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CAMERA PRIVACY WITH PURE SOFTWARE (DRIVER) SOLUTION

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Camera Privacy with Pure Software (Driver) Solution

Abstract:

More and more usage in not only for business video conferencing call, but also applicable to distance learning for education due to COVID-19 impact. Thus, the camera privacy is also more important, especially in-market product, which didn't support camera privacy feature neither with mechanical(Physical shutter door), nor electric solution(e-shutter) to close the camera image while the user doesn't want to the other people to see him.

This camera privacy feature bundled in camera driver that can be very easy and sooner to provide the solution to in-market product, which provide a set of hotkey to be visible or invisible while the camera is in-used.

Design Construction:

The design constituted with existing hotkey and an additional camera driver. The support form factor could be notebook, and AiO computer, which constructed built-in camera device. The pure camera driver was equipped with background service that receive the scan code that sent out from Hotkey, and then inform the camera driver to switch to privacy mode.
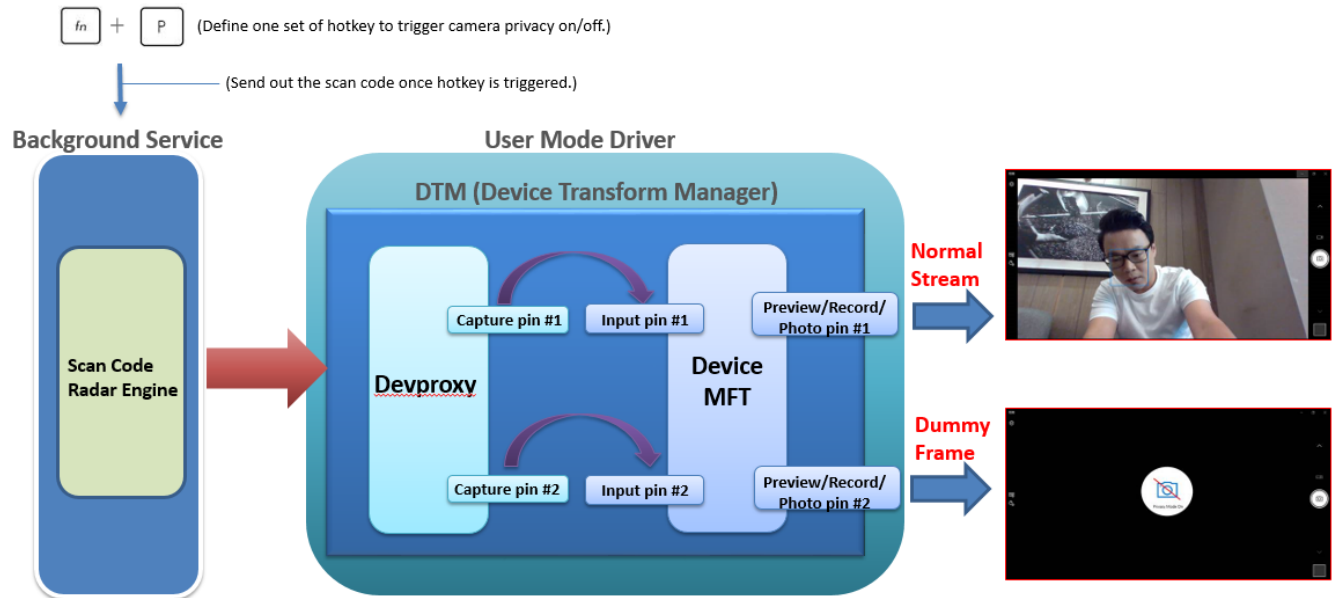
1. Hotkey
   Define one set of hotkey to trigger camera privacy on/off.

2. Windows Background Service
   Receive the Scan Code that sent out by Hotkey (ex: fn+P), set the Privacy flag, and then inform camera driver to switch the privacy on/off.

3. Camera Driver
   Define privacy on/off setting:

Privacy Off Mode: While camera is in-used(streaming), no change to current streaming.

Privacy On Mode: While camera is in-used(streaming), driver layer that redirects the

streaming to be the dummy image ( ).

<Diagram >

| fn | + | P | (Define one set of hotkey to trigger camera privacy on/off.)

(Send out the scan code once hotkey is triggered.)

Business Strategy/Advantages

1. Neither cost, nor addition hardware/ID design change, and easily implement in current NB/DT system.

2. In-market products that can easily download the driver (Software) automatically via Network Connection (Windows Update) to be given the privacy feature.

Disclosed by Duncan Yeh, HP Inc.