**EIZO Corporation**

EIZO Corporation - Nishishinjuku, Shinjuku-ku, Tokyo 163-8544 Japan
Phone: +81-3-5774-6794 Fax: +81-3-5774-6793
www.eizoglobal.com

**Color Management Software**

**ColorNavigator 7**

Color management and quality control software for simple calibration and predictable color results.

**Network Color Management Software**

**ColorNavigator Network**

Network color management software for centralized quality control of ColorEdge monitors on a network.

**Technology**

DK Technologies
TOPCON
JETI
Research
Konica Minolta
Photo Research
Klein
EX2, EX3, Built-in Calibration Sensor
Spyder6
Microsoft Windows
Mac OS, macOS
Quick Color Match, and Quick Color Match, and ScreenCleaner are trademarks of EIZO Corporation.

**Calibration Device**

**EX3**

Adjust CG Series monitors to your ideal settings with the external calibration device.

**Monitor Cleaning Kit**

**ScreenCleaner**

Wipe away dust and fingerprints with this screen cleaner kit. Includes pump spray and cloth. Bundled with the CS series.

**Screen-to-Print Color Matching Tool**

Easy color matching tool for simplifying monitor retouching software, and printer settings.

**EIZO, ColorEdge, and ColorNavigator are registered trademarks of EIZO Corporation in Japan and other countries. Quick Color Match, and ScreenCleaner are trademarks of EIZO Corporation. Adobe and Photoshop are either registered trademarks of Adobe Systems Incorporated in the United States and/ or other countries. The terms HDMI and HDMI High Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing, LLC in the United States and other countries. Apple, Mac, macOS, macOS High Sierra, and Quick Color Match, and ScreenCleaner are trademarks of EIZO Corporation.**

**Chromaticity**

**ColorNavigator 7 Compatibility Information (as of May, 2019)**

See www.eizoglobal.com for the latest information.

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Supported Sensor</th>
<th>Mac</th>
<th>Windows</th>
<th>Linux</th>
</tr>
</thead>
<tbody>
<tr>
<td>X-Rite</td>
<td>i1 Monitor, i1 Pro (XRA), i1 Pro 2 (XRA), i1 Display 3, i1 Display Pro, i1 Studio, ColorMunki PHOTO, ColorMunki DESIGN</td>
<td>macOS Sierra (10.14), macOS High Sierra (10.13), macOS Mojave (10.14), OS X El Capitan (10.11)</td>
<td>Windows 10 (32-bit, 64-bit) / 8.1 (32-bit, 64-bit) / 7 (32-bit, 64-bit) / Red Hat Enterprise Linux 7 (64-bit)</td>
<td></td>
</tr>
</tbody>
</table>
Express your thoughts and inspirations exactly as you envision – ColorEdge helps to make that a reality. Each detail and nuance is realized in the final work, providing you an even greater satisfaction with your creations. Accurate color, consistent image quality, and ease of use are why EIZO’s ColorEdge lineup gives creatives around the world the ability to express their true vision.

Let your imagination soar and your creativity blossom. Your passion will guide you and ColorEdge will ensure that you can express your ideas precisely as you have imagined.

True to Creativity

Precision beyond color.
ColorEdge Quality for Achieving Your Creative Vision

Ease of Use

ColorEdge meets user needs with a wide range of monitors packed with features for creators of all levels. Designers and printers can rest assured that ColorEdge will ensure a smooth and consistent workflow through to the back-end. Video creators can take advantage of the features that many ColorEdge models include specifically for video creation. Those who want to enjoy working with digital photography can easily carry out color matching using ColorEdge. All of these features and more are included to ensure that ColorEdge is optimal for users’ creative needs.

True Reproducibility

To achieve the most accurate color display, EIZO developed its own application-specific integrated circuit (ASIC) which is equipped in each ColorEdge monitor. With this ASIC, the gamma level of each monitor is adjusted at the factory to ensure that tones are displayed as intended without color banding.

Long-Term Reliability

As more desktop LCD monitor brands outsource development and production to third parties, EIZO remains convinced that the best way to deliver the quality that our customers expect is to maintain an integrated approach. Each ColorEdge monitor is developed, manufactured, and quality-control tested in-house at EIZO’s own factory. This gives us the confidence to back each ColorEdge monitor with the industry’s only five-year manufacturer’s warranty.
For Professionals
Get the best in both color and convenience for the optimal creative workflow.

CG Series

PROMINENCE
4K CG319X

CG279X
27"

CG247X
24"

CG2420
24"

CG248-4K
27"

CG277
27"

CG2730
27"
For Hobbyists and Prosumers
Create, edit, and enjoy photography, illustration, and more.

CS Series
Common Features

The wide color gamut of ColorEdge monitors reproduces almost the entire Adobe RGB color space so images shot in Adobe RGB will be displayed correctly. Photos of vibrant blue skies and lush green forests are reproduced faithfully in a way that monitors limited to an sRGB color space cannot display. The wide color gamut also ensures reproduction of almost the entire ISO-coated and US web-coated CMYK color spaces used in printing.

10-Bit Simultaneous Display

With 10-bit simultaneous color display* from a 16-bit LUT (24-bit for CG319X and CG3145) which means they can show more than one billion colors simultaneously. This is 64 times more colors than you get with 8-bit display, resulting in smooth color gradations and reduced Delta-E between two adjacent colors.

Uniformity Across the Screen

LCD monitors commonly exhibit fluctuations in brightness and chromaticity across the screen, affecting color accuracy. To counter this, ColorEdge monitors are equipped with EIZO’s patented digital uniformity equalizer (DUE) technology which corrects deviations in every tone across the screen to ensure stable display.

Adjusted at the Factory for Smooth Color Gradations

The gamma level for each ColorEdge monitor is adjusted at the factory by measuring the R, G, and B gamma values from 0 - 255, then using the monitor’s 16-bit LUT (24-bit for CG319X and CG3145) to select the 256 most appropriate tones and achieve the desired value. This ensures the smoothest color gradations in your images.

Ergonomic Stand for Comfort and Convenience

Adjust the screen to the most comfortable angle and reposition it to show your work to a colleague or client. The monitors come with a versatile stand that offer height, tilt, and swivel adjustments as well as portrait display.

Commitment to Quality

5-Year Manufacturer’s Warranty

ColorEdge monitors are backed by a manufacturer’s 5-year warranty that covers all components including the LCD panel*. EIZO manufactures its products at its own factories to allow close control over production quality and ensure each monitor is built to last.

Brightness and Color Warranty

The brightness and color of the CG Series is warranted for up to 10,000 hours* from the date of purchase.

0 Bright Pixels

EIZO guarantees its ColorEdge monitors will be free from bright sub-pixels for six months from the date of purchase.
ColorEdge® Software Solutions

Color Management Software

ColorNavigator 7

ColorNavigator 7 is the latest calibration and quality control software for ColorEdge color management monitors. It combines all the features of EIZO's previous color management software, ColorNavigator 6 and ColorNavigator NX, to create a new and improved solution for creatives in a range of fields.

Calibrate All Color Modes at Once

New with ColorNavigator 7 is the ability to calibrate every color mode (Standard Mode) simultaneously so you do not have to spend time managing each one individually. This saves time and ensures your screen remains color accurate no matter which color mode you work in.

Multiple Color Modes

ColorNavigator 7 includes multiple color modes so you can choose the one that matches your field's target values. Furthermore, the color mode list is populated according to the monitor's OSD menu so you can rest assured that all possible options are covered.

Schedule Automatic Recalibration

A monitor needs to be recalibrated at regular intervals to maintain color accuracy. With ColorNavigator 7, you can schedule the monitor to automatically recalibrate at a specific time or at regular intervals, even if the monitor is switched off.

Maintain Calibration Settings with Different PCs

With ColorNavigator 7, calibration information is saved to the monitor instead of the PC's operating system. This means you do not need to recalibrate the monitor if connecting to more than one PC.

Easy Screen-to-Print Color Matching Tool

Quick COLOR MATCH

Even with all the right equipment, color matching can be a tedious process and achieving an accurate print takes a great deal of time. Quick Color Match greatly simplifies the process by automatically adjusting to EIZO’s recommended monitor, retouching software, and printer settings. Simply drag and drop your photo and begin retouching and printing with no hassle.

Collaboration with Industry Leaders

Quick Color Match was developed under a first-ever collaboration between EIZO and Adobe, Canon, and Epson. EIZO also collaborated with paper manufacturers ILFORD, Pictorico, Hahnemühle, SIHL, and Tecco to support a wide range of paper types.

Automatic Adjustment to EIZO’s Recommended Settings

Monitor Adjustment

Quick Color Match automatically adjusts your ColorEdge monitor’s gain, brightness, gamma, and color space (Adobe® RGB) and creates a profile for these settings.

Retouching Software Settings

Dragging and dropping your photo to the Quick Color Match menu automatically opens Adobe Photoshop® and adjusts to EIZO’s recommended settings based on the printer and paper being used.

Printer Settings

With either Canon Print Studio Pro or Epson Print Layout printer plugin installed, Quick Color Match automatically selects the print profile and color and soft proofing options recommended by EIZO.

Recommended Monitors

- **CS2731** 2560 x 1440
- **CS2420** 1920 x 1200

For a full list of supported monitors, printers, software, and papers visit www.eizoglobal.com/products/coloredge/qcm

For more information visit www.eizoglobal.com/library/management/qcm-cn

ColorNavigator is for users who want to fine-tune the monitor’s color accuracy and create custom profiles. Quick Color Match offers quick, hassle-free color matching for users who want to streamline the process without worrying about technical details. Both solutions support most ColorEdge monitors so you can build the creative workflow that suits your needs.

What is Calibration?

Calibration is a method by which a monitor's display characteristics are adjusted to a target value using a special sensor. Software calibration modifies the signal from your video card to display more accurate color and can be carried out for conventional monitors. Hardware calibration controls the hardware of the monitor directly by utilizing the LUT (look-up-table) inside the monitor. This method offers higher precision and better gradation characteristics compared to software calibration. With ColorEdge and ColorNavigator 7, you can adjust the monitor's display directly through hardware calibration.
**ColorEdge® CG Series Features**

### Built-In Sensors to Automate Your Workflow

CG Series monitors are equipped with a built-in sensor which can be set to calibrate the monitor automatically at designated times. This eliminates the need for a third-party calibration device and ensures your screen stays color-accurate. In addition, the CG277X and CG319X feature the latest sensor technology, which allows you to continue using the monitor even during recalibration. The sensor swings onto the screen, taking up minimal space, so your work remains uninterrupted.

*Only CG277X and CG319X can continue to be operated during recalibration. It is not recommended to carry out color-critical work during this process, as the screen’s colors will be adjusted. CG314X is not equipped with a built-in sensor.*

### Stable Display Technology for Unrivaled Quality

The color and brightness of an LCD monitor can be affected by changes in ambient temperature and the temperature of the monitor itself. ColorEdge monitors are equipped with a temperature sensor for accurately measuring the temperature inside the monitor, as well as estimating the temperature of the surrounding environment. With this temperature sensing and estimation technology, the monitor adjusts in real-time so gradations, color, brightness, and other characteristics continue to be displayed accurately. Furthermore, EIZO uses AI (artificial intelligence)* in the estimation algorithm of the ColorEdge CG3145, CG319X, and CG279X so they can distinguish between various temperature changing patterns to calculate even more accurate correction.

*Patent pending.

### Stable Color in Just 3 Minutes

A typical monitor takes 30 minutes or more for its brightness, chromaticity, and tone characteristics to stabilize. The CG Series* takes a mere 3 minutes. Whether you are working in a studio or taking the monitor with you on location, you get reliable color display soon after turning the monitor on.

*The CG277 takes 7 minutes and CG3145 takes 30 minutes.

### Light-Shielding Hood

The CG Series comes bundled with a light-shielding that effectively prevents glare on the monitor’s screen caused by ambient lighting. The hoods attach to the monitor magnetically, allowing users to attach the hood quickly and easily without needing to connect separate parts.

*The CG277 comes with a non-magnetic hood.*

### Film Emulation with 3D LUT

ColorNavigator 7 can create emulation data from the 3D LUT of the video content used in the color grading system for matching the look of the film on the monitor.

*Not available with the CG2730 or CG2420.

### Certified for Quality and Performance

ColorEdge monitors have obtained TÜV Rheinland’s Color Accuracy (Quick Stability grade) certification. Color Accuracy is the first quality and performance criterion to measure the color accuracy of display devices for multiple graphics fields such as photography, post production, design, and printing.

CG Series monitors are also recognized by Fogra as Class A FograCert Softproof Monitors. Using them in a FograCert Softproofing System ensures designers, print specifiers, and print producers can rely on the softproof for predictable and consistent results. In addition, the CG247X is the first monitor to receive Idealliance’s display-based soft proofing certification which confirms that the color stability, tone uniformity, and angular viewing consistency meets global industry standards for high quality proofs.


### 4K Resolution for Exceptional Detail

#### The Highest Pixel Density Yet

The CG248-4K offers the highest pixel density yet in the ColorEdge lineup at an astonishing 185 ppi for exceptionally smooth image display. The 4K UHD screen (3840 x 2160) makes it ideal for high-resolution photography or as a reference monitor for 4K video creation.

#### Quadruple the Resolution of Full HD

The CG319X and CG3145 display the DCI 4K standard (4096 x 2160) which is more than four times that of full HD (1920 x 1080). They are ideal for creating, editing, and referencing with 2D and 3D CGI, VFX, composting, and color grading.

#### DCI 4K at 60 Hz with a Single Cable

The CG3145 and CG319X support the DCI 4K resolution at 60 Hz with a single DisplayPort or HDMI input.
**ColorEdge® CG Series Features**

**For Media and Entertainment**

### 3D LUT for Accurate Color Display

A 3D LUT is included in the CG Series which adjusts colors individually on an RGB cubic table. The 3D LUT improves the monitor’s additive color mixture (combination of RGB), which is a key factor in its ability to display neutral gray tones.

### BT.709 Out of Gamut Warning

ColorEdge 4K monitors and CG279X include a Gamut Warning preset. When selected, the areas of a BT.2020 image that cannot be reproduced using BT.709 are clearly indicated by converting them to shades of gray. An additional mode called BT.709 Clipping (Rec. 709 Clipping for 4K models) allows the editor to view BT.2020 images with the BT.709 color space, simulating how it would look to their audience in an HDTV environment.

### True Black Display

In compliance with the DCI standard, the CG319X, CG247X, CG2730, and CG2420 offer a high contrast ratio of 1500:1 and CG279X a contrast ratio of 1300:1 for producing true blacks that are otherwise difficult to display on a typical LCD monitor. The CG Series is also equipped with a retardation film which allows tones to retain their depth even when viewed from an angle.

*Contrast ratios refer to typical values when DUE Priority is set to “Brightness”.

### Multiple Preset Color Modes

CG Series monitors provide quick access to several broadcast-standard preset color modes via a button on the front of the monitor such as BT.2020 EBU, SMPTE-C, and DCL. 4K models also include a preset mode for BT.2020. In addition, CG Series monitors* are equipped with HDR modes for both HLG and PQ gamma curves.

*Not available with the CG2730 or CG2420.

### True HDR

HDR (High Dynamic Range) is a range that approximates the human perception of color and light as content is shown on a display device. The ColorEdge PROMINENCE CG3145 achieves the 1000 cd/m² high brightness level (typical) needed for HDR content display. It also offers a typical contrast ratio of 1,000,000:1 for displaying true blacks.

### HDR Workflow

In addition to the ColorEdge PROMINENCE CG3145 HDR reference monitor, EIZO offers HLG (Hybrid Log-Gamma) and PQ (Perceptual Quantization) curves for many of its current CG Series monitors. The optimized gamma curves render images to appear more true to how the human eye perceives the real world compared to SDR (standard dynamic range).

### I/P Conversion for Flicker-Free Display

The HDMI input of ColorEdge monitors supports I/P (interlace/progressive) conversion for converting the interface signals from TV and into progressive signals for flicker-free display.
**ColorEdge CG Series Features**

For Media and Entertainment

**Network Color Management Software**

**ColorNavigator Network**

ColorNavigator Network provides centralized quality control of ColorEdge CG Series monitors that have ColorNavigator 7 or NetAgent installed. ColorNavigator Network is hosted on a secure cloud server. An administrator can set the color modes, schedule self-calibration, activate key lock to prevent unintended changes to color settings, register or adjust asset management settings, and import/export monitor settings.

**Sleek, User-Friendly Design**

**Slimmer Bezels**

The slim cabinet design features unobtrusive frames so you can focus more on the screen. Compared to the previous model, CS2420’s bottom bezel is about 59% slimmer.

**Seamless Electrostatic Switches**

The flat design uses electrostatic switches on the front bezel in place of traditional buttons for seamless access to the monitor settings.

**Built-In Handle for Easy Carrying**

A carrying handle on the back of the monitors allows you to easily move them from one location to another. The weight of both monitors has been reduced significantly compared to the previous model to make them even easier to carry.

**Easy-Access USB Ports**

The monitors are equipped with three easy-to-access USB 3.0 ports, including one port for battery charging devices such as a smartphone.

**Single Cable Connection with USB Type-C**

The CS2731 is the first in the ColorEdge lineup to feature USB Type-C connectivity with 60 W power delivery. Simply plug in and get creative without worrying about additional cable clutter.

**Benefits**

1. **Work Efficiency**
   - Significantly reduce your workload and annual maintenance costs.

2. **Remote Color Management**
   - Unity color display on all ColorEdge monitors within your organization, even those that are located in other cities or countries.

3. **Asset Management**
   - Smoothly manage assets from a single PC.

**ColorNavigator Network**

ColorNavigator Network makes managing multiple monitors on a network simple and efficient.

**Quick Color Match**

Use the CS Series with Quick Color Match software to easily achieve accurate prints. See page 13 for details.
### Specifications

**Panel**

<table>
<thead>
<tr>
<th>Panel Type</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness (Nits)</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
</tr>
<tr>
<td>Response Time (ms)</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>Contrast</td>
<td>1000:1</td>
<td>1000:1</td>
<td>1000:1</td>
<td>1000:1</td>
<td>1000:1</td>
</tr>
</tbody>
</table>

**Operating Environment**

<table>
<thead>
<tr>
<th>Environmental Parameters</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>0 - 30 °C</td>
<td>0 - 30 °C</td>
<td>0 - 30 °C</td>
<td>0 - 30 °C</td>
<td>0 - 30 °C</td>
</tr>
<tr>
<td>Humidity (Relative)</td>
<td>20 - 80%</td>
<td>20 - 80%</td>
<td>20 - 80%</td>
<td>20 - 80%</td>
<td>20 - 80%</td>
</tr>
</tbody>
</table>

**Power Specifications**

<table>
<thead>
<tr>
<th>Power Source</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (AC)</td>
<td>100 - 120 V, 50 / 60 Hz</td>
<td>100 - 120 V, 50 / 60 Hz</td>
<td>100 - 240 V, 50 / 60 Hz</td>
<td>100 - 240 V, 50 / 60 Hz</td>
<td>100 - 240 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Current (AC)</td>
<td>0.6 W or less</td>
<td>0.6 W or less</td>
<td>0.6 W or less</td>
<td>0.6 W or less</td>
<td>0.6 W or less</td>
</tr>
</tbody>
</table>

**Input Terminals**

<table>
<thead>
<tr>
<th>Input Terminal</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayPort</td>
<td>× 2 (HDCP 1.3)</td>
<td>× 2 (HDCP 1.3)</td>
<td>× 2 (HDCP 1.3)</td>
<td>× 2 (HDCP 1.3)</td>
<td>× 2 (HDCP 1.3)</td>
</tr>
<tr>
<td>HDMI</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
</tr>
</tbody>
</table>

**Display Specifications**

<table>
<thead>
<tr>
<th>Display Specifications</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>2560 × 1440 (16:9 aspect ratio)</td>
<td>2560 × 1440 (16:9 aspect ratio)</td>
<td>2560 × 1440 (16:9 aspect ratio)</td>
<td>2560 × 1440 (16:9 aspect ratio)</td>
<td>2560 × 1440 (16:9 aspect ratio)</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>16:9</td>
<td>16:9</td>
<td>16:9</td>
<td>16:9</td>
<td>16:9</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>0.233 × 0.233 mm</td>
<td>0.233 × 0.233 mm</td>
<td>0.233 × 0.233 mm</td>
<td>0.233 × 0.233 mm</td>
<td>0.233 × 0.233 mm</td>
</tr>
</tbody>
</table>

**Input Terminals**

<table>
<thead>
<tr>
<th>Input Terminal</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>DisplayPort</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
</tr>
<tr>
<td>HDMI</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
<td>× 2</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions (Portrait, W x H x D)</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width x Height x Depth</td>
<td>482 W x 344.5 H x 94.5 D mm</td>
<td>482 W x 344.5 H x 94.5 D mm</td>
<td>698 W x 368.1 H x 29.5 D mm</td>
<td>698 W x 368.1 H x 29.5 D mm</td>
<td>698 W x 368.1 H x 29.5 D mm</td>
</tr>
</tbody>
</table>

**Weight**

<table>
<thead>
<tr>
<th>Weight</th>
<th>CS1290*</th>
<th>CS1290*</th>
<th>CS1270*</th>
<th>CS1270*</th>
<th>CS1270*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>9.7 kg</td>
<td>9.7 kg</td>
<td>9.7 kg</td>
<td>9.7 kg</td>
<td>9.7 kg</td>
</tr>
<tr>
<td>Monitor Hood</td>
<td>5.7 kg</td>
<td>5.7 kg</td>
<td>5.7 kg</td>
<td>5.7 kg</td>
<td>5.7 kg</td>
</tr>
<tr>
<td>Total</td>
<td>15.4 kg</td>
<td>15.4 kg</td>
<td>15.4 kg</td>
<td>15.4 kg</td>
<td>15.4 kg</td>
</tr>
</tbody>
</table>

---

* Specifications are subject to change without notice. **Depicts default Elsa FreeSta software. "FreeSta" was used for the lower limit of measuring power. 

---