

Request #: HUTRR41
Title: Display Brightness Controls
Spec Release: 1.12
Received: 27 February 2012
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Summary:

The proposal is to add a set of new Usages ID to the Consumer Page (0x0C) to support control of display brightness or backlight.

This function is currently not addressed by the HID usage tables for primary displays.

Background:

Most PCs and TVs support control of brightness or backlight intensity, but no standardized system of usages is in place to support controlling these. Typically on laptops these are controlled using internal buses that do not permit extending the functionality to external keyboards or remote controls. There does exist a Brightness control on the Aux Display Page (0x14), but it is not intended for the primary display.

Proposal:

Add the following to section 15, Table 17: Consumer Page

Usage ID	Usage Name	Usage Type
(0x6F)	Display Brightness Increment	RTC
(0x70)	Display Brightness Decrement	RTC
(0x71)	Display Brightness	LC
(0x72)	Display Backlight Toggle	OOC
(0x73)	Display Set Brightness to Minimum	OSC
(0x74)	Display Set Brightness to Maximum	OSC
(0x75)	Display Set Auto Brightness	OOC

Change the following to section 15, Table 17: Consumer Page

Usage ID = 0x6F-0x7F
Usage Name = Reserved

To:

Usage ID = 0x76-0x7F
Usage Name = Reserved

Add the following to the descriptions below Table 17: Consumer Page

Usage Name	Description
Display Brightness Increment (RTC)	Brightens the display by one unit, if possible
Display Brightness Decrement (RTC)	Dims the display by one unit, until off.
Display Brightness (LC)	Sets brightness to a value between logical min and max. Logical min is off, logical max is brightest.
Display Backlight Toggle (OOC)	Toggles the backlight state between off and last known brightness or default brightness if last known is unavailable.
Display Set Brightness to Minimum (OSC)	Dims the display to minimum brightness (not off)
Display Set Brightness to Maximum (OSC)	Brightens the display to maximum brightness
Display Set Auto Brightness (OOC)	Permits the display to automatically control brightness.