



CG2420

Your advantages



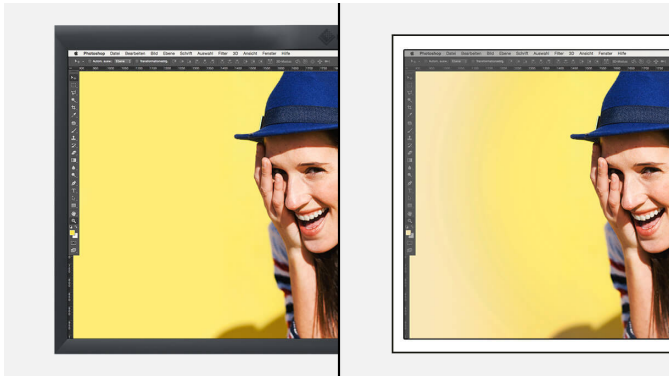
The EIZO CG2420 impresses by operating on a simple principle: It shows things as they are. This is done by the EIZO microprocessor, which was specifically developed for precise color reproduction and calibration. The excellent electronics of the CG2420 make optimum use of the wide gamut LCD's potential. The device covers 99% of the Adobe RGB gamut. The ColorEdge screen displays the finest textures and color nuances and differentiates them from one another. The screen's integrated calibration sensor is perfectly calibrated to the screen and ensures that it displays the right hues. Scheduling makes it possible to carry out fully automatic calibration overnight or during the weekend. This way, the CG2420 is always 'freshly' calibrated and continually displays the desired colors – just as they are.

- ✓ Wide gamut LCD with LED technology, contrast 1,500:1, brightness 400 cd/m²
- ✓ 99% Adobe RGB and 98% DCI-P3 color range
- ✓ Integrated measurement device and fully automatic self-calibration
- ✓ Precise hardware calibration of brightness, white balance, and gamma
- ✓ Digital Uniformity Equalizer for perfect luminance distribution and color purity
- ✓ Color precision with 16-bit look-up-table and up to 10-bit color reproduction
- ✓ Temperature-controlled adjustment of color drift and brightness
- ✓ DisplayPort, DVI-D, and HDMI ports
- ✓ ColorNavigator calibration software and light protection shields included in delivery

Features

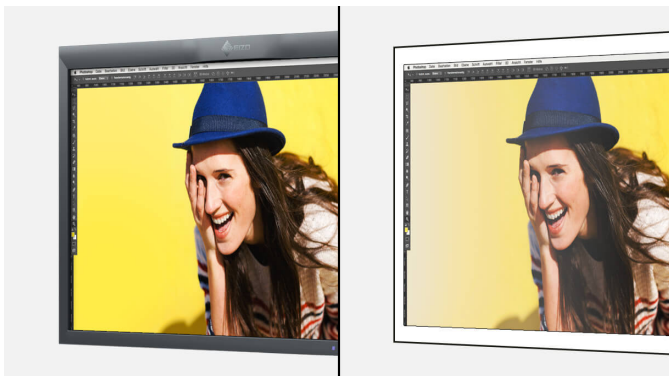
Excellent image quality for sharp images

The screen has an impressive contrast ratio of 1500:1 and a brightness of 350 cd/m². The LCD panel with IPS (wide gamut) technology enables a viewing angle of 178 degrees, ensuring that hues and contrast remain stable for the viewer.



EIZO monitor

Conventional monitor



EIZO monitor

Conventional monitor

EIZO microchip for optimized color reproduction



The CG2420 has a high-quality microchip (ASIC, Application-Specific Integrated Circuit), which EIZO has developed specifically for the special requirements of color-proof work. Thanks to their own algorithm, EIZO ASICs ensure a precise, uniform, and constant color display.

Exact color reproduction ex works

Brightness levels in relation to the image signal vary from module to module in LCDs and therefore the color mixture of red, green, and blue also varies. This can be exactly determined and controlled only with the aid of specific measuring devices. Therefore, EIZO configures the CG2420 and its colors and tone curves

with a widespread network of grid points and in each primary color. This results in a consistent color temperature over the entire gray scale.



Wide gamut – ideal for RAW images and prints

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



Adobe RGB



sRGB

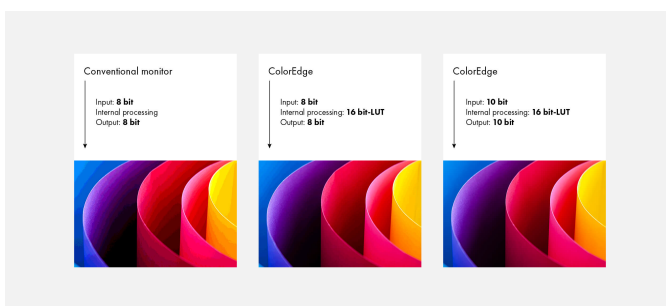
Constant tone value over the entire screen

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

Features

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

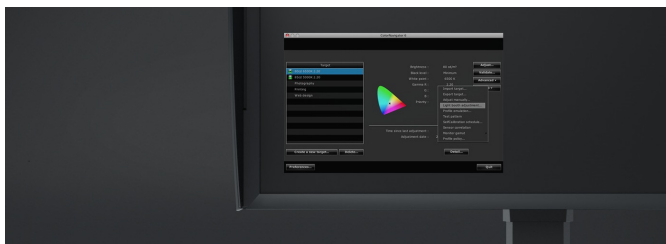
Thanks to the 10 bit color display based on a 16 bit LUT, you can utilize a huge color spectrum. This is made possible by the rapid DisplayPort and HDMI connections in combination with the frame rate control. A billion colors at your fingertips simultaneously. That is 64 times more colors than with an 8 bit display. The color gradations are finer and the color differences between adjacent colors are smaller. The enhanced grayscale range is equally important for post-production. With the 10 bit grayscale range activated, between 6% and 14% more grayscales are visible.



8 bit and 10 bit display

Exact and fast hardware calibration

Calibration becomes quick, easy, and color accurate with the ColorNavigator software: Calibration is accessed and stored directly on the look-up table in the monitor's hardware during calibration. You determine the corresponding components such as white point, gamma, brightness, and tone curve according to your needs. The calibration is then fully automatic and based on the factory adjustment and is therefore unique in terms of precision and speed.

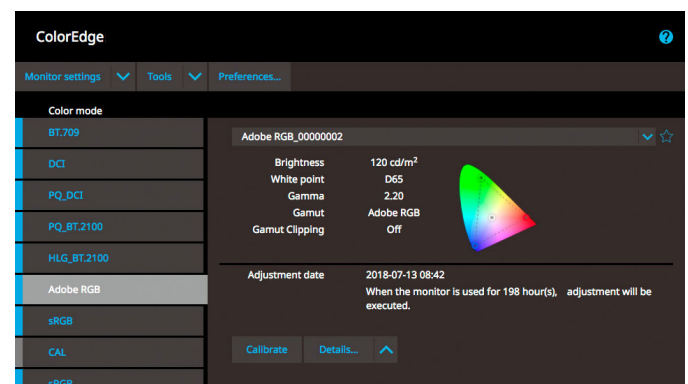


Professional hardware calibration

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 CG2420 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-

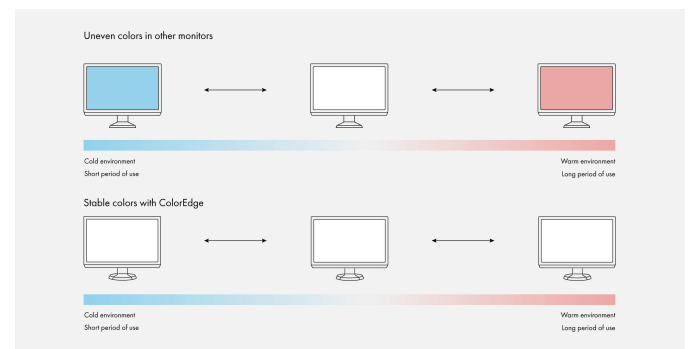
table in the monitor hardware. You determine the relevant components such as white balance, gamma, brightness, and tone value curve according to your requirements. Calibration then runs automatically based on the default set during production and is therefore unique in terms of precision and speed. This 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 CG2420 can also be smoothly integrated into an existing system.

More about ColorNavigator



Stable brightness, no color deviation

The alpha and omega for exact image editing: constant brightness and color temperature. Patented electronics balance out brightness fluctuations that may arise due to extended periods of use and increased environmental and operating temperature. Thanks to a built-in thermometer, color deviations caused by fluctuations in room temperature are eliminated and automatically reduced. The color rendering remains absolutely constant over a long period of use, right from the start: because the warm-up time until brightness, color, and tone values have completely stabilized is just seven minutes. That is a quarter of the time normally required.



Features

Integrated sensor for self-calibration

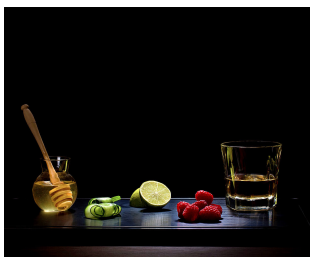
An integrated calibration sensor ensures you achieve maximum colour accuracy. The sensor is perfectly aligned to the monitor, takes environmental influences such as light into account, and correlates the centre of the image with the edge of the image. This ensures an even result over the whole monitor. 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. The CG2420 is equipped with the latest sensor technology that enables recalibration during normal operation, allowing you to continue working with non-colour-critical applications while the monitor is calibrating. During calibration, the sensor only takes up a small area of the screen and does not present an obstacle. Calibration can also be performed fully automatically at definable times.



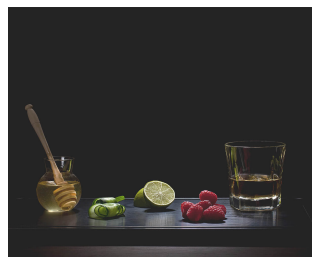
It does not get any simpler than this: You can use the ColorNavigator software or the on-screen menu to determine when you want monitor calibration to take place automatically. For example, you can schedule calibration to take place during your lunch break or overnight, with no PC connection required.

True Black: Colour depth for plastic images

With its high contrast ratio, the CG2420 clearly reproduces deep black tones that can often appear pale or washed out on a typical LCD monitor due to the backlighting. This happens in



ColorEdge monitor



Conventional monitor

particular when the monitor is viewed from the side in weakly lit rooms. The CG series is therefore equipped with a retardation

film, which enables this depth of black tones even at a larger viewing angle.

Suitable for softproofing

The EIZO CG2420 fulfills strict softproof requirements based on the draft ISO/CD 12646 standard. Fogra Forschungsgesellschaft Druck



e.V. came to that conclusion in the course of testing the monitor. The CG2420 was therefore awarded the Fogra "FograCert Softproof Monitor" seal of quality. You will therefore be working on a tested, color-proof monitor.

Ideal for video and film production: HDMI

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

The HDMI signals support refresh rates of 60, 50, 30, 25, and 24 Hz. the monitor also supports I/P conversion.

Quick operation – even in dark rooms

Operation is easy and clear. The Button Guide, an overview function on the monitor, will show you the respective function keys above the control panel. The backlight keys mean that the monitor can even be used in dark environments. This is particularly helpful in dark post-production studios.



Flicker-free working

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

Features

Perfect anti-reflection coating

The IPS panel has optimal anti-reflection coating. Glare from the spread of the reflected light is minimized. This also protects your eyes from excess strain. In addition, this means the monitor provides a wide viewing angle without annoying reflections. This is particularly advantageous when several people are sitting in front of the screen.



Protection against glare thanks to the 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.



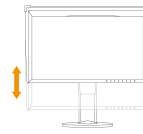
One monitor, many ports

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

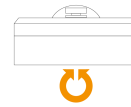
Ergonomic and stable: the adjustable base

The CG2420 has a flexible base to adjust the height, tilt, and rotation and supports both portrait and landscape use. The moni-

tor can be tailored to the user's needs. For example, he can set a sitting position that is ergonomic for him (e.g. lowered to the bottom) or a position to show clients and colleagues something on the screen.



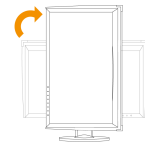
155 mm



172°



Tilt up 35°, tilt down 5°n]]]°



Rotation 90° clockwise

Five-year warranty

In addition to the high demands placed on production and materials, EIZO also places the emphasis on quality assurance in all areas.



Color and brightness warranty

The monitor has a color and brightness warranty from the purchase date for a maximum of 10,000 hours of operation at a maximum brightness of 120cd/sq m and a color temperature of between 5,000 and 6,500 K.



Specification

General

| | |
|--------------|-----------------------------|
| Item no. | CG2420 |
| Case colors | Black |
| Solutions | Photography, design & media |
| Product line | ColorEdge |
| EAN | 4995047048084 |

Display

| | |
|---|--|
| Screen size [in inches] | 24.1 |
| Screen size [in cm] | 61 |
| Format | 16:10 |
| Viewable image size (width x height) | 518.4 x 324 |
| Ideal and recommended resolution | 1920 x 1200 |
| Pixel Pitch Horizontal [mm] | 0.27 x 0.27 |
| Resolution Supported | 1920 x 1200, 480i (@ 60 Hz), 480p (@ 60 Hz), 1080i (@ 60 Hz), 720p (@ 60 Hz), 1080p (@ 60 Hz), 1200p (@ 60 Hz), 576i (@ 50 Hz), 576p (@ 50 Hz), 1080i (@ 50 Hz), 720p (@ 50 Hz), 1080p (@ 50 Hz), 1080p (@ 30/25/24 Hz), 1200p (@ 50 Hz) |
| Panel technology | IPS (Wide Gamut) |
| Max. viewing angle horizontal | 178 ° |
| Max. viewing angle vertical | 178 ° |
| Number of colors or grayscale | 1.07 billion colors (display port, 10 Bit), 1.07 billion colors (HDMI, 10 Bit), 16.7 million colors (display port, 8 Bit), 16.7 million colors (HDMI, 8 Bit), 16.7 million colors (DVI, 8 Bit) |
| Max. color space | AdobeRGB (>99%), DCI P3 (>98%), sRGB (100%), ISO Coated V2 (99%), Rec709 (100 %), EBU (100 %), SMPTE-C (100 %) |
| Max. brightness (typical) [in cd/m²] | 400 |
| Recommended brightness [in cd/m²] | 120 |
| Max. dark room contrast (typical) | 1500:1 |
| Typical response time [gray/gray alternation] | 10 ms |
| Max. refresh rate [in hertz] | 60 |
| Backlight | LED |

Features

| | |
|---|---|
| Hardware calibration of brightness, white point, and gamma correction | ✓ |
| Integrated sensor for self-calibration | ✓ |
| Scheduler function for self-calibration | ✓ |
| Color palette / look-up table | 278 trillion color tones / 16 Bit |
| Temperature color drift correction | ✓ |
| Brightness drift correction | ✓ |
| Digital Uniformity Equalizer | ✓ |
| True Black | ✓ |
| Safe Area Marker (HDMI) | ✓ |
| I/P conversion (HDMI) | ✓ |
| Signal range amplifier (HDMI) | ✓ |
| Noise suppression (HDMI) | ✓ |
| Color Blindness Simulation | ✓ |
| HDCP Decoder | ✓ |
| Gamut Clipping | ✓ |
| Preset color/grayscale modes | Adobe RGB, sRGB, Paper, Calibration, 1x free mode for user selection |
| OSD language | de, en, fr, es, it, se, ja, zh |
| Adjustment options | Brightness, Contrast, Gamma, Color saturation, Gain, 6 Colors, Image size, Input Color Format, Input Range, Signal Detection, Menu Rotation, Noise Reduction, Color temperature, Gammut clipping, FineContrast, Colour tone, Signal input, OSD language, DUE priority |
| Button Guide | ✓ |
| Signal inputs | DisplayPort, DVI-D, HDMI |
| Video Signal | DisplayPort, DVI (TMDS), HDMI (YUV, RGB) |
| Input Signal Identification | ✓ |
| USB hub | 1 Up-/ 3 Down-Stream, Rev. 3.0 |

Electric data

| | |
|---------------------------------------|------------------------------------|
| Power consumption (typical) [in watt] | 20.00 |
| Maximum Power Consumption [in watt] | 79 |
| Power Save Mode [in watt] | 0.60 |
| Power Consumption Off [in watt] | 0 |
| Energy-efficiency class | A |
| Annual Energy Consumption [in kWh] | 33 |
| Power Supply | AC 100-120 V / 200-240 V, 50/60 Hz |
| Power Management | DVI-DMPM, DisplayPort Version 1.1a |
| Integrated power unit | ✓ |

Dimensions & Weights

| | |
|--------------------------------|----------------------------|
| Dimensions [mm] | 554 x 396-551 x 245 |
| Weight [in kilograms] | 8 |
| Swivel (right/left) | 172 ° |
| Incline forward/backward | 5 ° / 35 ° |
| Pivot | ✓ |
| Height Adjustment Range [mm] | 155 |
| Hole Spacing | VESA standard 100 x 100 mm |

Certification & Standards

| | |
|---------------|--|
| Certification | CE, TÜV/GS, TÜV/Ergonomics, CB, eTÜVus, FCC-B, ICAN ICES-003-B, VCCI-B, C-Tick, RoHS, WEEE, GOST-R, ISO 9241-307 Pixel fault class 1** |
|---------------|--|

Software & Accessories

| | |
|---|---|
| Accompanying software and other accessories are available for download or on a CD | ColorNavigator, ColorNavigator NX (as a download), ColorNavigator Network (upon request) |
| Additional Supply | Power cord, Signal cable DVI-D - DVI-D, Signal cable Mini DisplayPort - DisplayPort, USB 3.0 cable, Quick guide, EIZO LCD Utility Disk (incl. PDF manual), Calibration certificate, EIZO ScreenCleaner, Light protection cover, ICC color profile |
| Accessory | EIZO ScreenCleaner (for the best possible clean without scratching the monitor), HH200HS-K (HDMI (High Definition Multimedia Interface) cable to transfer digital video and audio signals.) |

Warranty

| | |
|----------------------|----------|
| Warranty and service | 5 years* |
|----------------------|----------|

Terms

*) The length of the warranty for the LCD module is five years from the date of purchase or 30,000 operating hours, depending on which happens sooner. In addition, the warranty includes the normal wear and tear of the backlight if it is operated at a recommended brightness of 120 cd/sq m and a white point of 5,000 K to 6,500 K. EIZO guarantees this brightness for a term of 3 years from the date of purchase or for 10,000 operating hours, depending on which happens sooner.
 **) Zero pixel error guarantee for completely lit sub-pixels (partial pixels ISO 9241-307). Valid: six months from the purchase date.