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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

## 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	✓
EAN	4995047053088	Brightness drift correction	✓
<b>SCREEN</b>		Digital Uniformity Equalizer (homogeneity correction)	✓
Screen size [in inches]	31,1	Overdrive	✓
Screen size [in cm]	78,9	No flickering	✓
Format	17:9	True Black	✓
Viewable image size (width x height) [in mm]	698 x 368	3D LUT film emulation (10 bit log)	✓
Ideal and recommended resolution	4096 x 2160 (4K DCI)	Safe Area Marker	✓
Pixel pitch [in mm]	0,17 x 0,17	I/P conversion	✓
Pixel density [in ppi]	149	Signal range amplifier (HDMI)	✓
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)	Noise suppression (HDMI)	✓
Panel technology	IPS (Wide Gamut)	RGB and CMYK colour space emulation	✓
Max. viewing angle horizontal	178	HDCP Decoder	✓
Max. viewing angle vertical	178	Luminance warning	✓
Number of colors or greyscale	1.07 billion colors (HDMI, 10 Bit), 1.07 billion colors (DisplayPort, 10 Bit)	Gamut Clipping	✓
Color palette/look-up table	More than 278 trillion color tones / 24 Bit 3D-LUT	Automatic signal input recognition	✓
Max. color space (typical)	AdobeRGB (>99%), DCI P3 (>98%), ISO Coated V2 (>99%), Rec709 (100%), EBU (100%), SMPTE-C (100%), sRGB (100%)	On-screen menu languages	de, en, fr, es, it, se
Max. brightness (typical) [in cd/m <sup>2</sup> ]	350	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
Recommended brightness [in cd/m <sup>2</sup> ]	120	Button Guide	✓
Max. dark room contrast (typical)	1500:1	Integrated power unit	✓
Response time grey-grey alternation (typical) [in ms]	9	<b>ELECTRICAL DATA</b>	
Max. refresh rate [in Hz]	60	Frequency	DisplayPort: 25.0 - 137 kHz, 23 - 61 Hz; HDMI: 15 - 136 kHz, 23 - 61 Hz
Backlight	LED	Power consumption (typical) [in watts]	52
<b>CONNECTIONS</b>		Maximum Power Consumption [in watts]	140 (at maximum brightness with all signal inputs and USB ports in use)
Signal inputs	2x HDMI (Deep Color, HDCP 1.4/2.2), 2x DisplayPort (HDCP 1.3)	Max. Power consumption in stand-by mode [in watts]	1.2
USB specification	USB 5Gbps (USB 3)	Power consumption with power switch off [in watts]	0
USB upstream ports	1 x type B	Energy efficiency class	G
USB downstream ports	3 x type A	Energy consumption/1000h [in kWh]	55
Graphic signal	DisplayPort, HDMI (RGB, YUV)	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)	<a href="#">Dimension drawing (PDF)</a>
Rotatability of the stand	344
Tiltability	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
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## 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.
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.