



27" Color Management Monitor ColorEdge® CS270



In terms of color reproduction, the EIZO ColorEdge CS270 boldly upstages conventional office monitors. It is perfect for photography enthusiasts and amateur image processors while helping them to properly visualize their creative output. The 27-inch monitor features a wide gamut and the option of hardware calibration. It differentiates colors just like in the original image thanks to its 16-bit look-up-table. When it comes to color photography and image processing, high-quality camera equipment is just the beginning. You also need a first-class monitor to guarantee top-notch results. The CS270 excels at highlights and shadows in drawings and textures while also mastering highly saturated tones. 10-bit color resolution is possible thanks to the DisplayPort and HDMI ports. The monitor can therefore display even the smallest of tonal gradations with a billion colors.

- ◆ 27-inch wide gamut LCD with 2560 x 1440 pixels to deliver ultra-sharp details
- ◆ Wide gamut covering 99% of the Adobe RGB color gamut
- ◆ Precise hardware calibration of brightness, white balance, and gamma
- ◆ Digital Uniformity Equalizer for top-rate luminance distribution and color purity
- ◆ Color precision with 16-bit look-up-table and up to 10-bit color reproduction
- ◆ Wide variety of ports including DisplayPort, DVI-D, and HDMI inputs
- ◆ ColorNavigator software included in delivery
- ◆ Recommended optional accessories: Measurement device for hardware calibration



EIZO CS270

Features

Outstanding image quality

The CS270 stands out with clear graphics and structures as well as sharp text contours. Its IPS-LCD module guarantees contrast and hues that are independent of the viewing angle. The backlight is achieved by using state-of-the-art, energy-saving LED technology.

Wide gamut

The gamut of the CS270 includes significantly more colors than traditional LCD screens. For example, it covers colors in offset printing at 100%. For this reason, the screen visibly shows which saturation has been achieved with cyan and yellow tones.

High resolution look-up-table

Thanks to its 16-bit look-up-table, the CS270 can resolve image signals with an accuracy of 1/65 thousandths. Color nuances and image structure are not lost, particularly in the case of dark hues. This reliable and precise reproduction reduces calibration steps, saving valuable production time.

Consistent hue curve and color

The brightness level of LCDs varies from module to module in relation to the image signal and the addition of red, green, and blue. This can only be recorded and controlled using special measurement devices. For this reason, EIZO configures each CS270 at the factory with its colors and hue curve. Therefore, a consistent color temperature is attained on the entire gray value scale. The result: Color reproduction is balanced, precise, and consistent for the CS270.

Precise calibration

The ColorNavigator software (included in the delivery of the CS270) has direct access to the monitor's look-up-table during calibration. This enables the user to set color temperature, brightness, blackness, and hue curve to suit their requirements. Calibration is based on the default set during production and is therefore unique in terms of precision and speed. An optional hand-held measurement device is necessary for calibration.

Digital Uniformity Equalizer (DUE)

The DUE in the CS270 ensures color purity and brightness distribution across the entire display surface. A chip automatically adjusts for irregularities. While conventional LCDs are optimized at best for homogeneity of a white surface, every hue looks the same across the entire screen with EIZO. The DUE ensures precisely matching colors from the center right to the outermost edge of the screen. The DUE Priority function allows the user to freely choose whether to prioritize maximum homogeneity or maximum brightness.

Digital inputs

DisplayPort, HDMI, and DVI-D ports allow up to three computers to be connected at the same time. Users can switch between the interfaces automatically or manually. HDMI signals from HD cameras can be viewed directly with the CS270 using the HDMI and DisplayPort ports.

USB hub

An integrated USB hub makes it possible to attach peripheral devices. For example, a keyboard and mouse can be connected to the monitor. The CS270 has two upstream ports, enabling devices connected to the monitor to be used alternately with two computers.

HDMI

The monitor offers conventional resolutions and image refresh rates for video production. HDMI signals (YUV and RGB) are supported with the refresh rates of 60, 50, 30, 25, and 24 Hz. The monitor also features I/P conversion. The CS270 can be conveniently used in video editing and animation systems.

10-bit color depth

The CS270 features a DisplayPort and HDMI port in addition to DVI interfaces. The port has a 10-bit color resolution in combination with the frame rate control (FRC). The monitor can therefore display even the smallest of tonal gradations with a billion colors. However, you need to have the corresponding application software and graphics board that provide 10-bit support.

FlexStand

This enables turning and tilting as well as operation in portrait and landscape mode. Continuous height adjustment starts from very low on the stand and has a range of 15 centimeters. This guarantees optimal ergonomics, regardless of whether the user is sitting or standing in front of the screen. The FlexStand base is always fully stable, despite its extraordinary range of movement.



Test marks



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Specifications

Diagonal	68 cm (27 inches), 16:9 aspect ratio	Power management	VESA DPMS, DVI-DMPM
Visible image size	597 mm (width) x 336 mm (height)	Power consumption	Max.* 86 watts Typical power consumption of 34 watts, max. 0.7 watts in OFF mode 0 watts when power switch is OFF
Visible diagonal	685 mm	Energy efficiency category	B
Ideal and recommended resolution	2560 pixels x 1440 lines	Annual energy consumption	53 kWh
Dot pitch	0.233 mm x 0.233 mm	Dimensions (W x H x D)	65 x (41–56) x 25 cm
Displayable colors	1 billion (10-bit) DisplayPort and HDMI 16.7 million (8-bit) DVI	Weight	10.6 kg
Color control	16-bit look-up-table 48-bit (3 x 16-bit) Approx. 278 billion hues	Test marks	CE, TÜV GS, TÜV certified ergonomics, ISO 9241-307 pixel fault class 1
Max. color range	Adobe RGB: 99% ISO Coated V2: 100% sRGB: 100%, Rec709: 100%, EBU: 100%, SMPTE-C: 100%, DCI: 93%	Flexibility	172° right/left, +5°/-35° tilt, 90° rotatable, 15 cm height adjustment
Max. brightness	300 cd/m ²	USB hub	Two upstream/two downstream, version 2.0
Max. dark room contrast	1000:1	Accessories included	Included: Manual in German, English, and French, ColorNavigator, power, USB, and signal cables for Mini DisplayPort and DVI-D
Max. viewing angle	Horizontal: 178°; vertical: 178°	Optional accessories	Light protection shields (CH5), EX2 (colorimeter)
LCD technology	IPS	Service	Five-year on-site replacement service
Typical mid-tone reaction time	15 ms	Errors excepted 06/15	
Typical reaction time, rise/fall	14 ms, black-white changeover		
Features	Hardware calibration of brightness, white balance, and gamma adjustment with optional measurement device, wide gamut, 16-bit look-up-table (48-bit R+G+B), Digital Uniformity Equalizer, I/P conversion (HDMI), signal range extension (HDMI), noise reduction (HDMI), RGB gamut emulation, Color Universal Design mode (simulating color blindness), HDCP decoder, USB V2.0, powered hub		
Configuration options	Brightness, contrast, gamma 1 to 2.6, step size 0.1, color saturation for RGBCMY, color temperature: 4,000 to 10,000 K, gamut clipping, DUE priority, power-off timer, OSD language (DE, UK, FR, SE, ES, IT)		
Resolutions	Max. 2560 x 1440, full image 1:1, HDMI 60 Hz: VGA, 480i, 480p, 1080i, 720p, 1080p HDMI 50 Hz: 576i, 576p, 1080i, 720p, 1080p HDMI 30 Hz/25 Hz/24 Hz: 1080p HDMI 30 Hz: 2560 x 1440		
Horizontal frequency	Digital: 26–89 kHz, 15–78 kHz (HDMI)		
Vertical frequency	23.75–63 Hz (digital: 23.75–63 Hz)		
Video bandwidth	DVI/DisplayPort: 242 MHz, HDMI: 164.5 MHz		
Graphic signals	DisplayPort, DVI (TMDS), HDMI (YUV and RGB)		
Signal inputs	DisplayPort, DVI-D, HDMI		
Plug & Play	VESA DDC CI		

* At maximum brightness and when all signal inputs and the USB hub are in operation



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