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SECURITY CAMERA MODULE

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Security Camera module

Our idea is simply to use a magnet and magnetic reed switch to turn off the power to the camera and microphone module when the module is locked in the down position.

The advantage of this is to ensure that personal privacy and conversations are not compromised by preventing hackers from using the camera and microphone module to listen and/or record a user without her knowledge.

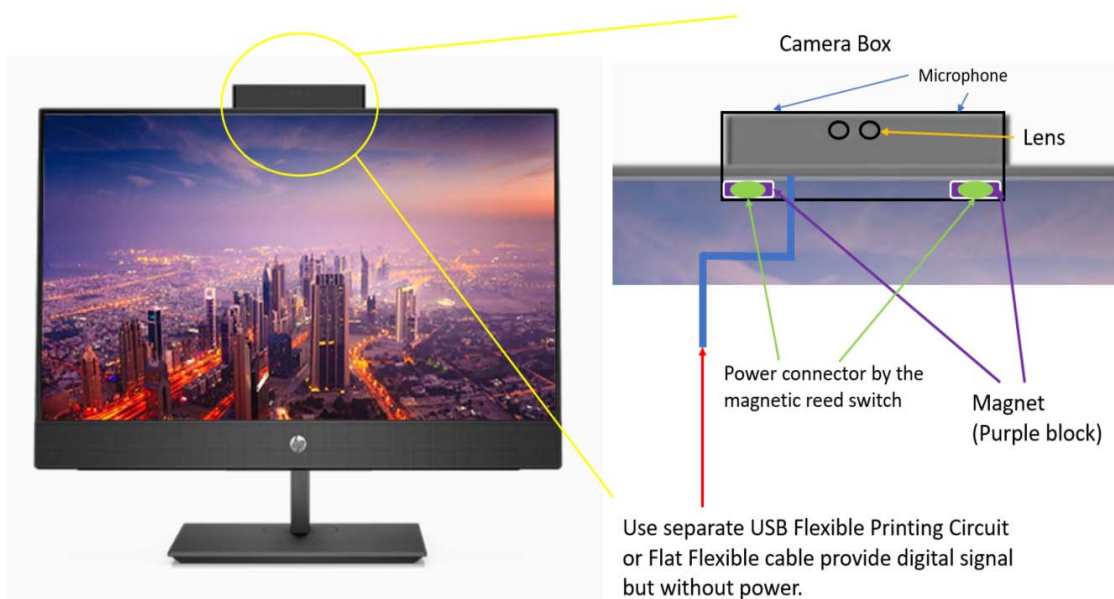


Figure 1

Figure 1 shows the camera and microphone module details. When the user manually turns on the camera module, the module will automatically turn on the power.

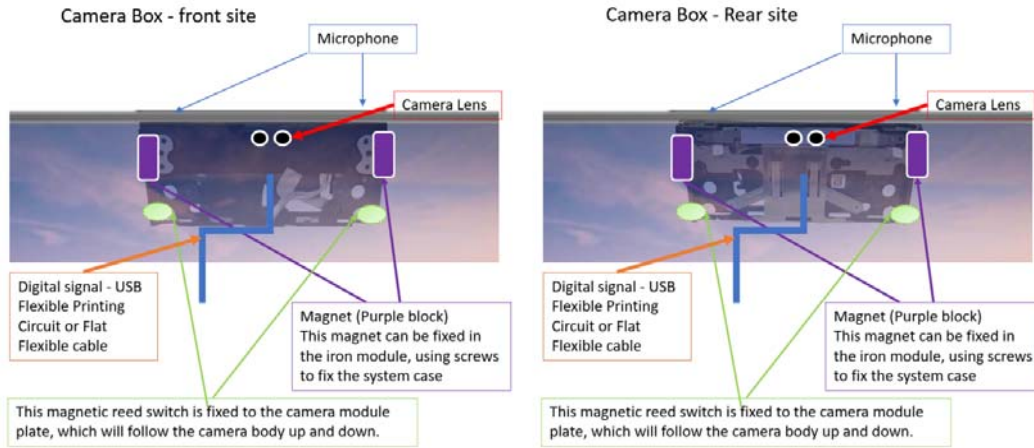


Figure 2

Figure 2 illustrates the camera and microphone module in the closed position. When the module is pushed by a user to the closed position, the magnetic reed switches are separated from the magnets, thereby breaking the power circuit. Thus, the module is powered off when the user pushes the camera module to the closed position.

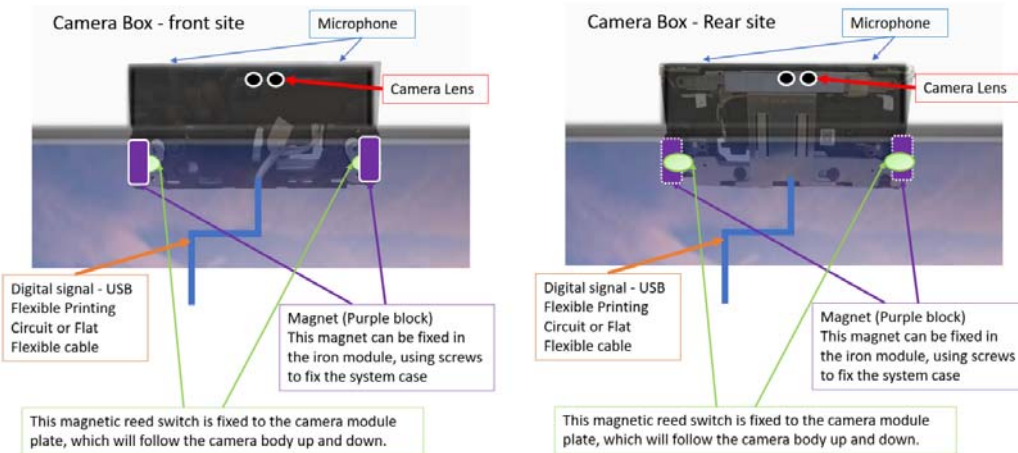


Figure 3

Figure 3 illustrates the camera and microphone module in the deployed or open position. The camera module is powered on when the user pushes the camera module to deploy it, because the magnetic reed switches, once the

module is in the open position, are disposed sufficiently close to the magnets such that the magnetic force triggers or actuates the magnetic reed switch to close the power circuit and turn on the camera and microphone power.

Disclosed by Danny Chiu and Shih-Tang Chang, HP, Inc.