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EIZO ColorEdge

Graphics monitors with high color accuracy for the most demanding projects

EIZO developed the ColorEdge product line for everyone who works with images, films, and graphics, from amateur photographers and ambitious designers to visual artists working in postproduction. The CG, CX, and CS models are designed to meet the exacting standards of any artist thanks to their high color accuracy, the factory calibration of each individual unit, and an array of amazing features.

CG SERIES FOR PROFESSIONALS

The CG monitors feature integrated calibration sensors and many other innovative features, making these monitors part of EIZO's professional line. The integrated sensor allows for automatic calibration, saving both time and money. The CG models are specially designed for use in professional image editing, preprinting, and postproduction.

- Wide gamut (for example, Coverage of 99% AdobeRGB)
- The highest resolution of up to 4K
- Built-in self-calibration sensor
- Rich dark hues thanks to True Black LCD panel
- Shading hood included

CG318-4K 31" | CG248-4K 24" | CG277 27" | CG247 24"

CX SERIES FOR ADVANCED USERS

The CX monitors are the perfect tool for automated workflows requiring high color accuracy with their built-in self-correction sensor. This makes the CX models the ideal tools for photographers, designers, and video editors in a professional or private context.

- Wide gamut (for example, Coverage of 99% AdobeRGB)
- Built-in self-correction sensor
- Rich dark hues thanks to True Black LCD panel
- Optional shading hood

CX271 27" | CX241 24"

CS SERIES FOR HOBBY USERS

The combination of superior image quality and excellent value for money makes the CS series the perfect introduction to the ColorEdge world. The CS models offer a high-grade alternative for any artist who is not satisfied by conventional monitors and requires more precise color for displaying images, digital art, and more.

- Wide gamut (for example, Coverage of 99% AdobeRGB CS270 and CS240)
- Built-in self-correction sensor and sRGB gamut (CS230)
- Optional shading hood

CS270 27" | CS240 24" | CS230 23"

PROFESSIONAL PHOTOGRAPHY

Automated calibration and highest resolution thanks to 4K

The ColorEdge monitors of the CG series offer uncompromising image quality with advanced automation features so that you can optimize the professional workflow. Thanks to the built-in self-calibration sensor, you can always be sure that your monitor is perfectly calibrated – this saves you time and money.

Whether you are editing photos or videos, the monitors in the CG-4K series combine extremely high resolution (up to 185 ppi) with absolute color accuracy, a feature shared by all CG products.

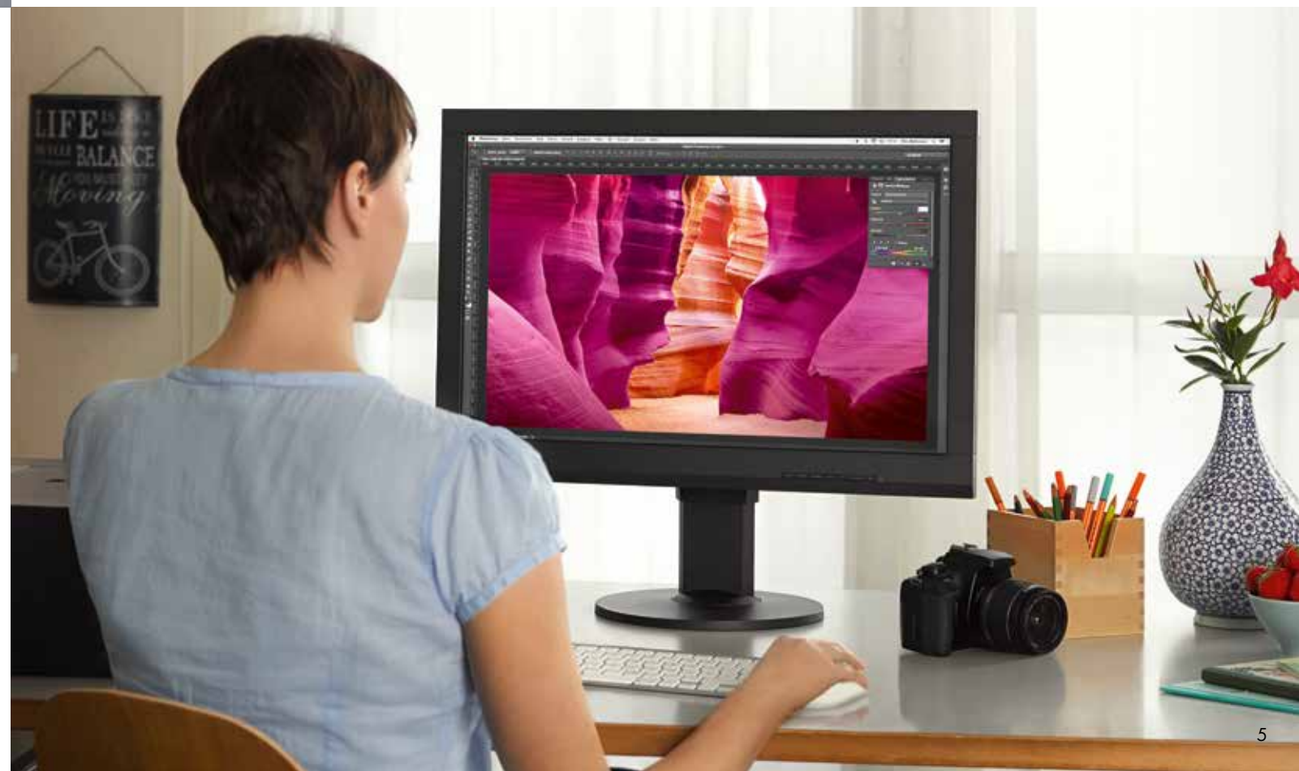
HOBBY PHOTOGRAPHY

Identical colors on your monitor and in print

The pictures on your monitor look as accurate as can be with a calibrated ColorEdge LCD. This monitor will provide for a reliable workflow with professional calibration and high color accuracy, and you no longer have to worry about deviations between your display and a printout from an inkjet printer, for example.

The expanded gamut (99% AdobeRGB) enables you to use the full potential of your camera and the included ColorNavigator software allows you to calibrate your monitor quickly and easily.

With the CX monitors and the CS230, the built-in correction sensor controls the monitor and makes corrections, if necessary, to ensure that the monitor settings always remain constant.



CREATION

Absolute color accuracy for a perfect workflow

Achieving the exact profiling with the proper hardware calibration is absolutely necessary for precise image editing, as well as for an efficient creative workflow. The monitors are automatically set to the adjustment target thanks to the built-in calibration sensors in the CG series and the built-in correction sensors in the CX series. This way you can always be sure that the colors and curves are exactly the same on any monitor, all without having to worry about making manual changes. That saves you time and money on expensive workflows required to confirm changes and adjust files, particularly when you are exchanging color content with colleagues and clients.

POSTPRODUCTION

Precise colors for animation, color grading, and special effects

All colors and levels on an EIZO ColorEdge monitor are displayed exactly as they will be seen by viewers. Even when working in large project teams, you can always count on the fact that colors, grayscales, and contrast will look the same on all monitors.

The models in the CG series feature presets for the standard gamuts Rec. 709 and DCI along with a high contrast ratio and illuminated buttons so that you can work comfortably, even in a dark studio.

PRINTING

Save money with reliable soft proofs

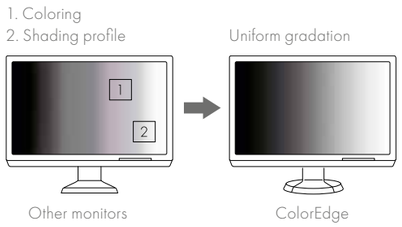
The ColorEdge monitors can serve as a reference for digital templates in the soft proofing process with their excellent color accuracy. They display the exact colors of the final print so that you are not faced with any unwelcome surprises in the printing process.

The precise profiling and wide gamut enable you to reproduce standards such as ISO Coated V2. In addition, thanks to the built-in calibration sensors in the CG series and the built-in correction sensors in the CX series, you can always be sure that the monitor complies with the set targets. That saves on maintenance work as well as on time and money.

RELIABLE COLOR DISPLAY AND HIGHEST PRECISION

Factory calibration of each individual unit

The tone value curve of each ColorEdge monitor is preconfigured at the factory. The gamma values for red, green, and blue from 0 to 255 are measured using the 16-bit look-up table (LUT) and assigned to the 256 matching hues.



Built-in self-calibration sensor

You can automate the calibration process for the monitors of the CG series with the built-in calibration sensor. You no longer have to invest time in calibrating your monitor – and you have more time to spend doing the things that matter.

Scheduled self-calibration and self-correction

You can schedule the self-calibration of the monitor using the OSD menu or the ColorNavigator software included with the monitor. Then the monitor carries out the self-calibration process at the scheduled time, even if it is switched off or not connected to a PC. The same applies to the self-correction.

Built-in self-correction sensor

A separate sensor is required to calibrate the monitors of the CX series and the CS230 model. The built-in correction sensor then maintains the calibration settings.

Automatic self-correction

Measuring the white balance and brightness values for calibration with an external sensor

Correlation with external sensors

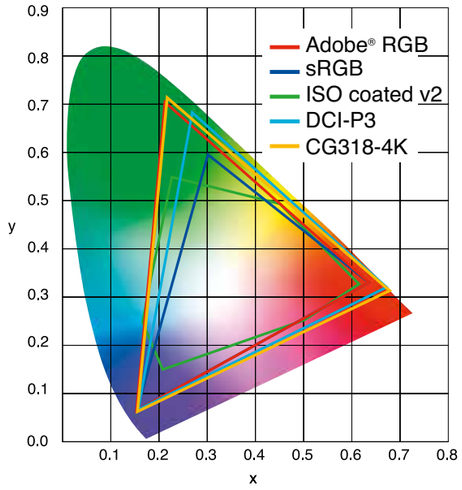
The monitors in the CG series can be correlated with the measurement results of an external calibration sensor. After the correlation process, the built-in sensor automatically adjusts the monitor to the proper settings. This is particularly practical if the monitor is being used in an environment with other monitors that do not have built-in sensors and you want to adopt the values of a particular measurement device for all monitors.

Optimum calibration using an external calibration device

Wide gamut

The wide gamut of the ColorEdge monitors can be used to reproduce almost the entire AdobeRGB color space so that pictures taken in RAW format can be converted to AdobeRGB and so that images in AdobeRGB format are displayed correctly. Unlike monitors with an sRGB gamut, ColorEdge monitors display photographs with true to life colors – for example, brilliant blue skies and lush green forests. Thanks to the wide gamut, the monitors are able to reproduce almost the entire CMYK gamut (ISO coated and U.S. web coated) used in print applications.

*Does not apply to the CS230 model.



Simultaneous 10-bit display

The monitors are capable of simultaneous 10-bit color display* based on a 16-bit LUT using a DisplayPort or HDMI port. This enables the monitor to display more than one billion colors, or 64 times the number of colors in an 8-bit display, resulting in finer gradations and a smaller color distance (Delta E) between the current and target hues.

* This requires a graphics board and software that support 10-bit display.

4K resolution

With over 8 million pixels, the monitors of the ColorEdge 4K series display even the smallest details absolutely realistically and in high resolution. The ColorEdge CG248-4K offers a pixel density of 185 ppi with an UHD resolution of 3840×2160 pixels. The CG318-4K monitor with its DCI-4K resolution of 4096×2160 pixels offers a pixel density of 149 ppi. This makes the 4K monitors perfect for professional users working in the fields of photography, image editing, and film and television production.

True Black LCD panel

Normally, dark colors tend to appear extremely pale when you look at a display from the side in a dark room. With the models of the EIZO CG and CX series, dark hues retain their depth because the True Black filter ensures a high contrast ratio, even when you are viewing the monitor from an angle to the side.

STABLE IMAGE DISPLAY

Color that's ready when you are

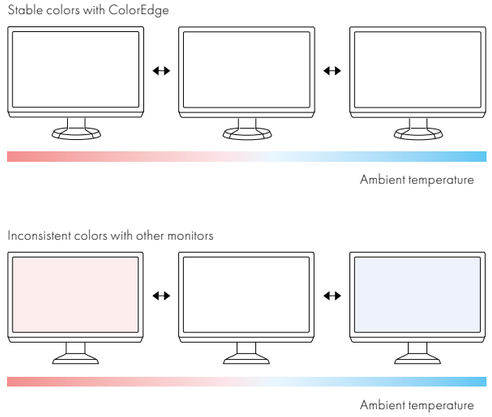
It can take over 30 minutes for the brightness, color, and tone values to stabilize after you switch on a traditional monitor. EIZO has reduced the warm-up time of the monitors in the CG and CX series by more than 75% to only seven minutes. Whether you prefer to check your work at the photo studio or take your monitor with you to another location, it is always ready when you need it.

Stable brightness

EIZO's patented sensor recognizes changes in the background lighting and compensates for any loss in brightness over the course of time. This not only ensures that brightness remains stable, it also prevents fluctuations in color temperature caused by reductions in brightness. Another built-in sensor detects changes in the ambient temperature and prevents fluctuations in color and gamma values.

Does not apply to the CS240 and CS270 models.

Temperature-related changes in image display



Brightness and color uniformity with DUE

LCD monitors typically show variations in brightness and color across the monitor area. The EIZO ColorEdge monitors combat this problem using the patented DUE technology (DUE = Digital Uniformity Equalizer).
This technology ensures that the deviation in color and brightness does not exceed a value of 3 over the entire monitor area with the CG and CX models. In addition, the DUE feature ensures that the image display remains stable by compensating for deviations in color temperature and brightness caused by variations in the ambient temperature.

Change in homogeneity and color temperature

EIZO microchip for optimized color display

All ColorEdge models are equipped with a high-quality microchip (ASIC, Application-Specific Integrated Circuit) that EIZO developed particularly for the special requirements involved in work demanding high color accuracy. EIZO ASICs ensure precise, consistent, and lasting color display thanks to their special algorithm.

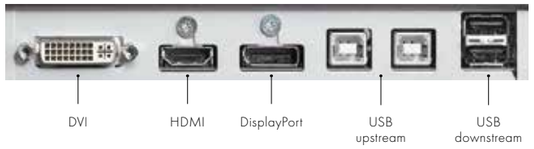
Hardware calibration vs. software calibration

With software calibration, the corrections are made by the graphics board, which can result in losses in tone value. With hardware calibration, there is no loss in tone value because the corrections are made directly in the monitor.

COMFORTABLE AND USER-FRIENDLY

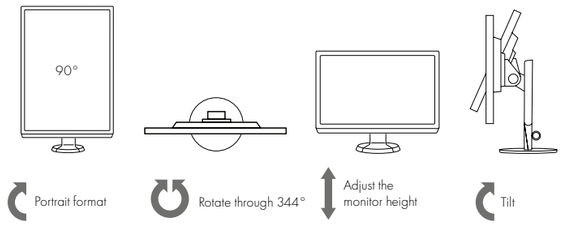
Mutiple signal inputs

The monitors are compatible with different types of graphics boards thanks to the DisplayPort, HDMI, and DVI inputs. The HDMI input offers you the opportunity to connect a digital camera directly while the USB upstream ports enable the monitor to be connected to two PCs at once. That means it is no longer necessary to switch the USB cable when using the ColorNavigator software or when switching between PCs. You can also connect the mouse and keyboard directly to the monitor and operate both PCs at the same time.



Adjustable stand

ColorEdge monitors are equipped with a flexible stand that allows you to adjust the height of the monitor, tilt or swivel it, and switch to portrait or landscape format. Adjust the monitor to suit your needs so that you can reduce reflections and prevent neck and back pain. If you want to show something to a colleague or client, you can simply adjust the screen again.



*Does not apply to the CG318-4K model.

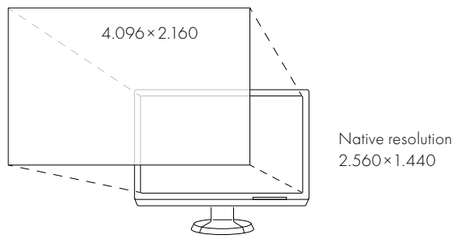
Work glare-free thanks to the shading hood

The EIZO shading hood keeps unwanted ambient light from the screen, ensuring that the precision of your image display is not affected by ambient light and that you are able to work without glare. Special non-reflective material on the inside of the shading hood improves your comfort.

Shading hoods are optional for the CX and CS series models.

ADVANCED PERFORMANCE FOR VIDEO

4K×2K downscaling
The ColorEdge CG277 monitor supports 4K×2K resolutions of 4096×2160 and 3840×2160 with up to 30 frames per second and then scales this video to its native resolution of 2560×1440 with the DisplayPort input. This practical feature makes the ColorEdge CG277 the perfect tool for editing the popular 4K×2K format, which is used for applications such as digital television and digital cinema.



1080/24p playback
Films are normally recorded at 24 frames/second and often appear unnatural on conventional monitors with a frame rate of 60 frames/second. The CG series supports a frame rate of 24 frames/second, meaning that you can edit the films in the same format in which they were recorded.

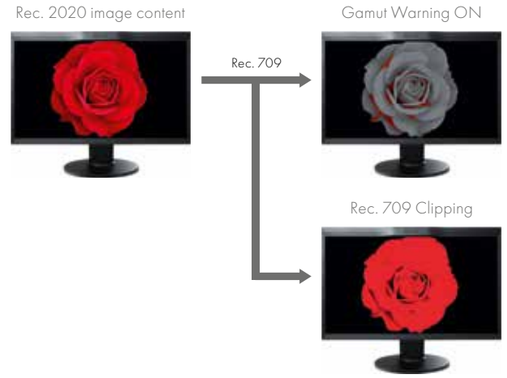
Expanded grayscale range
With the ColorEdge models, professional users can take advantage of the entire 10-bit grayscale range of the monitor to reproduce fine details in very dark and very bright areas. If the entire 10-bit grayscale range is activated, these monitors display either 6% or 14% more gray tones from 0 (absolute black) to 1023 (absolute white) than a conventional signal.

LED buttons and on-screen button guide
The CG series is ideal for use in poorly lit environments, for example, postproduction studios, because these monitors feature backlit buttons and an overview of the functions of the individual buttons on the screen.

Precise color thanks to 3D LUT
All models in the CG series are equipped with a 3D LUT, which adjusts individual colors using a three-dimensional RGB table. The 3D LUT allows you to emulate the coloring of films using the emulation feature of the ColorNavigator software included with the monitor so that you can view your film just as it will be seen by the audience. The 3D LUT improves the additive color mixing of the monitor (mixing of red, green, and blue), which is a key factor for ensuring that neutral gray tones are displayed correctly.

Preset color modes
Using a separate button located directly on the monitor, you can quickly access the default color modes, such as AdobeRGB, sRGB, Rec. 709, EBU, SMPTE C and DCI.

Rec. 709 color gamut warning
ColorEdge 4K monitors offer a default setting with a color gamut warning. When this option is selected, the areas of a Rec. 2020 image that cannot be reproduced with Rec. 709 are displayed in grayscale. The additional Rec. 709 Clipping mode allows you to view and edit Rec. 2020 images in the Rec. 709 gamut. This enables you to simulate how viewers would see the image in an HDTV environment.



QUALITY GUARANTEE

5-year warranty

All EIZO products are manufactured in the company's own factories, so that EIZO can monitor the production quality and ensure that the monitors are reliable. That's why EIZO is able to provide a five-year manufacturer's warranty for all components oft he ColorEdge monitors, including the LCD panel.

Color and brightness guarantee
EIZO provides a brightness guarantee for a maximum of 10,000 hours of monitor usage time from the date of purchase on all CG series monitors.
The monitors must be used with the recommended maximum brightness of 120 cd/m² and a color temperature of between 5000 K and 6500 K.

GLOBAL COOPERATION

EIZO and Magnum ambassador program

EIZO and Magnum Photos have been involved in a global partnership since 2013. Selected Magnum photographers and image editors integrate EIZO's ColorEdge monitors in their color management workflow and report back to EIZO about their experiences with the monitors. This feedback helps EIZO to continue developing new graphics monitors and calibration software.

Active member of the ICC

EIZO is an active member of the International Color Consortium (ICC). The purpose of the ICC is to promote the use and distribution of open, manufacturer-independent, cross-platform color management systems.

CONDUCT EVERY COLOR

Simple and precise calibration with ColorNavigator 6

Calibration is fast and easy with the ColorNavigator 6 software. It only takes a few minutes to create an ICC profile by entering the target values for brightness, gamma, and white balance.

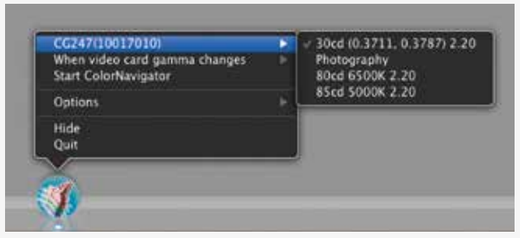
Basic features of ColorNavigator 6

Calibration using default values or user-defined values
The software offers default target values for photography and print applications. Select your target, click 'Calibrate,' and ColorNavigator 6 begins the calibration process right away. This is particularly practical for beginning users, because they do not have to enter any values on their own. Experienced users, on the other hand, can enter the desired values for brightness, white balance, and gamma, and then begin the calibration process.

Color adjustments after calibration
Each person has a slightly different perception of color. To adjust the monitor display to your personal settings, you can use ColorNavigator 6 to calibrate the hue and saturation of the six primary and secondary colors (red, green, blue, cyan, magenta, and yellow) as well as the white balance and brightness, black, and gamma values.

Menu for manual adjustment

Switch profiles at any time
You can switch the target profile even when ColorNavigator 6 is not open. The list of profiles is available at all times. Select the desired profile and the monitor will automatically adjust the settings.



Timer for recalibration
The monitor must be recalibrated at regular intervals to ensure that the color of the monitor remains accurate. ColorNavigator 6 is equipped with a timer that reminds you to recalibrate your monitor at preset intervals.

Advanced features of ColorNavigator 6

Simulation of the color display on other devices
ColorNavigator 6 emulates the color reproduction of devices such as tablets, smartphones, notebooks, and LCD and CRT monitors. The software uses a spectral photometer to read color patches displayed on the device to be emulated via a web browser and then uses this information to create an ICC profile. With this profile, you can use your ColorEdge monitor to simulate how the colors of the media you create will be displayed on different types of devices.

Import/export adjustment targets
Import and export the target profiles resulting from the calibration process and provide them to other users. This ensures that everyone involved in the project is working with the same monitor display settings.

Calibrating the monitor to another profile
If you would like to match the colors of multiple monitors in a workflow, you can use ColorNavigator 6 to load the profile of another ColorEdge monitor and to calibrate your own monitor.

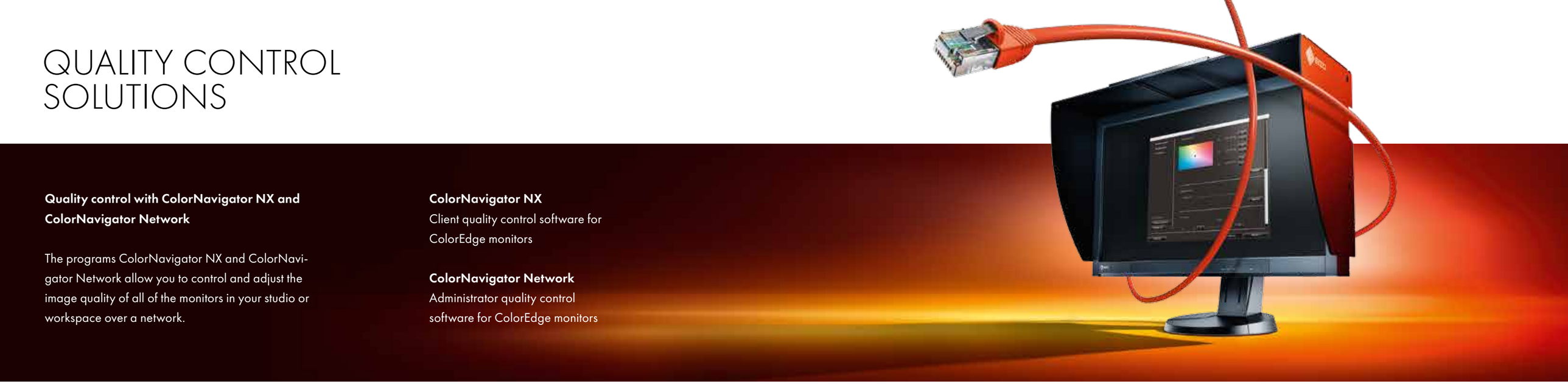
Calibration to a specific paper tone or the brightness of a light booth
ColorNavigator 6 can automatically measure the white tone of the paper used for printing with the help of an external sensor and use that data to set the target values for brightness and white balance. You can also measure the brightness of a light booth* and use this value as a target value for the calibration. This ensures that the brightness of the monitor corresponds to the light booth for color proofing.

*Currently supports JUST Color Communicator 1 and 2.

Validation
ColorNavigator 6 measures the precision of the monitor's color display to check the results of the calibration or to determine how much the monitor colors have changed since the last calibration. These measurements are used to detect deviations between the current and target values.

The models of the CG series check both RGB and CMYK values, while the CX and CS series monitors check only the RGB values.

QUALITY CONTROL SOLUTIONS



Quality control with ColorNavigator NX and ColorNavigator Network

The programs ColorNavigator NX and ColorNavigator Network allow you to control and adjust the image quality of all of the monitors in your studio or workspace over a network.

ColorNavigator NX
Client quality control software for ColorEdge monitors

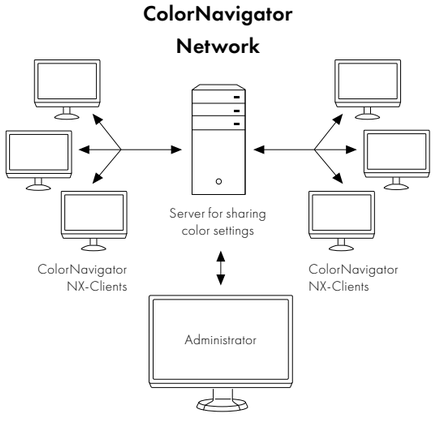
ColorNavigator Network
Administrator quality control software for ColorEdge monitors

ColorNavigator NX

ColorNavigator NX offers features for color and asset management of ColorEdge monitors. The software provides options for calibration, emulation, correlation of the built-in sensor, and adjustment of the color mode.

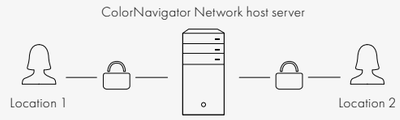
Uniform colors and centralized quality management

With ColorNavigator NX installed on all computers, administrators can use the ColorNavigator Network software to automate the calibration tasks for ColorEdge monitors throughout the entire team and at multiple different locations. These tasks include self-calibration, setting the color mode, activating the button lock to prevent unintentional changes to the color settings (CG series), registering or changing the settings for asset management, and importing or exporting monitor settings.



Stress-free webhosting

ColorNavigator Network is hosted on a secure cloud server, eliminating the procurement and operating costs associated with maintaining your own server.



Significantly reduce your workload

In conjunction with ColorNavigator NX and the CG series, ColorNavigator Network can save on handreds of working hours a year, even for a medium-sized installation with 25 monitors.

Annual maintenance requirements for 25 monitors

Conventional solution for monitor quality control (warm-up, calibration, validation)

Minutes/month 80 × Months 12 × Monitors 25 = Hours/year 400

Quality control solution from EIZO* (correlation, scheduling, color management solutions)

Minutes/month 25 × Months 25 = Hours/year 10

Savings of **390** Hours/year

*The internal calibration sensor and ColorNavigator automate the warm-up, calibration, and validation of the ColorEdge monitor.

Calculate how much time you can save with our online calculator: www.eizoglobal.com

Easy remote access

The host server for ColorNavigator Network can be accessed from any location with an Internet connection. (Flash support required)

Save calibration settings directly in the monitor

ColorNavigator NX does not save the calibration settings on a PC, but rather on the monitor itself so that it does not have to be recalibrated when it is connected to another PC.

Set parameters for color modes

You can adjust and recalibrate the brightness, gamma, and white balance settings of the default color modes on the monitor (such as Adobe RGB and DCI) in order to meet the requirements of each specific project.

Custom names for color modes

You can assign individual names to color modes for specific projects. That allows you to deactivate any unnecessary color modes to prevent the wrong color mode from being used on your current project.

Importing/exporting monitor settings

Import and export monitor settings such as color mode, schedules for self-calibration, and button lock settings. Administrators can use this feature to set up multiple monitors quickly and easily. The calibration settings can only be shared between monitors of the same model.

Film emulation with 3D LUT

ColorNavigator NX can use the 3D LUT files from the color grading of films to create data for emulation on the monitor. This film emulation is available for up to five color modes on the monitor and is designed to simulate the coloring of films.

Available for CG series models only.

Compatibility with different platforms

ColorNavigator Network and NX are compatible with Windows, Apple, and Linux. EIZO also offers the software program NetAgent for Linux installations in which the monitors are controlled solely by the administrator. This program can be used in place of ColorNavigator NX, thereby making it easier to communicate with the server.

You can download ColorNavigator NX from our website. ColorNavigator Network is available from EIZO Support.

COMPARISON OF FEATURES

			CG-4K	CG	CX	CS
Reliable color display	**P. 8**	Built-in self-calibration sensor	●	●		
		Built-in self-correction sensor			●	○ CS230 only
		Custom factory calibration	●	●	●	●
	P. 14	ColorNavigator 6	●	●	●	●
	P. 16	Support for ColorNavigator NX	●	●		
		Support for ColorNavigator Network	●	●		
	P. 9	True Black LCD-Panel	●	●	●	
		Wide gamut, except for CS230	●	●	●	●
		Simultaneous 10-bit display	●	●	●	●
		4K resolution	●			
Uniform image display	**P. 10**	Stable color reproduction after only seven minutes	●	●	●	
		Brightness and color uniformity	●	●	●	●
Comfortable and user-friendly	**P. 11**	Adjustable stand	●	●	●	●
		Shading hood included	●	●		
Postproduction	**P. 12**	Backlit buttons	●	●		
		3D look-up table (LUT)	●	●		
		4K × 2K resolution downscaling		○ CS277 only		
		Expanded grayscale range	●	●	●	●

TECHNICAL SPECIFICATIONS






		CG318-4K	CG248-4K	CG277	CG247	CX271	CX241
Display	Type	IPS	IPS	IPS	IPS	IPS	IPS
	Size	31.1"/79 cm (diagonal 789 mm)	23.8"/60 cm (diagonal 604 mm)	27"/68 cm (diagonal 684 mm)	24.1"/61 cm (diagonal 611 mm)	27"/68 cm (diagonal 684 mm)	24.1"/61 cm (diagonal 611 mm)
	Native resolution	4096 × 2160 (aspect ratio 1.9 : 1), 149 ppi	3840 × 2160 (aspect ratio 16 : 9), 185 ppi	2560 × 1440 (aspect ratio 16 : 9)	1920 × 1200 (aspect ratio 16 : 10)	2560 × 1440 (aspect ratio 16 : 9)	1920 × 1200 (aspect ratio 16 : 10)
	Display area (H × V)	698 × 368.1 mm	527 × 206.5 mm	596.7 × 335.6 mm	518.4 × 324 mm	596.7 × 335.6 mm	518.4 × 324 mm
	Pixel pitch	0.1704 × 0.1704 mm	0.1373 × 0.1373 mm	0.2331 × 0.2331 mm	0.270 × 0.270 mm	0.2331 × 0.2331 mm	0.270 × 0.270 mm
	Gray tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones; DVI: 256 from a palette of 65,281 tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones; DVI: 256 from a palette of 65,281 tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones; DVI: 256 from a palette of 65,281 tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones; DVI: 256 from a palette of 65,281 tones
	Monitor gamut	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit)	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit)	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit) DVI: 16.77 million from a palette of 278 trillion colors (16 bit)	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit) DVI: 16.77 million from a palette of 278 trillion colors (16 bit)	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit) DVI: 16.77 million from a palette of 278 trillion colors (16 bit)	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit) DVI: 16.77 million from a palette of 278 trillion colors (16 bit)
	Viewing angle (h, v, typical)	178°, 178°	178°, 178°	178°, 178°	178°, 178°	178°, 178°	178°, 178°
	Brightness (typical)	350 cd/m^2	350 cd/m^2	300 cd/m^2	350 cd/m^2	300 cd/m^2	350 cd/m^2
	Recommended brightness for calibration	≤ 120 cd/m^2	≤ 120 cd/m^2	≤ 120 cd/m^2	≤ 120 cd/m^2	≤ 120 cd/m^2	≤ 120 cd/m^2
	Contrast ratio (typical)	1500 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1
	True Black	◆	◆	◆	◆	◆	◆
	Reaction time (typical)	9 ms (gray-gray)	14 ms (gray-gray)	6 ms (gray-gray)	7.7 ms (gray-gray)	6 ms (gray-gray)	7.7 ms (gray-gray)
	Color range (typical)	AdobeRGB 99 %	AdobeRGB 99 %	AdobeRGB 99 %	AdobeRGB 99 %	AdobeRGB 99 %	AdobeRGB 99 %
Video signals	Inputs	DisplayPort ×2 (with HDCP Ver. 1.x), HDMI ×2 (with HDCP Ver. 1.x, Deep Color)	DisplayPort ×2 (with HDCP Ver. 1.x), HDMI ×2 (with HDCP Ver. 1.x, Deep Color)	DVI-D, 24-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP, Deep Color)	DVI-D, 24-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP, Deep Color)	DVI-D, 24-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP, Deep Color)	DVI-I, 29-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP, Deep Color)
	Digital scanning frequency (h, v)	DisplayPort: 24.5–137.5 kHz/22.5–71.5 Hz HDMI: 14.5–135.5 kHz/22.5–71.5 Hz	DisplayPort: 24.5–137.5 kHz/22.5–71.5 Hz HDMI: 14.5–135.5 kHz/22.5–71.5 Hz	DisplayPort, DVI: 26–89 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–78 kHz, 23.75–61 Hz	DisplayPort, DVI: 26–78 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–78 kHz, 23.75–61 Hz (VGA Text: 69–71 Hz)	DisplayPort, DVI: 26–89 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–78 kHz, 23.75–61 Hz	DisplayPort, DVI: 26–78 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–78 kHz, 23.75–61 Hz (VGA Text: 69–71 Hz)
	Analog scanning frequency (h, v)	–	–	–	–	–	–
USB	Function	1 upstream 3 downstream, 1 of which has charging function	1 upstream 3 downstream, 1 of which has charging function	2 upstream 2 downstream	2 upstream 2 downstream	2 upstream 2 downstream	2 upstream 2 downstream
	Standard	USB 3.0	USB 3.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Power supply	Power requirement	AC 100–240 V, 50/60 Hz	AC 100–240 V, 50/60 Hz	AC 100–120 V/AC 200–240 V, 50/60 Hz	AC 100–120 V/AC 200–240 V, 50/60 Hz	AC 100–120 V/200–240 V, 50/60 Hz	AC 100–120 V/200–240 V, 50/60 Hz
	Max. energy consumption/typical energy consumption/power save mode/standby mode	140 W/54 W/≤ 9 W/≤ 9 W	136 W/52 W/≤ 9 W/≤ 9 W	99 W/43 W/≤ 0.7 W/≤ 0.5 W	83 W/33 W/≤ 0.7 W/≤ 0.5 W	99 W/43 W/≤ 0.7 W/≤ 0.5 W	81 W/32 W/≤ 0.5 W/≤ 0.5 W
	Energy efficiency category	B	D	C	C	C	C
	Annual energy consumption	76 kWh	80 kWh	74 kWh	54 kWh	74 kWh	54 kWh
	Power management	Power save mode (DisplayPort Rev. 1.2)	Power save mode (DisplayPort Rev. 1.2)	Power save mode (DisplayPort Version 1.1a and DVI-DMPM)	Power save mode (DisplayPort Version 1.1a and DVI-DMPM)	Power save mode (DisplayPort Version 1.1a and DVI-DMPM)	Power save mode (VESA-DPM, DisplayPort Version 1.1a and DVI-DMPM)
Self-calibration		◆	◆	◆	◆	–	–
Self-correction		–	–	–	–	◆	◆
Shading hood		◆	◆	◆	◆	◇	◇
Features and functions	Hardware calibration / 3D look-up table	◆/◆	◆/◆	◆/◆	◆/◆	◆/–	◆/–
	Brightness stabilization	◆	◆	◆	◆	◆	◆
	Digital Uniformity Equalizer	◆	◆	◆	◆	◆	◆
	Pre-set modes	Color mode (Custom, AdobeRGB, sRGB, Rec. 709, EBU, SMPTE-C, DCI, Rec. 2020, Calibration)	Color mode (Custom, AdobeRGB, sRGB, Rec. 709, EBU, SMPTE-C, DCI, Rec. 2020, Calibration)	Color mode (Custom, AdobeRGB, sRGB, Rec. 709, EBU, SMPTE-C, DCI, Calibration)	Color mode (Custom, AdobeRGB, sRGB, Rec. 709, EBU, SMPTE-C, DCI, Calibration)	Color mode (Custom, Paper, AdobeRGB, sRGB, Calibration)	Color mode (Custom, Paper, AdobeRGB, sRGB, Calibration)
	Auto EcoView	–	–	–	–	◆ (Default setting: deactivated)	◆ (Default setting: deactivated)
	Support for ColorNavigator NX and ColorNavigator Network	◆	◆	◆	◆	◆	◆
	Manual control of gamma and CMYRGB	◆	◆	◆	◆	◆	◆
	Color temperature setting	◆	◆	◆	◆	◆	◆
	LUT system with post-LUT and factory-calibrated pre-LUT	◆	◆	◆	◆	◆	◆
	Gamut clipping	◆	◆	◆	◆	◆	◆
	DUE priority	◆	◆	◆	◆	◆	◆
	Safe area marker (HDMI)	◆	◆	◆	◆	◆	–
	I/P conversion, pseudo-interface (HDMI)	◆	◆	◆	◆	◆	◆
	Signal range extension (HDMI)	◆	◆	◆	◆	–	◆
	Noise reduction (HDMI)	◆	◆	◆	◆	◆	◆
	Support for YUV signal (DisplayPort and HDMI input)	◆	◆	◆	◆	◆	◆
	3D LUT film emulation (support for 10-bit log)	◆	◆	◆	–	–	–
	4K signals via DisplayPort with downscaling to 2560 x 1440 pixels	–	–	◆	–	–	–
	Button guide	◆	◆	◆	◆	◆	◆
	Power manager and OFF timer	◆	◆	◆	◆	◆	◆
	Operating in portrait and landscape format/adjusting the monitor height	–/◆	◆/◆	◆/◆	◆/◆	◆/◆	◆/◆
	Inventory data readable (VESA EDID v2.x)	◆	◆	◆	◆	◆	◆
Dimensions and weight	Dimensions (W × H × D, landscape format)/net weight	735 × 434–583 × 245 mm/11.3 kg	553 × 394–544 × 245 mm/8.5 kg	646 × 425–576.5 × 281.5 mm/12.8 kg	575 × 417–545 × 245.5 mm/9.1 kg	646 × 425–576.5 × 281.5 mm/12.8 kg	575 × 417–545 × 245.5 mm/9 kg
	Adjustment range for monitor height	149 mm	150 mm	151.5 mm	128 mm	151.5 mm	128 mm
	Tilt/swivel/rotation angles	35° up, 5° down/344°/–	35° up, 5° down/344°/90°	25° up, 0° down/344°/90°	30° up, 0° down/344°/90°	25° up, 0° down/344°/90°	30° up, 0° down/344°/90°
	Calibration (VESA standard)	100 × 100 mm	100 × 100 mm	100 × 100 mm	100 × 100 mm	100 × 100 mm	100 × 100 mm
Certifications and standards (Current information is available from the companies and distributions partners of the EIZO Group in your country)		Softproof-Monitor FograCert, CB, TÜV-GS, CE, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, GOST-R, RoHS, WEEE	Softproof-Monitor FograCert, CB, TÜV-GS, CE, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, GOST-R, RoHS, WEEE	Softproof-Monitor FograCert, CB, TÜV-GS, CE, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, GOST-R, RoHS, WEEE, CUDO certification	Softproof-Monitor FograCert, CB, TÜV-GS, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, RoHS, WEEE, GOST-R	CB, TÜV-GS, CE, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, GOST-R, RoHS, WEEE, CUDO certification	CE, TÜV-GS, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, RoHS, WEEE, GOST-R
Accessories included		Power cord, signal cable (DisplayPort – DisplayPort, DisplayPort – mini DisplayPort, HDMI-HDMI), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions), calibration certification, cleaning set, shading hood	Power cord, signal cable (DisplayPort – DisplayPort, DisplayPort – mini DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions), calibration certification, cleaning set, shading hood	Power cord, signal cable (DVI-D – DVI-D [Dual Link support], Mini DisplayPort – DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions), calibration certificate, cleaning set, shading hood	Power cord, signal cable (DVI-D – DVI-D [Dual Link support], Mini DisplayPort – DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions), calibration certificate, cleaning set, shading hood	Power cord, signal cable (DVI-D – DVI-D [Dual Link support], Mini DisplayPort – DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions), calibration certificate	Power cord, signal cable (DVI-D – DVI-D, Mini DisplayPort – DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions), calibration certificate
Quality guarantee	6-month zero pixel error guarantee[1]	◆	◆	◆	◆	◆	◆
	Color and brightness guarantee[2]	◆	◆	◆	◆	–	–
	On-site replacement service[3]	Five years	Five years	Five years	Five years	Five years	Five years

[1]The zero pixel error guarantee applies to fully illuminated sub-pixels (partial image elements ISO 9241-307) six months following purchase date.

[2]Brightness guarantee up to 10,000 hours of monitor usage time from the date of purchase with the recommended maximum brightness of 120 cd/m^2 and a color temperature of between 5000 and 6500 K.

[3]Maximum of 30,000 hours of monitor usage time from the date of purchase.

◆ Standard, ◇ Optional

TECHNICAL SPECIFICATIONS

		CS270	CS240	CS230
Display	Type	IPS	IPS	IPS
	Size	27"/68 cm (diagonal 684 mm)	24.1"/61 cm (diagonal 611 mm)	23"/58 cm (diagonal 584 mm)
	Native resolution	2560×1440	1920×1200 (aspect ratio 16:10)	1920×1080 (aspect ratio 16:9)
	Display area (H×V)	596.7×335.6 mm	518.4×324 mm	509.2×286.4 mm
	Pixel pitch	0.2331×0.2331 mm	0.270×0.270 mm	0.2652×0.2652 mm
	Gray tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones; DVI: 256 from a palette of 65,281 tones	DisplayPort, HDMI: 1024 from a palette of 65,281 tones; DVI: 256 from a palette of 65,281 tones	DisplayPort: 1024 from a palette of 65,281 tones; DVI, HDMI: 256 from a palette of 65,281 tones
	Monitor gamut	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit) DVI: 16.77 million from a palette of 278 trillion colors (16 bit)	DisplayPort, HDMI: 1.07 billion from a palette of 278 trillion colors (16 bit) DVI: 16.77 million from a palette of 278 trillion colors (16 bit)	DisplayPort: 1.07 billion from a palette of 278 trillion colors (16 bit); DVI, HDMI: 16.77 million from a palette of 278 trillion colors (16 bit)
	Viewing angle (h, v, typical)	178°, 178°	178°, 178°	178°, 178°
	Brightness (typical)	300 cd/m²	350 cd/m²	300 cd/m²
	Recommended brightness for calibration	≤ 120 cd/m²	≤ 120 cd/m²	≤ 120 cd/m²
	Contrast ratio (typical)	1000:1	1000:1	1000:1
	True Black	–	–	–
	Reaction time (typical)	15 ms (gray-gray)	7.7 ms (gray-gray)	10.5 ms (gray-gray)
	Color range (typical)	AdobeRGB 99%	AdobeRGB 99%	–
Video signals	Inputs	DVI-D, 24-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP, Deep Color)	DVI-I, 29-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP, Deep Color)	DVI-I, 29-pin (with HDCP), DisplayPort (with HDCP), HDMI (with HDCP)
	Digital scanning frequency (h, v)	DisplayPort, DVI: 26–89 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–78 kHz, 23.75–63 Hz	DisplayPort, DVI: 26–78 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–78 kHz, 23.75–61 Hz	DisplayPort, DVI: 26–68 kHz, 23.75–63 Hz (VGA Text: 69–71 Hz) HDMI: 15–68 kHz, 23.75–61 Hz
	Analog scanning frequency (h, v)	–	26–78 kHz, 47.5–61 Hz	26–78 kHz, 47.5–61 Hz
USB	Function	2 upstream 2 downstream	2 upstream 2 downstream	2 upstream 2 downstream
	Standard	USB 2.0	USB 2.0	USB 2.0
Power supply	Power requirement	AC 100–240 V, 50/60 Hz	AC 100–120 V/AC 200–240 V, 50/60 Hz	AC 100–120 V/200–240 V, 50/60 Hz
	Max. energy consumption/typical energy consumption/power save mode/standby mode	86 W/34 W/≤ 0.7 W/≤ 0.5 W	81 W/32 W/≤ 0.5 W/≤ 0.5 W	54 W/21 W/≤ 0.5 W/≤ 0.5 W
	Energy efficiency category	B	B	C
	Annual energy consumption	53 kWh	39 kWh	53 kWh
	Power management	Power save mode (DisplayPort Rev. 1.1a, DVI DVI-DMPM)	Power save mode (VESA-DPM, DisplayPort Version 1.1a and DVI-DMPM)	Power save mode (VESA-DPM, DisplayPort Version 1.1a and DVI-DMPM)
Self-calibration		–	–	–
Self-correction		–	–	◆
Shading hood		◇	◇	◇
Features and functions	Hardware calibration / 3D look-up table	◆/–	◆/–	◆/–
	Brightness stabilization	–	–	◆
	Digital Uniformity Equalizer	◆	◆	◆
	Pre-set modes	Color mode (Custom, Paper, AdobeRGB, sRGB, Calibration)	Color mode (Custom, Paper, AdobeRGB, sRGB, Calibration)	Color mode (User1, User2, User3, Paper, sRGB, Calibration)
	Auto EcoView	–	–	◆
	Support for ColorNavigator NX and ColorNavigator Network	–	–	–
	Manual control of gamma and CMYRGB	◆	◆	◆
	Color temperature setting	◆	◆	◆
	LUT system with post-LUT and factory-calibrated pre-LUT	◆	◆	◆
	Gamut clipping	◆	◆	–
	DUE priority	◆	◆	–
	Safe area marker (HDMI)	–	–	–
	I/P conversion, pseudo-interface (HDMI)	–	–	–
	Signal range extension (HDMI)	◆	◆	–
	Noise reduction (HDMI)	◆	◆	◆
	Support for YUV signal (DisplayPort and HDMI input)	◆	◆	◆
	3D LUT film emulation (support for 10-bit log)	–	–	–
	4K signals via DisplayPort with downscaling to 2560×1440 pixels	–	–	–
	Button guide	◆	◆	◆
	Power manager and OFF timer	◆	◆	◆
	Operating in portrait and landscape format/adjusting the monitor height	◆/◆	◆/◆	◆/◆
	Inventory data readable (VESA EDID v2.x)	◆	◆	◆
Dimensions and weight	Dimensions (W×H×D, landscape format)/net weight	646×413–561×245 mm/10.6 kg	575×424–554×245 mm/8.7 kg	544×372.5–526.5×245.5 mm/7.5 kg
	Adjustment range for monitor height	148 mm	130 mm	154 mm
	Tilt/swivel/rotation angles	35° up, 5° down/344°/90°	35° up, 5° down/344°/90°	30° up, 0° down/344°/90°
	Calibration (VESA standard)	100×100 mm	100×100 mm	100×100 mm
Certifications and standards (Current information is available from the companies and distributions partners of the EIZO Group in your country)		CE, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, RoHS, WEEE, GOST-R	CE, TÜV-GS, cTÜVus, FCC-B, ICES-003-B (Canada), VCCI-B, TÜV-Ergonomie (ergonomics), c-Tick, RoHS, WEEE, GOST-R	CUDO certification, TCO Displays 5.2, TÜV/S, TÜV-Ergonomie (ergonomics), TÜV-GS, cTÜVus, CE, c-Tick, CB, VCCI-B, FCC-B, ICES-003-B (Canada), RoHS, WEEE
Accessories included		Power cord, signal cable (DVI-D – DVI-D, Mini DisplayPort – DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions)	Power cord, signal cable (DVI-D – DVI-D, Mini DisplayPort – DisplayPort), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions)	Power cord, signal cable (DVI-D – DVI-D), USB cable, Setup Guide, EIZO LCD Utility Disk (ColorNavigator software, PDF operating instructions)
Quality guarantee	6-month zero pixel error guarantee[1]	◆	◆	◆
	Color and brightness guarantee[2]	–	–	–
	On-site replacement service[3]	Five years	Five years	Five years

[1]The zero pixel error guarantee applies to fully illuminated sub-pixels (partial image elements ISO 9241-307) six months following purchase date.
[2]Brightness guarantee up to 10,000 hours of monitor usage time from the date of purchase with the recommended maximum brightness of 120 cd/m² and a color temperature of between 5000 and 6500 K.
[3]Maximum of 30,000 hours of monitor usage time from the date of purchase

◆ Standard, ◇ Optional

CH7 shading hood
Supported models:
CG247, CX241, CS240
The CH7 is included with the CG247 model.

CH6 shading hood
Supported model: CS230

CH5 shading hood
Supported models: CG277, CX271, CS270
The CH5 is included with the CG277 model.

EX3 calibration device
Calibrate the monitors of the CX and CS series to the perfect settings using this external calibration device.

Creative training

Our website offers plenty of useful information on the subject of color management to help you improve your digital photos and your digital workflow.