ColorEdge **CG2700S**



The ColorEdge CG2700S stands for uncompromising precision for creatives with the highest demands. The integrated calibration sensor enables fully automatic calibration of the 16-bit 3D look-up table. The True Black panel has a maximum brightness of 400 cd/m² and the pre-installed HDR pre-sets make the CG2700S particularly suitable for the post-production of HDR video content. The Fogra certification confirms the CG2700S is also optimally equipped for the requirements of prepress. The numerous connections also include a USB-C port and a LAN port. This makes the CG2700S ideal for use with mobile high-performance computers, which can be conveniently connected with just a single cable. Image and data signals can then be transmitted through this cable - at the same time, the laptop can be charged with up to 92 watts. The integrated USB hub, HDMI and DisplayPort connections as well as the supplied light protection cover round off the impressive features of the CG2700S.

- 27-inch Wide Gamut LCD with 2560 x 1440 pixels (WQHD)
- Wide colour gamut with 99% AdobeRGB and 98% DCI-P3 colour space coverage
- Integrated sensor for fully automatic self-calibration
- 400 cd/m² maximum brightness, contrast 1600:1 thanks to True Black technology
- 10-bit display, 16-bit 3D look-up table
- Digital Uniformity Equalizer for perfect luminance distribution and colour purity
- HDR targets for HDR-HLG and HDR-PQ-EOTF
- USB-C (DisplayPort signal and up to 92 Watt Power Delivery), DisplayPort and HDMI inputs
- RJ-45 LAN port, USB hub with four USB downstream ports, two of which are 5Gbps (USB 3) and two USB 2
- 5-year warranty for highest investment security

Precision and and color accuracy

High-contrast, bright and crisp screen

Outstandingly sharp image quality

The monitor has an impressive top resolution (2560 x 1440), a very good contrast ratio of 1600:1 and a brightness of 400 cd/m². For example, you can edit graphics and images down to the pixel. As an added benefit, text contours are clear and precise. The LCD panel with the IPS (Wide Gamut) panel allows for a viewing angle of 178 degrees. Ensuring that hue and contrast remain stable for the viewer.



FOR SATURATED COLORS

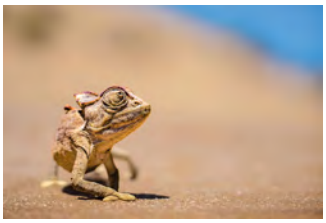
Wide gamut color space

To be able to use the entire colour spectrum of modern cameras, you need a monitor with the largest possible colour space. Only then is it possible to visually assess and edit the saturated hues contained in the file. That is why the IPS panel of the ColorEdge CG2700S covers, for example, the wide AdobeRGB photo gamut as well as the CMYK print gamut ISO-Coated V2 to more than 99 %. This means that the full colour spectrum of modern cameras is represented unaltered and without gaps. And a precise simulation of the print result in the softproof view is also guaranteed.

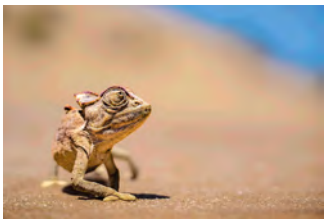


Smooth and fluid transitions and gradients thanks to 16-bit LUT and 10-bit mode

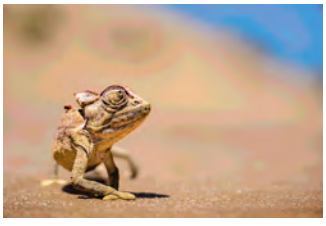
The LUT (look-up-table) on the CG2700S employs internal calculations with 16 bits for an extremely high colour depth and outputs the signals with up to 10 bits. This provides billions of hues for calculating the precise monitor display, effectively preventing display errors caused by the monitor such as banding or clipping, which can result in tonal breaks in gradients or unnecessary colours in greyscale. Even fine nuances and structures in dark or highly saturated areas of the image can be displayed in a differentiated and detailed manner.



10 bit (LUT: 16 bit)



8 bit (LUT: 16 bit)



8 bit (LUT: 8 bit)

COLOR DEPTH FOR PLASTIC IMAGES

True Black

With its high contrast ratio, the CG2700S displays deep blacks, which often look pale or washed out on a typical LCD monitor due to the backlight. This is especially true when viewing the monitor from the side in dimly lit rooms. The CG series is equipped with a retardation film for this purpose, which allows for this depth of blacks even at wide viewing angles.



PERFECT RENDERING ACROSS THE ENTIRE SCREEN

Digital Uniformity Equalizer

Each individual monitor panel is precisely measured over the entire surface at the EIZO factory. Any inhomogeneities in brightness and unnecessary colour are detected and removed. This process (Digital Uniformity Equalizer) guarantees that identical colours always look the same over the entire service life of the monitor, no matter where they are displayed. Only in this way is precise image processing and retouching possible.



With DUE



Without DUE

Suitable for softproofing

The EIZO CG2700S fulfills strict softproof requirements based on the ISO 12646 standard. Fogra Forschungsgesellschaft Druck e.V. came to that conclusion in the course of testing the monitor. The CG2700S was therefore awarded the Fogra "FograCert Softproof Monitor" seal of quality. You will therefore be working on a tested, color-proof monitor.

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 CG2700S is equipped with the latest sensor technology, allowing it to be recalibrated on the fly. So you can continue working with applications that are not colour-critical while the monitor calibrates. The sensor only takes up a small amount of space on the screen during calibration and therefore does not interfere. Calibration can also take place completely automatically at definable times, even if the computer is switched off or not connected to the monitor at all.

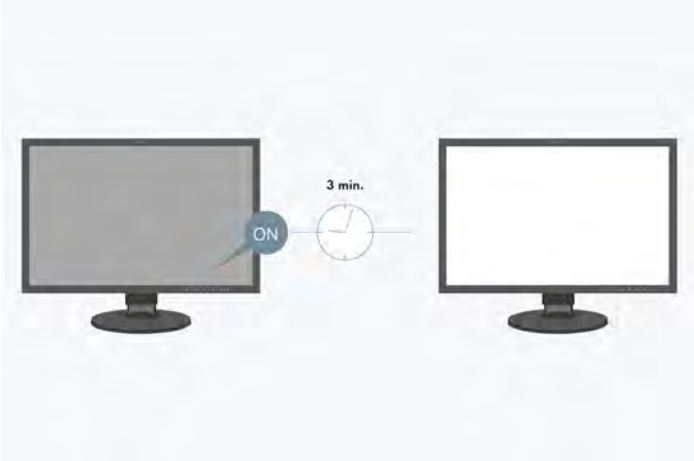


Exemplary image

Stable display thanks to industry-leading AI

To ensure gradations, colour, brightness and other characteristics are always accurately displayed even when the ambient temperature changes, the ColorEdge CG2700S is equipped with a temperature sensor. It accurately measures the monitor's internal temperature, while an AI (artificial intelligence)-assisted correction algorithm* distinguishes between different temperature change patterns and calculates a precise adjustment in real time.

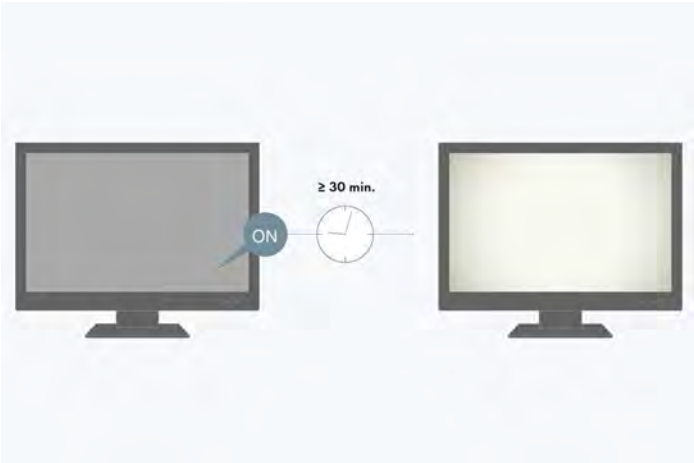
* Patent pending



ColorEdge

Stable color reproduction in just three minutes

It takes a traditional monitor a minimum of 30 minutes for the brightness, chromaticity and tone values to stabilise, whereas the ColorEdge CG2700S only needs three minutes. It means that users know they can reliably trust the colours of the monitor within a short time after switching in on.

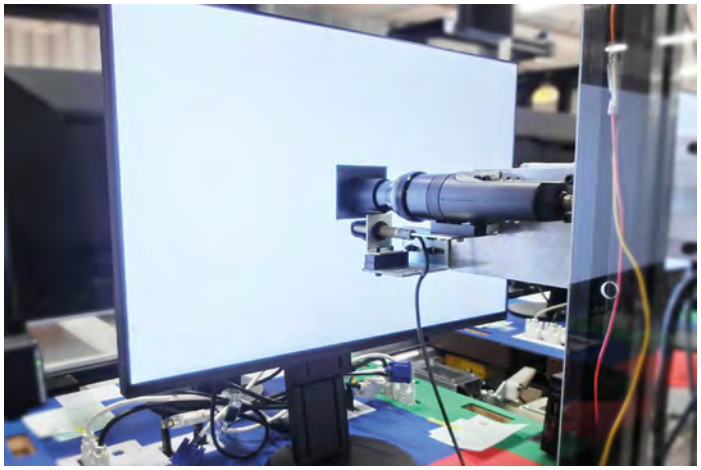


Typical monitor

READY TO USE RIGHT OUT OF THE BOX

Perfect settings right from the factory

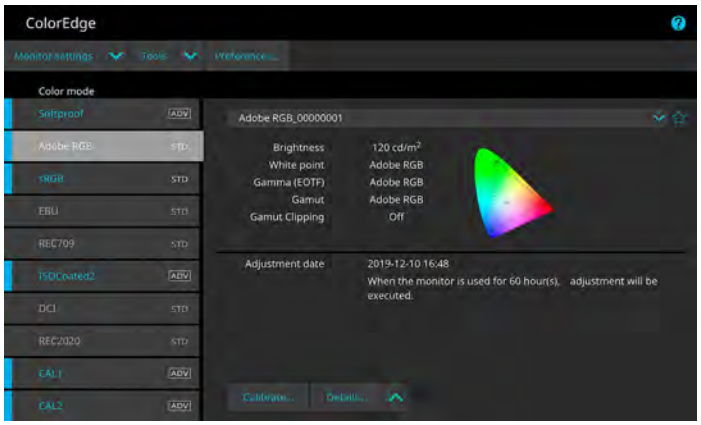
To ensure that a ColorEdge is ready for use right out of the box, each individual ColorEdge CG2700S is meticulously measured and optimally adjusted at the factory. The gamma curves of the red, green, and blue channels are closely scrutinized and, if necessary, corrected. This unique EIZO factory calibration allows the user to use the monitor with the preset color spaces immediately after unpacking – out of the box. This elaborate factory calibration is also the reason why recalibration with the ColorNavigator by the user is so quick.



EIZO software for fast calibration and printing

Each monitor ages and changes its display properties. This is why graphics monitors, which require an absolutely constant image display over the entire service life, must be regularly calibrated and adjusted. With the free calibration software ColorNavigator from EIZO, the ColorEdge CG2700S can be adjusted within 90 seconds (measured with a MacBook Pro and EX4), easily and without any losses. This is to ensure that the same image still looks the same on the monitor five years from now.

For users who want to calibrate several monitors in the company, EIZO offers the ColorNavigator Network tool. This allows for the quality management of many ColorEdge monitors to be carried out centrally. Among other things, an administrator can deliver calibration targets to the users and trigger the automatic calibration of ColorEdge monitors of the CG series. With the help of a secure cloud server offered by EIZO, it is possible to administer this central quality management across numerous locations or even continents.



FOR OPTIMIZED COLOR REPRODUCTION

EIZO microchip

The CG2700S has a high-quality microchip (ASIC, Application-Specific Integrated Circuit), which EIZO developed especially for the special requirements involved in work demanding high colour accuracy. This microchip is the brain of a ColorEdge as it guarantees the precise, uniform and constant image display that is the hallmark of EIZO.

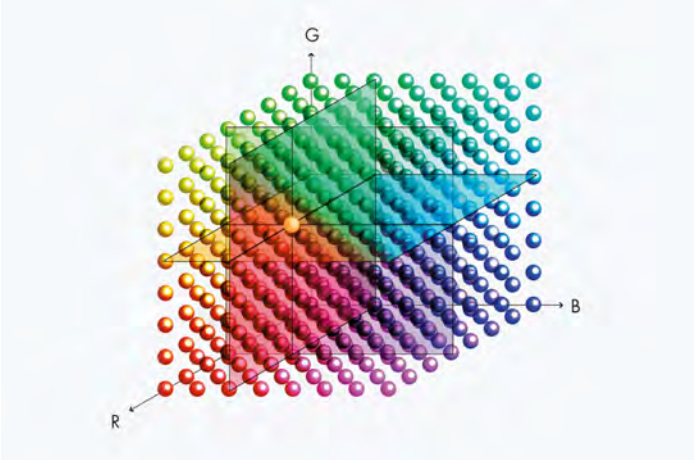


Video and film production
Features for post-production

Precise color reproduction thanks to high-resolution 3D LUT

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

Ex works, EIZO therefore adjusts every monitor in the CG series and its colour and tone curve. This ensures a consistent colour temperature across the entire grey scale. The result: colour reproduction is the same, precise and reliable for every single CG2700S.



HDR Gamma

The ColorEdge CG2700S supports the two gamma curves for HDR video: the HLG (Hybrid Log-Gamma) curve and the PQ (Perceptual Quantization) curve. Up to the maximum brightness of 400 cd/m², thus the CG2700S ensures a meaningful impression of the processed HDR material, so that a HDR reference monitor like the ColorEdge CG3146 is often only required in the final production step.

Gamut pre-sets for film and video production

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



Safe in sight thanks to the Safe Area Marker

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



Automatic color settings

The ColorEdge CG2700S offers Sync Signal functionality, which adjusts monitor settings such as signal range and colour format to the video signal, offering consistent color settings during the entire production process.

Luminance warning

The brightness warning can be used to mark areas that exceed a certain brightness (300, 500, 1000 or 4000 cd /m²) when using the PQ mode. These areas are marked optionally in yellow or magenta.



Brightness warning



Without brightness warning

Gamut warning

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



Ideal for video and film production: HDMI

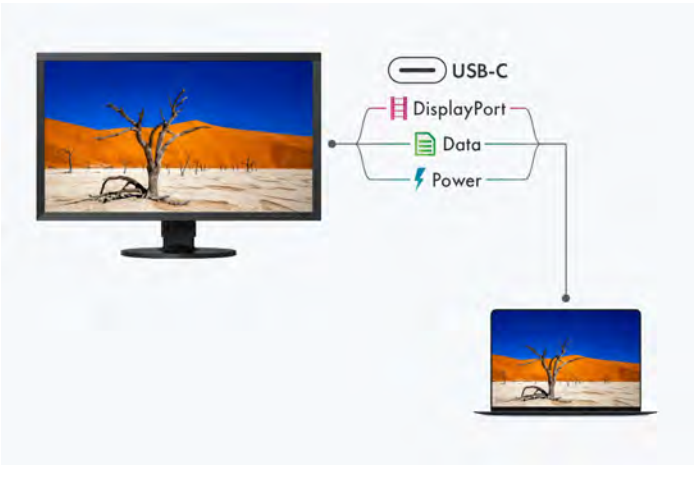
Films are normally recorded at 24 fps. They therefore appear unnatural with the conventional monitor rendering of 60 Hz. The monitor supports an image frequency of 24 and 60 Hz. This means that you can view and edit your film material as it was taken.

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

Variety of ports
Best connectivity

Cutting-edge connectivity with USB-C

Image signal, USB data transfer as well as power supply with up to 92 W, all this and more can be realised with a single USB-C cable. This makes the ColorEdge CG2700S the central dock of the graphic workflow. Peripheral devices such as a mouse, keyboard or printer can be connected directly to the USB-A ports. Mobile devices such as laptops or tablets can even be charged via the USB-C cable with up to 92 W via the USB-C cable. In this way, a laptop and CG2700S can be turned into a fully-fledged desktop workstation with a quick flick of the wrist.



One monitor, many ports

The CG2700S supports a wide range of video formats via USB-C, HDMI and DisplayPort interfaces. This means that the monitor can not only be integrated into PC-based workflows but can also be used with HDMI feeders.



STABLE NETWORK CONNECTION

LAN port

The monitor has a dedicated LAN port to ensure a stable wired network connection. Laptops and PCs require only one USB cable to be connected to the CG2700S to gain network access via the monitor. This is particularly advantageous for laptops that do not have a LAN connection and allows for fast and stable data transfer, which is required for video conferences, for example. As a network device the monitor has its own MAC address.

Optionally, the "EIZO MAC Address Clone Utility" software for Windows can temporarily assign the MAC address of the connected PC to the monitor. This transparency grants authenticated PCs network access through the monitor.



TWO PCS, ONE CONTROL

KVM switch

It's never been easier to operate different PCs with a single mouse and keyboard. With its USB upstream ports, the CG2700S has a built-in KVM (Keyboard Video Mouse) switch. The monitor automatically links the mouse and keyboard to the currently active source computer. This means, for example, that a desktop PC and a laptop or a work and home PC can be operated on the same combination of monitor, mouse and keyboard. This ensures uninterrupted work and a tidy workspace.

Ergonomics
Working in a relaxed manner

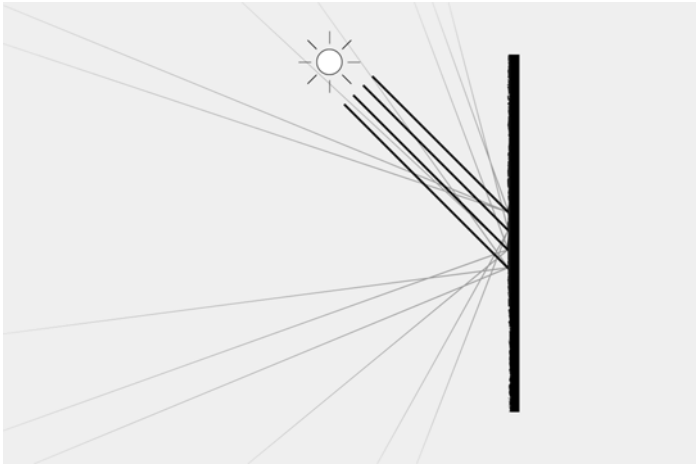
FOR THE SAKE OF THE EYES

Flicker free

The monitor is flicker-free at every brightness setting. This is great for users, as their eyes will not tire as quickly, allowing them to work in front of the screen for longer periods of time without fatigue.

Anti-glare coating: more image, less reflection

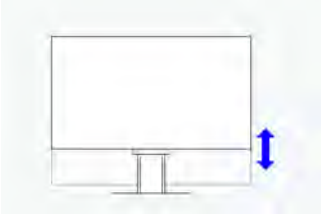
The CG2700S offers a perfect, non-glare surface. By minimising glare by diffusing the reflected light, the CG2700S effectively protects your eyes from straining. This keeps your eyes from getting as tired and allows you to sit comfortably in front of the monitor, without having to sit in a forced position to prevent glare.



Ergonomic stand

Our screens offer continuous height adjustment. Depending on the model, they can even be lowered to the base plate of the stand. This guarantees the best possible ergonomics, regardless of whether the user is sitting or standing in front of the screen. You can also swivel, rotate and tilt the monitor base to the position that is most comfortable for your posture.

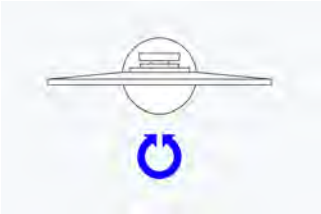
The CG2700S can also be rotated into the portrait format, which is a great advantage for tethered shoots of people in the portrait mode, for example.



Height
155 mm



Tilt
Between 5° forwards and 35° backwards



Swivel
344°



Rotation
90° (clockwise)

PROTECTION AGAINST REFLECTIONS AND GLARE

Monitor hood

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



Sustainability

Environmentally and socially conscious production

Socially responsible production

The CG2700S is produced in a socially responsible way. It is free of child labour and forced labour. Suppliers along the supply chain have been carefully selected and they have also committed themselves to produce in a socially responsible way. This applies in particular to conflict minerals. We present a detailed report about our social responsibility annually and voluntarily.



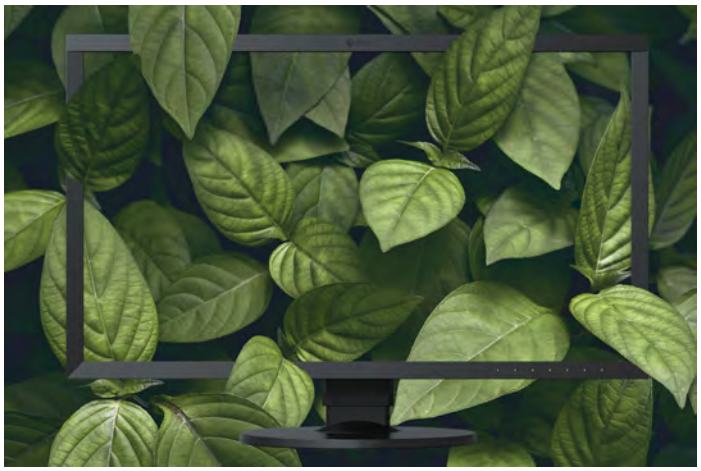
Environmentally and climate friendly

Each CG2700S is manufactured in our own factory, which implements an environmental management system in accordance with ISO 14001. This includes measures to reduce waste, wastewater and emissions, resource and energy consumption, as well as to encourage environmentally conscious behaviour among employees. We publicly report on these measures on an annual basis.



Sustainable and durable

The CG2700S is designed for a long service life that takes into account the entire lifecycle and impact on the environment. It is generally well above the five-year guarantee. Spare parts are available up to five years after the end of production. The monitor's long service life and the ability to repair it save resources and the climate. When designing the CG2700S we paid attention to reducing resource consumption by using high-quality components and materials and being meticulous in production.



Warranty
Highest investment security

Five-year warranty

EIZO grants a five-year warranty. This is possible thanks to the highly developed production process based on a simple principle of success: sophisticated and innovative technology, made from high-end materials.



Guaranteed brightness and color reproduction

The CG2700S has a color and brightness guarantee for five years from the date of purchase for 10000 operating hours at a maximum brightness of 120 cd/m² and a color temperature between 5000 and 6500 K.



Technical Data

GENERAL

Item no.	CG2700S
Case color	Black
Areas of application	Photography, Video & Graphics
Product line	ColorEdge
Areas of application	Photography, image editing and retouching, Video Editing, Post Production and Colour Grading, Design, creation and illustration, Printing and Fine Art Printing, Textile and fashion industry
EAN	4995047063650

SCREEN

Screen size [in inches]	27
Screen size [in cm]	68,5
Format	16:9
Viewable image size (width x height) [in mm]	597 x 336
Ideal and recommended resolution	2560 x 1440
Pixel pitch [in mm]	0,233 x 0,233
Pixel density [in ppi]	109
Supported resolutions	2560 x 1440, 1920 x 1200, 1920 x 1080 (Full HD), 1200p (@ 60 Hz), 1080p (@ 60 Hz), 1080i (@ 60 Hz), 1080p (@ 50 Hz), 1080i (@ 50 Hz), 1080p (@ 30/25/24 Hz), 720p (@ 60 Hz), 720p (@ 50 Hz), 576p (@ 50 Hz), 576i (@ 50 Hz), 480p (@ 60 Hz), 480i (@ 60 Hz)
Panel technology	IPS (Wide Gamut)
Max. viewing angle horizontal	178
Max. viewing angle vertical	178
Number of colors or greyscale	1.07 billion colors (USB-C, 10-bit), 1.07 billion colors (HDMI, 10 Bit), 1.07 billion colors (DisplayPort, 10 Bit)
Color palette/look-up table	278 trillion color tones / 16 Bit
Max. color space (typical)	AdobeRGB (>99%), DCI P3 (>98%), ISO Coated V2 (>99%), Rec709 (100%), EBU (100%), SMPTE-C (100%), sRGB (100%)
HDR Gamma	PQ, HLG
Max. brightness (typical) [in cd/m²]	400
Recommended brightness [in cd/m²]	120
Max. dark room contrast (typical)	1600:1
Response time grey-grey alternation (typical) [in ms]	19
Max. refresh rate [in Hz]	60
Backlight	LED

FEATURES & OPERATION

USB-C docking	✓
KVM switch	✓
Hardware calibration of brightness and luminance characteristics	✓
Integrated sensor for self-calibration	✓
Scheduled self calibration	✓
Preset color/greyscale modes	1x manual memory location, BT.2020, BT.709, BT.2100 HLG, AdobeRGB, DCI-P3, DCI-P3 PQ, sRGB, additional memory spaces through calibration, Sync Signal
Temperature color drift correction	✓
Brightness drift correction	✓
Digital Uniformity Equalizer (homogeneity correction)	✓
No flickering	✓
True Black	✓
Safe Area Marker	✓
I/P conversion	✓
Signal range amplifier (HDMI)	✓
HDCP Decoder	✓
Gamut warning	✓
Luminance warning	✓
Gamut Clipping	✓
Automatic signal input recognition	✓
On-screen menu languages	de, en, fr, es, it, se
Adjustment options	Color Mode, Brightness, Contrast, Color temperature /White point, Gamma, Colour tone, Color saturation, 6 Colors, Resolution, Scaling, Color matrix YUV/ RGB, Input Range, DCI 4K cropping, Menu Rotation, Custom key, OSD language, Signal input, DUE priority
Button Guide	✓
Integrated power unit	✓

CONNECTIONS

LAN/RJ-45	✓
Signal inputs	HDMI (Deep Color, HDCP 1.4/2.3), USB-C (DisplayPort Alt Mode, HDCP 1.3/2.3), DisplayPort (HDCP 1.3)
USB specification	USB 5Gbps (USB 3)
USB upstream ports	1 x type C (DisplayPort Alt Mode, 92 W max.), 1 x type B
USB downstream ports	4 x Typ A (2 x 5Gbps (USB 3), 2 x USB 2)
Network connection	RJ-45
LAN standards	IEEE802.3ab (1000BASE-T)
Graphic signal	DisplayPort (RGB, YCbCr), HDMI (RGB, YCbCr)

ELECTRICAL DATA

Frequency	USB Type-C, DisplayPort: 26 - 89 kHz / 23 - 61 Hz; HDMI: 15 - 89 kHz / 23 - 61 Hz
Power consumption (typical) [in watts]	17
Maximum Power Consumption [in watts]	187 (at maximum brightness with all signal inputs and USB ports in use)
Max. Power consumption in stand-by mode [in watts]	0.3
Power consumption with power switch off [in watts]	0
Energy efficiency class	E
Energy consumption/1000h [in kWh]	18
Power supply	AC 100-240V, 50/60Hz
Power supply via USB-C	92

DIMENSIONS & WEIGHT

Dimensions (incl. stand) (width x height x depth) [in mm]	638 x 416-571 x 245
Weight (incl. stand) [in kg]	9.4
Dimension drawing (PDF)	Dimension drawing (PDF)
Rotatability of the stand	344
Tiltability	5 / 35
Pivot between portrait / landscape	90° (clockwise)
Height adjustment range [in mm]	155
Hole spacing	100 x 100

CERTIFICATION & STANDARDS

Certification	CE, CB, TÜV/GS, TÜV/Ergonomics (including ISO 9241-307), TÜV/Color Accuracy (Quick Stability), FograCert Softproofing System (class A), RCM, cTÜVus, FCC-B, CAN ICES-3 (B), TÜV/S, PSE, VCCI-B, RoHS, WEEE, China RoHS, CCC, EAC

SOFTWARE & ACCESSORIES

Accompanying software and other accessories are available for download	ColorNavigator Network, ColorNavigator
Other box contents	Calibration report, Signal cable HDMI - HDMI, USB /signal cable (USB-C - USB-C), USB cable (Type A - Type B), Manual via download, Power cord, Quick guide
Accessories	CP200, PP200-K, EX4
Light protection cover	✓

WARRANTY

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

More info : click here