

# HP Sure View



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## 1. EXECUTIVE SUMMARY

With almost 60 percent of employees taking their work outside office walls,<sup>1</sup> HP Sure View integrated privacy screen helps users work confidently from any location without fear of data on the screen being exposed to prying eyes.

HP Sure View eliminates the need to carry additional tools to guard sensitive information. Users simply press the fn+F2 key to immediately transition the PC to privacy mode, which reduces up to 95 percent of visible light when viewed at an angle, making it difficult for others to view information on the screen.

This feature is available as an option with the HP EliteBook 840 G3 and HP EliteBook 1040 G3.

## 2. FEATURE CONTROLS

### Enable/Disable Privacy Mode

- To enable privacy mode, press fn+F2 keys.
- The white LED on the F2 key will illuminate when privacy mode is ON.
- To disable privacy mode, press fn+F2 keys.
- No LED will be visible when privacy mode is OFF.

### Quickly Enable Highest Privacy Level

- If privacy mode was originally off, pressing fn+p keys enables privacy mode and sets the privacy level to maximum.
- If privacy mode was originally on, pressing fn+p keys sets the privacy level to maximum.
- The white LED on the F2 key will illuminate when privacy mode is ON.
- To disable privacy mode, press fn+F2 keys.

### Setting Privacy Level

- To increase the privacy level, press fn+F5 keys until the desired level is achieved. This is useful in darker environments.
- To decrease the privacy level, press fn+F6 keys until the desired level is achieved. This is useful in brighter environments.
- The system will remember the last used privacy level.



## 3. TECHNOLOGY SUMMARY

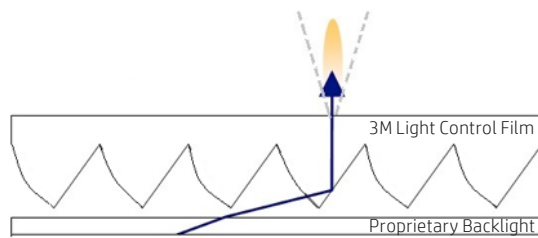
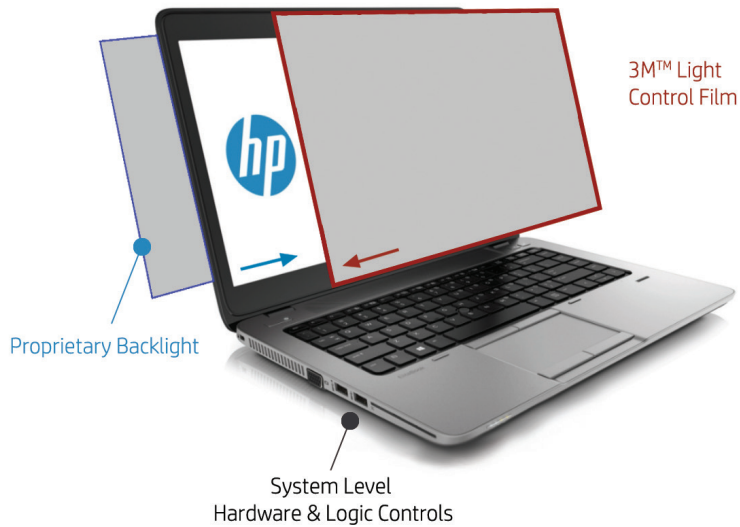
### 3.1 DESIGN

HP Sure View uses a unique system & LCD module design in order to achieve the switchable privacy function. There are three key pieces that comprise the technology.

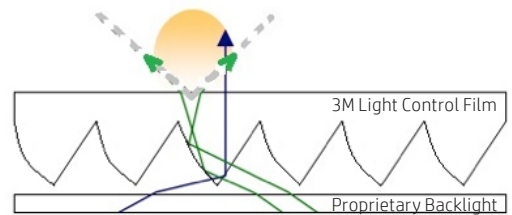
- Proprietary backlight
- 3M™ Light Control Film
- System level hardware & logic controls

These three pieces have been designed to work together as a single entity to enable switchable privacy. Figure 1 is a high level exploded view showing the construction and interdependency of the system. Figure 2 provides insight into how the privacy backlight and light control film work together to alter the viewing angle. Figure 3 is representative of the privacy experience on the HP EliteBook 840.

FIGURE 1 PRIVACY SYSTEM



Privacy ON: Light focused to center of display



Privacy OFF: Light dispersed across display

With **HP Sure View ON**, the proprietary backlight focuses one light source through the light control film towards the middle of the display thus enabling a viewing cone (illustrated in Figure 5) that makes screen content easily visible to those who are centered in front of the notebook.

With **HP Sure View OFF**, the proprietary backlight uses two light sources to disperse light across all areas of the display which allows screen content to be easily viewed from any position.

FIGURE 3 PRIVACY EXPERIENCE



### 3.2 PRIVACY MODE PERFORMANCE AND VIEWING REGION

HP Sure View technology reduces up to 95% of visible light in the privacy region, defined as being outside the user's 70 degree viewing cone (illustrated in Figure 5). Figure 4 indicates the level of achievable privacy as a function of the user's viewing position and compares it to the sharing mode (when HP Sure View is disabled) viewing region. As the user's viewing position moves outward from the center axis, the level of privacy increases and the panel content becomes more difficult to read. Figure 4 also demonstrates the wider and more visible sharing mode viewing region.

FIGURE 4 PRIVACY AND NON-PRIVACY VIEWING REGIONS

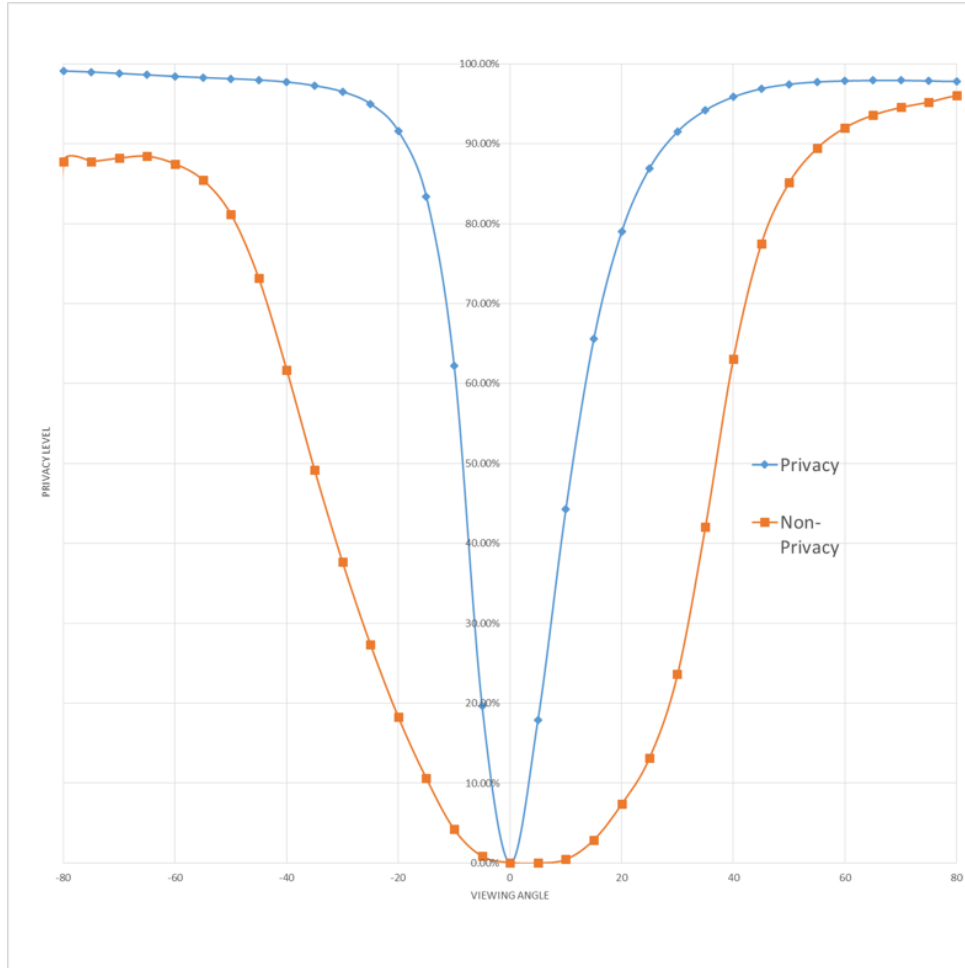
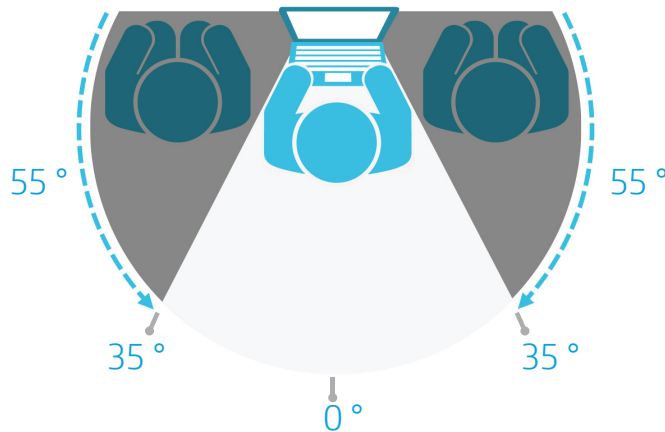


FIGURE 5 USER VIEWING CONE VS PRIVACY REGION



### 3.3 BATTERY LIFE IMPACT

HP Sure View can provide additional battery life depending on the amount of time privacy mode is enabled. Comparing an HP EliteBook 840 G3 system with a similarly configured HP EliteBook 840 G3 with HP Sure View with privacy mode on 50% of the time, there is no material difference in battery life. Increasing the amount of time privacy mode is on may improve battery life, up to an additional 15%.

### 3.4 BENEFITS OF HP SURE VIEW

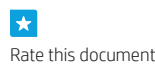
HP Sure View was developed for users that value instant privacy and security while on the go. Key benefits of HP Sure View include:

- Always available solution that is built into the display and never needs replacing.
- Convenient to enable and disable privacy with the touch of a button.
- Easily share screen content with colleagues without needing to remove an external privacy filter.

#### Notations/disclaimers

<sup>1</sup>Pew Research Center, Technology's impact on Workers, December 2014

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