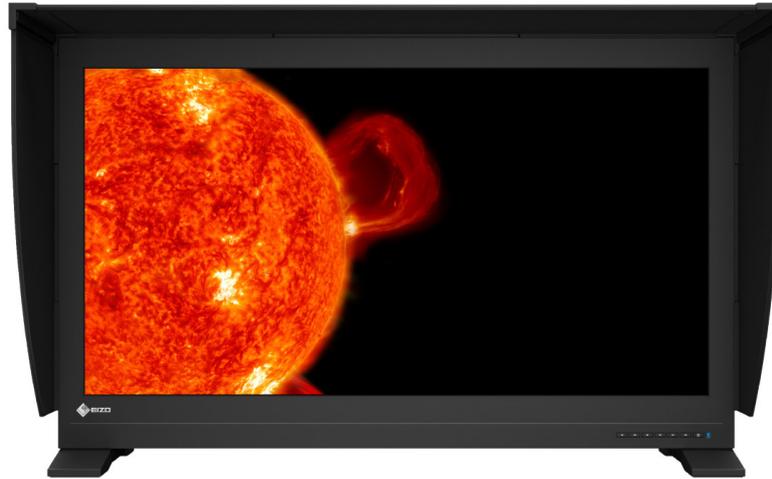


HDR
High Dynamic Range

CG3145

Your advantages

5
YEARS WARRANTY

The ColorEdge PROMINENCE CG3145 achieves a (typical) brightness of 1.000 cd/qm and offers a (typical) contrast ratio of 1.000.000:1. This makes the 31-inch reference model ideally suited for colour grading HDR content. The ColorEdge PROMINENCE CG3145's dual-layer LCD panel with 4.096 x 2.160-pixel DCI 4K resolution panel allows the very bright backlighting (1.000 cd/qm) to be extremely effectively covered, rendering both ABL and local dimming unnecessary. This enables the ColorEdge PROMINENCE CG3145 to deliver an unmatched level of precision and contrast when displaying images. Thanks to the HLG and PQ gamma curves, the ColorEdge PROMINENCE CG3145 meets the relevant standards for professional HDR post-production. It is also able to work with a wide range of formats, including 10-bit 4:2:2 at 50/60p via HDMI and 10-bit 4:4:4 at 50/60p via DisplayPort. 98% of the DCI-P3 gamut is covered, and absolutely smooth colour gradations are also guaranteed in 10-bit mode, thanks to the 10-bit native panel and 24-bit LUT. A light protection shield is included standard with all CG series ColorEdge monitors.

- ✓ HDR reference monitor with 31.1-inch (78.9-cm), 10-bit LCD panel, contrast 1.000.000:1, brightness 1.000 cd/m²
- ✓ DCI 4K, more than 4x Full HD resolution
- ✓ Large colour gamut with 99% DCI P3 and >97% AdobeRGB colour range
- ✓ Colour precision with 3D look-up table (LUT) with 24-bit for precise hardware calibration of brightness, white balance, and gamma
- ✓ Digital Uniformity Equaliser for perfect luminance distribution and colour purity
- ✓ Extensive compatibility with a wide range of formats, including 10-bit 4:2:2 at 50/60p via HDMI, up to 10-bit 4:4:4 at 50/60p via DisplayPort, as well as via HLG and PQ gamma curves

Features

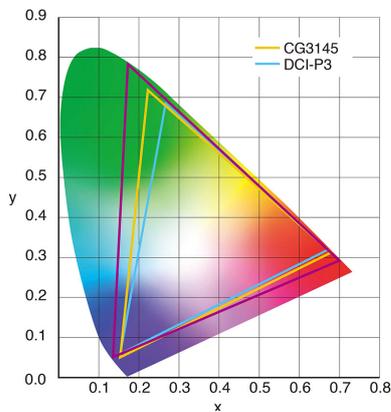
DCI 4K Resolution

The ColorEdge PROMINENCE CG3145 features DCI 4K resolution (4096 x 2160), which corresponds to a much higher pixel density than Full HD (1920 x 1080). This makes the HDR reference monitor the ideal tool for post-production.



Wide Gamut

Wide Gamut ensures that the two most common gamuts in post-production are covered: 99% of the DCI-P3 gamut and 80% of Rec.2020. In this way, colors are reliably displayed in accordance with industry requirements.



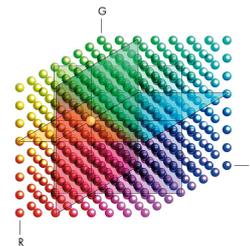
10-bit Colour Depth

With 10-bit colour depth based on a 24-bit LUT, the ColorEdge PROMINENCE CG3145 delivers more than a billion colors

simultaneously. The colour gradations are finer and the distances between adjacent colors (delta E) are lower.

Precise colour rendering thanks to high-resolution 3D look-up table

The 3D LUT provides for the most precise tone value allocation possible and extremely exact colour tone rendering, which is shown amongst other things in the grey scale. Brightness levels in relation to the image signal vary from module to module in LCDs and the colour mixture (addition) of red, green, and blue also varies. This can be exactly determined and controlled only with the aid of specific measuring devices. EIZO therefore configures all of its monitors in the CG series and its colors and tone value curve in the factory. This results in a consistent colour temperature over the entire grey scale. The result: The colour reproduction is equal, precise, and reliable across each individual CG3145 monitor.



The 3D look-up table also has the following benefits when working with films: Thanks to the ColorNavigation software included, you can emulate the colors of film material. This means you can see how the image will look when it is played. The 3D LUT also improves the additive mixture of colour in the monitor (mixture of red, green, and blue). This is a key factor for displaying neutral grey tones correctly.

Constant tone value over the entire screen

Digital Uniformity Equaliser (DUE) controls all tone values over the entire monitor, pixel by pixel. The effect: colour 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 colour temperature and brightness. You will enjoy consistently even luminance distribution and perfect colour purity. A real plus when touching-up images.

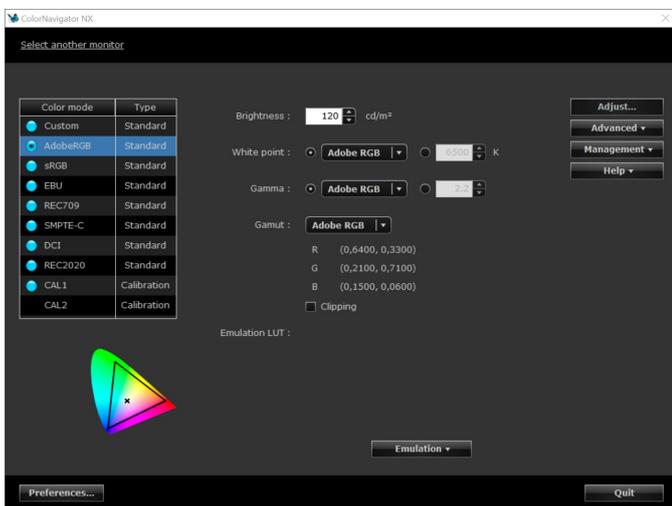
Features

Colour Management

"The ColorEdge PROMINENCE CG3145 supports the ColorNavigator NX quality control software from EIZO. ColorNavigator NX offers functionalities for client-side quality control and asset management of ColorEdge monitors. You can use this software to assign individual values – for brightness, white balance, or gamma settings, for instance – to specific projects, even if the values differ from the preset colour mode. This calibration information is stored directly in the monitor.

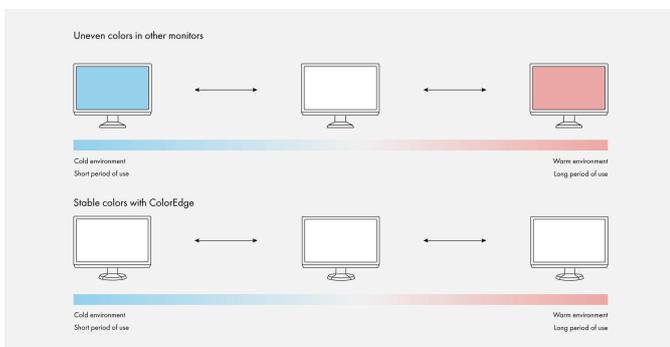
ColorNavigator NX offers functionalities for quality control and asset management of ColorEdge monitors.

More about ColorNavigator NX



Stable brightness, no colour deviation

The alpha and omega for exact image editing: constant brightness and colour 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, colour deviations caused by fluctuations in room temperature are eliminated and automatically reduced. The colour rendering remains absolutely constant

over a long period of use, right from the start: because the warm-up time until brightness, colour, and tone values have completely stabilized is just seven minutes. That is a quarter of the time normally required.

Port and Video Compatibility

Thanks to the HLG and PQ gamma curves, the ColorEdge PROMINENCE CG3145 meets the relevant standards for professional HDR post-production. **It is also able to work with a wide range of formats**, including 10-bit 4:2:2 at 50/60p via HDMI and 10-bit 4:4:4 at 50/60p via DisplayPort.

For Film production: 3D LUT Profiles

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

Quick Operation

Operation is simple and clear. The button guide, a functional overview on the monitor, clearly indicates the function of the respective button on the control panel. Thanks to the backlit buttons, the monitor can even be operated in dark environments. This is particularly helpful in dark post-production studios.

Frequently used commands or setting options can be individually assigned to two function buttons. If, for example, you assign a specific gamut to a function button, you can quickly and easily alternate between two gamuts at the touch of a button. There are ten of these shortcut options available in total.



Gamut Presets

Presets for the standard gamuts Rec. 2020, Rec. 709, DCI, PQ-Rec. 2100, PQ-Rec. 709, PQ-DCI, and HLG-Rec. 2100 are preinstalled. Users can directly, quickly switch between them at the touch of a button on the monitor.



Features

Exact colour reproduction – factory calibration

With LCD panels, the image display can vary from module to module. That is why each ColorEdge monitor is precisely measured and calibrated in the factory. The gamma curves for the red, green and blue channels are tested according to strict parameters and corrected if necessary. This unique EIZO factory calibration enables the user to start using the monitor with the preset gamut right out of the box. In addition, the factory calibration allows the user to quickly recalibrate the monitor if needed using ColorNavigator.



Safely in sight thanks to the safe area marker

Ideal for captions and critical images: Thanks to the safe area marker, you will know which area of the screen is displayed on another output device. You will therefore see immediately whether subtitles, text, or other important image elements are in the visible area. So that the marker can be clearly seen in all images, you can change the marker colour.



4K Zoom

Users can quickly and easily make selections directly in the monitor menu to zoom in on various areas of the monitor image so as to assess details and sharpness.



Aspect Marker

The Aspect Marker enables the display of DCI 4k image areas (4096 x 2160 pixels) or 2K video material (2048 x 1080 pixels) that are displayed in varying ways when reproduced on different devices with differing aspect ratios.

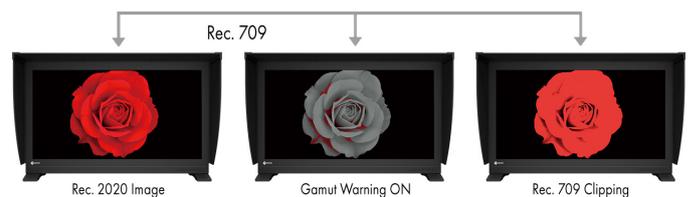
Luminance Warning

The Luminance Warning allows areas that exceed a certain brightness (300, 500, 1000, or 4000 cd/m²) when PQ mode is used to be highlighted. These areas can be highlighted in the user's choice of yellow or magenta.



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 greyscale. Alternatively, clipping mode is simulated in Rec. 709 to show how Rec. 2020 material would look on HDTV devices.



Features

For the eyes: flicker-free work

To help protect your eyes, EIZO has developed a hybrid technology to control the backlight. This combines the benefits of the otherwise standard PWM (pulse width modulation) and DC (direct current) control. The PWM control uses much higher frequencies than standard PWM methods. The result: a flicker-free viewing experience. Flickering is reduced down to absolute freedom from flickering, without impairing image quality or colour stability.

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.



Five-year Warranty

EIZO provides a five-year warranty (repair in the service centre). This is made possible by a highly developed manufacturing process, which derives its success from one straightforward principle: innovative and sophisticated monitor technology manufactured from high-quality materials. The warranty also covers the LCD panel itself, for a duration of 10000 hours of monitor usage time.



Colour and Brightness Guarantee

From the date of purchase, the monitor is covered by a colour and brightness guarantee for up to 10.000 hours of monitor usage time at a maximum brightness of 800 cd/qm and a colour temperature of 6.500 K.



Specification

General

Item no.	CG3145
Case colors	Black
Solutions	Photography, design & media
Product line	ColorEdge
EAN	4995047051473

Display

Screen size [in inches]	31.1
Screen size [in cm]	78.9
Format	17:9
Viewable image size (width x height)	698 x 368.1
Ideal and recommended resolution	4096 x 2160 (4K)
Pixel Pitch Horizontal [mm]	0.17 x 0.17
Resolution Supported	4096 x 2160 (4K), 3840 x 2160 (4K UHD), 2560 x 1440, 1920 x 1200, 1920 x 1080 (Full HD), 1600 x 1200, 1680 x 1050, 1280 x 1024, 1024 x 768, 800 x 600, 720 x 400, 640 x 480, 1080p (@ 60 Hz), 1080i (@ 60 Hz), 576p (@ 60 Hz), 480i (@ 60 Hz), 720p (@ 60 Hz), 1080p (@ 50 Hz), 1080i (@ 50 Hz), 720p (@ 50 Hz), 576p (@ 50 Hz), 1080p (@ 30/25/24 Hz), 2560 x 1440 (@ 30 Hz)
Panel technology	IPS (Wide Gamut, 10 Bit)
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. colour space	sRGB (100%), Rec709 (100%), AdobeRGB (>97%), DCI P3 (99%)
Max. brightness (typical) [in cd/m ²]	1000
Max. dark room contrast (typical)	1000000:1
Backlight	LED

Electric data

Power consumption (typical) [in watt]	267
Maximum Power Consumption [in watt]	472
Power Save Mode [in watt]	1.2
Power Consumption Off [in watt]	0
Annual Energy Consumption [in kWh]	146
Power Supply	AC 100-120 V / 200-240 V, 50/60 Hz
Integrated power unit	✓

Dimensions & Weights

Dimensions [mm]	757 x 488 x 236.5
Weight [in kilograms]	25.8
Dimensions Without Stand [mm]	757 x 463 x 138.5
Weight Without Stand [in kilograms]	24.4

Certification & Standards

Certification	CB, CE, TÜV/GS, cTÜVus, FCC-B, CAN ICES-3 (B), TÜV /S, PSE, VCCI-B, BSMI, RCM, RoHS, TÜV/Ergonomics, TÜV/Colour Accuracy (Quick Stability), EEE, EAC, CEL Grade 3
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Software & Accessories

Accompanying software and other accessories are available for download or on a CD	ColorNavigator NX, ColorNavigator Network (upon request)
Additional Supply	Power cord, Signal cable DisplayPort - DisplayPort, Signal cable Mini DisplayPort - DisplayPort, USB 3.0 cable, Quick guide, Light protection cover, EIZO ScreenCleaner, Signal cable HDMI - HDMI
Accessory	EIZO ScreenCleaner (for the best possible clean without scratching the monitor)

Features

Hardware calibration of brightness, white point, and gamma correction	✓
Color palette / look-up table	More than 278 trillion colour tones / 24 Bit 3D-LUT
Temperature colour drift correction	✓
Digital Uniformity Equalizer	✓
Overdrive	✓
True Black	✓
3D LUT film emulation (10 bit log)	✓
Safe Area Marker (HDMI)	✓
I/P conversion (HDMI)	✓
Signal range amplifier (HDMI)	✓
Noise suppression (HDMI)	✓
RGB and CMYK colour space emulation	✓
HDCP Decoder	✓
Gamut Clipping	✓
Preset colour/greyscale modes	Rec. 2020, Rec. 709, DCI, PQ REC2100, PQ REC709, PQ DCI, HLG REC2100, CAL1, CAL2, CAL3
OSD language	de, en, fr, es, it, se, ja, zh
Adjustment options	Signal colour system, Signal range, HDMI settings (noise reduction, film recognition), Signal information, Colour settings (brightness, white balance, gamma, HLG system gamma, gamut, colour intensity, colour saturation, clipping, XYZ format, gain, black level, 6-axis colour control, reset), Image format (full screen, aspect ratio, dot by dot), Zoom, REC709 gamut warning, Brightness warning, Markers (safe area marker, safe area size, format marker, format adjustment, bezel colour), Automatic signal input recognition, Skip signal input, Skip colour mode, Assignment of keys, Monitor reset, USB charger, Indicator, Custom Key
Button Guide	✓
Signal inputs	2x DisplayPort (HDCP 1.3), 2x HDMI (Deep Colour, HDCP 2.2/1.4)
Video Signal	DisplayPort, HDMI (YUV, RGB)
Input Signal Identification	✓
USB hub	1 Up-/ 3 Down-Stream, Rev. 3.0

Warranty

Warranty and service	5 years (repair in the service centre) * **
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Terms

* The length of the warranty for the LCD module is 5 years from the date of purchase or 10000 operating hours, depending on which happens sooner. EIZO guarantees a brightness of 800 cd/sq m and a white point of 6500 K for a term of 3 years from the date of purchase or for 10000 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.