You need both a good camera and a first-class monitor if you want to play it safe when it comes to color photography and image processing. The EIZO ColorEdge CS240 steps in to allow the viewer to see all of the colors and tones from the image. The 24-inch monitor features a wide gamut, hardware calibration and a 16-bit look-up-table. Colors are differentiated just like in the original image. The CS240 is perfect for photography enthusiasts and amateur image processors. It helps you view the fruits of your creativity properly, allowing it to overshadow conventional office monitors. A 10-bit colour resolution is possible thanks to the DisplayPort and HDMI port. The monitor can therefore display even the smallest of tonal gradations with a billion colours.

♦ Wide gamut LCD with LED technology, contrast 1000:1, brightness 350 cd/m²

♦ Wide gamut covering 99% of the AdobeRGB colour gamut

♦ 16-bit LUT for exact hardware calibration of brightness, white balance and gamma

♦ Digital Uniformity Equalizer for excellent luminance distribution and color purity

♦ Color precision with 16-bit look-up-table and up to 10-bit color reproduction

♦ DisplayPort, DVI-D and HDMI inputs

♦ ColorNavigator software included in delivery

♦ Recommended optional accessories: Measurement device for hardware calibration

5 YEARS WARRANTY

EIZO CS240
Features

Outstanding image quality
The CS240 gleams with clear graphics and structures as well as sharp text contours. Its IPS-LCD module guarantees contrast and color tones 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 CS240 includes significantly more colours 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 CS240 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. Before delivery, EIZO therefore configures each CS240 with its colours and hue curve. Therefore, a consistent color temperature is attained on the entire grey value scale. The result is that the colour reproduction is balanced, precise and reliable for the CS240.

Exact calibration
The ColorNavigator software (included in the delivery of the CS240) 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 CS240 ensures colour purity and even brightness distribution across the entire display surface. A chip automatically adjusts for irregularities. While conventional LCDs are optimised at best for homogeneity of a white surface, every hue looks the same across the entire screen with EIZO. The DUE ensures precisely matching colours from the centre right to the outermost edge of the screen. The DUE Priority function allows the user to freely choose whether to prioritise maximum homogeneity or maximum brightness.

Overdrive
The CS240 processes moving images by projection and overdrive in such a way that fast video sequences are displayed without any annoying delays.

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 CS240 via HDMI and DisplayPort.

USB hub
An integrated USB hub enables the connection of peripheral devices. For example, a keyboard and mouse can be connected to the monitor. The CS240 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 CS240 can be conveniently used in video editing and animation systems, too.

Reliable and energy-efficient
LED backlight, power-off timer and PowerManager are among the energy-saving features. This helps users save energy and protect the environment when the computer is not in use. The power-off timer and PowerManager are particularly useful as they reduce the ageing of the LCD backlight and luminance distribution. Brightness and homogeneity can be maintained for longer.

10-bit colour depth
The CS240 has a DisplayPort and HDMI ports 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 format.
The continuous height adjustment starts very low on the base and has a range of 13 centimetres. 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 maximum range of movement.

Test marks

EIZO Europe:

Austria ♦ www.eizo.at
Belgium & Luxembourg ♦ www.eizo.be
Czech Republic ♦ www.eizo.cz

Germany ♦ www.eizo.de
Hungary ♦ www.eizo.hu
Italy ♦ www.eizo.it

Slovakia ♦ www.eizomonitor.sk
The Netherlands ♦ www.eizo.nl
United Kingdom ♦ www.eizo.co.uk

EIZO CS240
Specifications

Diagonal	61 cm (24 inches) 16:10 aspect ratio	Power consumption	Max.* 68 watts Typical power consumption of 27 watts, max. 0.5 watts in OFF mode 0 watts when power switch is OFF
Visible image size	518 mm (width) x 324 mm (height)		
Visible diagonal	611 mm		
Ideal and recommended resolution	1920 pixels x 1200 lines	Dimensions (WxHxD)	58 cm x (42–55) x 25 cm
		Weight	8.7 kg
Dot pitch	0.27 mm x 0.27 mm	Test marks	CE, TÜV GS, TÜV certified ergonomics, ISO 9241-307 pixel fault class 1
Displayable colors	1 billion (10-bit) DisplayPort and HDMI 16.7 million (8-bit) DVI		
Color control	16-bit look-up-table 48-bit (3 x 16-bit) Approx. 278 billion color tones	Flexibility	172° right/left, 35° to the back, -5° to the front, 90° rotatable, 13 cm height adjustment
Max. color range	AdobeRGB: 99% ISO coated V2: 100% sRGB: 100% Rec709: 100% EBU: 100% SMPTE-C: 100% DCI: 95.4%	USB hub	Two upstream/two downstream, rev. 2.0
		Accessories included	Included: Manual in German, English and French, ColorNavigator, power, USB and signal cable for Mini DisplayPort and DVI-D
		Optional accessories	Light protection shields (CH7), EX2 (colorimeter)
Max. brightness	350 cd/m²	Service	Five-year on-site replacement service
Max. dark room contrast	1000:1	Errors excepted 10/14	
Max. viewing angle	Horizontal: 178°; vertical: 178°		
LCD technology	IPS		
Typical mid-tone reaction time	7.7 ms		
Typical reaction time, rise/fall	6/6 ms, black-white change		
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, overdrive, 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. 1920 x 1200 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		
Horizontal frequency	Digital: 26–78 kHz (HDMI 15–68 kHz)		
Vertical frequency	Digital: 23.75–63 Hz		
Video bandwidth	Digital: 164.5 MHz/149 MHz (HDMI)		
Graphic signals	DisplayPort, DVI (TMDS), HDMI (YUV and RGB)		
Signal inputs	DisplayPort, DVI-D, HDMI		
Plug & Play	VESA DDC CI		
Power management	VESA DPMS, DVI-DMPM		

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