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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/m]	350	Integrated power unit	
Recommended brightness [in cd/m]	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
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SOFTWARE & ACCESSORIES

Accompanying software and other accessories are available for download	ColorNavigator, ColorNavigator Network
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.

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