



ColorEdge
PROMINENCE
CG3145

HDR
High Dynamic Range



EIZO's ColorEdge PROMINENCE CG3145 achieves a true HDR visual experience without ABL or the "halo" effect to ensure you always see accurate colours and brightness in every pixel.

EIZO's HDR reference monitor, ColorEdge PROMINENCE CG3145, is the first monitor to overcome the severe drawbacks of other HDR technologies that are available in the market today so it can be used reliably for both post production and grading work.

Auto Brightness Limiter (ABL) is equipped in other HDR OLED monitors and limits the monitor's ability to display lighter scenes with tones over a specific range in order to stop overheating. This causes those light areas to appear dimmer and the colour duller as a result. Due to the technology that EIZO uses in the ColorEdge PROMINENCE CG3145 ABL is not necessary.

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

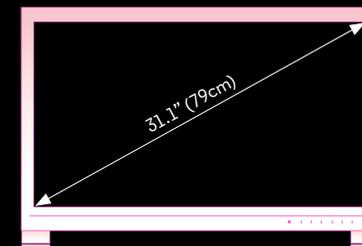
Size: 31.1" (79cm)

Resolution: 4096 x 2160 (1.9:1 aspect ratio)

Pixel Density: 149ppi

Colour: DisplayPort, HDMI 2.0: 1.07 billion from a palette of 278 trillion

Warranty: Five Year On-site



CG3145 - Features & Specifications

True HDR

ColorEdge PROMINENCE CG3145 achieves the 1000 cd/m² high brightness level needed for HDR content display. It also offers a contrast ratio in excess of 1,000,000:1 for displaying true blacks. The monitor supports the HLG and PQ gamma curves for HDR without ABL so images are displayed with the correct colour and brightness for a true HDR visual experience.

DCI 4K Resolution

ColorEdge PROMINENCE CG3145 displays the DCI-4K standard (4096 x 2160) which is more than four times that of full HD (1920 x 1080). It's ideal for creating, editing, and referencing with 2D and 3D CGI, VFX, compositing, and colour grading.

Centralised Colour Management

ColorEdge PROMINENCE CG3145 supports various video formats including HDMI 2.0 compatible with 10-bit 4:2:2 at 50/60p. DisplayPort supports up to 10-bit 4:4:4: at 50/60p. ColorEdge PROMINENCE supports EIZO's unique ColorNavigator NX quality control software. It offers quality control and asset management of client ColorEdge monitors. To suit the needs of a specific project, you can change the brightness, gamma, and white point settings of the monitor's preset colour modes and calibrate to the new values. The calibration information is saved directly to the monitor.

Video Compatibilities

ColorEdge PROMINENCE CG3145 supports various video formats including HDMI 2.0 compatible with 10-bit 4:2:2 at 50/60p. DisplayPort supports up to 10-bit 4:4:4: at 50/60p.

Wide Colour Gamut

The wide gamut faithfully reproduces 98% of DCI-P3 and 80% of Rec. 2020 standards used in post production (TBD). This ensures the colours are reproduced according to industry standards.

10-Bit Simultaneous Display

With a 10-bit simultaneous display* from a 24-bit 3D look-up-table (3D LUT), ColorEdge PROMINENCE CG3145 can show more than one billion colours simultaneously. This results in smooth colour gradations and reduced Delta-E between two adjacent colours.

Multiple Inputs

With a single cable, the DCI-4K resolution at 60 Hz is supported by DisplayPort inputs and at HDMI inputs.

Light-Shielding Hood

The monitor comes bundled with a shading hood that effectively prevents glare on the screen caused by ambient lighting. The hood attaches magnetically for quick and easy setup.

Electro-Optical Transfer Functions

There are two EOTF curves used for HDR video – hybrid log-gamma (HLG) and perceptual quantizer (PQ) curve. HLG is compatible with SDR displays and is suitable for live television broadcasting. The PQ Curve approximates the human visual system in terms of colour and light perception, making it ideal for films, streaming, and other video content. Both gamma curves were standardised by the International Telecommunication Union (ITU) as ITU-R BT.2100. In addition, the PQ curve was standardised by the Society of Motion Picture and Television Engineers (SMPTE) as ST-2084. ColorEdge PROMINENCE CG3145 supports both HLG and PQ curves.

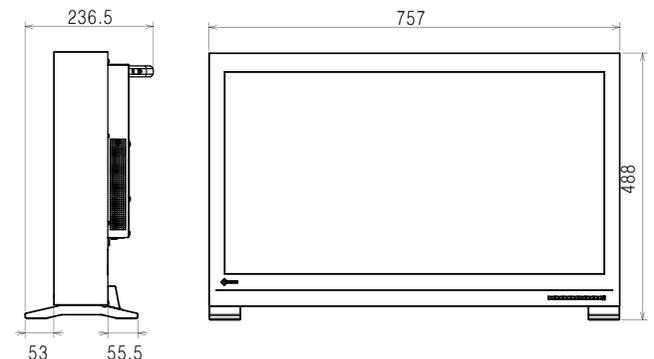
HDR Workflow

In addition to the ColorEdge PROMINENCE CG3145 HDR reference monitor, EIZO offers optional HLG and PQ curves for many of its current CG Series monitors. The optimised 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 colour grading.

Specifications

Cabinet Colour	Black
Panel Type	IPS
Panel Size	31.1" / 79 cm (789 mm diagonal)
Native Resolution	4096 x 2160 (1.9:1 aspect ratio)
Viewable Image Size (H°-V)	698 x 368.1 mm
Pixel Pitch	0.170 x 0.170
Pixel Density	149 ppi
Greyscale Tones	DisplayPort, HDMI: 1024 tones (a palette of 16.76 million tones)
Display Colours	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion
Viewing Angles (H / V, typical)	178°, 178°
Brightness (typical)	1000 cd/m ²
Contrast Ratio (typical)	1,000,000:1
Response Time (typical)	9 ms (grey-to-grey)
Wide Gamut Coverage (typical)	Adobe RGB: 99%, DCI-P3: 98% (TBD), Rec. 2020: 80% (TBD)
Input Terminals	DisplayPort x 2 (with HDCP), HDMI (with HDCP, Deep Color) 1
USB Function	1 port for monitor control, 3-port USB hub
USB Standard	USB 3.0
Preset Modes	Colour Mode (REC2020, REC709, DCI, PQ_REC709, PQ_DCI, HLG_REC2020, PQ_CAL, HLG_CAL, Calibration)
Included Cables	DisplayPort (2 m), Mini DisplayPort - DisplayPort (2 m), HDMI (2 m) AC power cord, USB cable

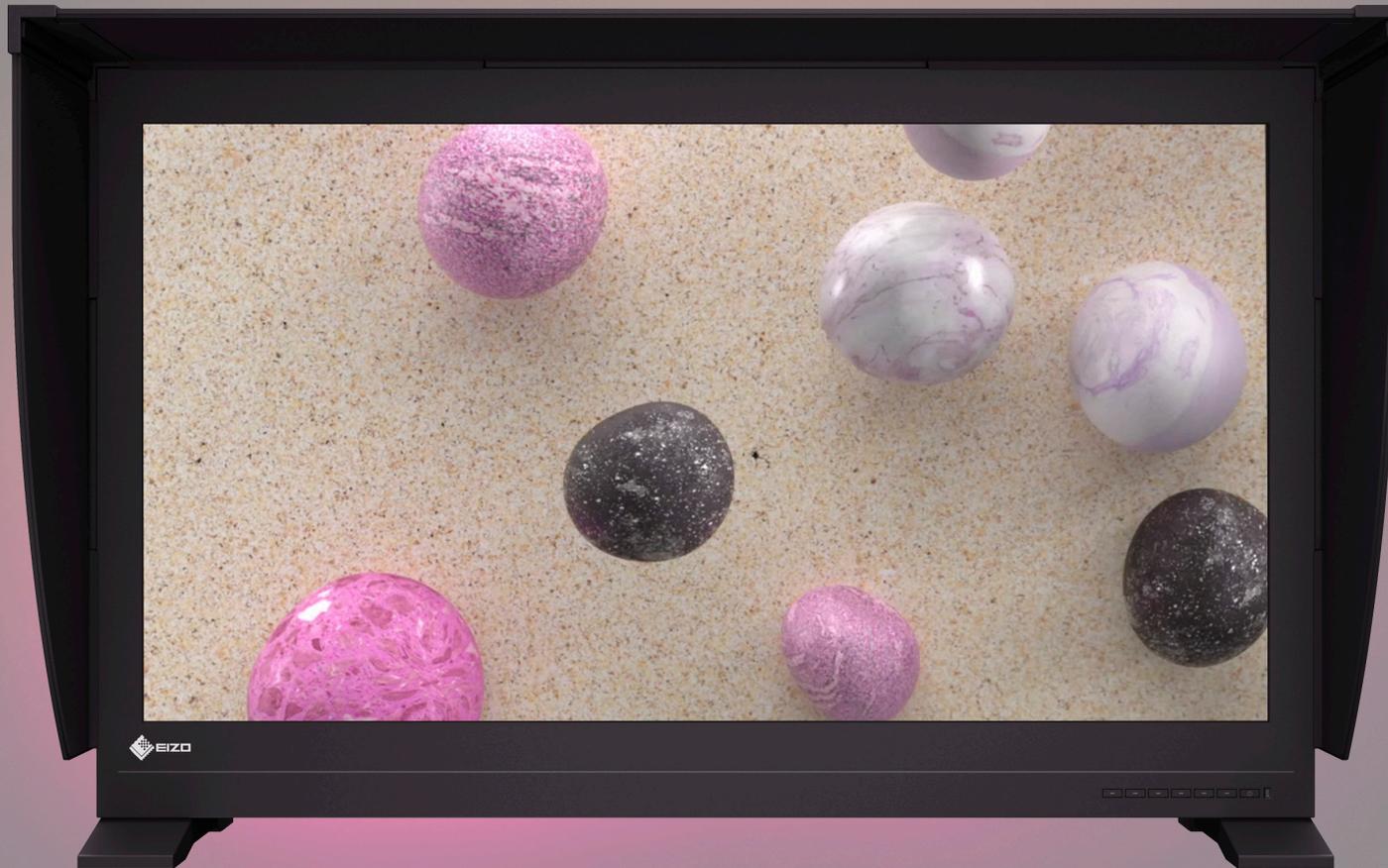
Dimensions (Unit: mm)



* A graphics board and software which support 10-bit output are also necessary for 10-bit display.



ColorEdge PROMINENCE CG3145



5 | Year on site Warranty
★★★★★

Warranty

Product: 5 years and 30,000 hours
LCD Panel: 5 years and 10,000 hours
Brightness warranty condition: as follows 5 years and 10,000 hours (at 6500K, and at least 800cd/m²) regardless of user's luminance and colour settings.

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