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Thanks to a resolution of 4096 x 2160 pixels, the CG319X is the ideal monitor for processing DCI 4K content and displaying it natively. Featuring a built-in calibration sensor and HDR presets for HLG and PQ gamma, this new monitor is the perfect choice for professional use in video postproduction, photography and other graphics applications. The CG319X boasts 98% DCI P3 colour range coverage and impressively deep black levels, making it the ideal choice for precise colour grading of 4K content. DCI 4K material can be viewed at 60 Hz via two DisplayPorts as well as two HDMI ports. As a result, the CG319X can be integrated into PC-based workflows as well as used with HDMI feeds.

- ✓ DCI 4K with 4096 x 2160 pixels (149 ppi), four-times Full HD resolution
- ✓ Wide gamut LCD, versatile gamut covering 98% of the DCI P3 and 99% of the AdobeRGB colour gamut
- ✓ Integrated sensor and fully automatic self-calibration
- ✓ 3D look-up-table (LUT) for precise hardware calibration of brightness, white balance and gamma
- ✓ 10-bit display (over a billion colours simultaneously) based on a 24-bit look-up-table for precise colours
- ✓ Digital Uniformity Equalizer for perfect luminance distribution and colour purity
- ✓ Temperature-controlled adjustment of colour drift and brightness
- ✓ Two 1.2 DisplayPorts and two HDMI ports (4K DCI with 60 Hz)
- ✓ ColorNavigator calibration software and light protection shields included in delivery
- ✓ 5-year warranty for highest investment security

Technical Data

| GENERAL | | FEATURES & OPERATION | |
|---|---|--|---|
| Item no. | CG319X | Hardware calibration of brightness and luminance characteristics | ✓ |
| Case color | Black | Integrated sensor for self-calibration | ✓ |
| Areas of application | Photography, Video & Graphics | Scheduled self calibration | ✓ |
| Product line | ColorEdge | Preset color/greyscale modes | BT.2020, BT.2100 PQ, BT.709, BT.2100 HLG, AdobeRGB, DCI, DCI PQ, 2x manual memory locations, sRGB |
| 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 | Temperature color drift correction | ✓ |
| Specific system requirements | None, compatible with most computers and operating systems including macOS and Windows | Brightness drift correction | ✓ |
| EAN | 4995047053088 | Digital Uniformity Equalizer (homogeneity correction) | ✓ |
| SCREEN | | Overdrive | ✓ |
| Screen size [in inches] | 31,1 | No flickering | ✓ |
| Screen size [in cm] | 78,9 | True Black | ✓ |
| Format | 17:9 | 3D LUT film emulation (10 bit log) | ✓ |
| Viewable image size (width x height) [in mm] | 698 x 368 | Safe Area Marker | ✓ |
| Ideal and recommended resolution | 4096 x 2160 (4K DCI) | I/P conversion | ✓ |
| Pixel pitch [in mm] | 0,17 x 0,17 | Noise suppression (HDMI) | ✓ |
| Pixel density [in ppi] | 149 | RGB and CMYK colour space emulation | ✓ |
| Supported resolutions | 4096 x 2160 (4K DCI), 3840 x 2160 (4K UHD), 2560 x 1600, 2560 x 1440, 2560 x 1440 (@ 30 Hz), 1920 x 1200, 1680 x 1050, 1600 x 1200, 1280 x 1024, 1024 x 768, 800 x 600, 720 x 400, 640 x 480, 1080p (@ 60 Hz), 1080i (@ 60 Hz), 1080p (@ 50 Hz), 1080i (@ 50 Hz), 1080p (@ 30/25/24 Hz), 720p (@ 60 Hz), 720p (@ 50 Hz), 576p (@ 60 Hz), 576p (@ 50 Hz), 480i (@ 60 Hz) | HDCP Decoder | ✓ |
| Panel technology | IPS (Wide Gamut) | Luminance warning | ✓ |
| Max. viewing angle horizontal | 178 | Gamut Clipping | ✓ |
| Max. viewing angle vertical | 178 | Automatic signal input recognition | ✓ |
| Number of colors or greyscale | 1.07 billion colors (HDMI, 10 Bit), 1.07 billion colors (DisplayPort, 10 Bit) | On-screen menu languages | de, en, fr, es, it, se |
| Color palette/look-up table | More than 278 trillion color tones / 24 Bit 3D-LUT | Adjustment options | Color Mode, Brightness, Contrast, Color temperature /White point, Gamma, Colour tone, Color saturation, Resolution, Scaling, Color matrix YUV/ RGB, Zoom, BT.709 color space warning, Markers (safe area marker, safe area size, format marker, format adjustment, bezel color), OSD language, Signal input, DUE priority |
| Max. color space (typical) | AdobeRGB (>99%), DCI P3 (>98%), ISO Coated V2 (>99%), Rec709 (100%), EBU (100%), SMPTE-C (100%), sRGB (100%) | Button Guide | ✓ |
| Max. brightness (typical) [in cd/m²] | 350 | Integrated power unit | ✓ |
| Recommended brightness [in cd/m²] | 120 | CONNECTIONS | |
| Max. dark room contrast (typical) | 1500:1 | Signal inputs | 2x HDMI (Deep Color, HDCP 1.4/2.2), 2x DisplayPort (HDCP 1.3) |
| Response time grey-grey alternation (typical) [in ms] | 9 | USB specification | USB 5Gbps (USB 3) |
| Max. refresh rate [in Hz] | 60 | USB upstream ports | 1 x type B |
| Backlight | LED | USB downstream ports | 3 x type A |
| | | Graphic signal | DisplayPort, HDMI (RGB, YUV) |

ELECTRICAL DATA

| | |
|--|---|
| Frequency | DisplayPort: 25.0 - 137 kHz, 23 - 61 Hz; HDMI: 15 - 136 kHz, 23 - 61 Hz |
| Power consumption (typical) [in watts] | 52 |
| Maximum Power Consumption [in watts] | 140 (at maximum brightness with all signal inputs and USB ports in use) |
| Max. Power consumption in stand-by mode [in watts] | 1.2 |
| Power consumption with power switch off [in watts] | 0 |
| Energy efficiency class | G |
| Energy consumption/1000h [in kWh] | 55 |
| Power supply | AC 100-120 V / 200-240 V, 50/60 Hz |
| Power management | ✓ |

DIMENSIONS & WEIGHT

| | |
|---|---|
| Dimensions (incl. stand) (width x height x depth) [in mm] | 735 x 434 - 588 x 290 |
| Weight (incl. stand) [in kg] | 12.4 |
| Dimension drawing (PDF) | Dimension drawing (PDF) |
| Rotatability of the stand [in °] | 344 |
| Tiltability forwards/backwards [in °] | 5 / 35 |
| Height adjustment range [in mm] | 154 |
| 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 cable (Type A - Type B), Signal cable DisplayPort - DisplayPort, Manual via download, Power cord, Quick guide |
| Accessories | CP200, 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. |

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