31.1" HDR Reference Monitor



ColorEdge[®] PROMINENCE CG3146



High Dynamic Range

ColorEdge[®] PROMINENCE

World's First True HDR Reference Monitor with a Built-In Calibration Sensor

Hardware Calibration

The ColorEdge PROMINENCE CG3146 is the first HDR reference monitor in the world to be equipped with a built-in sensor which calibrates the monitor to stay color accurate. This eliminates the need for a third-party calibration device and streamlines color management so you can stay more focused on the creative process. Calibration information is saved directly to the monitor, so you do not need to recalibrate if connecting to more than one PC.

Color Management

EIZO's proprietary ColorNavigator 7 calibration and quality control software is also supported to make calibration simple, with predictable results.





High Dynamic Range

True HDR

This HDR (High Dynamic Range) monitor approximates the human perception of color and light, accurately displaying both very bright and very dark areas without sacrificing the integrity of either. It achieves 1000 cd/m² high brightness (typical) and 1,000,000:1 contrast ratio for accurately displaying light and dark scenes.



ColorEdge PROMINENCE

Conventional SDR Monitor

EIZO HDR Technology

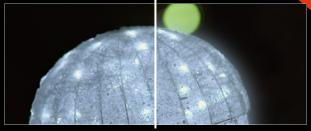
ColorEdge PROMINENCE monitors are the first LCD monitors to overcome the severe drawbacks of other HDR technologies, so they can be used reliably for post production work.



ColorEdge PROMINENCE

HDR Monitor with ABL

Auto Brightness Limiter (ABL) equipped in other HDR OLED monitors limits the monitor's ability to display lighter scenes with tones over a specific range. This causes those light areas to appear dimmer and the color duller as a result.



ColorEdge PROMINENCE

HDR Monitor with Local Dimming

Local dimming in other HDR monitors uses an area control backlight system which adjusts the brightness in sections of the screen. However, when an object on the screen falls outside of the area that is adjusted, a "halo" effect appears, making it impossible to achieve full color accuracy in smaller details.

ColorEdge PROMINENCE CG3146 achieves a true HDR visual experience without ABL or Local Dimming to ensure consistently accurate color and brightness in every pixel.

Gamma Curves

The ColorEdge PROMINENCE CG3146 supports hybrid log-gamma (HLG) and the perceptual quantization (PQ) curve for HDR video.

The Ideal Monitor for HDR Video Creation





4096×2160

DCI 4K Resolution

DCI-4K (4096 \times 2160) is more than four times that of full HD (1920 \times 1080), making this monitor ideal for creating, editing, and referencing with 2D and 3D CGI, VFX, compositing, and color grading.

SDI Connectivity

The monitor is equipped with a Single-Link 12G/6G/3G/HD-SDI and Dual- or Quad-Link 3G*/HD-SDI connections for seamless transmission of 4K video data. It also has an HDMI and DisplayPort input for flexible connection to a range of video devices. *2 sample interleave supported.



VPID Support

With VPID (Video Payload ID) for SDI, the monitor's settings are automatically adjusted to the correct color parameters for consistency during production.

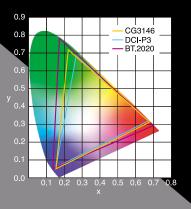
Video Compatibilities

The monitor supports various video formats including HDMI compatible with 10-bit 4:2:2 at 50/60p. DisplayPort supports up to 10-bit 4:4:4 at 50/60p.

Stable and Accurate Display

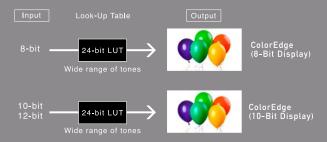
Wide Color Gamut

The wide gamut reproduces 99% of the DCI-P3 standard for faithful reproduction of color.



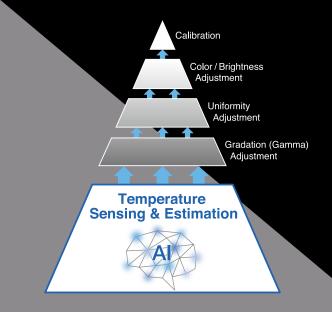
10-Bit Simultaneous Display

10-bit simultaneous display* from a 24-bit look-uptable (LUT) allows the monitor to display more than one billion colors simultaneously for smooth color gradations and reduced Delta-E between two adjacent colors. *A graphics board and software which support 10-bit output are necessary for 10-bit display.



Stable Display Using Industry-First Al

A temperature sensor accurately measures the temperature inside the monitor, as well as estimates the temperature of the surrounding environment as the monitor adjusts in real-time so gradations, color, brightness, and other characteristics continue to be displayed accurately. Furthermore, EIZO uses AI (artificial intelligence)* in the estimation algorithm so it can distinguish between various temperature changing patterns to calculate even more accurate correction. **Patent pending*.



3D LUT for Accurate Color

The monitor's 3D LUT adjusts colors individually on an RGB cubic table. This also improves the monitor's additive color mixture, which is key to displaying neutral gray tones.

Commitment to Quality

- · 5-Year manufacturer's warranty
- Brightness and color warranty up to 10,000 hours
- \cdot Zero bright pixels 6 months from purchase date

Uniformity Across the Screen

ColorEdge monitors are equipped with EIZO's patented digital uniformity equalizer (DUE) technology which corrects deviations in every tone across the screen to ensure stable display.

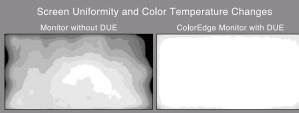
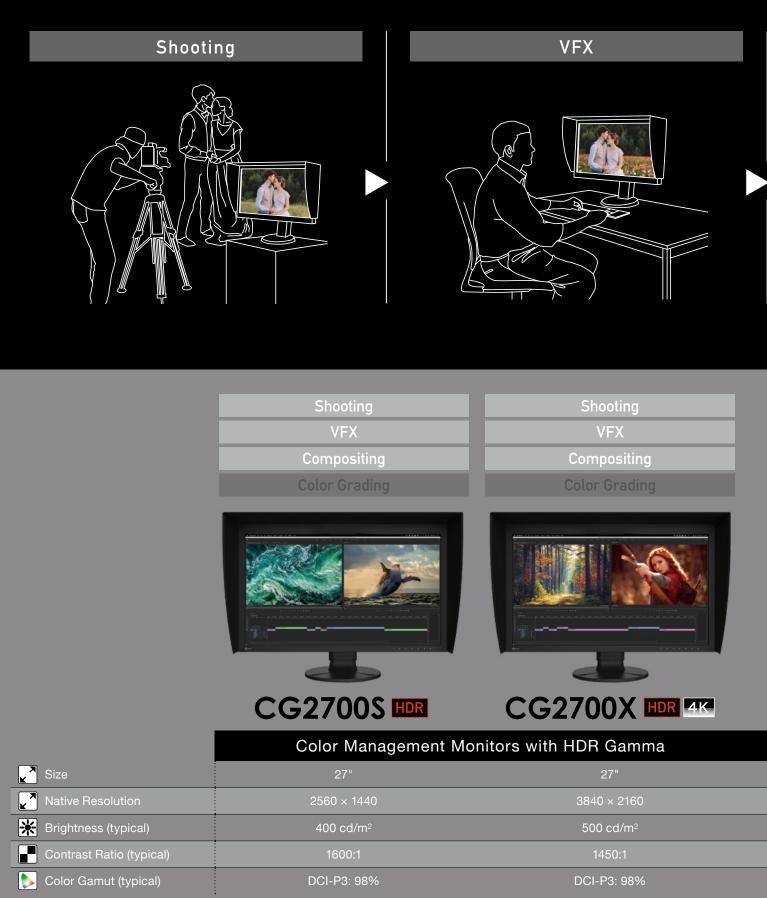
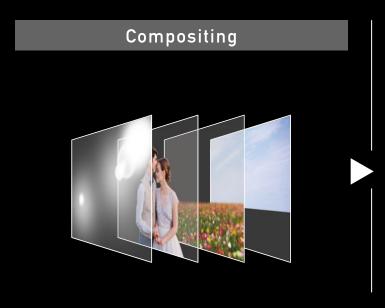


Image is for illustrative purposes only. Actual results will vary depending on model and environment.

HDR Video Workflow

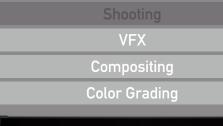
In addition to the ColorEdge PROMINENCE CG3146 HDR reference monitor, EIZO offers HLG and PQ curves with many of its CG Series monitors. The optimized gamma curves render images to appear more true to how the human eye perceives the real world compared to SDR. These products will support the HDR workflow from shooting to color grading.





Color Grading











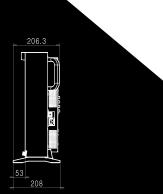
CG3146 HDR 4K

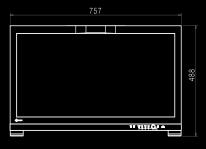
HDR Reference Monitor

31.1"	31.1"
4096 × 2160	4096 × 2160
350 cd/m ²	1000 cd/m ²
1500:1	1,000,000:1
DCI-P3: 98%	DCI-P3: 99%

Specifications

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Instruction Downstream USB 3.1 Gen 1: Type-A x 3 (Battery Charging 10.5 W max. x 1) Power Requirements AC 100 - 240 V, 50 / 60 Hz Typical Power Consumption 282 W Maximum Power Consumption 463 W Built-In Calibration Sensor Yes Preset Modes 1.2 W or less Digital Uniformity Equalizer Yes Digital Uniformity Equalizer Yes Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal HDR Gamma HLG_BT.2100, Calibration, Sync Signal Physical Specifications Dimensions (Landscape, W x H x D) 767 x 488 x 208 mm Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm 1000000000000000000000000000000000000	1105	Upstream	USB 3.1 Gen 1: Type-B
PowerTypical Power Consumption282 WMaximum Power Consumption463 WPower Save Mode1.2 W or lessBuilt-In Calibration SensorYesPeatures & FunctionsPreset ModesPreset ModesBT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync SignalHDR GammaHLG, PQ curveDimensions (Landscape, W x H x D)757 x 488 x 208 mmDimensions (Landscape, W x H x D)757 x 498.5 x 327 mmPhysical SpecificationsNet Weight26.5 kgNet Weight26.5 kgNet Weight (With Hood)27.4 kgHole Spacing (VESA Standard)200 x 200 mmOperating Temperature0 - 30 °COperating Temperature0 - 30 °CCertifications & Standards (Plexe: contact EIZO for the latest information.)26. CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CANICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/ErgonomicsSupplied Accessories (May vary by country, Please contact EIZO for the latest information.)Ces, Ce, UKCA, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics	USB	Downstream	USB 3.1 Gen 1: Type-A x 3 (Battery Charging 10.5 W max. x 1)
Power Maximum Power Consumption 463 W Power Save Mode 1.2 W or less Built-In Calibration Sensor Yes Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal HDR Gamma HLG, PQ curve Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm Physical Specifications Net Weight 26.5 kg Net Weight 200 x 200 mm 200 x 200 mm Environmental Requirements Operating Temperature 0 - 30 °C Certifications & Standards (Please contact EIZO for the latest information.) 26, CE, UKCA, TÜWGS, cTÜWus, FCC-A, CAN ICES-3 (A), TÜWS, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories Signal Cables DisplayPort (2 m), HDMI (2 m)		Power Requirements	AC 100 - 240 V, 50 / 60 Hz
Maximum Power Consumption 463 W Power Save Mode 1.2 W or less Built-In Calibration Sensor Yes Preset Modes Digital Uniformity Equalizer Yes Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, PQ_BT.2100, PQ_DCI-P3, PQ_BT.2100, PQ_DCI-P3, PQ_BT.2100, PQ_DCI-P3, PQ_BT.2100, PQ_DCI-P3, PQ_BT.2100, Calibration, Syne Signal HDR Gamma HLG, PC ourve Dimensions (Landscape, W x H x D) 757 x 483 x 208 mm Dimensions (Landscape with Hood, W x H x D) 778 x 498.5 x 327 mm Physical Specifications Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Certifications & Standards (Please contact EIZO for the latest information.) 20 - 80% Supplied Accessories Contact EIZO for the latest information.) CB, CE, UKCA, TUV/GS, cTUVus, FCC-A, CAN ICES-3 (A), TÜVs, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics	Daviar	Typical Power Consumption	282 W
Built-In Calibration Sensor Yes Brightness Stabilization Yes peatures & Functions Digital Uniformity Equalizer Yes Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal HDR Gamma HLG, PQ curve Physical Specifications Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Operating Temperature 0 - 30 °C Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact EIZO for the latest information.) CB, CE, UKCA, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics	Power	Maximum Power Consumption	463 W
Brightness Stabilization Yes Digital Uniformity Equalizer Yes Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal HDR Gamma HLG, PQ curve Physical Specifications Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm Physical Specifications Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Operating Temperature 0-30 °C Operating Humidity (R.H., non condensing) 20-80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Power Save Mode	1.2 W or less
Digital Uniformity Equalizer Yes Features & Functions Preset Modes BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal HDR Gamma HLG, PQ curve Physical Specifications Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Physical Specifications Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Operating Temperature 0-30 °C Operating Humidity (R.H., non condensing) 20.80% Certifications & Standards (Plexe contact EIZO for the latest information.) CB, CE, UKCA, TÜW/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, ROHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact EIZO for the latest information.) DisplayPort (2 m), HDMI (2 m)	Built-In Calibration Sensor		Yes
Features & Functions Description BT.2020, BT.709, DCI-P3, PQ_BT.2100, PQ_DCI-P3, HLG_BT.2100, Calibration, Sync Signal HDR Gamma HLG, PQ curve HLG, PQ curve Physical Specifications Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Physical Specifications Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm Physical Specifications Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Operating Temperature 0 - 30 °C Operating Temperature 0 - 30 °C Certifications & Standards (Please contact EIZO for the latest information.) 20 c - 80% Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Brightness Stabilization	Yes
Preset Modes Preset Modes HDR_Gamma HLG_BT_2100, Calibration, Sync Signal HDR Gamma HLG_PQ curve Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Dimensions (Landscape with Hood, W x H x D) 778 x 498.5 x 327 mm Physical Specifications Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Operating Temperature 0 - 30 °C Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories Signal Cables DisplayPort (2 m), HDMI (2 m)	Features & Functions	Digital Uniformity Equalizer	Yes
Dimensions (Landscape, W x H x D) 757 x 488 x 208 mm Dimensions (Landscape, W x H x D) 778 x 498.5 x 327 mm Dimensions (Landscape with Hood, W x H x D) 778 x 498.5 x 327 mm Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Operating Temperature 0 - 30 °C Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Preset Modes	
Dimensions (Landscape with Hood, W x H x D) 778 x 498.5 x 327 mm Physical Specifications Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Environmental Requirements Operating Temperature 0 - 30 °C Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		HDR Gamma	HLG, PQ curve
Physical Specifications Net Weight 26.5 kg Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Environmental Requirements Operating Temperature 0 - 30 °C Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)	Physical Specifications	Dimensions (Landscape, W x H x D)	757 x 488 x 208 mm
Net Weight (With Hood) 27.4 kg Hole Spacing (VESA Standard) 200 x 200 mm Environmental Requirements Operating Temperature 0 - 30 °C Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (Way vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Dimensions (Landscape with Hood, $W \times H \times D$)	778 x 498.5 x 327 mm
Hole Spacing (VESA Standard) 200 x 200 mm Environmental Requirements Operating Temperature 0 - 30 °C Certifications & Standards (Please contact EIZO for the latest information.) 20 - 80% Supplied Accessories (May vary by country, Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Net Weight	26.5 kg
Operating Temperature 0 - 30 °C Environmental Requirements Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Net Weight (With Hood)	27.4 kg
Environmental Requirements Operating Humidity (R.H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)		Hole Spacing (VESA Standard)	200 x 200 mm
Operating Humidity (R,H., non condensing) 20 - 80% Certifications & Standards (Please contact EIZO for the latest information.) CB, CE, UKCA, TÜV/GS, cTÜVus, FCC-A, CAN ICES-3 (A), TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country, Please contact Signal Cables DisplayPort (2 m), HDMI (2 m)	Environmental Requirements -	Operating Temperature	0 - 30 °C
Certifications & Standards (Please contact EIZO for the latest information.) TÜV/S, PSE, VCCI-A, RCM, EAC, RoHS, WEEE, TÜV/Ergonomics Supplied Accessories (May vary by country. Please contact EIZO for the latest information.) Signal Cables DisplayPort (2 m), HDMI (2 m)		Operating Humidity (R.H., non condensing)	20 - 80%
Supplied Accessories (May vary by country. Please contact EIZO for the latest information.) Signal Cables DisplayPort (2 m), HDMI (2 m)	Certifications & Standards (Please contact EIZO for the latest information.)		
	(May vary by country. Please contact	Signal Cables	
Warranty 5 Years 5	Warranty		5 Years ¹²³





¹ Usage time is limited to 30,000 hours (10,000 for the LCD panel).

² A brightness level of 800 cd/m² or more and a color temperature of 6500K are warranted.

³ Free from bright sub-pixels for 6 months from the date of purchase.

With current LCD technology, a panel may contain a limited number of missing or flickering pixels.



High Dynamic Range



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