



# ColorEdge® CG232W

57 cm (22.5") Color Calibration LCD Monitor for Video

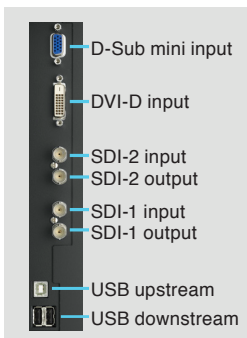


## Post-Production and Broadcasting Monitor for Reference and Editing

With the ColorEdge CG232W, studio professionals can now conduct all of their work on one monitor, whereas they previously needed both a master monitor for reference (playback) and a desktop monitor for editing. This offers significant cost savings, while solving the problem of trying to match color between different monitors.

## Multiple Input Support

Input support includes BNC x 2 (SD-SDI/HD-SDI x 2 or dual-link SDI x 1), DVI-D, and D-Sub for direct connection to broadcast and studio sources as well as desktop PCs.



## Preset Color Modes

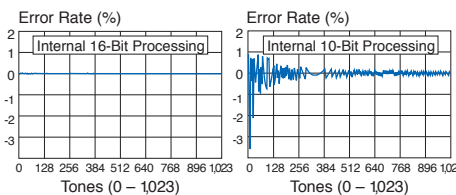
The panel's wide gamut reproduces broadcast-standard color spaces such as PAL/SECAM and HDTV. In addition, preset color modes for Rec. 709, EBU, SMPTE-C, DCI, and sRGB are available at the touch of a button.

## 3D LUT and 10-bit Simultaneous Display

A 3D LUT (look-up table) allows for previewing how colors will be reproduced on the final film print. 10-bit simultaneous display means more than 1 billion colors can be shown on the screen at once. This is 64 times the numbers of colors supported by standard 8-bit display, and virtually eliminates color and grayscale banding.

## 16-Bit Internal Processing

With most LCD monitors, the black level is usually too bright which leads to banding and washing out of dark grays. 16-bit internal processing allows the ColorEdge CG232W to reproduce a high level of detail in dark areas.



## Hardware Calibration

The bundled ColorNavigator calibration software lets you set the target values for brightness, white point, and gamma. ColorNavigator works with a measurement device to directly utilize the monitor's 3D LUT for accurate calibration in less than five minutes.

## Brightness and Color Uniformity

EIZO's Digital Uniformity Equalizer function corrects brightness and chroma uniformity errors to ensure the entire screen will be practically uniform at each gray level from 0 to 1,023.

## Additional Features

- High-quality IPS (in-plane switching) panel with 1920 x 1200 native resolution and 170° viewing angles.
- A panel display frame rate of 120 Hz virtually eliminates motion artifacts or "judder" for smooth video playback.
- Backed by a five-year limited manufacturer's warranty<sup>1</sup>.



## Specifications

Panel Size and Type	57 cm (22.5") TFT color LCD panel
Viewing Angles (H, V)	170°, 170° (at contrast ratio of 10:1)
Brightness	380 cd/m <sup>2</sup> (maximum) 100 cd/m <sup>2</sup> (recommended <sup>1</sup> )
Contrast	720:1 (typical)
On/Off Response Time	12 ms (typical)
Native Resolution	1920 x 1200
Active Display Size (H x V)	483.8 x 302.4 mm
Viewable Image Size	Diagonal: 570 mm
Pixel Pitch	0.252 x 0.252 mm
Gamut Coverage	sRGB: 97% Rec709: 97% EBU: 97% SMPTE-C: 98% Adobe RGB: 97% DCI: 88%
Display Colors	1.07 billion from a palette of 68 billion
Look-Up Table	12-bits per color
Internal Processing	16-bits per color
Screen Uniformity <sup>2</sup>	Entire Screen: ΔE <sub>s</sub> ≤3
Cabinet Color	Black
Dot Clock	Analog: 162 MHz, Digital: 162 MHz
Scanning Frequency (H, V)	Analog: 26 – 92 kHz, 23.8 – 86 Hz (non-interlace), Digital: 26 – 78 kHz, 23.8 – 61.0 Hz (VGA Text: 68 – 71 Hz) (non-interlace)
Input Signals	RGB Analog, DVI Standard 1.0, SD / HD-SDI (Dual Link)
Input Terminals	DVI-D x 1, D-sub x 1, BNC x 2 (Single Link x 2 or Dual Link x 1)
Output Signal	SDI : SD / HD-SDI (Loop-through)
Output Terminals	BNC x 2 (Single Link x 2 or Dual Link x 1)
USB Port / Standard	1 up, 2 down / USB 2.0
HDCP Support	DVI-D <sup>3</sup>
Power Requirements	AC 100 – 120 V, 200 – 240 V: 50 / 60 Hz
Power Consumption	110 W (maximum)
Power Save Mode	Less than 7 W
Height Adjustment Range	118 mm
Tilt / Swivel / Pivot	40° Up, 0° Down / 35° Right, 35° Left
Dimensions (W x H x D)	With Stand: 567 x 481 – 599 x 255 mm Without Stand: 567 x 389 x 113 mm
Net Weight	With Stand: 13.4 kg Without Stand: 8.8 kg
Auto Brightness Functions	Auto Brightness Stabilization
Color Modes	Custom, sRGB, EBU, Rec709, SMPTE-C, DCI, Calibration
Supplied Accessories	AC power cord, signal cables (DVI-D – DVI-D, DVI-I – D-Sub mini 15 pin), USB cable, setup guide, EIZO LCD Utility Disk (ColorNavigator software, PDF user's manual), adjustment certificate, screen cleaner, quick reference, warranty card
Warranty	Five Years <sup>1</sup>

<sup>1</sup> The usage time is limited to 30,000 hours or less, and the warranty period of the LCD panel and backlight is limited to three years from the date of purchase. The warranty period of the backlight is warranted only if the monitor is used within the recommended brightness of up to and including 100 cd/m<sup>2</sup> with a color temperature between 5,000 K – 6,500 K and limited to three years from the date of purchase subject to the usage time being less than or equal to 10,000 hours.

<sup>2</sup> Measured at gray level 128 and color temperature of 5000 K.  
<sup>3</sup> Display with audio/video devices is not supported.

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

## SDI Input Signals

No.	Supported Signals	Display Resolution	Frame Frequency (Hz)	Sampling Frequency (MHz)	Link	Scan Mode	Format	Referred Standard
1	720 × 487 / 59.94i	720 × 487	29.97	13.5	Single	Interlace	YCbCr 4:2:2	SMPTE 125M
2	720 × 576 / 50i	720 × 576	25	13.5	Single	Interlace	YCbCr 4:2:2	ITU-R BT.601
3	1280 × 720 / 60p	1280 × 720	60	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 296M
4	1280 × 720 / 59.94p	1280 × 720	59.94	74.25 / 1.001	Single	Progressive	YPbPr 4:2:2	SMPTE 296M
5	1280 × 720 / 50p	1280 × 720	50	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 296M
6	1280 × 720 / 30p	1280 × 720	30	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 296M
7	1280 × 720 / 29.97p	1280 × 720	29.97	74.25 / 1.001	Single	Progressive	YPbPr 4:2:2	SMPTE 296M
8	1280 × 720 / 25p	1280 × 720	25	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 296M
9	1920 × 1035 / 60i	1920 × 1035	30	74.25	Single	Interlace	YPbPr 4:2:2	SMPTE 260M
10	1920 × 1035 / 60i	1920 × 1035	29.97	74.25 / 1.001	Single	Interlace	YPbPr 4:2:2	SMPTE 260M
11	1920 × 1080 / 60i	1920 × 1080	30	74.25	Single	Interlace	YPbPr 4:2:2	SMPTE 274M
12	1920 × 1080 / 59.94i	1920 × 1080	29.97	74.25 / 1.001	Single	Interlace	YPbPr 4:2:2	SMPTE 274M
13	1920 × 1080 / 50i	1920 × 1080	25	74.25	Single	Interlace	YPbPr 4:2:2	SMPTE 274M
14	1920 × 1080 / 50i	1920 × 1080	25	74.25	Single	Interlace	YPbPr 4:2:2	SMPTE 295M
15	1920 × 1080 / 30p	1920 × 1080	30	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 274M
16	1920 × 1080 / 30PsF	1920 × 1080	30	74.25	Single	PsF	YPbPr 4:2:2	SMPTE RP211
17	1920 × 1080 / 29.97p	1920 × 1080	29.97	74.25 / 1.001	Single	Progressive	YPbPr 4:2:2	SMPTE 274M
18	1920 × 1080 / 29.97PsF	1920 × 1080	29.97	74.25 / 1.001	Single	PsF	YPbPr 4:2:2	SMPTE RP211
19	1920 × 1080 / 25p	1920 × 1080	25	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 274M
20	1920 × 1080 / 25PsF	1920 × 1080	25	74.25	Single	PsF	YPbPr 4:2:2	SMPTE RP211
21	1920 × 1080 / 24p	1920 × 1080	24	74.25	Single	Progressive	YPbPr 4:2:2	SMPTE 274M
22	1920 × 1080 / 24PsF	1920 × 1080	24	74.25	Single	PsF	YPbPr 4:2:2	SMPTE RP211
23	1920 × 1080 / 23.98p	1920 × 1080	23.976	74.25 / 1.001	Single	Progressive	YPbPr 4:2:2	SMPTE 274M
24	1920 × 1080 / 23.98PsF	1920 × 1080	23.976	74.25 / 1.001	Single	PsF	YPbPr 4:2:2	SMPTE RP211
25	1920 × 1080 / 60p	1920 × 1080	60	74.25	Dual	Progressive	YPbPr 4:2:2	SMPTE 372M
26	1920 × 1080 / 59.94p	1920 × 1080	59.94	74.25 / 1.001	Dual	Progressive	YPbPr 4:2:2	SMPTE 372M
27	1920 × 1080 / 50p	1920 × 1080	50	74.25	Dual	Progressive	YPbPr 4:2:2	SMPTE 372M
28	1920 × 1080 / 50p	1920 × 1080	50	74.25	Dual	Progressive	YPbPr 4:2:2	SMPTE 372M
29	1920 × 1080 / 30p	1920 × 1080	30	74.25	Dual	Progressive	YPbPr, RGB 4:4:4	SMPTE 372M
30	1920 × 1080 / 29.97p	1920 × 1080	29.97	74.25/1.001	Dual	Progressive	YPbPr, RGB 4:4:4	SMPTE 372M
31	1920 × 1080 / 25p	1920 × 1080	25	74.25	Dual	Progressive	YPbPr, RGB 4:4:4	SMPTE 372M
32	1920 × 1080 / 24p	1920 × 1080	24	74.25	Dual	Progressive	YPbPr, RGB 4:4:4	SMPTE 372M
33	1920 × 1080 / 23.98p	1920 × 1080	23.976	74.25 / 1.001	Dual	Progressive	YPbPr, RGB 4:4:4	SMPTE 372M
34	1920 × 1080 / 30PsF	1920 × 1080	30	74.25	Dual	PsF	YPbPr, RGB 4:4:4	SMPTE 372M
35	1920 × 1080 / 29.97PsF	1920 × 1080	29.97	74.25 / 1.001	Dual	PsF	YPbPr, RGB 4:4:4	SMPTE 372M
36	1920 × 1080 / 25PsF	1920 × 1080	25	74.25	Dual	PsF	YPbPr, RGB 4:4:4	SMPTE 372M
37	1920 × 1080 / 24PsF	1920 × 1080	24	74.25	Dual	PsF	YPbPr, RGB 4:4:4	SMPTE 372M
38	1920 × 1080 / 23.98PsF	1920 × 1080	23.976	74.25 / 1.001	Dual	PsF	YPbPr, RGB 4:4:4	SMPTE 372M
39	1920 × 1080 / 60i	1920 × 1080	30	74.25	Dual	Interlace	YPbPr, RGB 4:4:4	SMPTE 372M
40	1920 × 1080 / 59.94i	1920 × 1080	29.97	74.25	Dual	Interlace	YPbPr, RGB 4:4:4	SMPTE 372M
41	1920 × 1080 / 50i	1920 × 1080	25	74.25	Dual	Interlace	YPbPr, RGB 4:4:4	SMPTE 372M
42	1920 × 1080 / 50i	1920 × 1080	25	74.25	Dual	Interlace	YPbPr, RGB 4:4:4	SMPTE 372M
43	2048 × 1080 / 24p	2048 × 1080	24	74.25	Dual	Progressive	RGB 4:4:4	SMPTE 428M
44	2048 × 1080 / 24PsF	2048 × 1080	24	74.25	Dual	PsF	RGB 4:4:4	SMPTE 428M