ColorEdge **CG2400S**



→ **Product Website** → **Video Playlist**

24" graphics monitor

With its wide color gamut, enormous 1800:1 contrast ratio, state-of-the-art USB-C connectivity and pre-installed HDR presets, the CG2400S is the ideal tool for professional creatives. The CG2400S with Wide Gamut IPS panel, 10-bit color depth and 16-bit 3D Look-Up-Table (LUT) offers perfect precision, smooth color transitions and nuances. The Adobe RGB color space is covered by 99% and the DCI-P3 color space by 98%. Thanks to the presets for HLG and the PQ gamma curves, even the smallest model in the ColorEdge CG series can be ideally integrated into HDR production workflows. The integrated calibration sensor enables effortless, automatic calibration. Thanks to the universal connectivity via USB-C, a single cable is used to transmit the image signal and power the monitor's USB hub. It can also be used to supply a mobile device with up to 70 watts of charging current. In combination with the integrated USB hub, the CG2400S becomes the central dock for creative workflows in a single operation. Of course, an HDMI and DisplayPort connection are also on board. The supplied light protection screen rounds off the CG2400S's extensive features.

- 24-inch Wide Gamut LCD with 1920 x 1200 pixels, 16:10 format
- Wide color gamut with 99% Adobe RGB and 98% DCI-P3 color space coverage
- 400 cd/m² maximum brightness, 1800:1 contrast
- 10-bit display, 16-bit 3D Look-Up-Table
- Integrated calibration sensor for fully automatic self-calibration
- Digital Uniformity Equalizer for perfect luminance distribution and color purity
- USB-C (DisplayPort signal and up to 70 watts Power Delivery), DisplayPort and HDMI input
- USB hub with four USB downstream ports, two of which are 5Gbps (USB 3) and two USB 2
- Light protection cover included in the scope of delivery
- 5-year warranty for highest investment security

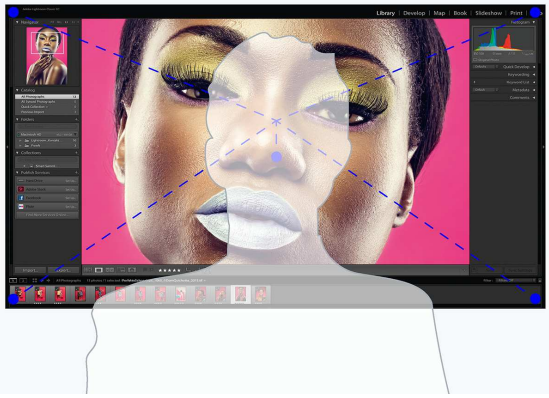
Precision and color accuracy

High-contrast, bright and crisp screen

REALISTIC IMAGE DISPLAY

Outstandingly sharp image quality

The monitor has an impressive top resolution (1920 x 1200), a very good contrast ratio of 1800:1 and a brightness of 400 cd/m^2. 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 (Wide Gamut) panel allows for a viewing angle of 178 degrees. Ensuring that hue and contrast remain stable for the viewer.

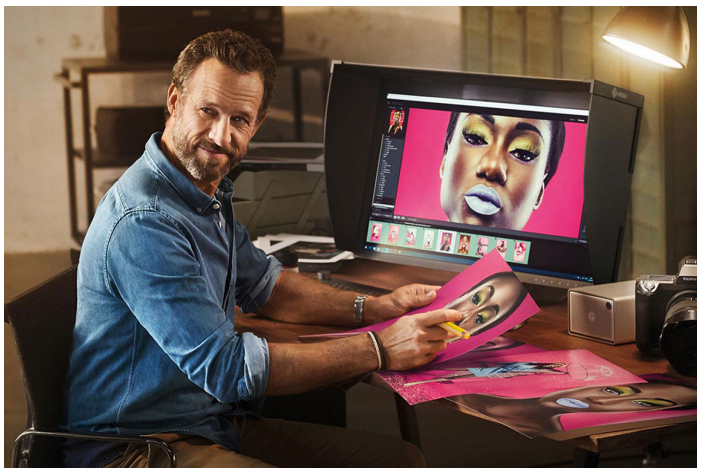


FOR SATURATED COLORS

Wide gamut color space

To be able to use the entire colour spectrum of modern cameras, you need a monitor with the largest possible colour space. Only then is it possible to visually assess and edit the saturated hues contained in the file. That is why the IPS panel of the ColorEdge CG2400S covers, for example, the wide AdobeRGB photo gamut as well as the CMYK print gamut ISO-Coated V2 to more than 99 %. This means that the full colour spectrum of modern cameras is represented unaltered and without gaps. And a precise simulation of the print result in the softproof view is also guaranteed.

The CG2400S covers 98 % of the DCI-P3 color space used in the film industry and also supports the Rec. 2020 standard.



HIGH-CONTRAST DISPLAY

True Black

With its high contrast ratio, the CG2400S displays deep blacks, which often look pale or washed out on a typical LCD monitor due to the backlight. This is especially true when viewing the monitor from the side in dimly lit rooms. The CG series is equipped with a retardation film for this purpose, which allows for this depth of blacks even at wide viewing angles.



SMOOTH TRANSITIONS AND GRADIENTS

16-bit LUT and 10-bit mode

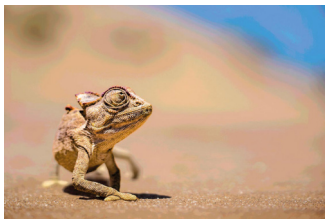
The 3D LUT (look-up-table) on the CG2400S employs internal calculations with 16 bits for an extremely high colour depth and outputs the signals with up to 10 bits. This provides billions of hues for calculating the precise monitor display, effectively preventing display errors caused by the monitor such 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)

EFFORTLESS COLOR MANAGEMENT

Integrated sensor for self-calibration

An integrated calibration sensor ensures you achieve maximum colour accuracy. The sensor is perfectly aligned to the monitor, takes environmental influences such as light into account, and correlates the centre of the image with the edge of the image. This ensures an even result over the whole monitor. The sensor is located in the bezel and is only extended when performing measurements. This means that no external calibration device is necessary, and the colour fidelity of the monitor is optimal at all times.

You can use the ColorNavigator software or the on-screen menu to determine when you want monitor calibration to take place automatically. For example, you can schedule calibration to take place during your lunch break or overnight, with no PC connection required.



Exemplary image

HOMOGENEOUS IMAGE DISPLAY

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 across the entire surface of the monitor, no matter where they are displayed. Only in this way is precise image processing and retouching possible.



With DUE



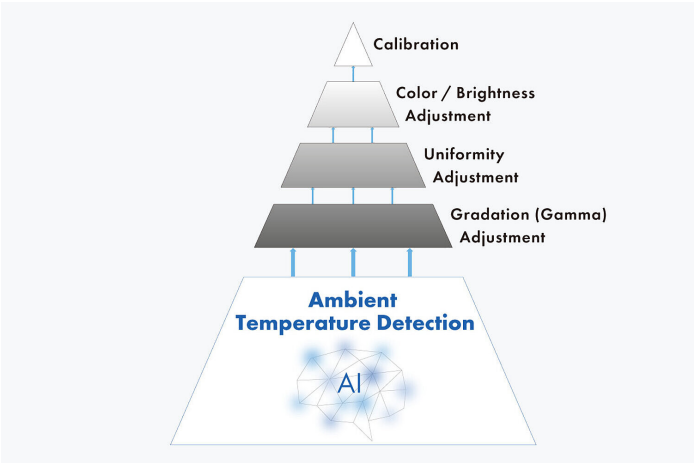
Without DUE

INDUSTRY-LEADING AI

Stable display

To ensure gradations, colour, brightness and other characteristics are always accurately displayed even when the ambient temperature changes, the ColorEdge CG2400S is equipped with a temperature sensor. It accurately measures the monitor's internal temperature, while an AI (artificial intelligence)-assisted correction algorithm* distinguishes between different temperature change patterns and calculates a precise adjustment in real time.

* Patent pending



IN JUST THREE MINUTES

Fast color stability

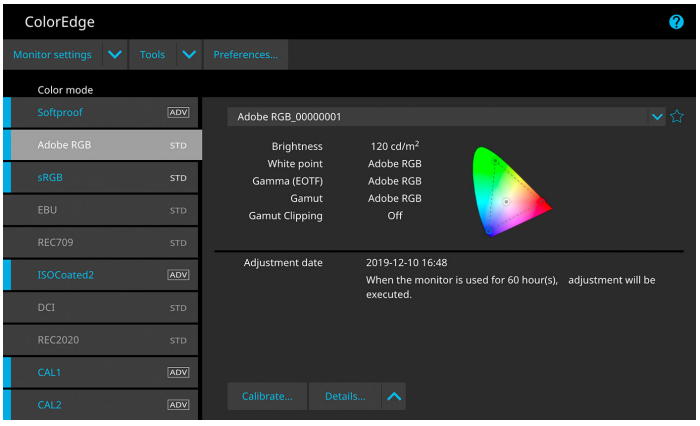
It takes a traditional monitor a minimum of 30 minutes for the brightness, chromaticity and tone values to stabilise, whereas the ColorEdge CG2400S only needs three minutes. It means that users know they can reliably trust the colours of the monitor within a short time after switching in on.

COLORNAVIGATOR

EIZO software for fast calibration and printing

Good image processing is only possible on well-calibrated monitors. The usual software calibration takes a long time and requires the user to have a certain level of technical expertise. The CG2400S is supplied with ColorNavigator hardware calibration software. With ColorNavigator, you can perform calibration quickly, easily, and with excellent colour precision: During calibration, the software directly accesses and saves to the look-up-table in the monitor hardware. You determine the relevant components such as white balance, gamma, brightness, and tone value curve according to your requirements. Calibration then runs automatically based on the default set during production and is therefore unique in terms of precision and speed. This also means that calibration can be performed by users in just a few steps, with no need for in-depth technical knowledge. Because the calibration takes place via the monitor hardware, it is performed without loss and independently of the computer and graphics board. The CG2400S can also be smoothly integrated into an existing system.
More information on the EIZO ColorNavigator

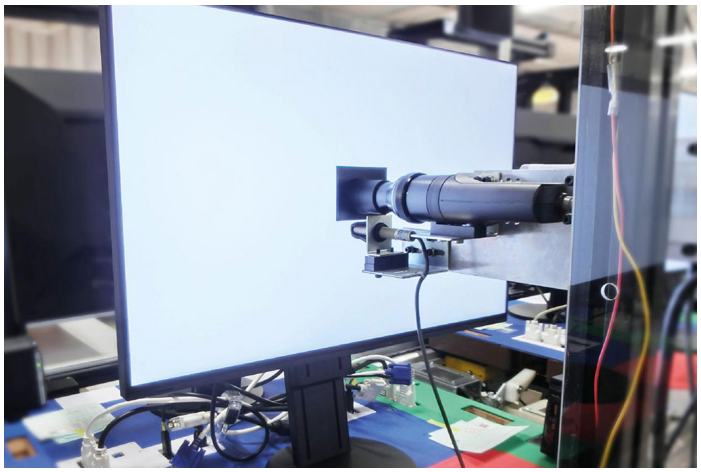
The free Quick Color Match software helps users, even without in-depth expertise in colour management, to see on the monitor how their images will look when printed on their Canon or Epson inkjet printer at home. In this way, the images can be optimised for the special properties of the selected photo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



READY TO USE RIGHT OUT OF THE BOX

Perfect settings right from the factory

Every ColorEdge CG2400S 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.



INDIVIDUAL FACTORY ADJUSTMENT

Calibration report

Each ColorEdge CG2400S 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.

More information on the calibration report

FOR OPTIMIZED COLOR REPRODUCTION

EIZO microchip

The CG2400S has a high-quality microchip whose features EIZO has developed specifically for the special requirements of color-accurate work. This microchip is the brain of a ColorEdge as it guarantees the precise, uniform and constant image display that is the hallmark of EIZO.



Video and film production

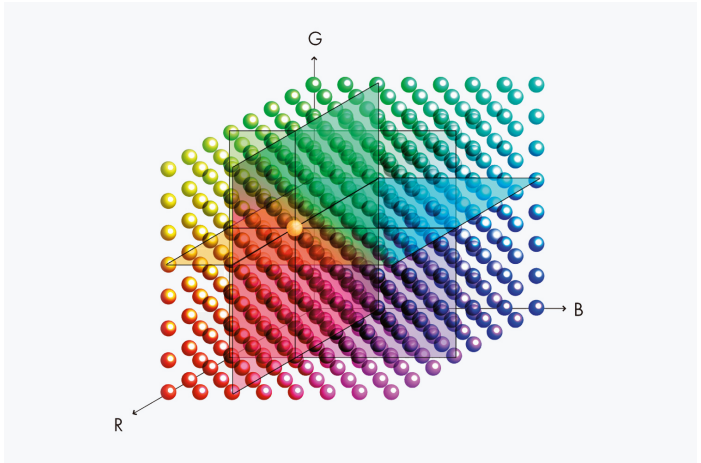
Features for post-production

PRECISE COLOR REPRODUCTION

High-resolution 3D LUT

The 3D LUT ensures the most precise tonal value allocation and extremely accurate colour tone reproduction, which can be seen, among other things, in the grey wedge. In LCDs, the brightness levels vary from module to module in relation to the image signal and the colour mixing (addition) of red, green and blue. This can only be accurately recorded and controlled with the help of particularly precise measuring devices.

Ex works, EIZO therefore adjusts every monitor in the CG series and its colour and tone curve. This ensures a consistent colour temperature across the entire grey scale. The result: colour reproduction is the same, precise and reliable for every single CG2400S.



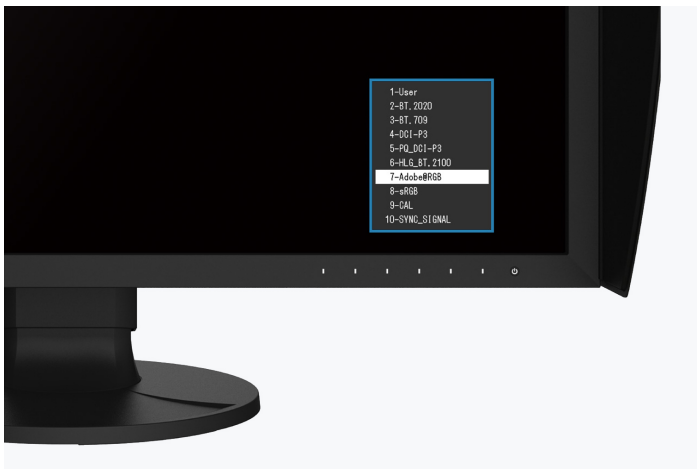
HDR Gamma

The ColorEdge CG2400S supports the two gamma curves for HDR video: the HLG (Hybrid Log-Gamma) curve and the PQ (Perceptual Quantization) curve. Up to the maximum brightness of 400 cd/m^2, thus the CG2400S ensures a meaningful impression of the processed HDR material, so that a HDR reference monitor like the ColorEdge CG1 is often only required in the final production step.

PRE-INSTALLED INDUSTRY STANDARDS

Color space presets

Pre-sets for the DCI-P3, BT.709 and BT.2020 colour spaces are precisely calibrated ex works and ensure working with correct gamma values. In addition, colour modes for PQ (DCI and BT.2100) and HLG (BT.2100) for displaying HDR content are also pre-set at the factory. The brightness setting for each pre-set can be conveniently adjusted and recalibrated thanks to the integrated calibration sensor. HDR Mode of Windows and MAC OSX is directly supported. This provides an easy way using typical HDR video application displaying the right tone curve at the matching monitor setting.



SAFELY IN VIEW

Safe Area Marker

Ideal for subtitles and critical images: Thanks to the Safe Area Marker, you know which area of the scene is displayed in a different aspect ratio. You can therefore see immediately whether subtitles, texts or important picture elements are in the visible area. You can adjust the marker color, size and aspect ratio so that the marker is clearly visible in every image.



SYNC SIGNAL

Automatic color settings

The ColorEdge CG2400S offers Sync Signal functionality, which adjusts monitor settings such as signal range and colour format to the video signal, offering consistent color settings during the entire production process.

Luminance warning

The brightness warning can be used to mark areas that exceed a certain brightness (300, 500, 1000 or 4000 cd /m^2) when using the PQ mode. These areas are marked optionally in yellow or magenta.



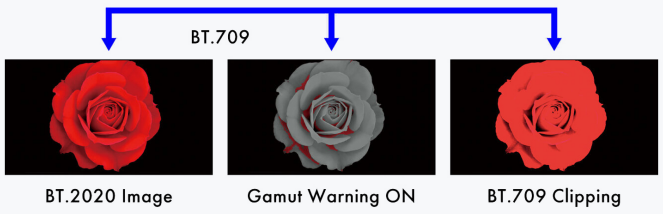
Brightness warning

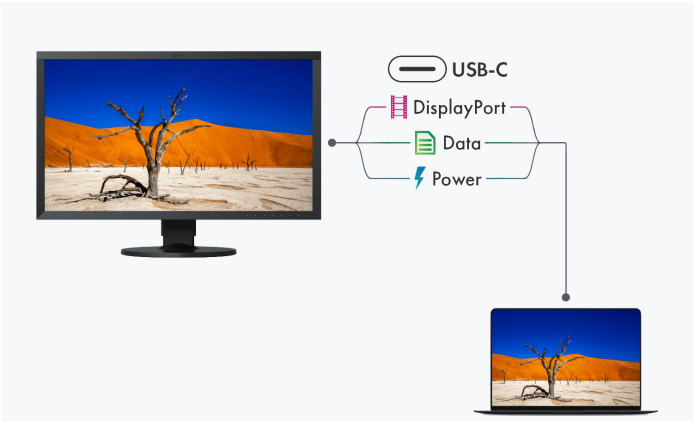


Without brightness warning

Gamut warning

The Gamut warning operates in two modes: Rec. 2020 image content that can't be displayed in the Rec. 709 gamut is displayed in grayscale. Alternatively, clipping mode is simulated in Rec. 709 to show how Rec. 2020 material would look on HDTV devices.





One monitor, many ports

The CG2400S 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.



IDEAL FOR VIDEO AND FILM PRODUCTION

HDMI signals

Films are normally recorded at 24 fps. They therefore appear unnatural with the conventional monitor rendering of 60 Hz. The monitor supports an image frequency of 24 to 60 Hz. This means that you can view and edit your film material as it was taken.

HDMI signals with refresh rates of 60, 50, 30, 25 and 24 Hz are supported. The monitor also features I/P conversion.

Variety of ports
Best connectivity

Streamlined connection 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 CG2400S 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 CG2400S 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.

TWO PCS, ONE CONTROL

KVM switch

It has never been easier to operate different PCs with a single mouse and keyboard. Thanks to the USB upstream ports, the CG2400S has an integrated KVM (Keyboard Video Mouse) switch. The monitor automatically links the webcam, microphone, speakers, mouse and keyboard to the currently active source computer. This means, for example, that a desktop PC and laptop or business and private PC can each be operated on the same combination of monitor USB devices. This ensures uninterrupted working 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.

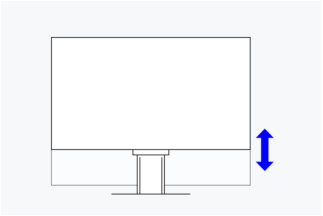
ANTI-GLARE COATING
More image, less reflection

The CG2400S offers a perfect, non-glare surface. By minimising glare by diffusing the reflected light, the CG2400S 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.

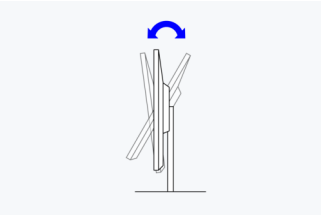
Ergonomic stand

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.

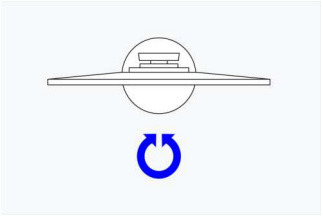
The CG2400S can also be rotated into the portrait format, which is a great advantage for tethered shoots of people in the portrait mode, for example.



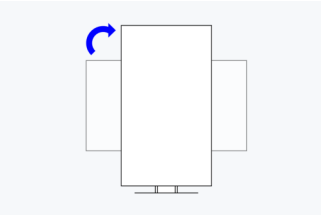
Height
155 mm



Tilt
Between 5° forwards and 35° backwards



Swivel
344°



Rotation
clockwise

Customised key assignment

Depending on the model, up to two sensor buttons on the front can be assigned functions from the on-screen menu. The advantage: you have direct access to frequently used features.

PROTECTION AGAINST REFLECTIONS AND GLARE
Monitor hood

The monitor hood reduces reflection and brightness on the screen and helps protect your eyes. It is easy to attach and reduces the amount of light that hits the screen from above and from the sides.



Sustainability
Environmentally and socially conscious production

Sustainable and durable

The CG2400S 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 CG2400S we paid attention to reducing resource consumption by using high-quality components and materials and being meticulous in production.

Environmentally conscious use of materials

The CG2400S is made of more than 85% recycled plastic. This reduces the amount of plastic waste entering the environment, conserves resources and promotes the reuse of materials.

Reducing the use of volatile organic compounds (VOCs) in material production, such as those found in certain paints and varnishes, is also of global interest.

Through years of research, EIZO has succeeded in achieving a smooth, nearly homogeneous color and texture in its monitor housings without the use of varnish.



Cushioning environmental impact

For the packaging of the CG2400S, 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.



Eco-conscious packaging from EIZO

Socially responsible production

The CG2400S 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 conscious production

Each CG2400S is manufactured in our own factory, which implements an environmental and energy management system in accordance with ISO 14001 und ISO 50001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behavior among employees. We publicly report on these measures on an annual basis.



Guaranteed brightness and color reproduction

The CG2400S has a color and brightness guarantee for five years from the date of purchase for 10000 operating hours at a maximum brightness of 120 cd/m^2 and a color temperature between 5000 and 6500 K.

COLOR AND BRIGHTNESS

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.

5 YEAR WARRANTY

Technical Data

GENERAL

Item no.	CG2400S
Case color	Black
Areas of application	Photography, Video & Graphics
Product line	ColorEdge
Areas of application	Photography, image editing and retouching, Video Editing, Post Production and Colour Grading, Design, creation and illustration, Printing and Fine Art Printing, Textile and fashion industry
Specific system requirements	None, compatible with most computers and operating systems including macOS and Windows
EAN	4995047067818

SCREEN

Screen size [in inches]	24,1
Screen size [in cm]	61,1
Format	16:10
Viewable image size (width x height) [in mm]	518,4 x 324
Ideal and recommended resolution	1920 x 1200
Pixel pitch [in mm]	0,27 x 0,27
Pixel density [in ppi]	94
Supported resolutions	1920 x 1200, 1200p (@ 60 Hz), 1200p (@ 50 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 (Wide Gamut)
Max. viewing angle horizontal [in °]	178
Max. viewing angle vertical [in °]	178
Number of colors or greyscale	1.07 billion colors (USB-C, 10-bit), 1.07 billion colors (HDMI, 10 Bit), 1.07 billion colors (DisplayPort, 10 Bit)
Color palette/look-up table	278 trillion color tones / 16 Bit
Max. color space (typical)	AdobeRGB (>99%), DCI P3 (>98%), Rec709 (100%), sRGB (100%)
HDR Gamma	PQ, HLG
Max. brightness (typical) [in cd/m²]	400
Recommended brightness [in cd/m²]	120
Max. dark room contrast (typical)	1800:1
Response time grey-grey alternation (typical) [in ms]	11
Backlight	LED

CONNECTIONS

Signal inputs	USB-C (DisplayPort Alt Mode, HDCP 2.3), DisplayPort (HDCP 2.3), HDMI (Deep Color, 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)
Graphic signal	USB-C, DisplayPort, HDMI (RGB, YUV)

FEATURES & OPERATION

USB-C docking	✓
KVM switch	✓
Hardware calibration of brightness and luminance characteristics	✓
Integrated sensor for self-calibration	✓
Scheduled self calibration	✓
Preset color/greyscale modes	1x manual memory location, BT.2020, BT.709, HLG BT.2100, AdobeRGB, DCI-P3, PQ DCI-P3, sRGB, additional memory spaces through calibration, Sync Signal
Temperature color drift correction	✓
Brightness drift correction	✓
Digital Uniformity Equalizer (homogeneity correction)	✓
No flickering	✓
True Black	✓
3D LUT film emulation (10 bit log)	✓
Safe Area Marker	✓
I/P conversion	✓
Signal range amplifier (HDMI)	✓
HDCP Decoder	✓
Gamut warning	✓
Luminance warning	✓
Gamut Clipping	✓
Automatic signal input recognition	✓
On-screen menu languages	de, en, fr, es, it, se
Adjustment options	Color Mode, Brightness, Contrast, Color temperature /White point, Gamma, Colour tone, Color saturation, 6 Colors, Resolution, Scaling, Color matrix YUV/ RGB, Input Range, black level, BT.709 color space warning, Markers (safe area marker, safe area size, format marker, format adjustment, bezel color), Menu Rotation, Skip signal input, Skip color mode, Custom key, Monitor reset, OSD language, Signal input, Key lock, DUE priority
Button Guide	✓
Integrated power unit	✓

ELECTRICAL DATA

Frequency	USB Type-C, DisplayPort: 26 - 76 kHz / 23 - 61 Hz; HDMI: 15 - 76 kHz / 23 - 61 Hz
Power consumption (typical) [in watts]	17
Maximum Power Consumption [in watts]	150 (at maximum brightness and operation of all signal and USB ports as well as full charging power)
Max. Power consumption in stand-by mode [in watts]	0.5
Power consumption with power switch off [in watts]	0
Energy efficiency class	E
Energy consumption/1000h [in kWh]	16
Power supply	AC 100-240V, 50/60Hz
Max. USB-C Power Delivery [in Watt]	70

DIMENSIONS & WEIGHT

Dimensions (incl. stand) (width x height x depth) [in mm]	554,4 x 408,1 - 563,1 x 245
Weight (incl. stand) [in kg]	8.5
Dimensions (without stand) (width x height x depth) [in mm]	554,4 x 374,1 x 70,2
Weight (without stand) [in kg]	5.5
Dimension drawing (PDF)	Dimension drawing (PDF)
Rotatability of the stand [in °]	344
Tiltability forwards/backwards [in °]	5 / 35
Pivot between portrait / landscape	clockwise
Height adjustment range [in mm]	155
Hole spacing	100 x 100

CERTIFICATION & 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

SOFTWARE & ACCESSORIES

Accompanying software and other accessories are available for download	ColorNavigator, ColorNavigator Network
Other box contents	Signal cable HDMI - HDMI, USB/signal cable (USB-C - USB-C), USB cable (Type A - Type B), Power cord, Calibration report, Manual via download, Quick guide
Accessories	EX5 (External calibration sensor for ColorEdge monitors in conjunction with the ColorNavigator 7 color management software.), PM200-K (DisplayPort cable to transfer digital video and audio signals), CP200 (USB-C to DisplayPort cable), CC100 (USB-C port cable), PP100-K (DisplayPort cable), PP200-K (DisplayPort cable)
Light protection cover	✓

WARRANTY

Warranty periode	5 years for unit and LCD module up to 30,000 operating hours, whichever comes first.
Included warranty	A brightness of at least 120 cd/sqm at a colour temperature of 5000 K to 6500 K is guaranteed for a period of 5 years or 10,000 operating hours, whichever comes first., Zero pixel defects guarantee; no fully illuminated sub-pixels (sub-pixels ISO 9241-307) for six months from date of purchase.

Find your EIZO contact:
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41069 Mönchengladbach
Phone: +49 2161 8210-0
www.eizo.eu

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