	E662	E672	E682	E692
	3	E603	E613	E623	E633	E643	E653	E663	E673	E683	E693
	4	E604	E614	E624	E634	E644	E654	E664	E674	E684	E694
	5	E605	E615	E625	E635	E645	E655	E665	E675	E685	E695
	6	E606	E616	E626	E636	E646	E656	E666	E676	E686	E696
	7	E607	E617	E627	E637	E647	E657	E667	E677	E687	E697
	8	E608	E618	E628	E638	E648	E658	E668	E678	E688	E698
	9	E609	E619	E629	E639	E649	E659	E669	E679	E689	E699

STAND ALONE MODE - USER DEFINED ROTATION

To set and store your own rotation effect, use Effect 0 Continuous Rotation applied to both gobos. This allows you to define the exact speed and direction of each gobo and recall this customized specification without using a DMX console.

1. Press B1 once to enter SETUP . Display will momentarily change to SET- and then return to the previous display, blinking.
2. Press B1 until E.600 appears in the display.
3. Press B2 once. Display will show A._XX for speed and direction of GOBO A
4. Press B4 to increase speed. Positive numbers indicate CW rotation.
5. Press B3 to decrease speed. Negative numbers indicate CCW rotation.
6. Press B2 again to switch to Gobo B. Display will show B._XX
7. Press B4 to increase speed. Positive numbers indicate CW rotation.
8. Press B3 to decrease speed. Negative numbers indicate CCW rotation.

9. Press and hold B2 to SAVE.

8. PRECAUTIONS

- Use only properly rated IEC power cord (18AWG 3C SJT) and connect only to compatible voltage supplies (100-240v 50-60hz)
- Always use a safety cable to insure the RevoPRO™ cannot fall out of the fixture.
- Do not allow power cord to come in contact with the hot body of the luminaire or the rear lamp cap.
- Keep fingers clear of moving parts.
- The metal case of the RevoPRO™ may get very hot after continuous use in a luminaire. Use caution to avoid burns when handling units that have been in running luminaires.

9. TROUBLESHOOTING

1. The RevoPRO™ will not fit into the Iris Slot.
 - a. Make sure the Friction Lock is in the up (disengaged) position and that the lock itself is not extending outside the metal case.
 - b. The iris slot cover of the luminaire may need to be removed to allow complete access to the slot. Fully remove the two screws holding the cover and lift off. Set aside so that the cover can be reinstalled at a later date.
 - c. Installing the RevoPRO™ into the Selecon Pacific Coolight requires that the guide channel in the side cut of the RevoPRO™ align with the rear guide track in the Pacific's iris slot.
 - d. Note: RevoPRO™ is not compatible with Philips/Selecon SPX or Leviton LEO.
2. Threaded Collar will not tighten down on gobo
 - a. Check that Threaded Collar is not cross-threaded. Gently unscrew the Threaded Collar. Reset gobo and re-thread Threaded Collar following the instructions in Section 4, Installing Gobos.
3. The projected gobo appears out of round or cut off.
 - a. The RevoPRO™ is not properly seated in the luminaire. Remove RevoPRO™ unit and reinsert making sure that the unit is seated all the way down in the light.
 - b. Note: The Selecon SPX and Leviton Leo luminaires are not currently compatible with the RevoPRO™ rotator.
4. RevoPRO™ is powered on but no LED lights appear to indicate that

- the unit is receiving power.
- a. Check LED DIM switch is set to the UP position.
 - b. Confirm power to IEC cable.
5. Display is alternating LOST 512-.
- a. RevoPRO™ is not receiving DMX signal. Check connections and console. Troubleshoot to isolate valid DMX.
6. Display is flashing 1.001 or similar sequence of numbers
- a. RevoPRO™ is in Setup mode. Use buttons to assign proper MODE and DMX Address and then Press and Hold button B2 to SAVE assignment.
7. Gobo rotation is erratic and irregular.
- a. Make sure Threaded Collar is tight enough on the gobo to prevent slipping. Do Not Over Tighten.
 - b. If using two steel gobos, check to make sure gobos have not warped towards one another and become entangled. If this has happened, use a Gobo Spacer Ring (205 83007 0000) underneath one or both metal gobos.
8. Channel is at full but gobo is not rotating.
- a. Channel levels 0, 50% and 100% (DMX 0, 128, 255) all represent STOP values for rotation. 1-49 and 51-99 are channel levels that increase or decrease speed.
9. RevoPRO™ is operating but will not respond to DMX.
- a. Check MODE. If Display reads E.6XX, RevoPRO is in Stand Alone mode. Press B1 to enter Setup mode. Use B2 – B4 to assign Mode and DMX Address as intended. Press and hold B2 to Save.
10. RevoPRO™ is behaving oddly and other DMX devices in the same chain are also behaving oddly.
- a. Confirm DMX addressing for all units. Remember that in some modes, RevoPRO™ will use 2, 4, or 6 channels of DMX. Make sure no two device share DMX address assignments.
 - b. Check cable connections for faults.
 - c. Check console. Troubleshoot to validate good DMX signal.
11. Motor is turning, but one or both gobos are not turning.
- a. Check belts. Replace if broken. Reset if out of alignment.
 - b. Check to see if gobos have warped and are entangled. If necessary, use a Gobo Spacer Ring (205 83007 0000) underneath one or both metal gobos.

- c. Check DMX Mode and programming. Channel assignments and motor control operation vary by mode. Confirm correct programming parameters for selected MODE.
12. Gobo rotation appears normal but stops when channel is brought to FULL or 100%.
- a. Check MODE selection. In Mode 2, 4, or 6 this is NORMAL operation. 99% (DMX 254) is FULL speed. 100% (DMX 255) is STOP.

10. Technical Specifications

Dimensions (w x h x d)

4.68in x 10.9in x 0.53/2.5in
119mm x 277mm x 13.4/63.6mm

Weight

31 oz (0.88Kg)

Electrical

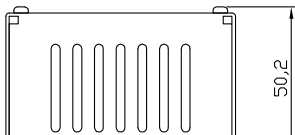
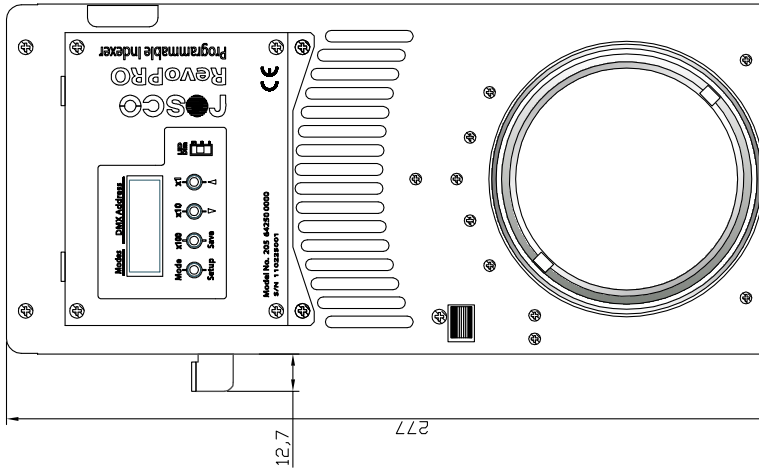
Input: 100-240VAC 50/60hz
Max Power Draw: 1A
Connector Type: IEC C13
DMX: 5-pin XLR

Operation

Speed 0.5 - 24 rpm
Operation 2, 4, or 6 channel DMX control
400-degree indexing on both gobos
8-bit or 16 bit resolution
On-board custom programming
99 stand-alone effect sequences

Gobos Type and Sizes

86mm Std B Size (metal or glass)
Apollo B (80mm) metal or glass
86mm OD x 75mmIA x 3.5mm thick
(maximum dimensions)



11. ACCESSORIES AND PARTS

Metal and Glass Gobos	www.rosco.com/us/gobos
Gobos Spacer Ring	Part No. 205 83007 0000
Threaded Collar – Gobo mounting wheel	Part No. 205 65002 0001
Silicon Belts – Set of 2 – Simple Spin	Part No. 205 65310 0000
Silicon Belts – Set of 2 – Revo & RevoPRO	Part No. 205 65420 0000
Safety Cable	Part No. 205 65008 0001
Power Cord 16/3 IEC - 6ft (1.8m)	Part No. 226 19903 0119
4-Pin Power / Data Cable – 25 ft	Part No. 205 70002 0025
5-Pin DMX Cable – 25 ft	Part No. 201 50425 0025
PSU 50	Part No. 205 71402 0050
PSU 51 (includes DMX pass-thru)	Part No. 205 71402 0051
PSU 200	Part No. 205 71402 0200

DECLARATION OF CONFORMITY

ROSCO LABORATORIES INC.,
52 Harbor View Ave
Stamford, CT 06902
United States

Hereby declares that the product(s):

Rosco DMX Iris, Rosco Simple Spin, Rosco REVO, Rosco Revopro

Model Number(s)

74500, 63100, 64200, 64250

Conform(s) to the following Product Specifications:

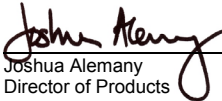
European Council Directive 2004 / 108 / EC

EN 61326-1:2006, EN 61000-3-2:2006, EN 61000-3-3, 1995+A1:2001+A2:2005

European Council Directive 2006 / 95 / EC

EN 61010-1:2001




Joshua Alemany
Director of Products

Date: June 11, 2009

13. Warranty

The warranty protection described below covers the following list of Rosco lighting effects equipment (the “Product”): Vortex 360 Gobo Rotator (all styles), DHA Gobo Rotators (all styles), DHA Animation Motor (all styles), Infinity Animation System (all styles), I-Cue Moving Mirror, X24 Effects Projector (all styles), PSU 50, PSU 51, PSU 200, PSU 400, Simple Spin Rotator, REVO Rotator, and RevoPRO Rotator.

1 YEAR LIMITED WARRANTY

Rosco Laboratories warrants to the first retail purchaser that this Product will be free from defects in workmanship and material for a period of twelve (12) months from the date of original purchase. For warranty service you must be able to provide proof of purchase.

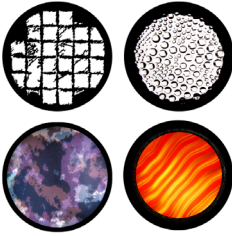
Should this Product prove defective during the warranty period, please contact your local Rosco office for return authorization. No warranty service will be performed without Return Authorization. At Rosco’s sole discretion, covered Products will be repaired or replaced with new or refurbished equipment or a model of like kind and quality. Exchanged or replaced parts and Products assume the remaining warranty period of the original Product covered by this limited warranty.

You are responsible for securely packaging the defective Product and returning it to Rosco as per the instructions on the Return Authorization. Within North America, Rosco will ship the repaired or replaced Product to you freight prepaid. Shipments to other locations will be made freight collect.

This warranty is not transferable and does not extend beyond the first retail purchase of the Product. This warranty does not cover damage to the Rosco product caused by parts not manufactured, distributed or certified by Rosco. Rosco is not obligated to provide warranty service should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as flood, fire and lightning, improper electrical current or connection or service other than by a Rosco Authorized Servicer. If a claimed defect cannot be identified or reproduced, you will be held responsible for the costs incurred.

Unless otherwise stipulated by state law, all warranties expressed or implied are limited to the twelve (12) month period of this warranty.

THE WARRANTY AND REMEDY PROVIDED ABOVE ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS PROVIDED IN THIS WRITTEN WARRANTY AND UNLESS EXCLUSIONS ARE SPECIFICALLY FORBIDDEN BY STATE LAW, NEITHER ROSCO NOR ITS AFFILIATES WILL BE LIABLE FOR ANY LOSS, INCONVENIENCE, OR DAMAGE, INCLUDING DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING INJURY TO PERSONS OR PROPERTY, RESULTING FROM THE USE OR INABILITY TO USE THE ROSCO PRODUCT, WHETHER RESULTING FROM BREACH OF WARRANTY OR ANY OTHER LEGAL THEORY.



Gobo Library

Rosco's extensive gobo library contains more than 2500 steel and glass designs and contains the inspiration and creative tools to invent almost any lighting effect a designer needs.

www.rosco.com/us/gobos/



Simple Spin™ Dual Gobo Rotator

One of Rosco's BeltDriveFX rotators, the SimpleSpin is a "set and forget" style belt drive gobo rotator. Internal auto-sensing power supply makes for easy installation anywhere in the world.



REVO™ Dual Indexing Rotator

Many of the same features as the RevoPro but powered by an external 24v power supply for convenient installation with common theatrical accessories like color scrollers and I-Cue mirror.



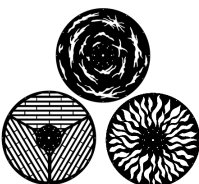
DHA Double Gobo Rotator

Proven reliable for more than 25 years, the Double Gobo Rotator uses a precision engineered gear drive to rotate two gobos independent of one another. Manual and DMX Controllers are available for this 12v device.



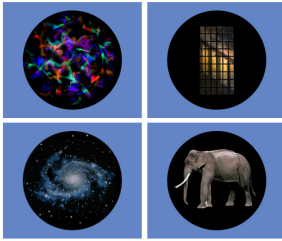
Vortex 360 Gobo Rotator

The durability and reliability of a gear drive at a value-engineered price. The Vortex uses an external 12v transformer and is controlled by an on-board speed potentiometer.



Infinity Animation Effects System

A large rotating disk of your selection animates any gobo with realistic and kinetic movement. Shimmering fire, falling rain, blowing clouds and leaves are among a few of the linear effects created with the Infinity.



iPro Image Projector

This innovative accessory holds and cools a plastic gobo printed from an ordinary ink jet printer. Project any full color or black and white image you imagine from your Source Four or similar leko within minutes.



I-Cue Moving Mirror

A perfect accessory to expand your light-plot. This silent, accurate motorized mirror attachment turns your simple leko into an infinite number of lighting specials.



X24 Effects Projector

Bright, dynamic, unique rippling light effects. Weighing barely 12 lbs but with a 5000 lumen output, the X24 projector creates dazzling, water and fire effects, aurora borealis, and



Corporate Office

52 Harbor View Ave
Stamford CT 06902

M +1 203 708-8900

F +1 203 708-8919

Toll Free (800) ROSCO NY

info@rosco.com

www.rosco.com

Western US Sales Office

1265 Los Angeles Street
Glendale CA 91204

M +1 818 543-6700

F +1 818 662-9470

Rosco Iberica SA - Spain

C/Oro, 76 Poligono Industrial Sur
28770 Colmenar Viejo, Madrid
Espana

M +34 918 473 900

F +34 918 463 634

info-spain@rosco-iberica.com

Rosco Canada

1241 Denison St #44
Markham, Ontario L3R 4B4

M +1 905 475-1400

F +1 905 475-3351

info@roscocanada.com

Rosco do Brasil

R. Visconde de Itaboraí, 141
Tatuapé, São Paulo - SP
Cep: 03308-050

M +55 2098 2865

F +55 2098 0193

info-brazil@rosco.com

Roscolab Ltd - England

Kangley Bridge Road
Sydenham, London SE26 5AQ
United Kingdom

M +44 20 8659 2300

F +44 20 8659 3153

sales@rosco-europe.com

Rosco Australia PTY Ltd

42 Sawyer Lane, Artarmon
New South Wales 2064

M +(02) 9906 6262

F +(02) 9906 3430

roscoaus@rosco.com.au

www.rosco.com

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

1. Identification of the Substance/Mixture & Of The Company/Undertaking

1.1. **Product Identifier:**

Name (Synonyms): Pro Smoke Super Fluid (ZR Fluid)
Pro Smoke Studio Fluid (DX Fluid)
Pro Smoke High Density Fluid (SP Fluid)
Pro Steam Simulation Fluid (Pro Steam Fluid)
Regular DJ Fluid (DJ Fluid)
i-Fog Fluid (i-Fog Fluid)
Pro Haze Fluid (Pro-Haze Fluid)
Heavy Fog A1 Fluid (A1 Fluid)
Heavy Fog B2 Fluid (B2 Fluid)
Heavy Fog C3 Fluid (C3 Fluid)
K1 Haze Fluid (K1 Fluid)
C-Plus Haze Fluid (C-Plus Fluid)
Pro Clean Supreme Fluid (Pro Clean Fluid)

1.2. **Relevant Identified Uses Of The Substance Or Mixture And Uses Advised Against:**

Fluid mixture for use in the creation of smoke or haze effects using a dedicated JEM or Martin brand smoke or haze machine.

1.3. **Details Of The Supplier Of The Safety Data Sheet:**

Martin Manufacturing (UK) Plc.
Belvoir Way,
Fairfield Industrial Estate,
Louth,
Lincolnshire,
LN11 0LQ
UK
Tel: +44 (0) 1507 604399
Fax: +44 (0) 1507 601956
Email: jem-service@martin.dk

1.4. **Emergency Telephone Number:**

+45 87 40 00 00 (24Hr)

2. Hazards Identification:

2.1. **Classification Of The Substance Or Mixture:**

This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008.
No risk or safety phrases stipulated.

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

2.2. Label Elements:

Label Name: Pro Smoke Super Fluid (ZR Fluid)
Pro Smoke Studio Fluid (DX Fluid)
Pro Smoke High Density Fluid (SP Fluid)
Pro Steam Simulation Fluid (Pro Steam Fluid)
Regular DJ Fluid (DJ Fluid)
i-Fog Fluid (i-Fog Fluid)
Pro Haze Fluid (Pro-Haze Fluid)
Heavy Fog A1 Fluid (A1 Fluid)
Heavy Fog B2 Fluid (B2 Fluid)
Heavy Fog C3 Fluid (C3 Fluid)
K1 Haze Fluid (K1 Fluid)
C-Plus Haze Fluid (C-Plus Fluid)
Pro Clean Supreme Fluid (Pro Clean Fluid)

No other elements are needed in accordance with Article 25 and Article 32(6) of Regulation (EC) No 1272/2008.

2.3. Other Hazards:

This mixture is for the production of synthetic smoke in an appropriate JEM or Martin brand smoke machine only.

Ingestion	Very low toxicity
Eye/skin	Very low toxicity
Inhalation	Low concentration of hazardous substances in vapour. Undiluted vapour should not be inhaled. (Note: The concentration of smoke components in the final product is below the OES under normal operating conditions)

3. Composition/Information On Ingredients

3.1. Substances:

Food/High Grade glycols:
Monopropylene Glycol: CAS Registry Number: 57-55-6
Triethylene Glycol: CAS Registry Number: 112-27-6

De-mineralised water.

Contains no substances stated in the Globally Harmonised System of Classification and Labelling of Chemicals.

Contains monopropylene glycol, for which a community workplace exposure limit has been set.

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

3.2. *Mixtures:*

The largest single component of this product is de-mineralised water.

Other ingredients: 5% - 40%

4. First Aid Measures

4.1. *Description Of First Aid Measures:*

Exposure Route	Symptom	Treatment
Inhalation	Mild irritation of nose & throat	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention
Skin Contact	Mild irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before re-use. If large areas of the skin are damaged or if irritation persists seek medical attention
Eye Contact	Mild irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention
Ingestion	Mild irritation of gastro-intestinal tract	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention

4.2. *Most Important Symptoms And Effects, Both Acute And Delayed:*

Mild irritation of nose & throat

Remove from exposure, rest and keep warm.

In severe cases, or if recovery is not rapid or complete, seek medical attention.

4.3. *Indication Of Any Immediate Medical Attention And Special Treatment Needed:*

None stated.

5. Fire Fighting Measures

5.1. *Extinguishing Media:*

Suitable Extinguishers:

Alcohol-resistant or all-purpose-type foam.

Use carbon dioxide or dry powder for small fires only.

Unsuitable Extinguishers:

Do not direct a solid stream of water or foam into hot burning pools; as this may cause frothing and increase the intensity of a fire.

5.2. *Special Hazards Arising From The Substance Or Mixture:*

Hazardous Combustion Product

Oxides of carbon including aldehydes.

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Replaces SDS No.:111G Date:16/04/2013

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

5.3. Advice For Firefighters:

Special equipment for fire fighting:
Self-contained breathing apparatus.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment And Emergency Procedures:

Wear appropriate PPE when handling - see section 8.2.

6.2. Environmental Precautions:

Prevent entry into drains and water courses.

6.3. Methods And Material For Containment And Cleaning Up:

Cover drains to prevent entry into water courses.
Bund or absorb material with sand, earth or other suitable absorbent material.
If possible, transfer to a salvage tank, otherwise absorb residues and place in suitable labelled containers and hold for waste disposal.

6.4. Reference To Other Sections:

See section 13 for disposal procedures.

7. Handling and Storage

7.1. Precautions For Safe Handling:

Avoid prolonged skin contact.
Avoid contact with eyes.
Avoid spills.
Ensure good general ventilation of area.
Avoid creating spray.
Do not breathe undiluted vapour.

7.2. Conditions For Safe Storage, Including Any Incompatibilities:

Store in original closed containers.
Store at ambient temperature.
Store away from materials listed in section 10.

7.3. Specific End Use(s):

Only for use in a designated smoke machine for the production of smoke as a special effect.

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

8. Exposure Controls/Personal Protection

8.1. Control Parameters:

8.1.3. Exposure Limit Values

Does not exceed 10mg/m³ for particulate suspension and 474mg/m³ for total vapour plus particulates.

OES for monopropylene glycol set at 150 ppm (total vapour and particulates) for 8-hour TWA, and 10 mg/m³ (particulates) for 15-minute STEL.

Norway - Substance with CAS number 57-55-6 has Norwegian exposure limits of: 25 ppm and 79 mg/m³

8.2. Exposure Controls:

Recommended PPE:

Respiratory	None needed under normal handling conditions
Hand	None needed under normal handling conditions
Eye	None needed under normal handling conditions
Skin	Overalls and boots
Hygiene	Always wash thoroughly after handling chemicals

9. Physical and Chemical Properties

9.1. Information On Basic Physical And Chemical Properties:

Appearance:	Colourless liquid
Odour:	Mild
Odour threshold:	No data available to us
pH:	Neutral
Melting point/range:	< -20°C
Boiling point/range:	101.6 - 201.6°C
Flash point:	> 78 °C (test flame extinguished at 78°C)
Evaporation rate:	0.003
Flammability:	No data available to us
Flammability limits:	2.9 - 18.1 v/v (estimated)
Vapour pressure:	2.67 kPa at 20°C
Vapour density:	3.9
Relative density:	1.050 at 20 °C/20°C
Solubility:	Completely miscible in water
Partition coefficient: n-octanol/water:	No data available to us
Auto-ignition temperature:	No data available to us
Decomposition temperature:	No data available to us
Viscosity:	No data available to us
Explosive properties:	No data available to us
Oxidising properties:	No data available to us

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SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

9.2. Other Information:

No data available to us.

10. Stability and Reactivity

10.1. Reactivity:

No data available to us.

10.2. Chemical Stability:

Stable in normal conditions.

10.3. Possibility Of Hazardous Reactions:

Possibility of explosive decomposition if combined with strong acids or bases at elevated temperatures.

10.4. Conditions To Avoid:

Elevated temperatures.

10.5. Incompatible Materials:

Strong acids and bases; strong oxidisers.

10.6. Hazardous decomposition products:

Oxides of carbon, including aldehydes.

11. Toxicological Information

11.1. Information On Toxicological Effects:

LD50 for monopropylene glycol:

21000 - 33700 mg/kg oral - rat, >10000 mg/kg skin - rabbit.

May cause slight irritation to skin, eyes and mucous membranes.

Large doses may produce adverse effects on liver, kidneys and central nervous system.

No evidence in developmental toxicity studies for either embryotoxic or teratogenic effects.

12. Ecological Information

12.1. Toxicity:

Short and long-term effects

LC50, fathead minnow = 4600 - 54900 mg/l

EC50, Daphnia magna = 4850 - 34400 mg/l

12.2. Persistence And Degradability:

The preparation is largely biodegradable:

BOD5 = 1.08 gO₂/g; ThOD = 1.68 gO₂/g; COD = 1.63 gO₂/g

BOD₂₀/ThOD = 86%

Revision No.: H Date:17/04/2013

Replaces SDS No.:111G Date:16/04/2013

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MARTIN SMOKE & HAZE FLUID

12.3. Bioaccumulative Potential:

Low.

12.4. Mobility In Soil:

Liquid with low volatility, soluble in water, predicted to have high mobility in soil.

12.5. Results Of PBT And vPvB Assessment:

No data available to us.

12.6. Other Adverse Effects:

13. Disposal Considerations

13.1. Waste Treatment Methods:

a. Substance:

Via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

b. Container:

As for substance. Used containers must not be cut up or punctured until completely purged of product residues.

14. Transport Information

No special precautions for transport

14.1. UN Number:

Not Regulated.

14.2. UN Proper Shipping Name:

Not Regulated.

14.3. Transport Hazard Class:

Not Regulated.

14.4. Packing Group:

Not Regulated.

14.5. Environmental Hazards:

Not Regulated.

14.6. Special Precautions For User:

Not Regulated.

14.7. Transport In Bulk According To Annex II Of MARPOL73/78 And The IBC Code:

Not Regulated.

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

15. Regulatory Information

15.1. *Safety, Health And Environmental Regulations/Legislation Specific For The Substance Or Mixture:*

Symbol: No risk or safety phrases stipulated

Risk phrases: No risk or safety phrases stipulated

Safety phrases: No risk or safety phrases stipulated

E.E.C. Number: No risk or safety phrases stipulated

Use of this material may be governed by the following regulations:

EU Regulation 453/2010

Users are advised to consult these regulations for further information.

15.2. *Chemical Safety Assessment:*

No data available to us.

16. Other Information

The information contained in this data sheet does not constitute an assessment of workplace risk as required by other health and safety legislation.

No special training is required for handling this preparation other than normal precautions for safe handling of chemicals

This material is usually used for the production of synthetic smoke or haze in an appropriate JEM or Martin brand smoke or haze machine.

The concentration of smoke components is below the OES under normal operating conditions.

It must not be used for any other purpose, or in any other equipment

Further details may be available on request from the supplier, whose address, telephone number and email address are given in section 1.

Sources of information:

1. Suppliers' Safety Data Sheets for substances used as raw materials in the preparation.
2. EH 40/97
3. NFPA 325M

Legal Disclaimer:

Although we always attempt to make our information as accurate, current, and complete as possible, the information herein is provided "as is" without any express or implied warranty of any kind. As such we disclaim liability for any inaccuracy, non-currency or incompleteness of any individual item herein and the inability to fulfil any purpose contemplated. We disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by any use of, the product not in conformity with the instructions herein.

SAFETY DATA SHEET

MARTIN SMOKE & HAZE FLUID

If you have purchased the product for supply to a third party, it is your duty to take all necessary steps to ensure that any person handling and using the product is provided with the information in this sheet. If you are an employer it is your duty to tell your employees and others who may be affected by any hazard described in this sheet and of any precautions that should be taken. We disclaim liability for any injury, damage, direct or indirect loss, consequential or economic loss or any other loss occasioned by you by any non-compliance with this instruction

Any further information needed please contact: Email: jem-service@martin.dk

READ AND SAVE THESE INSTRUCTIONS

P/N 35010042-D



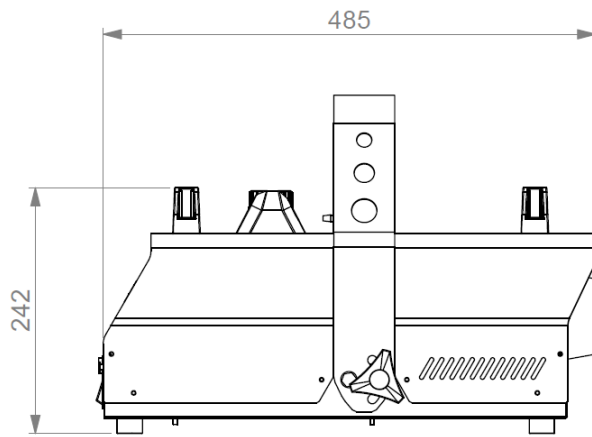
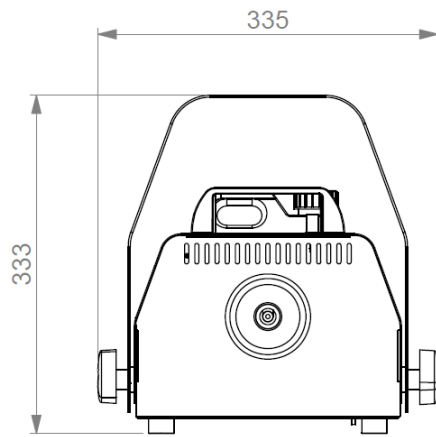
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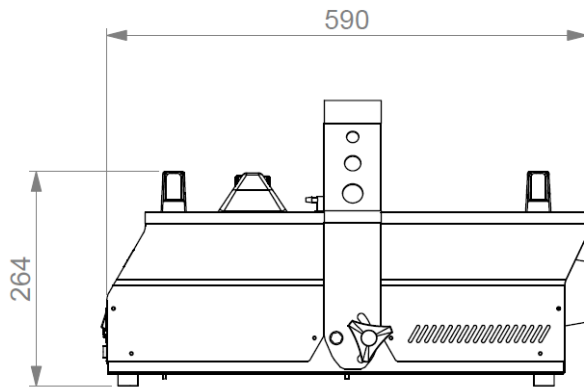
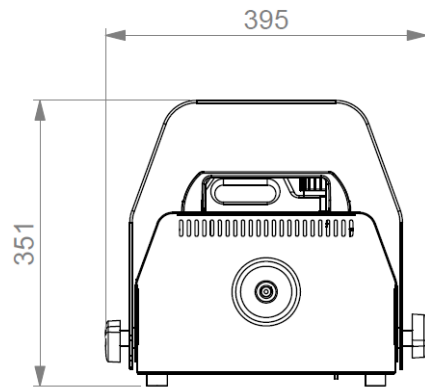
Dimensions/Legal

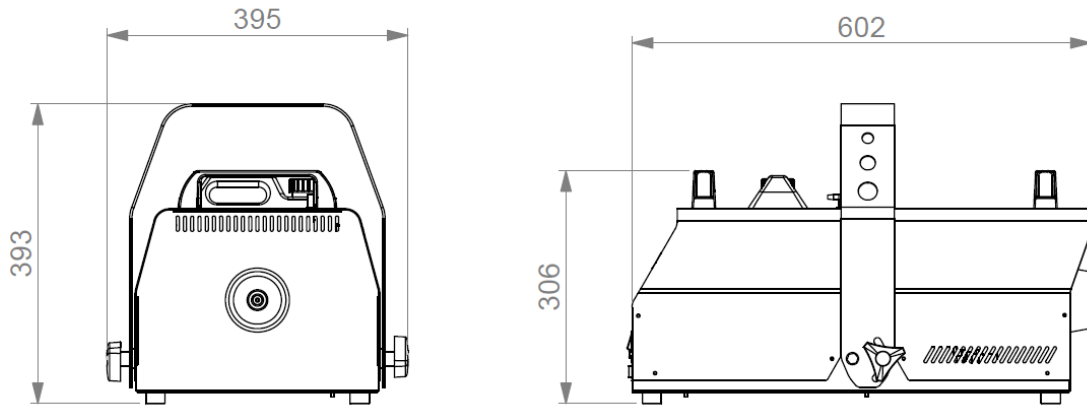
All dimensions are in millimeters

ZR25™



ZR35™





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Safety information



Read the safety precautions in this manual before installing, operating or servicing this product.

The following symbols are used to identify important safety information:



Caution! Safety hazard. Risk of severe injury or death.



Caution! Burn hazard. Hot surface. Do not touch.



Danger! Hazardous voltage. Contact will cause electric shock.



Caution! Fire hazard.



Warning! This product is not for household use. It presents risks of injury due to electric shock, burns, falls and respiratory problems!

Read this manual before operating the machine, follow the safety precautions listed below, and observe all warnings in this manual and printed on the machine. Use the machine only as described in this manual and in accordance with local laws and regulations.

If you have questions about how to operate the machine safely, or if you have followed the instructions in this manual and the machine is malfunctioning, please contact Martin™ Service.

Preventing electric shocks



- Always ground (earth) the machine electrically.
- Use only a source of AC power that complies with local building and electrical codes, and that has both overload and ground-fault protection.
- Before connecting the machine to power, check that the voltage indicated on the machine's serial label matches your local AC power voltage. If your AC power voltage does not match, do not use the machine. Contact Martin™ Service for assistance.
- Before using the machine, check that all power distribution equipment and cables are in perfect condition and rated for the current requirements of all connected devices.
- If the machine or any cables connected to it are in any way damaged, defective, wet, or show signs of overheating, stop using the machine and contact Martin™ Service for assistance. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- Disconnect the machine from AC power before servicing and when not in use.

- This machine is not waterproof and should not be exposed to wet outdoor conditions. Do not immerse in water or any other liquid. Do not expose to high-pressure water jets.
- Do not spill fluid over or inside the machine. If fluid is spilled, disconnect AC power and clean with a damp cloth. If fluid is spilled onto electronic parts, take the machine out of service and contact Martin™ for advice.
- Do not remove the covers or attempt to repair a faulty machine. Refer any service not described in this manual to Martin™.
- Do not operate the machine if any parts are damaged, defective or missing.
- Moisture and electricity do not mix. Do not aim fog output at electrical connections or devices.

Preventing burns and fire



- The fog produced by the machine is hot enough to cause burns when it leaves the nozzle, and very hot droplets of fluid escape occasionally. Keep people and objects at least 600 mm (24 in.) away from the fog output nozzle.
- Do not touch the fog output nozzle during or after use – it becomes extremely hot and remains hot for several hours after the machine has been shut down.
- Fog output contains glycol, a flammable alcohol that burns with an almost invisible blue flame. Do not point fog output at sources of ignition such as open flames or pyrotechnic effects.
- Do not attempt to bypass thermostatic switches, fluid sensors or fuses.
- Replace fuses only with ones of the type and rating specified in this manual for the machine.
- Provide a minimum free space of 100 mm (4 in.) around the machine.
- Provide a minimum free space of 500 mm (20 in.) around fans and air vents and ensure free and unobstructed air flow to and around the machine.
- Keep the machine at least 600 mm (24 in.) away from combustible and heat-sensitive materials.
- Do not operate the machine if the ambient temperature (Ta) is below 5° C (41° F) or above 40° C (104° F).
- Do not operate the machine if the relative air humidity exceeds 80%.

Preventing injuries

- Fasten the machine securely to a fixed surface or structure when in use. The machine is not portable when installed.
- Ensure that any supporting structure and/or hardware used can hold at least 10 times the weight of all the devices they support.
- If suspending from a rigging structure, fasten the machine to a rigging clamp. Do not use safety cables as the primary means of support.
- If the machine is installed in a location where it may cause injury or damage if it falls, install as directed in this manual a secondary attachment such as a safety cable that will hold the machine if a primary attachment fails. The secondary attachment must be approved by an official body such as TÜV as a safety attachment for the weight that it secures, must comply with EN 60598-2-17 Section 17.6.6 and must be

capable of bearing a static suspended load that is ten times the weight of the machine and all installed accessories.

- Check that all external covers and rigging hardware are securely fastened.
- Block access below the work area and work from a stable platform whenever installing, servicing or moving the machine.
- Do not operate the machine with missing or damaged covers or shields.
- In the event of an operating problem, stop using the machine immediately and disconnect it from power. Do not attempt to use a machine that is obviously damaged.
- Do not modify the machine in any way not described in this manual or install other than genuine Martin™ parts.
- Refer any service operation not described in this manual to a qualified technician.
- Fog output can cause condensation. Do not point the output at smooth floors. Floors and surfaces may become slippery. Check these frequently and wipe dry as necessary to avoid any danger of slipping.
- Ensure at least 2 m (6.6 ft.) visibility in areas where fog is being produced.
- Fog fluid contains food-grade glycols in solution but may present health risks if swallowed. Do not drink it. Store it securely. If eye contact occurs, rinse with water. If fluid is swallowed, give water and obtain medical advice.
- This appliance is not intended for use by persons (including children) with reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Preventing breathing problems



- A machine can operate safely only with the fog fluid it is designed for. Use the machine only with fluids specified under “Approved fluid types” on page 21 or you may cause the release of toxic gases, presenting a severe health hazard. You will also probably damage the machine.
- Do not create dense fog in confined or poorly ventilated areas.
- Do not expose people with health problems (including allergic and/or respiratory conditions such as asthma) to fog output.
- Do not point fog output directly at a person’s face or at face height.

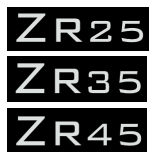
For the latest user documentation and other information for this and all Martin™ products, please visit the Martin™ website at <http://www.martin.com>
If you have any questions about how to install, operate or service the fixture safely, please contact your Martin™ distributor (see www.martin.com/distributors for details) or call the Martin™ 24-hour service hotline on +45 8740 0000, or in the USA on 1-888-tech-180.

Product overview

Product description

The JEM ZR25™, ZR35™ and ZR45™ provide a uniquely flexible and convenient solution to a wide range of fog requirements whether permanently installed or taken on the road. Featuring a high efficiency heating block and accepting multiple weights of fluid, the JEM ZR series™ products can create anything from an ephemeral steam chase to a dense, long-lasting “whiteout”.

An advanced control panel with LCD screen can be operated on the machine or removed and used as a remote controller, or the machines may be operated by DMX with full RDM capability for remote setup and status monitoring.



This manual contains instructions for all machines in the range, but some features are different. These symbols show information which is specific to a particular machine.

Congratulations on your purchase of a JEM ZR series™ product from Martin™. Details of the full range of Martin™ products are available on our website at www.martin.com.

Features at a glance

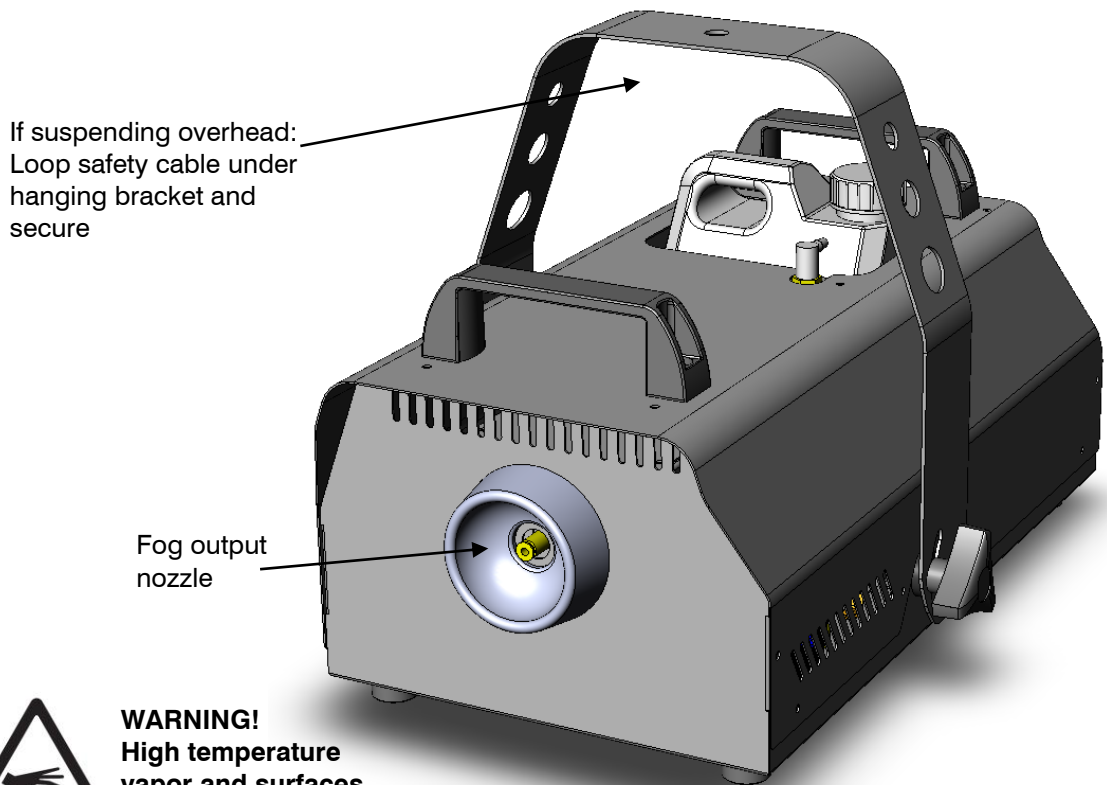
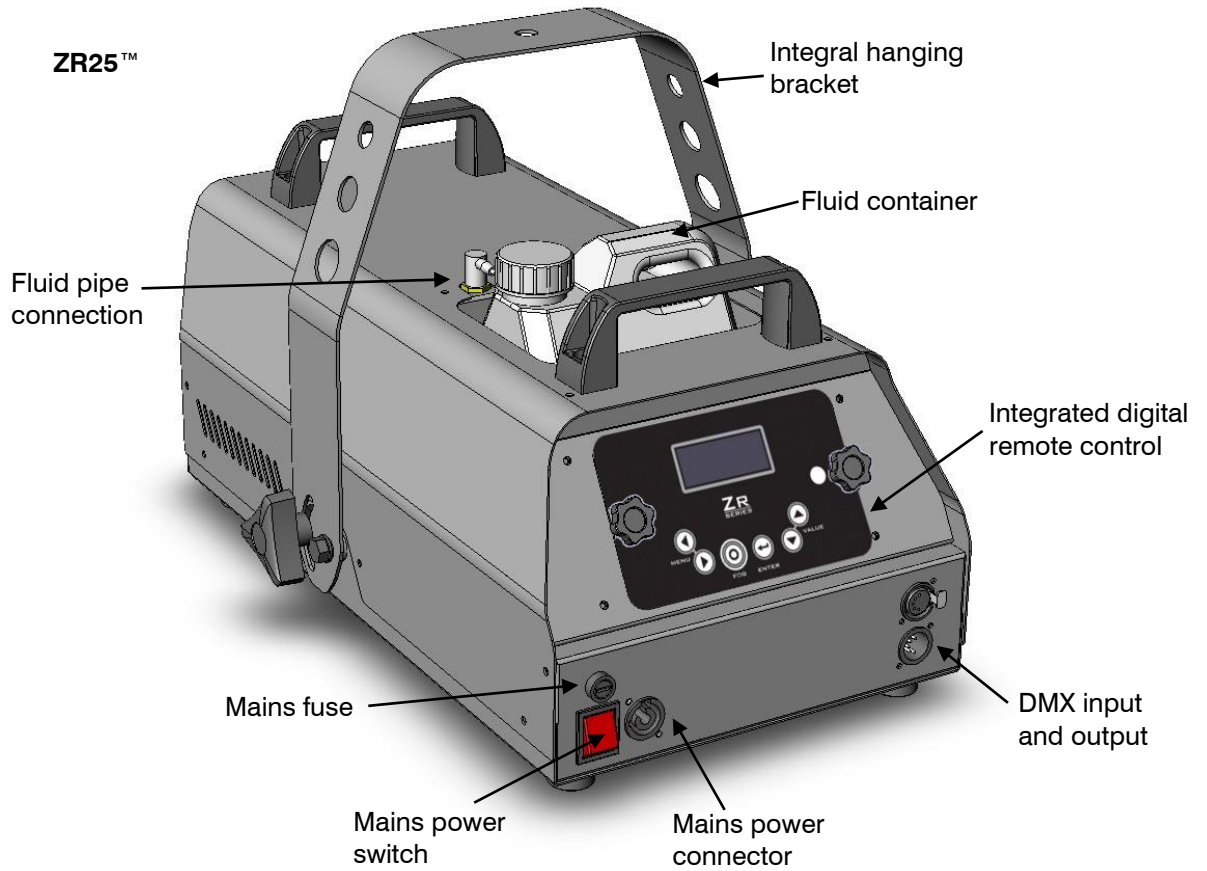
- Robust roadworthy design
- Integrated digital remote control
- DMX with RDM
- Hanging bracket included
- Continuous micro-processor controlled effect output
- Diverse fluid options for different applications
- Soft start technology
- Fluid sensing system
- Easy external fluid hook-up
- Optional PLC Interface and ducting kits



Use only an approved Martin™ fog fluids as shown on page 21. Use of other fluid will void warranty.

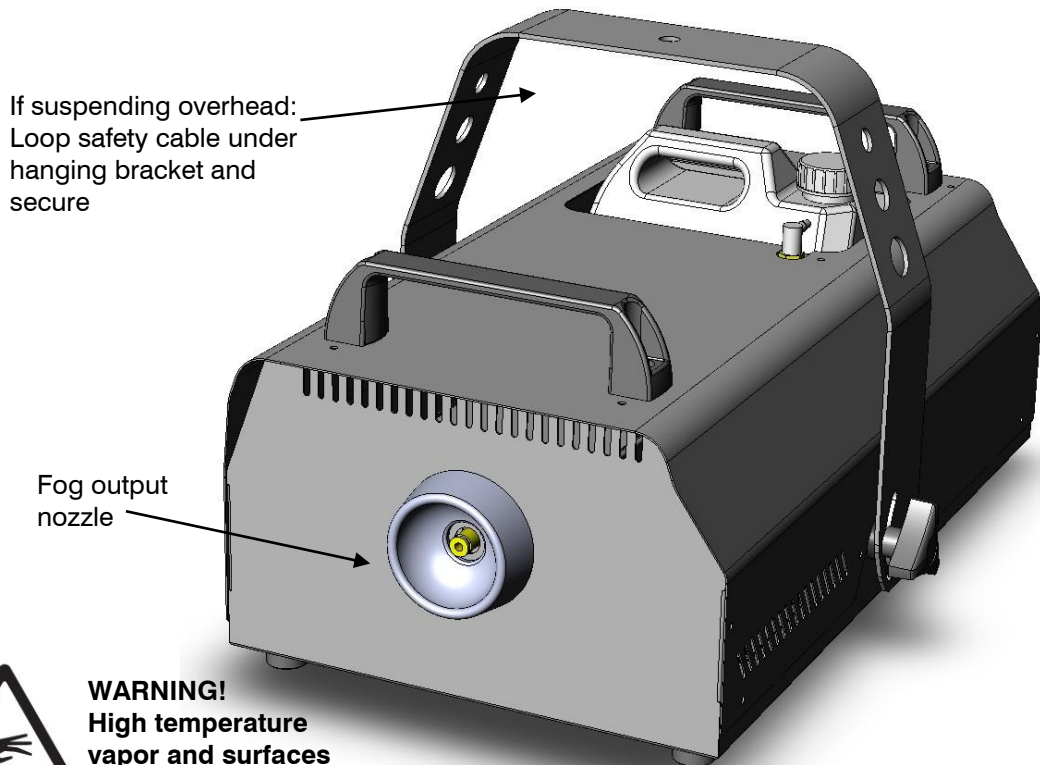
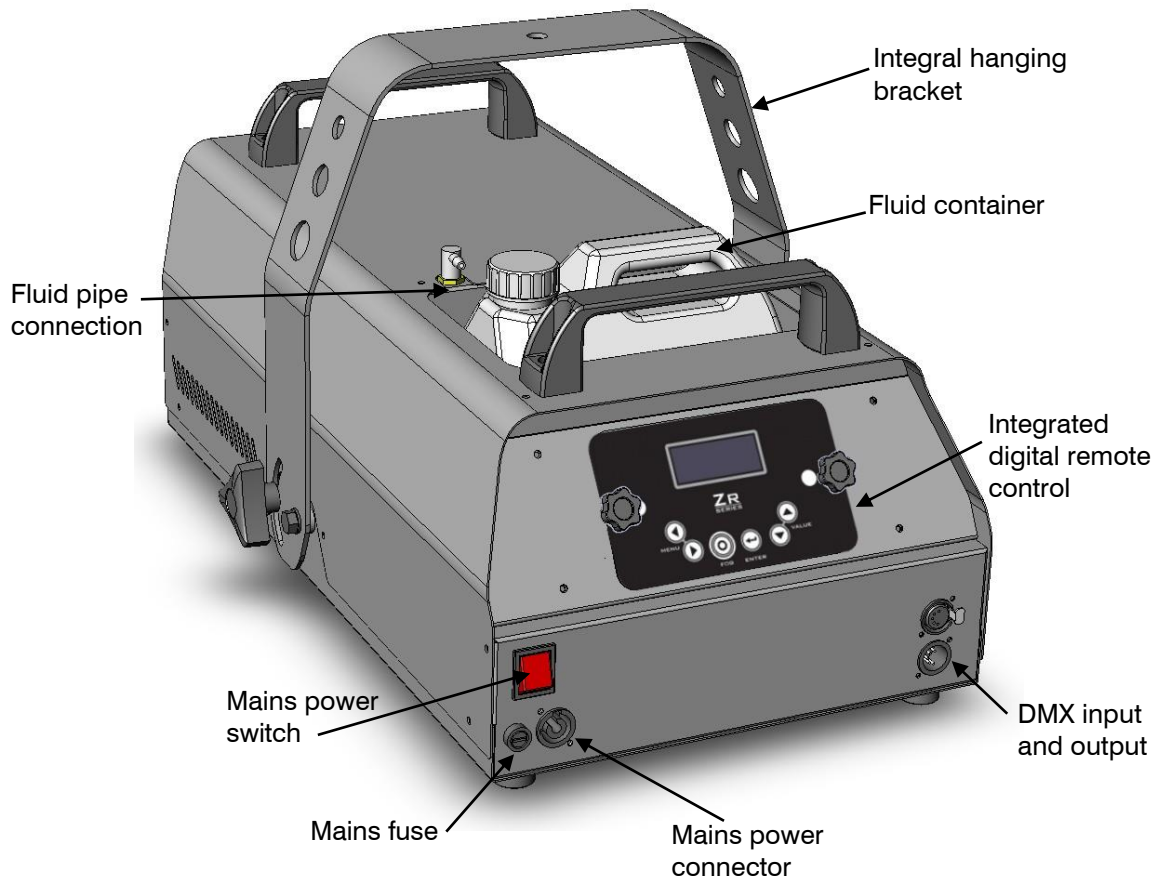
Product details

ZR25™



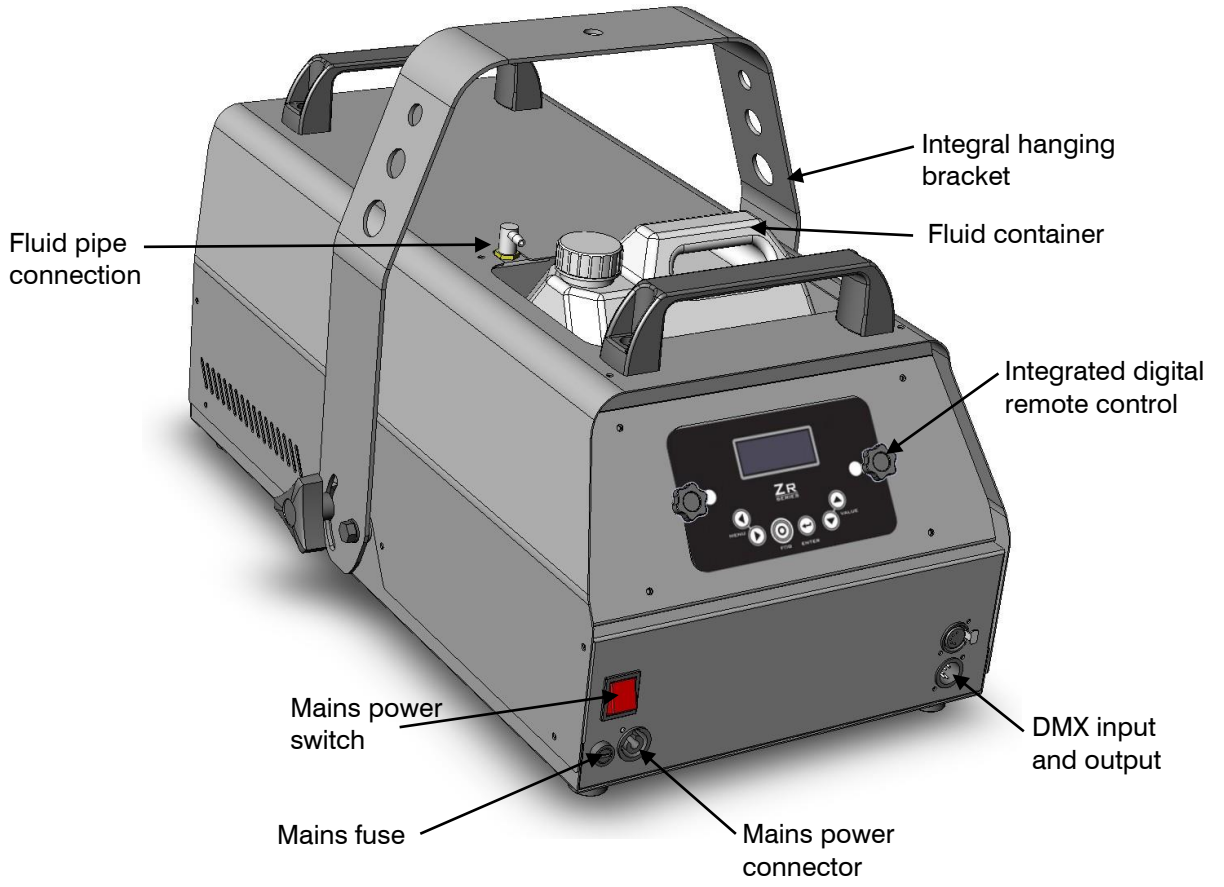
WARNING!
High temperature
vapor and surfaces

ZR35™

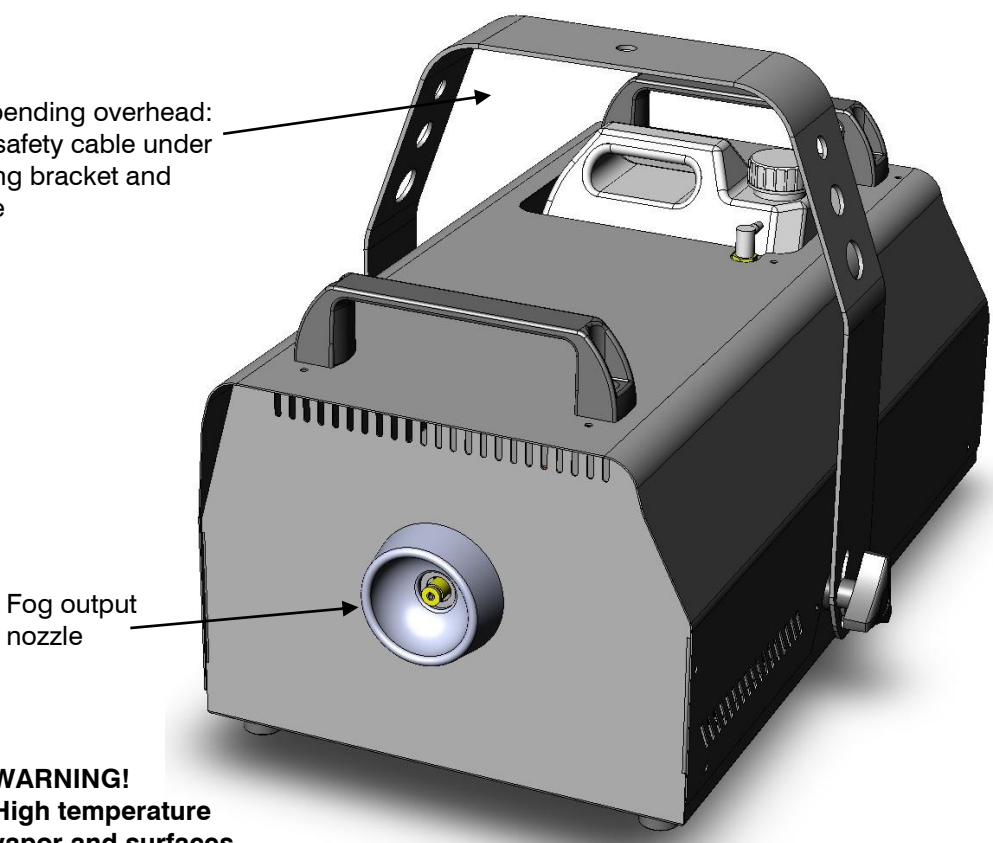


WARNING!
High temperature
vapor and surfaces

ZR45™



If suspending overhead:
Loop safety cable under
hanging bracket and
secure



WARNING!
High temperature
vapor and surfaces

Quick Start

You are no doubt eager to switch on the machine and try it out by making a lot of fog. This section tells you how to do that. However, please also make the time to read the safety and servicing instructions in the remainder of this manual.

Setting up

Locate the machine in a suitably large area with nothing in front of the fog output.

Fill the fluid tank with an approved Martin™ fog fluid as shown on page 21.

Connect the machine to a suitably rated power source. The power requirements are:

ZR25 1200W 220-240V EU / 1050W 100-130V US

ZR35 1550W 220-240V EU / 1450W 100-130V US

ZR45 2100W 220-240V EU / 1800W 100-130V US

Now set the mains switch on the rear of the unit, to the 'ON' (I) position. The display will show **HEAT**. If the display shows **OFF**, press the **FOG** button on the control panel or set the **RUN MODE** to **CONTINUOUS**. After about 6-8 minutes the display should show **FOG LEVEL** (along with the set output level) and the machine will begin producing fog. If the display shows **READY** press the **FOG** button on the control panel.

Making fog

If you want to adjust the fog density manually, press the Menu < > buttons until the display shows **FOG LEVEL** and use the Value up/down buttons to select a value above 0% then press the Enter button to store this value.



*If no fog is produced it may be necessary to prime the machine. Press the Menu < > buttons until the display shows **PRIME** (located in the **SETTINGS** submenu), then press the Value Up button so the display shows **YES**, then press the Enter button.*

Installation and Setting Up



DANGER! DO NOT operate the machine until you have read and observed all the precautions listed under “Safety information” on page 5.

Location

The JEM ZR series™ machines are designed to be located on the floor or may be suspended using the fitted hanging bracket. The machine can operate in any orientation from 45 degrees upwards to 45 degrees downwards. Steeper tilting may cause fluid leakage.

If the machine is to be suspended, ensure the mounting surface can support the weight of the machine. Do not suspend the machine over areas where people will be underneath. Use only the fitted hanging bracket to suspend the machine.

Ensure that there is at least 100mm (4 in.) clearance all-round the machine and at least 600mm (24 in.) in front of the fog output.



The machine is delivered with white nylon shipping bolts fitted to the hanging bracket in place of the normal hand-wheel bolts. Before first use, remove the shipping bolts and replace them with the hand-wheel bolts (outside of bracket) and spacers (inside of bracket) which are supplied separately in the packaging.

AC power

Before using the machine, ensure that a grounding-type (earthed) power plug that fits the local power outlets is installed on the power cable provided.



DANGER! Make sure the power plug is correctly rated:

- For EU ZR25, ZR35, ZR45 models use a plug rated at 10 A minimum.
- For US ZR25 use a plug rated at 10 A minimum.
- For US ZR35 use a plug rated at 15 A minimum.
- For US ZR45 use a plug rated at 20 A minimum.

When installing the plug, follow the plug manufacturer’s instructions and connect pins as follows:

Yellow and green wire to ground (earth), blue wire to neutral and brown wire to live.

The table below shows some common pin identification schemes.

wire	function	marking	screw colour
brown	live	“L”	yellow or brass
blue	neutral	“N”	silver
green/yellow	earth		green

Before connecting the machine to power, verify that the AC supply is adequately dimensioned for the current draw of the machine.

ZR25 1200W 220-240V EU / 1050W 100-130V US

ZR35 1550W 220-240V EU / 1450W 100-130V US

ZR45 2100W 220-240V EU / 1800W 100-130V US

Check that the local AC voltage is appropriate, as indicated on the machine's serial number label. If your AC voltage is outside the appropriate range, do not use the machine. Contact Martin™ Service for assistance.

Setting up

Fill the fluid tank with an approved Martin™ fog fluid as shown on page 21. If DMX control is being used, connect the machine to the DMX line (see page 19).

If you are using several machines from one control panel in master-slave link mode, link the machines in a daisy-chain using the DMX input and output sockets. It does not matter which socket is used as input or output.

Final checks

Before applying power to the machine, verify the following:

- the machine is safely located or installed and meets the location requirements stated on page 13
- the operator is familiar with, and able to comply with, the requirements for safe operation listed on page 5.
- the fluid is one of the Approved Martin™ fluids listed under “Approved fluid types” on page 21.
- the machine is electrically grounded (earthed)
- the AC power distribution circuits and lines are adequately rated for the current load

Turning on the power

Set the mains switch on the rear of the unit, to the 'ON' (I) position. The display will show **HEAT**. If the display shows **OFF**, press the **FOG** button on the control panel or set the **RUN MODE** to **CONTINUOUS**. After about 6-8 minutes if no DMX is connected the display should show **FOG LEVEL** (along with the set output level) and the machine will begin producing fog. If DMX is connected the display will show **DMX** when the machine is ready.

The machine will remember its state from when it was turned off last time, so it will only power up in OFF mode if you have previously disabled the heaters.



To obtain maximum output, wait another few minutes after the READY indication is shown, as the machine continues to heat to full operating temperature and fog output is reduced while the unit is heating up.

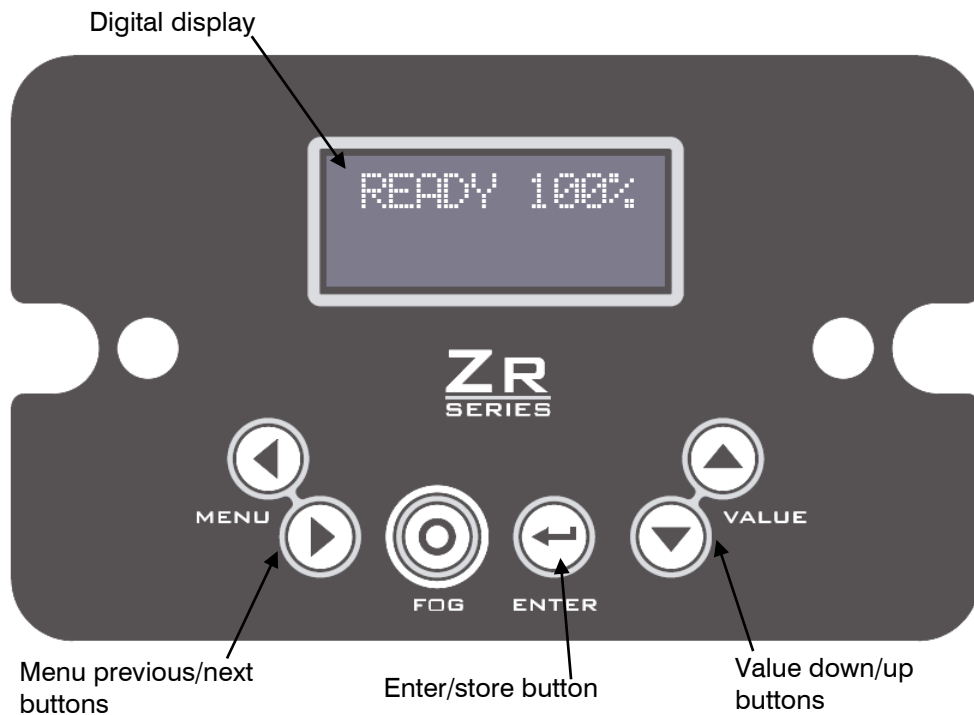
Control Settings

Overview

The **integrated digital remote control** on the rear of the machine allows you to configure it using option menus.



The integrated digital remote control may be removed from the unit and used as a handheld remote control by removing the two hand wheel bolts either side of the display. The display cable may be extended up to 25 m (82 ft.) using standard 3-pin XLR cable.



Setting Run modes

The RUN MODE menu sets the operational mode of the machine, and can also be used to shut down the heater. Settings are Off (shutdown, heaters off), Standby (heaters remain on), Timer mode or Continuous mode.

Use the Menu Previous / Next buttons to select the RUN MODE option.
Use the Up/Down buttons to select OFF, STANDBY, TIMER, CONTINUOUS.
Press the Enter button to store the setting. The display shows SET.

Selecting OFF will disable the heaters on the unit.

Setting Fog output density

Use the Menu Previous / Next buttons to select the FOG LEVEL option.
Use the Up/Down buttons to select the density from 0% - 100%
Press the Enter button to store the fog setting. The display shows SET.



If you want to temporarily change the fog density, do not press Enter. The fog setting will go back to its stored value next time the machine is powered up. This applies to all options.

Setting the Timer

Set the RUN TIME and OFF TIME values from the menu.

Then select the TIMER option from the RUN MODE menu.

The timer values are set in seconds and are in the range 0-99. The Fog value is taken from the FOG LEVEL menu. The timer will cycle continuously until the run menu is changed.

Use this mode for maintaining a low level of fog in smaller venues.

Using the Settings menu

Options such as the DMX base address, display brightness, DMX stand-alone linking, priming, factory reset and temperature control (ZR45 only) are found in the SETTINGS menu.

Use the Previous / Next buttons to select the SETTINGS option.

Press the Enter button to go to the SETTINGS menu.

To return to the main menu, use the Previous / Next buttons to select EXIT and press Enter.

Setting the DMX base address

Use the Previous / Next buttons to select the DMX option from the SETTINGS menu.

Use the Up/Down buttons to set the DMX base address from 001 to 511. If you hold down the button the address will count up or down more quickly.

Press the Enter button to store the address setting.

The machine will automatically respond to a DMX controller whenever it is connected.

When using in a DMX system ensure the LINK MODE menu is set to RECEIVE (the default setting) to avoid causing DMX errors to other devices on the system.

Alternatively, the DMX base address can be set via RDM.

Display back light setting

You can set the brightness of the display backlight using the BACK LIGHT option.

Use the Previous / Next buttons to select the BACK LIGHT option from the SETTINGS menu.

Use the Up/Down buttons to change the option to LOW, NORM or HIGH.

Press the Enter button to store the setting.

Setting the master-slave link mode

It is possible to control several machines from one digital remote. The machine with the remote plugged into it is set as the Master. The other machines are set as Slaves. The machines are interconnected with DMX cabling.

Use the Previous / Next buttons to select the LINK MODE option from the SETTINGS menu.

Use the Up/Down buttons to select RECEIVE (slave unit) or SEND (master unit). Press the Enter button to store the link setting.

The machine should be set to SEND only if it is running as a master. If running as a slave, stand-alone or DMX controlled it should be set to RECEIVE. If a machine set to SEND is connected to an active DMX system, the DMX will be corrupted causing flickering of lights and other strange symptoms.

Priming the machine after fluid out

If the machine runs out of fluid, it will automatically shut down and show FLUID OUT on the display to prevent damage to the pump(s). To suck the new fluid back into the machine and reset the FLUID OUT error, replace/refill the fluid tank and use the prime function.

Use the Previous / Next buttons to select the PRIME option from the SETTINGS menu.

Use the Up/Down buttons to change the option to YES.
Press the Enter button to start the priming function.

The pump(s) will operate at full power for a short time to purge air from the pipes inside the unit.

To exit this menu if you decide not to activate the Prime function, select NO and press Enter.

Resetting options to factory settings

The factory settings configure a standard mode of operation for the machine.

Use the Previous / Next buttons to select the RESET option from the SETTINGS menu.

Use the Up/Down buttons to change the option to YES.
Press the Enter button to reset all options.

To exit this menu if you decide not to reset the options, select NO and press Enter.

The factory settings are:

option	setting
FOG LEVEL	50%
TIMER ON	10 seconds
TIMER OFF	20 seconds
RUN MODE	STANDBY
DMX	001
BACK LIGHT	NORM
LINK MODE	RECEIVE
PRIME	NO
TEMPERATURE*	NORM

*ZR45 Only

DMX Control

Overview

DMX is a digital control system widely used in entertainment and architectural lighting. Any controller meeting the DMX-512 standard may be used to control and program the fog output of the JEM ZR series™ machines.



When a DMX signal is present, the JEM ZR series™ machine's stand-alone functions do not work. To fire the unit from the control panel or remote control, the DMX controller must be powered off or disconnected.

If the DMX signal is removed (controller turned off or unplugged), the machine will revert to its previously stored RUN MODE settings.

If the machine was set to OFF, it will revert to this state.

If the machine was set to STANDBY, it will revert to this state.

If the machine was set to TIMER, it will revert to this state.

If the machine was set to CONTINUOUS, it will revert to this state.

Connection

The JEM ZR series™ machine provides 5-pin XLR connectors on the rear of the machine for DMX connection.

For best results, use cable designed for high speed digital data transmission.

DMX functions

The JEM ZR series™ address setting must match the DMX address allocated to it on your controller. To set the address, see “Setting the DMX base address” on page 16. The JEM ZR series™ machine requires one DMX channel.

When the machine is at running temperature and is under DMX control it displays DMX (+ the current DMX base address).

The DMX control values are shown in the table below.

Channel 1	DMX value range	Function	Macro description	Default value
Fog output level	0-12	Idle range	None	0
	13- 240	Output 0-100%		
	241 -255	Output 100%		

Optional PLC Interface Control

Overview

An Optional PLC interface is available that will replace the DMX functionality of the machine and provide analog control of fog output (on and off) and fog flow rate (0-100%) or can trigger a preset flow rate. This interface uses closed-contact signaling or can respond with 0-10V reference. Up to 5 machines can be daisy chained and controlled in this manner (subject to the drive capability of the controlling system). Physical connection is via 3-pin and 4-pin male locking XLR. Please contact your Martin dealer for more detailed information on application and ordering.

Approved Fog Fluid Types

The JEM ZR series™ machines must only be used with the Martin™ fluids listed below. Martin™ supplies high quality fog fluids that are based on ultra-pure deionized water. No other fluid is suitable for use.

Pro Smoke Studio Fluid (DX mix)

In a studio or theatre environment, a lighter, faster dispersing fog is often preferred. Pro-Smoke Studio offers a less dense environment to Pro-Smoke Super and is therefore less likely to interfere with TV camera focusing.

Pro Smoke Super (ZR mix)

Pro Smoke Super fluid is a high-quality, general purpose fluid that produces a dense white airborne fog with medium dispersal time. Its medium to high index of refraction permits both good atmospheric effects and denser “white-outs”.

Pro Smoke High Density (SP mix)

Pro Smoke High Density fluid generates a high density, white, airborne fog with a very high index of refraction and slow evaporation rate. It is well suited for scenic obscuring, dramatic strobe effects, and “white-outs”.

i-fog Fluid

i-fog is not only kind to your lights, but is also more economical to use thanks to its incredible long “hang time” characteristics.

It is well suited for scenic obscuring, dramatic strobe effects, and “white-outs”.

RUSH Fog Fluid™

RUSH Fog Fluid™ is a specially formulated water-based fog formula and is recommended for use with applicable Martin fog effect generators. While economical it is perfect for medium-density airborne fog effects with medium hang time and leaves no residue; RUSH Fog Fluid™ is designed as an economy fluid that is suitable for use in nightclubs, bars, stage and outdoor events.

**Please note that use of RUSH Fog Fluid™ in a JEM™ series fog machine will produce a less than expected professional quality effect due to the nature of using an entry level fog effect fluid.*

Pro Steam Simulation

ZR45

For ZR45 only - Pro Steam Simulation fluid is a light fluid that produces well-defined cones of vapour that disperse quickly. It is ideal for chase effects and theatrical use.

Not suitable for use with the ZR25 and ZR35.



DANGER! The JEM ZR series™ machines can run safely only on the specific fog fluids they are designed for. Use **ONLY** the Martin™ fog fluids designated in this manual. **NEVER** use any other type of fluid, or toxic gas may be produced. You will probably also cause damage to the machine that will invalidate the product warranty. Do not dilute fog fluid with water or any other liquid. Discard fog fluid if it becomes contaminated.

To find your local dealer visit www.martin.com

ZR45 Temperature Menu

The different fluid types listed require correct selection of the relevant temperature setting in the TEMPERATURE sub-menu of the SETTINGS menu. Select the required temperature and press Enter to store.

The selected temperature setting will remain after power off and is indicated on the display whilst in standby (TEMP=NORM) and also shows during manual operation/DMX control (T=N).

TEMPERATURE Setting	Fluid Type
HIGH	Pro Smoke High Density (SP mix) i-fog
NORM	Pro Smoke Super (ZR mix) RUSH Fog Fluid Pro Smoke Studio (DX mix)
LOW	Pro Steam Simulation

Pro Clean Supreme Fluid

Specially designed for optimum performance while providing longevity of the heat exchanger, Pro Clean Supreme is the ultimate cleaning solution for Martin fog and haze effect machines. Applying Pro Clean Supreme fluid on a regular basis reduces clogging and further extends the life of Martin fog and haze machines.

Using Pro Clean Supreme every 200 hours, or once a month (depending on usage), will prolong the life of the heat exchanger in Martin fog and haze machines. Connect Pro Clean Supreme fluid to the fogger or hazer, then allow the unit to heat. When fully ready, activate the machine or remote for approximately 30-45 minutes (use the timer function if available). When completed, replace cleaning fluid with appropriate fluid.

Note: Cleaning procedure should be used if the unit is to be stored for 30 days or more. Ensure there is no fluid in the fluid tube when placing in storage.

Basic Service



Before servicing the JEM ZR series™ machines, read and observe all the precautions listed in “Safety information” on page 5. Any service not described in this section must be carried out by a Martin™ service technician.

To find your local Martin™ service centre visit www.martin.com/Where-to-buy

Cleaning

Excessive dust, fog fluid, and dirt build-up will degrade performance and cause overheating and damage to the machine that is not covered by the product warranty. To maintain adequate cooling, dust must be cleaned from the outer casing and air vents of the machine periodically.



Isolate the machine from power and allow to cool completely before cleaning. The fog output nozzles remain hot for a period after use.

- Remove dust from the air vents with a soft brush, cotton swab, vacuum, or compressed air.
- Clean fog fluid residues from the fog output of the machine using a damp cloth.
- Clean the outer casing with a damp cloth only.

Fuse replacement

The main fuse for the machine is located adjacent to the power inlet on the rear panel. There is also a T3.15 A fuse located on the electronics board inside the unit which protects the supply to the pump.



DANGER! Disconnect the power supply before removing any covers or changing fuses. Live parts inside!

Rear panel fuse:

ZR25

EU model = 6.3 AT (slow-blow), 250V

US model = 10 AT (slow-blow), 125V

ZR35

EU model = 10 AT (slow-blow), 250V

US model = 15 AT (slow-blow), 125V

ZR45

EU model = 12.5 AT (slow-blow), 250V

US model = 20 AT (slow-blow), 125V

Replace fuse only with one of exactly the same size and rating. Contact Martin™ Service if the fuse blows repeatedly.

To replace the internal fuse, disconnect the power cord from the supply, unscrew the screws holding the top cover of the unit and remove the cover. The electronics board is located in the side compartment.

Troubleshooting

Problem	Probable cause(s)	Suggested remedy
Machine will not produce fog when control panel set to CONTINUOUS or fog button pressed	Machine not at operating temperature	Wait until HEAT message no longer shown
	FOG option set to 0	Increase setting
	Machine in timer mode and TIMER ON set to 0	Increase setting
	DMX signal present	Disconnect or turn off DMX controller
Machine can be fired from control panel, but not by DMX controller	DMX address setting incorrect	Change DMX address (page 16)
	Poor connection in DMX line	Check DMX cables and connections
	LINK menu is set to SEND	Set LINK menu to RECEIVE
Fog output is weak	Machine requires priming	Use PRIME option to prime the machine (page 17)
Wet, greasy, non-uniform fog output, fluid drips or spits from nozzle, or very loud noise when firing machine	Incompatible fog fluid	Use approved fluid!
Machine appears dead	Mains fuse blown	Replace fuse (page 24)
	No power at AC cable inlet	Check power cable and circuit breaker
Machine causes DMX errors to occur on other units when connected to a DMX system	LINK menu is set to SEND	Set LINK menu to RECEIVE
Loss of control from remote	Communication issue between remote and machine	Check cable connection between remote and machine

Status Messages

message	reason
OFF	The heaters are Off, the unit is shut down.
HEAT	The unit is heating up to operating temperature.
READY	The heater is at operating temperature, but Fog is not turned on (RUN set to STANDBY).
DMX	The heater is at operating temperature and the unit is under DMX control.
FLUID OUT	Run out of fluid. Refill the fluid tank and operate the prime function in the SETTINGS menu
CALIBRATION ERROR	The machine has detected an error with its calibration settings and will not operate. Call Martin™ Service.
SYSTEM ERROR	The machine has detected an error in the temperature sensor and will not operate. Call Martin™ Service.

Resetting the machine after fluid out

If the machine runs out of fluid, simply refill the fluid container and follow the priming instructions on page 17.

Technical Specifications

Physical

ZR25

Length	485 mm (19.1 in.)
Width	335 mm (13.2 in.)
Height.....	242 mm (9.6 in.)
Height with hanging bracket	333mm (13.2 in.)
Weight, dry	11.2 kg (24.7 lb.)
Weight, filled.....	13.7 kg (30.2 lb.)

ZR35

Length	590 mm (23.3 in.)
Width	395 mm (15.6 in.)
Height.....	264mm (10.4 in.)
Height with hanging bracket	351 mm (13.9 in.)
Weight, dry	15.1 kg (33.3 lb.)
Weight, filled.....	19.1 kg (42.1 lb.)

ZR45

Length	602 mm (23.1 in.)
Width	395 mm (15.6 in.)
Height.....	306 mm (12.1 in.)
Height with hanging bracket	393 mm (15.5 in.)
Weight, dry	17.7 kg (39.1 lb.)
Weight, filled.....	22.7 kg (50.0 lb.)

Performance

ZR25

Coverage volume	600 m ³ (21,189 ft ³) per minute
Fluid consumption (max.)	40 ml per 30 seconds
Continuous effect output.	
Ready time	7 minutes

ZR35

Coverage volume	800 m ³ (28,252 ft ³) per minute
Fluid consumption (max.)	50 ml per 30 seconds
Continuous effect output.	
Ready time	9 minutes

ZR45

Coverage volume	1300 m ³ (45,909 ft ³) per minute
Fluid consumption (max.)	80 ml per 30 seconds
Continuous effect output.	
Ready time	10 minutes

Control and programming

Control options	Integrated digital remote control, DMX optional PLC interface, master/slave link mode
Control parameters	Continuous or timer-controlled output
Fog	Variable output control, 0-100%

DMX channels	1
DMX compliance	ANSI E1.11 - USITT DMX512-A
RDM compliance.....	ANSI/ESTA E1.20 RDM

Construction

Housing.....	Steel & aluminium
Hanging bracket.....	Integrated yoke with safety attachment point
Color.....	Black
Heat exchanger, ZR25	1150 W, thermally protected
Heat exchanger, ZR35	1500 W, thermally protected
Heat exchanger, ZR45 EU	2000 W, thermally protected
Heat exchanger, ZR45 US	1800 W, thermally protected
Fluid pump, ZR25, ZR35	Oscillating piston, high pressure
Fluid pump, ZR45	Dual oscillating piston, high pressure
Fluid management	Fluid out sensing, sealed for transportation
Fluid reservoir, ZR25	2.5 l drop-in reservoir with quick-connect fitting
Fluid reservoir, ZR35	4 or 5 l drop-in reservoir with quick-connect fitting
Fluid reservoir, ZR25	5 l drop-in reservoir with quick-connect fitting
External fluid control	Fluid sensing
Remote control.....	Integrated digital remote with 3 m cable, 3-pin XLR

Installation

Mounting	Standing or hanging
Clearance around machine.....	100 mm (4 in.)
Orientation.....	Up to +/- 40° from horizontal

Connections

AC Power	Neutrik PowerCON TRUE1
DMX, Link mode in/out.....	5-pin locking XLR
Remote control.....	3-pin locking XLR
Firmware	AVR socket
Optional PLC interface	3- and 4-pin locking XLR

Electrical

All models

AC power (EU models)	220-240 V nominal, 50/60 Hz
AC power (US models)	100-130 V nominal, 50/60 Hz

ZR25

Main fuse (220-240V power)	6.3AT (slow-blow), 250 V
Main fuse (115-125V power)	10AT (slow-blow), 125 V

ZR35

Main fuse (220-240V power)	10AT (slow-blow), 250 V
Main fuse (115-125V power)	15AT (slow-blow), 125 V

ZR45

Main fuse (220-240V power)	12.5AT (slow-blow), 250 V
Main fuse (115-125V power)	20AT (slow-blow), 125 V

Typical Power and Current

ZR25 (EU model)	1200 W, 5.3 A*
ZR25 (US model)	1050 W, 8.8 A*
ZR35 (EU model)	1550 W, 6.8 A*
ZR35 (US model)	1450 W, 12.1 A*
ZR45 (EU model)	2100 W, 9.2 A*
ZR45 (US model)	1800 W, 15 A*

*Measurements made at nominal voltage. Allow for a deviation of +/-10%

Thermal

Maximum ambient temperature (Ta max).....	40°C (104°F)
Exterior surface temperature, steady state, at 20°C ambient	30°C (86°F)
Max nozzle temperature.....	290°C (554°F)
Minimum ambient temperature (Ta min)	5°C (41°F)

Approvals

EU Model

EU safety:	EN 60 335-1+A15, EN62233
EU EMC:.....	EN 61000-6-3
EU Immunity:.....	EN 61000-6-1
Australia/NZ (pending)	RCM

US Model

US safety	UL 998
Canada safety	CSA C22.2 No.104.01



Included items:

User manual	P/N 35010042
Fluid reservoir ZR25, 2.5 l	P/N 34300521
Fluid reservoir ZR35, 4 l	P/N 34300523
Fluid reservoir ZR45, 5 l	P/N 34300506
JEM ZR series™ Digital Remote Control.....	P/N 55765048
ZR25/35/45 EU, power input cable, PowerCON TRUE1, stripped ends, 3 m (9.8 ft.)	P/N 11501043
ZR25 US, power input cable, 10A, PowerCON TRUE1, molded NEMA 5-15P, 3 m (9.8 ft.)	P/N 11501044
ZR35 US, power input cable, 15A, PowerCON TRUE1, molded NEMA 5-15P, 3 m (9.8 ft.)	P/N 11501045
ZR45 US, power input cable, 20A, PowerCON TRUE1, molded NEMA 5-20P, 2 m (6.6 ft.)	P/N 11501046

Accessories

JEM ZR series™ PLC Interface	P/N 92765049
JEM ZR25™ Ducting System, with 5 m (16.4 ft.) ducting	P/N 92625012
JEM ZR35™ Ducting System, with 5 m (16.4 ft.) ducting	P/N 92625013
JEM ZR45™ Ducting System, with 5 m (16.4 ft.) ducting	P/N 92625014

Approved Fluids

JEM™ Pro Smoke Studio
JEM™ Pro Smoke Super
JEM™ Pro Smoke High Density
JEM™ i-Fog Fluid
JEM™ Pro Steam Simulation (ZR45 only)
JEM™ Pro Clean Supreme

**Various sizes available – contact your dealer or see martin.com for details.*

Installation Hardware

Half-coupler clamp	P/N 91602005
G-clamp (vertical hanging suspension only)	P/N 91602003
Quick trigger clamp (vertical hanging suspension only)	P/N 91602007

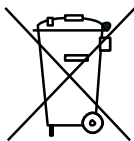
Service Tools

Epsilon 5 AVR Programmer	P/N 50502004
Temperature Calibration Box	P/N 92620005

Ordering information

JEM ZR25™, US	P/N 92215330
JEM ZR25™, EU	P/N 92215320
JEM ZR35™, US	P/N 92215350
JEM ZR35™, EU	P/N 92215340
JEM ZR45™, US	P/N 92215370
JEM ZR45™, EU	P/N 92215360

Specifications subject to change without notice. For the latest technical specifications, see www.martin.com



Disposing of this product

Martin™ products are supplied in compliance with Directive 2002/96/EC of the European Parliament and of the Council of the European Union on WEEE (Waste Electrical and Electronic Equipment), as amended by Directive 2003/108/EC, where applicable.

Help preserve the environment! Ensure that this product is recycled at the end of its life. Your supplier can give details of local arrangements for the disposal of Martin products.



www.martin.com • Olof Palmes Allé 18 • 8200 Aarhus N • Denmark
Tel: +45 8740 0000 • Fax: +45 8740 0010