



CS2420

Your advantages



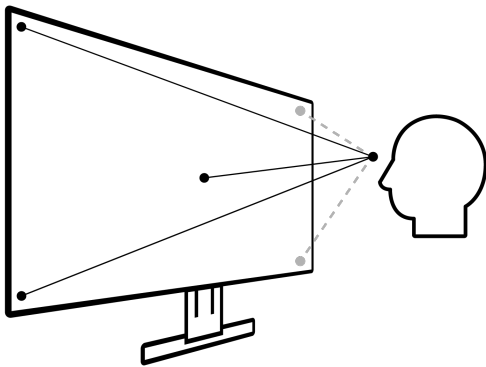
The size of the gamut and the stability of the LCD technology's viewing angle entirely depend on the sophistication of the electronics and the precision of the calibration. The ColorEdge CS2420 stands out with an EIZO microprocessor that was specifically developed for precise colour reproduction and calibration. Its hues are adjusted during production in a 16-bit look-up-table for perfect gradation properties. This enables precise calibration in a flash. Because of this, the CS2420 displays colors and curves as precisely as possible for users. It is perfect for enthusiasts of amateur photography and image editing because it provides them with an unadulterated look at their images. As is typical for EIZO products, the CS2420 is manufactured from high-quality components in our own factory in Japan. This makes the product lastingly reliable, which is why it comes with a five-year manufacturer's warranty.

- ✓ Wide gamut LCD with LED technology, contrast 1,000:1, brightness 350 cd/sq m
- ✓ High-performance colour range with 99 % AdobeRGB colour space coverage
- ✓ 16 bit LUT for exact hardware calibration of brightness, white point, and gamma
- ✓ Digital Uniformity Equaliser (DUE) for excellent luminance distribution and colour purity
- ✓ Colour precision with 16 bit look-up table and up to 10 bit colour rendering
- ✓ DisplayPort, DVI-D, and HDMI inputs
- ✓ ColorNavigator software included
- ✓ Recommended optional accessories: Measuring device for hardware calibration

Features

Excellent image quality for sharp images

The screen convinced with a resolution of 1920 x 1200, an impressive contrast ratio of 1000:1 and a brightness of 350 cd/m². So you are able to edit graphics and images pixel accuracy. And: the textures are clear and precisely. The LCD panel with IPS (Wide Gamut) technology enables a viewing angle of 178 degrees, ensuring that hues and contrast remain stable for the viewer.



EIZO microchip for optimised colour reproduction



The CS2420 has a high-quality microchip (ASIC, Application-Specific Integrated Circuit), which EIZO has developed specifically for the

special requirements of colour-proof work. Thanks to their own algorithm, EIZO ASICs ensure a precise, uniform, and constant colour display.

Exact colour reproduction – factory calibration

With LCD panels, the image display can vary from module to module. That is why each ColorEdge monitor is precisely measured and calibrated in the factory. The gamma curves for the red, green and blue channels are tested according to strict parameters and corrected if necessary. This unique EIZO factory calibration enables the user to start using the monitor with the preset

gamut right out of the box. In addition, the factory calibration allows the user to quickly recalibrate the monitor if needed using ColorNavigator.



Wide gamut – ideal for RAW images and prints

Those working with RAW or Adobe RGB images should look no further than our wide gamut monitor: the wide colour space reproduces 99% of the Adobe RGB colour spaces. If pictures taken in RAW format are converted to Adobe RGB, the monitor will display them absolutely correctly. For example, you can see a shining blue sky or lush green forests that are true to nature – unlike monitors with sRGB colour space. The EIZO monitor also offers great benefits when printing: It covers almost the entire CMYK colour space (for example ISO Coated and U.S. Web Coated). You can already see on the screen how your subsequent print result will look, saving yourself proofs.



Adobe RGB



sRGB

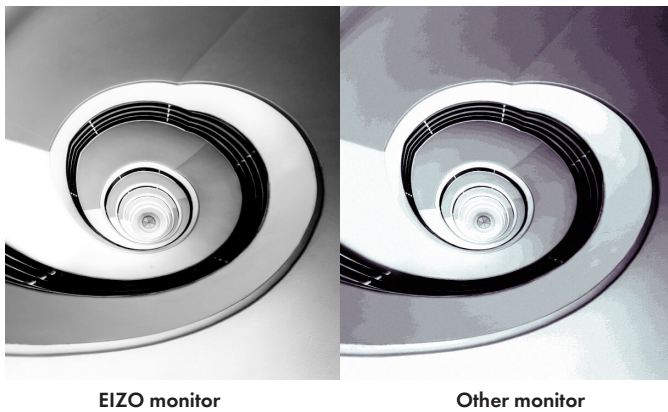
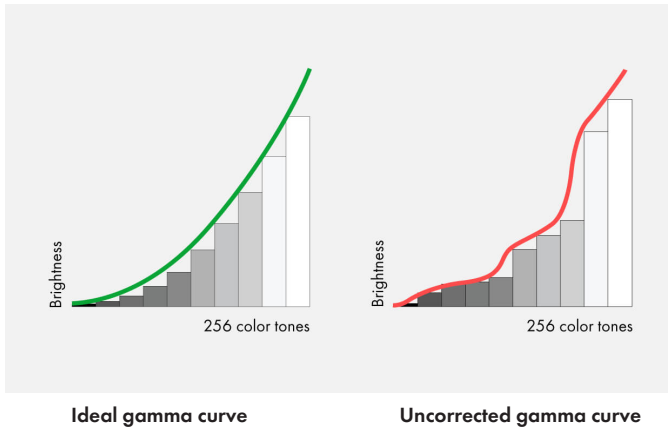
Constant tone value over the entire screen

Digital Uniformity Equaliser (DUE) controls all tone values over the entire monitor, pixel by pixel. The effect: colour tones appear identical at each point on the screen, without the brightness fluctuations you experience in conventional LCDs. The DUE function also balances out the effects of fluctuations in ambient temperature on the colour temperature and brightness. You will enjoy consistently even luminance distribution and perfect colour purity. A real plus when touching-up images.

Features

High resolution look-up table

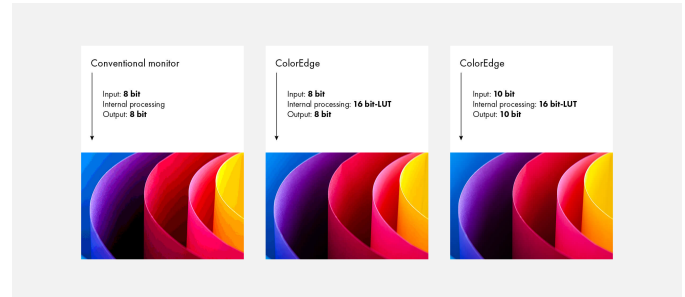
Thanks to the 16-bit look-up-table, the CS2420 offers precise resolution of image signals. Colour nuances and image structure are not lost, particularly in the case of dark hues. This reliable and precise reproduction reduces calibration steps, saving valuable production time.



10 bit colour depth: a billion colors in the finest grades

Thanks to the 10 bit colour display based on a 16 bit LUT, you can utilize a huge colour spectrum. This is made possible by the rapid DisplayPort and HDMI connections in combination with the frame rate control. A billion colors at your fingertips simultaneously. That is 64 times more colors than with an 8 bit display. The colour gradations are finer and the colour differences between adjacent colors are smaller. The enhanced greyscale

range is equally important for post-production. With the 10 bit greyscale range activated, between 6% and 14% more greyscales are visible.



8 bit and 10 bit display

Flicker-free working

The monitor is flicker-free at every brightness setting. The benefit: Your eyes do not get tired as quickly. You can work on the screen for an extended period.

Lightning-fast colour mode changes

You can access colour modes from the monitor's memory at the click of a button. Standards such as AdobeRGB and sRGB are preconfigured at the factory. There are also settings that you can calibrate yourself. Switching between modes takes mere seconds, and does not involve any delays caused by renewed calibration.

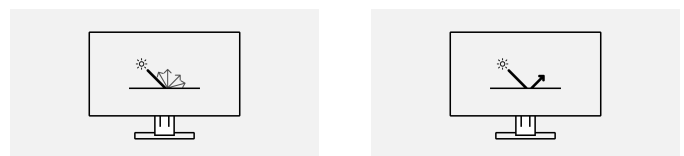


One monitor, many ports

It doesn't get easier than this: You can connect most of your devices, such as PC, laptop or cameras directly to the monitor because the monitor has a number of different ports. That makes your daily work easier.

Perfect anti-glare coating

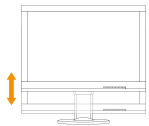
The IPS panel has optimal anti-glare coating. It diffuses the reflected light to minimise glare, protecting your eyes from strain. In addition, the monitor provides for a wide viewing angle without any distracting reflections. This is particularly advantageous when multiple people are seated in front of the same monitor.



Features

Ergonomic and stable: the adjustable base

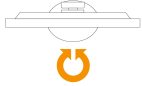
The CS2420 has a flexible base to adjust the height, tilt, and rotation and supports both portrait and landscape use. The monitor can be tailored to the user's needs. For example, he can set a sitting position that is ergonomic for him (e.g. lowered to the bottom) or a position to show clients and colleagues something on the screen.



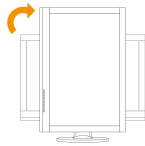
155 mm



Tilt up 35°, tilt down 5°



344°

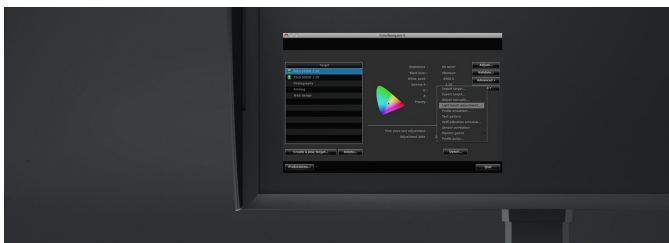


Rotation 90° clockwise

Hardware calibration with EIZO ColorNavigator

Precise image editing is only possible on monitors that are calibrated on a regular basis. The standard software calibration process is time-consuming and often results in reduced display quality. The CS2420 is calibrated using the ColorNavigator hardware calibration software, which can be downloaded for free.

Using ColorNavigator, you can carry out loss-free calibration quickly and in just a few steps. Advanced users can enter target values for white balance, brightness and hue curve (gamma/EOTF) as well as other calibration settings. The calibration is then carried out automatically based on the factory settings, making the calibration process unique in its speed and precision.



The ColorNavigator saves the calibration directly in the monitor's look-up-table.

Five-year warranty

EIZO grants a five-year warranty. This is possible thanks to the highly developed production process based on a simple principle of success: sophisticated and innovative monitor technology, made from high-end materials.



Specification

General

Item no.	CS2420
Case colors	Black
Solutions	Photography, design & media
Product line	ColorEdge
EAN	4995047048091

Display

Screen size [in inches]	24.1
Screen size [in cm]	61.1
Format	16:10
Viewable image size (width x height)	518.4 x 324
Ideal and recommended resolution	1920 x 1200
Pixel Pitch Horizontal [mm]	0.27 x 0.27
Resolution Supported	1920 x 1200, 480i (@ 60 Hz), 480p (@ 60 Hz), 1080i (@ 60 Hz), 720p (@ 60 Hz), 1080p (@ 60 Hz), 1200p (@ 60 Hz), 576i (@ 50 Hz), 576p (@ 50 Hz), 1080i (@ 50 Hz), 720p (@ 50 Hz), 1080p (@ 50 Hz), 1080p (@ 30/25/24 Hz), 1200p (@ 50 Hz)
Panel technology	IPS (Wide Gamut)
Max. viewing angle horizontal	178 °
Max. viewing angle vertical	178 °
Number of colors or grayscale	1.07 billion colors (display port, 10 Bit), 1.07 billion colors (HDMI, 10 Bit), 16.7 million colors (display port, 8 Bit), 16.7 million colors (HDMI, 8 Bit), 16.7 million colors (DVI, 8 Bit)
Max. colour space	AdobeRGB (>99%), DCI P3 (>95%), sRGB (100%), ISO Coated V2 (99%)
Max. brightness (typical) [in cd/m²]	350
Recommended brightness [in cd/m²]	120
Max. dark room contrast (typical)	1000:1
Typical response time [grey/grey alternation]	15 ms
Max. refresh rate [in hertz]	60
Backlight	LED

Features

Hardware calibration of brightness, white point, and gamma correction	✓
Color palette / look-up table	278 trillion colour tones / 16 Bit
Digital Uniformity Equalizer	✓
Signal range amplifier (HDMI)	✓
Noise suppression (HDMI)	✓
HDCP Decoder	✓
Gamut Clipping	✓
Preset colour/greyscale modes	Adobe RGB, sRGB, Paper, Calibration, 1 x free mode for user selection
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Brightness, Contrast, Gamma, Colour saturation, Gain, 6 Colors, Image size, Input Colour Format, Input Range, Signal Detection, Menu Rotation, Noise Reduction, Colour temperature, Gammut clipping, Colour Mode, Colour tone, Signal input, OSD language, Interpolation, DUE priority
Button Guide	✓
Signal inputs	DisplayPort (HDCP 1.3), HDMI (Deep Colour, HDCP 1.4), DVI-D (HDCP 1.4)
Video Signal	DisplayPort, DVI (TMDS), HDMI (YUV, RGB)
Input Signal Identification	✓
USB hub	1 Up-/ 3 Down-Stream, Rev. 3.0

Dimensions & Weights

Dimensions [mm]	554 x 396-551 x 245
Weight [in kilograms]	7.8
Swivel (right/left)	344 °
Incline forward/backward	5 ° / 35 °
Pivot	✓
Height Adjustment Range [mm]	155
Hole Spacing	VESA standard 100 x 100 mm

Electric data

Power consumption (typical) [in watt]	26
Maximum Power Consumption [in watt]	92
Power Save Mode [in watt]	0.6
Power Consumption Off [in watt]	0
Energy-efficiency class	B
Annual Energy Consumption [in kWh]	41
Power Supply	AC 100-120 V / 200-240 V, 50/60 Hz
Power Management	DVI-DMPM, DisplayPort Version 1.1a
Integrated power unit	✓

Certification & Standards

Certification	CE, TÜV/GS, TÜV/Ergonomics, cTÜVus, FCC-B, CAN ICES-3 (B), VCCI-B, RoHS, C-Tick, WEEE, GOST-R, ISO 9241-307 Pixel fault class 1**
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Software & Accessories

Accompanying software and other accessories are available for download or on a CD	ColorNavigator
Additional Supply	Power cord, Signal cable DisplayPort, Signal cable HDMI, USB 3.0 cable, Quick guide, EIZO LCD Utility Disk (incl. PDF manual), ICC colour profile
Accessory	EIZO ScreenCleaner (for the best possible clean without scratching the monitor), EX3 (Colorimeter for ColorEdge monitor calibration), HH200HS-K (HDMI (High Definition Multimedia Interface) cable to transfer digital video and audio signals.), CH2400 (Monitor hood for CS2410, CS2420)

Warranty

Warranty and service	5 years including on-site replacement service*
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Terms

*) The length of the warranty for the LCD module is five years from the date of purchase or 30,000 operating hours, depending on which happens sooner. **) Zero pixel error guarantee for completely lit sub-pixels (partial pixels ISO 9241-307). Valid: six months from the purchase date.