ColorEdge **CS2400R**

→ **Product Website** → **Experience in AR**

24" graphic monitor

The ColorEdge CS2400R is the most affordable entry into the world of maximum precision: the panel offers full coverage of the sRGB and Rec 709 colour spaces. The Digital Uniformity Equalizer (DUE) ensures homogeneous image representation and the 16-bit look-up table guarantees absolutely precise colour representation with up to 10 bits. On the one hand, the exact factory calibration guarantees the highest precision "out of the box". On the other hand, the regularly recommended recalibration is done in no time at all. This means that photographers, filmmakers or image editors can always rely on their monitor to show them an absolutely precise view of their image file. The docking functions via USB-C allow the image signal to be transferred and the monitor's USB hub to be powered with just one cable. In addition, a mobile device can be supplied with up to 70 watts of charging current. In this way, the CS2400S becomes the central dock of the creative workflow with a flick of the wrist. Alternatively, the monitor can of course also be operated via HDMI or DisplayPort as well as USB-B upstream.

- 24" IPS LCD with 1920 x 1200 pixels, 16:10 format
- 100 % colour space coverage of sRGB and Rec 709
- 300 cd/m² maximum brightness, contrast 1000:1
- 10-bit display, 16-bit look-up table
- Exact hardware calibration of brightness, white point and gamma
- Digital Uniformity Equalizer for perfect luminance distribution and colour purity
- USB-C (DisplayPort signal and up to 70 Watt Power Delivery), DisplayPort and HDMI input
- USB hub with two 5Gbps (USB 3.x) and two USB 2 downstream ports

Precision and color accuracy

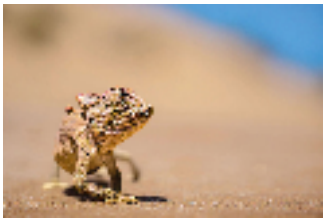
High-contrast, bright and crisp screen

Outstandingly sharp image quality

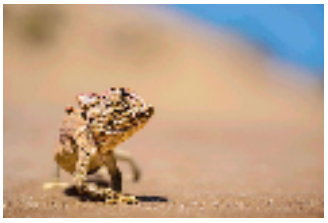
The monitor has an impressive top resolution (1920 x 1200), a very good contrast ratio of 1000:1 and a brightness of 300 cd/m². For example, you can edit graphics and images down to the pixel. As an added benefit, text contours are clear and precise. The LCD panel with the IPS panel allows for a viewing angle of 178 degrees. Ensuring that hue and contrast remain stable for the viewer.

Smooth and fluid transitions and gradients thanks to 16-bit LUT and 10-bit mode

The LUT (look-up-table) on the CS2400R employs internal calculations with 16 bits for an extremely high colour depth and outputs the signals with up to 10 bits. This provides billions of hues for calculating the precise monitor display, effectively preventing display errors caused by the monitor such as banding or clipping, which can result in tonal breaks in gradients or unnecessary colours in greyscale. Even fine nuances and structures in dark or highly saturated areas of the image can be displayed in a differentiated and detailed manner.



10 bit (LUT: 16 bit)



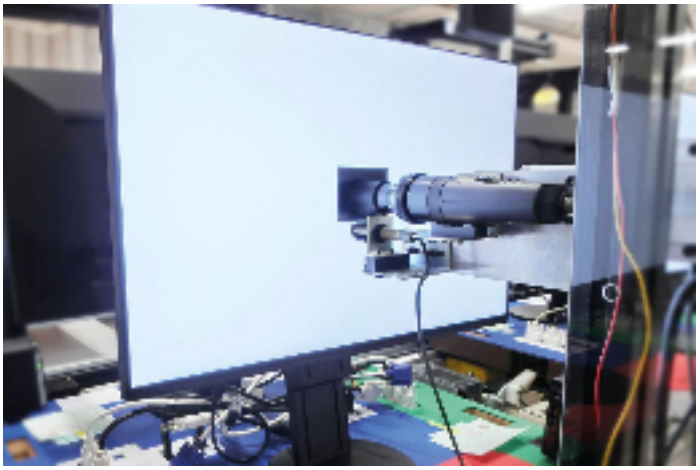
8 bit (LUT: 16 bit)

8 bit (LUT: 8 bit)

READY TO USE RIGHT OUT OF THE BOX

Perfect settings right from the factory

Every ColorEdge CS2400R is individually measured and optimally configured in the factory, enabling it to be used immediately after it has been unboxed. To this end, the gamma curves for the red, green and blue channels are closely checked and corrected, if necessary. This unique EIZO factory calibration enables the user to start using the monitor with the preset gamut range right out of the box. This painstaking calibration at the factory ensures that the user can quickly recalibrate the monitor if needed using ColorNavigator.



PERFECT RENDERING ACROSS THE ENTIRE SCREEN

Digital Uniformity Equalizer

Each individual monitor panel is precisely measured over the entire surface at the EIZO factory. Any inhomogeneities in brightness and unnecessary colour are detected and removed. This process (Digital Uniformity Equalizer) guarantees that identical colours always look the same over the entire service life of the monitor, no matter where they are displayed. Only in this way is precise image processing and retouching possible.

With DUE

Without DUE

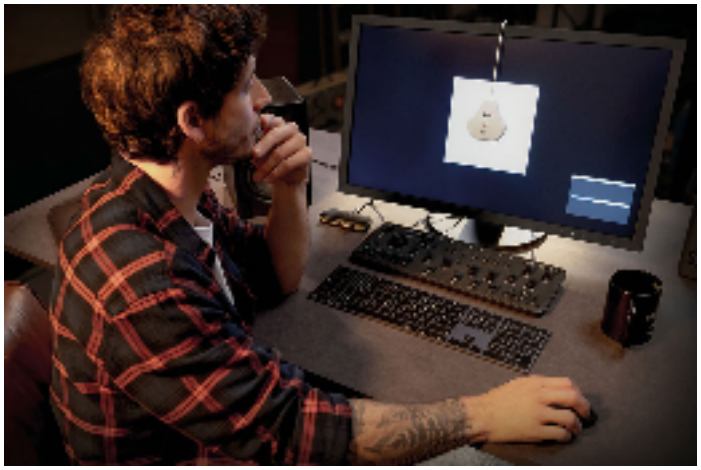
Calibration report

Each ColorEdge CS2400R comes with an individual calibration report that shows the measurement results of the factory calibration of the monitor. The report proves the homogeneity, gamma curve, colour space coverage and white point of the monitor.

FAST, EASY AND LOSSLESS

Hardware calibration without any compromises

It is essential that the monitor is regularly calibrated to ensure that it always displays the same file in the same way over its entire service life. To do so, all ColorEdge monitors employ lossless hardware calibration. Unlike software calibration, which always involves the risk of loss of display quality, hardware calibration not only creates an adjustment profile for the graphics board but also calibrates the monitor's LUT (look-up-table).



EIZO software for fast calibration and printing

Each monitor ages and changes its display properties. This is why graphics monitors, which require an absolutely constant image display over the entire service life, must be regularly calibrated and adjusted. With the free calibration software ColorNavigator 7 from EIZO, the ColorEdge CS2400R can be adjusted within 90 seconds (measured with a MacBook Pro and EX4), easily and without any losses. This is to ensure that the same image still looks the same on the monitor five years from now.
More information on the EIZO ColorNavigator

The free Quick Color Match software helps users, even without in-depth expertise in colour management, to see on the monitor how their images will look when printed on their Canon or Epson inkjet printer at home. In this way, the images can be optimised for the special properties of the selected photo paper even before printing, which helps users avoid expensive misprints.
More information on Quick Color Match

FOR OPTIMIZED COLOR REPRODUCTION

EIZO microchip

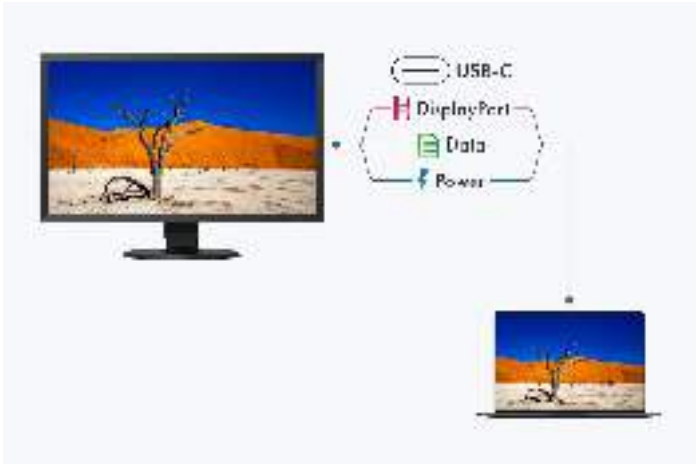
The CS2400R has a high-quality microchip (ASIC, Application-Specific Integrated Circuit), which EIZO developed especially for the special requirements involved in work demanding high colour accuracy. This microchip is the brain of a ColorEdge as it guarantees the precise, uniform and constant image display that is the hallmark of EIZO.

Variety of ports
Best connectivity

Cutting-edge connectivity with USB-C

Image signal, USB data transfer as well as power supply with up to 70 W, all this and more can be realised with a single USB-C cable. This makes the ColorEdge CS2400R the central dock of the graphic workflow. Peripheral devices such as a mouse, keyboard or printer can be connected directly to the USB-A ports. Mobile devices such as laptops or tablets can even be charged via the USB-C cable with up to 70 W via the USB-C cable. In this way, a laptop and CS2400R can be turned into a fully-fledged desktop workstation with a quick flick of the wrist.

Read more about USB-C in the EIZO Academy.



One monitor, many ports

The CS2400R supports a wide range of video formats via USB-C, HDMI and DisplayPort interfaces. This means that the monitor can not only be integrated into PC-based workflows but can also be used with HDMI feeders.

TWO PCS, ONE CONTROL

KVM switch

It's never been easier to operate different PCs with a single mouse and keyboard. With its USB upstream ports, the CS2400R has a built-in KVM (Keyboard Video Mouse) switch. The monitor automatically links the mouse and keyboard to the currently active source computer. This means, for example, that a desktop PC and a laptop or a work and home PC can be operated on the same combination of monitor, mouse and keyboard. This ensures uninterrupted work and a tidy workspace.

Ergonomics
Working in a relaxed manner

FOR THE SAKE OF THE EYES
Flicker free

The monitor is flicker-free at every brightness setting. This is great for users, as their eyes will not tire as quickly, allowing them to work in front of the screen for longer periods of time without fatigue.

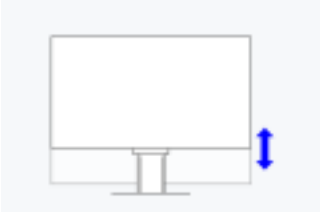
Anti-glare coating: more image, less reflection

The CS2400R offers a perfect, non-glare surface. By minimising glare by diffusing the reflected light, the CS2400R effectively protects your eyes from straining. This keeps your eyes from getting as tired and allows you to sit comfortably in front of the monitor, without having to sit in a forced position to prevent glare.

Flexible stand

Our screens offer continuous height adjustment. Depending on the model, they can even be lowered to the base plate of the stand. This guarantees the best possible ergonomics, regardless of whether the user is sitting or standing in front of the screen. You can also swivel, rotate and tilt the monitor base to the position that is most comfortable for your posture.

The CS2400R can also be rotated into the portrait format, which is a great advantage for tethered shoots of people in the portrait mode, for example.



Height
155 mm

Tilt
Between 5° forwards and 35° backwards

Swivel
344°

Rotation
90° (clockwise)

Sustainability
Environmentally and socially conscious production

Environmentally friendly packaging

For the packaging of the CS2400R, EIZO uses a padding made of moulded pulp cellulose. The material is made from recycled cardboard and paper and has a much lower environmental impact when disposed of than traditional polystyrene or plastic. All cables are stored in a cardboard compartment instead of being individually packed in plastic bags.

Left: conventional packaging / Right: environmentally friendly materials

Socially responsible production

The CS2400R is produced in a socially responsible way. It is free of child labour and forced labour. Suppliers along the supply chain have been carefully selected and they have also committed themselves to produce in a socially responsible way. This applies in particular to conflict minerals. We present a detailed report about our social responsibility annually and voluntarily.

Environmentally and climate friendly

Each CS2400R is manufactured in our own factory, which implements an environmental management system in accordance with ISO 14001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behaviour among employees. We publicly report on these measures on an annual basis.

Sustainable and durable

The CS2400R is designed for a long service life that takes into account the entire lifecycle and impact on the environment. It is generally well above the five-year guarantee. Spare parts are available up to five years after the end of production. The monitor's long service life and the ability to repair it save resources and the climate. When designing the CS2400R we paid attention to reducing resource consumption by using high-quality components and materials and being meticulous in production.

Warranty
Highest investment security

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 technology, made from high-end materials.

Technical data

GENERAL

Item no.	CS2400R
Case colour	Black
Solution area	Photography, Video & Graphics
Product line	ColorEdge
Areas of application	Photography, image editing and retouching, Design, creation and illustration
EAN	4995047065104

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 [mm]	0,27 x 0,27
Resolution supported	1920 x 1200, 1920 x 1080 (Full HD), 1200p (@ 60 Hz), 1080p (@ 60 Hz), 1080i (@ 60 Hz), 1080p (@ 50 Hz), 1080i (@ 50 Hz), 1080p (@ 30/25/24 Hz), 720p (@ 60 Hz), 720p (@ 50 Hz), 576p (@ 50 Hz), 576i (@ 50 Hz), 480p (@ 60 Hz), 480i (@ 60 Hz)
Panel technology	IPS
Max. viewing angle horizontal	178
Max. viewing angle vertical	178
Number of colours or greyscale	1.07 billion colors (USB-C, 10-bit), 1.07 billion colors (HDMI, 10 Bit), 1.07 billion colors (DisplayPort, 10 Bit), 16.7 million colors (DisplayPort, 8 Bit), 16.7 million colors (HDMI, 8 Bit), 16.7 million colors (USB-C, 8 Bit)
Colour palette/look-up table	278 trillion color tones / 16 Bit
Max. colour space (typical)	sRGB (100%)
Max. brightness (typical) [in cd/m²]	300
Recommended brightness [in cd/m²]	120
Max. dark room contrast (typical)	1000:1
Response time grey-grey alternation (typical) [in ms]	14
Max. refresh rate [in hertz]	60
Backlight	LED

CONNECTIONS

Video Input	HDMI (Deep Color, HDCP 2.3), USB-C (DisplayPort Alt Mode, HDCP 2.3), DisplayPort (HDCP 2.3)
USB specification	USB 5Gbps (USB 3)
USB upstream ports	1 x type C (DisplayPort Alt Mode, 70 W max.), 1 x type B
USB downstream ports	4 x Typ A (2 x 5Gbps (USB 3), 2 x USB 2)
Video signal	DisplayPort, HDMI (RGB, YUV)

CERTIFICATION AND STANDARDS

Certification	CE, UKCA, CB, TÜV/GS, TÜV/Ergonomics (including ISO 9241-307), RCM, cTÜVus, FCC-B, CAN ICES-3 (B), TÜV/S, PSE, VCCI-B, RoHS, WEEE, China RoHS, CCC

FEATURES & OPERATION

USB-C docking	✓
KVM switch	✓
Hardware calibration ColorEdge	✓
Preset colour/greyscale modes	1x manual memory location, sRGB, additional memory spaces through calibration
Digital Uniformity Equalizer (homogeneity correction)	✓
No flickering thanks to hybrid controls	✓
I/P conversion	✓
HDCP Decoder	✓
Gamut Clipping	✓
Input signal identification	✓
OSD language	de, en, fr, es, it, se
OSD setting options	Color Mode, Brightness, Contrast, Color temperature /White point, Gamma, Colour tone, Color saturation, 6 Colors, Scaling, Color matrix YUV/ RGB, Input Range, Menu Rotation, Skip signal input, Skip color mode, Custom key, OSD language, Signal input, DUE priority
Button Guide	✓
Integrated power unit	✓

ELECTRICAL DATA

Frequency	USB-C, DisplayPort: 26-76 kHz/23-61 Hz; HDMI: 15-76 kHz/23-61 Hz
Power consumption (typical) [in watt]	15
Maximum Power Consumption [in watt]	134 (at maximum brightness with all signal inputs and USB ports in use)
Power Save Mode [in watt]	0.3
Power consumption off [in watt]	0
Energy efficiency class	F
Energy consumption/1000h [in kWh]	19
Power supply	AC 100-240V, 50/60Hz
Power supply via USB C	70
Power management	✓

DIMENSIONS & WEIGHT

Dimensions [mm]	554 x 396-551 x 245
Weight [in kilograms]	8.1
Link technical drawing	Dimension drawing (PDF)
Swivel	344
dimensionTilt	5 / 35
Housing dimension details	90° (clockwise)
Height adjustment range [mm]	155
Hole spacing	100 x 100

SOFTWARE & ACCESSORIES

Software	Quick Color Match, ColorNavigator Network, ColorNavigator
Additional supply	Calibration report, Signal cable HDMI - HDMI, USB /signal cable (USB-C - USB-C), USB cable (Type A - Type B), Power cord, Quick guide
Accessories	CP200, CC100, PP100-K, EX4, CH2400

WARRANTY

Warranty duration	5 years for unit and LCD module up to 30,000 operating hours, whichever comes first.
Included warranty service	Zero pixel defects guarantee; no fully illuminated sub-pixels (sub-pixels ISO 9241-307) for six months from date of purchase.

Experience the CS2400R in AR now!

Find your EIZO contact:
EIZO Europe GmbH
Belgrader Straße 2
41069 Mönchengladbach
Phone: +49 2161 8210-0
www.eizo.eu

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