



Color Critical Monitor

ColorEdge® CG319X



A professional 4096 x 2160 monitor equipped with HLG and the PQ gamma curve for editing HDR video content, as well as a wide color gamut for displaying vibrant images.

- Comes equipped with HLG (hybrid log-gamma) and the PQ (perceptual quantization) curve for displaying and editing HDR (high dynamic range) video content
- The optimized gamma curves render images to appear more true to how the human eye perceives the real world compared to SDR
- Wide color gamut reproduces 98% of the DCI-P3 color space used in the media and entertainment industry
- Upgraded built-in calibration sensor for improved accuracy over time
- High contrast ratio of 1500:1 for producing true blacks
- Equipped with a retardation film which allows tones to retain their depth even when viewed from an angle
- Industry first AI temperature stabilizer - Internal temperature sensor which detects those changes and adjusts the monitor so gradations, color, brightness, and other characteristics continue to be displayed accurately
- Digital Uniformity Equalizer technology (DUE), DUE technology counterbalances fluctuating temperatures for stable image display across the screen



ColorEdge® CG319X

DCI 4K Resolution

The ColorEdge CG319X 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 color grading.

Large 31.1" Screen

The ColorEdge CG319X is equipped with HLG (hybrid log-gamma) and the PQ (perceptual quantization) curve for displaying and editing HDR (high dynamic range) video content. The optimized gamma curves render images to appear more true to how the human eye perceives the real world compared to SDR (standard dynamic range). This ensures professional creators can reliably display HDR content for editing and color grading.

Vivid Colors Reproduced to Industry Standards

This wide-gamut monitor faithfully reproduces 98% of the DCI-P3 standard used in digital cinema and supports the Rec. 2020 standard used in broadcasting. In addition, it covers 99% of the Adobe RGB color space so images shot in Adobe RGB will be displayed correctly. The wide color gamut also ensures reproduction of almost the entire ISO-coated and US web-coated CMYK color spaces used in printing.

True Black Display

In compliance with the DCI standard, the ColorEdge CG319X offers a high contrast ratio of 1500:1* for producing true blacks that are otherwise difficult to display on a typical LCD monitor. When viewing the screen from an angle in a dimly lit room, dark tones typically appear washed out due to the display characteristics of LCD backlights. The CG Series is equipped with a retardation film which allows tones to retain their depth even when viewed from an angle.

3D LUT for Accurate Color Display

A 3D LUT is included which adjusts colors individually on an RGB cubic table. With the supported ColorNavigator NX software's emulation function, creators can check how content will appear to their audience. The 3D LUT also improves the monitor's additive color mixture (combination of RGB), which is a key factor in its ability to display neutral gray tones.

10-Bit Simultaneous Display

With 10-bit simultaneous display from a 24-bit look-up-table (LUT), the ColorEdge CG319X can show more than one billion colors simultaneously. This results in smooth color gradations and reduced Delta-E between two adjacent colors.

Broadcast and Cinema Presets

Preset modes for DCI-P3, Rec. 709, and Rec. 2020 ensure you can work in the appropriate color spaces and gamma values. In addition, preset modes for PQ (DCI and Rec. 2100) and HLG (Rec. 2100) are available for viewing HDR content. With the built-in calibration sensor, you can conveniently adjust or maintain the brightness setting for each preset.

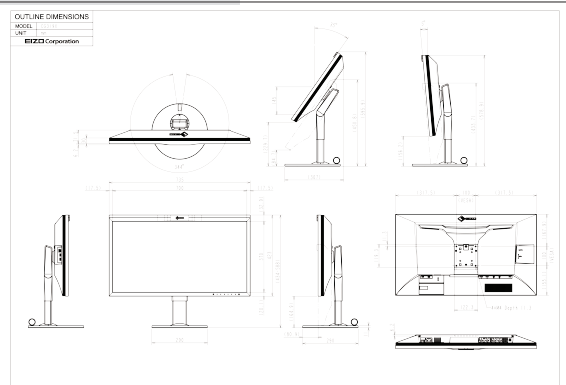
Luminance Warning

The ColorEdge CG319X includes a PQ and HLG Clipping function that shows the areas of an image which display at brightness levels higher than the current setting. The areas which cannot be displayed at the correct brightness with the current settings are shown in yellow or magenta. PQ and HLG Clipping can be viewed for brightness levels of 300, 500, 1000, and 4000 cd/m².

Specifications

Cabinet Color	Black	
Panel	Type	Color (IPS)
	Backlight	Wide-Gamut LED
	Size	31.1" / 79 cm
	Native Resolution	4096 x 2160 (17:9 aspect ratio)
	Viewable Image Size (H x V)	698.0 x 368.1 mm
	Pixel Pitch	0.170 x 0.170 mm
	Display Colors	DisplayPort, HDMI: 1.07 billion from 24-bit palette
	Greyscale Tones	DisplayPort, HDMI: 1,024 tones (a palette of 65 thousand tones)
	Viewing Angles (H / V, typical)	178° / 178°
	Brightness (typical)	350 cd/m ²
Recommended Brightness for Calibration	120 cd/m ² or less	
Contrast Ratio (typical)	1500:1	
Response Time (typical)	9 ms (Gray-to-gray)	
HDR Gamma		HLG, PQ curve
Video Signals	Input Terminals	DisplayPort x 2 (with HDCP Ver.1.x 6), HDMI x 2 (HDCP, Deep Color)
	Digital Scanning Frequency (H / V)	DisplayPort: 25.0 - 137 kHz, 23 - 61 Hz HDMI: 15 - 136 kHz, 23 - 61 Hz
USB	Function	1 port for monitor control 3-port USB hub
	Standard	USB 3.0
Power	Power Requirements	AC 100 - 240 V: 50 / 60 Hz
	Maximum Power Consumption	140 W
	Typical Power Consumption	52 W
	Power Save Mode	1.2 W or less
Power Management	Power Save (DisplayPort: Rev. 1.2a)	
Sensor	Brightness Stabilization	Yes
	Digital Uniformity Equalizer	Yes
Features & Functions	Preset Modes	Color Mode (REC2020, REC709, DCI, PQ_DCI, PQ_REC2100, HLG_REC2100, Adobe RGB, sRGB, Calibration)
	OSD Languages	English, German, French, Italian, Japanese, Simplified Chinese, Spanish, Swedish, Traditional Chinese
Physical Specifications	Net Weight	12.4 kg / 27.3 lbs
	Net Weight (Without Stand)	8.3 kg / 18.3 lbs
	Hole Spacing (VESA Standard)	100 x 100 mm
Certifications & Standards		CB, CE, TUV/GS, cTUVus, FCC-B, CAN ICES-3 (B), VCCI-B, TUV/Ergonomie, TUV/Color Accuracy (Quick Stability), RCM, EAC, RoHS, WEEE, CUDO certified mark, China RoHS, CCC
Color Management Software	ColorNavigator	Yes
Supplied Accessories		AC power cord, signal cables (DisplayPort - DisplayPort, Mini DisplayPort - DisplayPort, HDMI - HDMI), USB cable, user's manual - setup guide, adjustment certificate, ScreenCleaner, monitor hood, warranty card
Warranty	Five Years	

Dimensions:



EIZO Inc.

5710 Warland Dr. Cypress CA 90630 USA
Phone 1-562-431-5011 Fax 1-562-431-4811

www.eizo.com

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