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## DISPLAY AUTO ARRANGEMENT FOR MULTIPLE DISPLAYS

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## Display Auto Arrangement for Multiple Displays

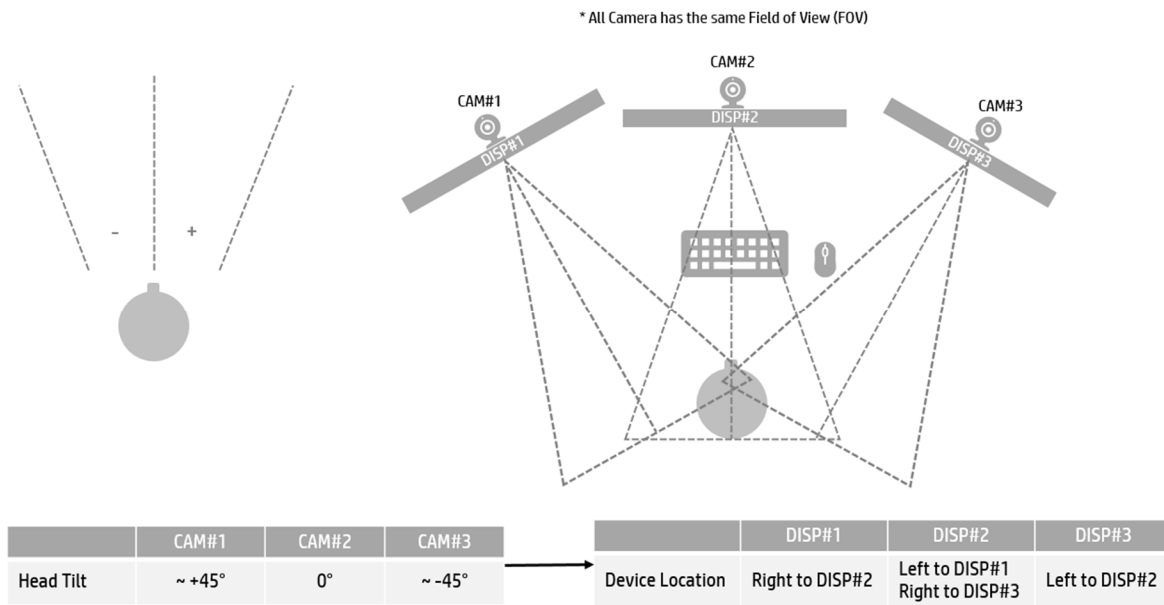
Display auto arrangement is a disclosure to use and compare face detection data from multiple on-display and/or on-laptop-PC camera, to auto assign the location and orientation of multiple displays. The user is a static object to multiple display and laptop PC which can be reference point to define corresponding location of devices.

“Face tilt angle” and “Face orientation” are two key data for host PC to assign device location and orientation [Fig.#1, Fig#2]. When device is plug-in the face data collected from onboard camera is transmitted to host PC, then host PC will report back device’s location and orientation setting [Fig#3].

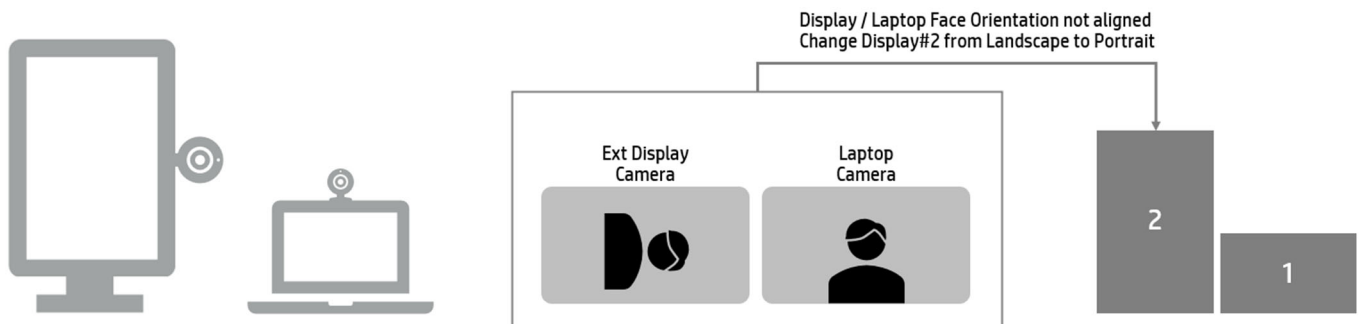
Before this disclosure the manual display arrangement / orientation setup in display setting is required whenever relocating the work environment. This disclosure leverages onboard camera which is trend be built in modern display & laptop PC to automate setup process, it removes the manual steps and reduce confusion of end user when multiple displays were not properly arranged.

Onboard camera, face data processing, device to host PC data exchange, and cross-device location/orientation arrangement software are four essential elements for any design to leverage this disclosure.

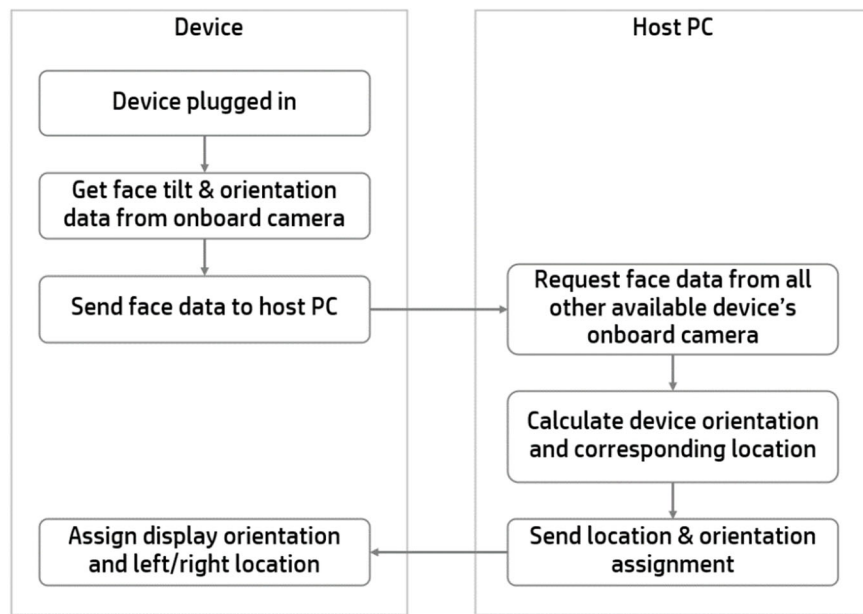
[Figure#1]



[Figure#2]



[Figure#3]



*Disclosed by Lee Atkinson and Yi-Peng Chen, HP Inc.*