Canon

4K REFERENCE DISPLAY

DP-V1830

4K

HDR

High Dynamic Range

PHENOMENAL 4K HDR FROM EVERY ANGLE

The Canon DP-V1830 UHD 4K Reference Display is Canon's first 18.4-inch reference display and boasts improvements in Canon's HDR image quality performance, greater precision in local backlight control, and smoother tone and color reproduction, and a wider angle of view through a new optical design. It supports UHD (3840 X 2160) and 4K signals for use in broadcast and cinema workflows where high mobility is needed. The display achieves the HDR standards video production professionals demand, with deep black levels, wide color gamut, and wide viewing angle. This 18.4" 4K 1000cd/m2 HDR display is 19" rack mountable and easily replaces existing FHD/4K models.

Luminance Performance

The DP-V1830 achieves 1000cd/m2, a requirement for HDR video production (ITU-R BT.2100, EBU TECH3320, Dolby Vision). This enables consistent video checking from shooting to editing on all Canon display models*.

And in addition to its high luminance, it achieves all-black levels of 0.001cd/m2, as well as high contrast performance of 1,000,000:1 for video production.

Faithful and More Natural Color Reproduction

HDR offers a wider range of luminance and color expression than SDR. With HDR, you can reproduce richer and more natural "true-to-life color" that gets lost with conventional SDR.

DP-V1830 features high luminance and wide color gamut that allows it to faithfully reproduce HDR images captured using high-performing 4K lenses and CINEMA EOS cameras with wide dynamic range, allowing users to create higher quality HDR video.

**DP-V1710/V1711/V2411/V2420/V2421/V3120*

Enhanced Black Levels and High Contrast

The hardware performance of the Hi-def engine has been greatly improved, enabling precise backlight control to drive the LED precisely on and off, and achieving a high-contrast display with excellent contrast at the boundary between bright and dark areas.

Inherently dark areas are darkened and bright areas are brightened, resulting in a crisp, high-contrast display. It realizes all-white peak luminance of 1000cd/m2 with improvements in depth of blacks, which are vital for broadcast and cinema video production, enabling more accurate displays of dark tones in night views, fireworks and other scenes.

Wide Color Gamut

HDR video production has an expanded range of colors that can be reproduced, requiring display of a wide color gamut for faithful confirmation of richer and more vivid colors. The DP-V1830 is equipped with Canon's unique backlight system that maximizes the color, brightness, and other properties of LEDs, providing a wide color gamut.

Wide Viewing Angle

When time schedules are ever-changing during live productions in stadiums, mobile production trucks and other applications, one or more people may need to monitor multiple displays at the same time, requiring a viewing environment where brightness and color do not change even when viewed from different angles.

DP-V1830 features a unique optical design that reduces luminance and color changes due to viewing angle, enabling accurate image quality confirmation in environments where multiple people are simultaneously monitoring in a relay car and studio.

The surface is coated with anti-glare coating to reduce reflections and glare when used outdoors and in brightly lit areas.

High Resolution

The DP-V1830 features the same 3840x2160 resolution and 16:9 aspect ratio panel as the DP-V1710, DP-V1711, and other models. It can display signals compliant with 4K broadcasting standards on a full dot-by-dot basis.

When inputting DCI 4K (4096x2160) signals, users can choose between full-screen display with a scaled-down image or native display with cut sides (jog dial can be used to shift the display position left or right). It also features enlarged display modes for 2K or full-HD video productions. This contributes to improving the efficiency of 4K/2K video production workflows for expanded use as a 4K display.

High Accuracy Uniformity

The DP-V1830 achieves the same level of high-accuracy uniformity as previous models. Featuring a uniquely-developed display image engine, it enables fine adjustments to prevent unevenness in color and brightness on the screen, achieving precise uniformity.

Display Stability/Long-Lasting Dependability

The DP-V1830 achieves high color accuracy thanks to precise adjustments prior to shipment from the factory, just like previous models. It is also equipped with an exclusive automatic luminance correction system that compensates for brightness changes due to changes in the temperature in or around the display as well as changes over time to ensure excellent display stability and long-lasting dependability.

SPECIFICATIONS

Panel	
Panel Type	TFT LCD
Screen Size	18.4 inch
Aspect Ratio	16:9
Resolution	3840 x 2160 UHD
Active Display Area	Approximately 16 x 9 in. (409 x 230 mm)
Pixel Pitch	106.5 µm
Image Quality	
Brightness*	Standard:100 cd/m2 Peak,Full screen, White : 1000 cd/m2
Viewing Angle (Up, Down, Left, Right)	89°(Contrast ratio: 10:1 or higher)
Surface Treatment	Anti-glare coating
Input	
12G/6G/3G/HD/SD-SDI	4 BNC (75 Ω) receptacle terminal 12G-SDI: Compliant with SMPTE 2082 6G-SDI: Compliant with SMPTE 2081 3G-SDI: Compliant with SMPTE 2048-2/274M/296/372/425-5/425-3/425-1/428-19/428-9 HD-SDI: Compliant with SMPTE 2048-2/274M/292-1/296/428-19/428-9 SD-SDI*1: Compliant with SMPTE 259M
HDMI	1 Type A terminal Contents protection standard: HDCP 2.3/1.4
Output	
12G/6G/3G/HD-SDI	4 BNC (75 Ω) receptacle terminal, pass-thru
MULTIFUNC. SDI OUT	1 BNC (75 Ω) receptacle terminal
Headphone	2 stereo mini jack (front panel/rear panel), supported impedance: 32 Ω to 64 Ω
Speaker	2W(Stereo)
Interface: Control	
USB	1 USB A receptacle terminal Universal Serial Bus Specification Revision 3.0 compliant
LAN	1 RJ-45 terminal Compliant with IEEE802.3 10BASE-T/100BASE-TX/1000BASE-T
GPI	1 RJ-45 terminal
General	
Backlight Type	LED
Power	100 to 240 VAC, 50/60 Hz 24 VDC, maximum 10 A, XLR
Power Consumption	At maximum AC load*1: Approx. 210 W At maximum DC load*1: Approx. 185 W Factory default status*2: Approx. 105 W In Standby mode*2: 0.5 W or less *1 *Including changes in brightness over time* *2 *When using AC power supply*
Operating Conditions	Temperature and humidity: 32–104°F (0–40°C), 20–85% RH (no condensation) Recommended range of temperature and humidity: 59–86°F (15–30°C), 20–80% RH (no condensation) Pressure: 700–1060 hPa
Storage/Transporting Conditions	Temperature and humidity: -4–104°F (-20–40°C), 20–85% RH (no condensation) 105–140°F 41–60°C), 20–30% RH (no condensation) Pressure: 700–1060 hPa
Dimensions (Width x Height x Depth)	Including stands and handle: Approx. 17.4x 14.6 x 7.1 in. (443x 372 x 180mm) Main unit only, excluding protrusions: Approx. 17.4 x 12.2 x 5.1 in. (443x 310 x 130mm)
Weight	Approx. 16.5 lbs
Mounting Hole Pitch	VESA standard 3.9 x 3.9 in. (100x 100 mm)

*Brightness values are standard values and not guaranteed values.

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11/21 PRINTED IN U.S.A.

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