



FAMILY

**The most dedicated digital cinema  
measurement, calibration & reporting tool  
to assist your daily work as  
cinema integrator or colorgrading & vision screen!**



**QALIF SOLUTIONS**

**VISIONARY SOLUTIONS  
FOR CINEMA BUSINESS**



## QALIF ULTIMATE

**All-in-one calibration,  
measurement & reporting tool perfect  
for Digital Cinema Projectors & Emissive Displays**



General		Spectro		Camera	
Throw Ratio	minimum of 1.11:1	Bandwidth	2nm	Imaging/Pixel Array	5496 x 3672 pixels
Color accuracy	±0.0015 for CIE 1931 xy	Resolution	0.3nm	CCD size	13.2 x 8.8 mm
Luminance accuracy	± 1%	Detector	2048 pixels	Total Pixels	20 million
Aperture	2°	Pixel size	14 µm x 200 µm	Pixel size	2.4 x 2.4 microns square
Repeatability	≤ 1%	Pixel well depth	~62,500 electrons	Full well Capacity	~15,000 e-
Luminance units	cd/m2 or fL	Detector range	380-780nm	Dark Current e/p/s at 0 C	~0.02e-/pixel/sec at -15C
Warranty	1 year (extensions available)	Signal-to-noise ratio	250:1 (full signal)	Antiblooming	1000X Antiblooming
IEC 60950-1 Class	3	Shutter	Mechanical	Peak QE	40%
Certifications	CE and ROHS	A/D Resolution	16 bit	Shutter	
Main Power	AC 110 - 220V ~50/60Hz 1.5A	Dark noise	50 RMS counts	Exposure	32 µs to 2000 seconds
Second power stage	12V 5A	Dynamic range (system)	8.5 x 10 <sup>4</sup>	Correlated Double Sampling	Yes
Size (without handle) - Weight	L220 x H188 x W163 mm - 3.6kg	Dynamic range	1300:1 for a single acquisition	A/D Converter	12 bits
Control compatibility	All devices with VNC capability or API	Integration time	1ms - 65s	A/D Gain	0.37e-/ADU
Operating temperature	5 to 35°C	Stray light	<0.05% at 600 nm; <0.10% at 435 nm	Read noise	~1.6 e- rms
Interface	Wifi or Ethernet	Linearity	>99%	Pixel Digitization Rate	20 million pixels per second
Fixed kit (optional)	ePowerSwitch, Mount, Microphone (same as Optimizer)	Color Space	Selectable CIE curve	Full Frame Download	1 second
Mobile kit (optional)	Carry Case, Tripod, Wifi router, Battery Pack (5h), Lasermeter	Color Accuracy	+/- 0.0015 for CIE 1931 xy	Cooling Delta	Single Stage TE, Max delta -40C
				Temperature Regulation	+/- 0.1 deg. C



## QALIF SPECTRO

**High-end mobile spectro-colorimeter  
for digital cinema source UHP,  
Xenon, Laser, Led...**

General		Spectro	
Color accuracy	±0.0015 for CIE 1931 xy	Bandwidth	2nm
Luminance accuracy	± 2%	Resolution	0.3nm
Aperture	2°	Detector	2048 pixels
Repeatability	≤ 1%	Pixel size	14 µm x 200 µm
Luminance units	cd/m2 or fL	Pixel well depth	~62,500 electrons
Warranty	1 year	Detector range	380-780nm
IEC 60950-1 Class	3	Signal-to-noise ratio	250:1 (full signal)
Certifications	CE and ROHS	Shutter	Mechanical
Battery	Lithium-Ion (~15h of use)	A/D Resolution	16 bit
Charger	AC 110 - 220V ~50/60Hz 1.5A; Car-lighter	Dark noise	50 RMS counts
Size (without handle) - Weight	L130 x H100 x W162 mm - 900 g	Dynamic range (system)	8.5 x 10 <sup>4</sup>
Operating temperature	5 to 35°C	Dynamic range	1300:1 for a single acquisition
Touch Screen	5 inches	Integration time	1ms - 65s
Alignment	Laser pointer	Stray light	<0.05% at 600 nm; <0.10% at 435 nm
Deposited control	Yes (without license or other software)	Linearity	>99%
Interface	Wifi or Ethernet	Color Space	Selectable CIE curve
Results	Full available on exploitable format (csv)		

(Feature already existing on the market)	Light and sound sensors	Cameras (* one unit by feature)	Spectrometers	QALIF Product Line	
(Qalif is the only tool to operate the feature)				Q-Spectro	Q-Ultimate
Luminance measurement on 1 point	✓	✓*	✓	✓	✓
Uniformity measurement		✓*			✓
Contrast measurement				✓	✓
Color measurement			✓	✓	✓
Precise color measurement (1nm FWHM for laser)				✓	✓
Color uniformity measurement					✓
Real time measurement	✓	✓		✓	✓
Convergency measurement		✓*			✓
Convergency measurement on whole screen surface					✓
Focus automatic setting					✓
Focus automatic setting on whole screen surface					✓
Multi-projector alignment					✓
Wall uniformity measurement (light and color)					✓
Audio measurement	✓				✓
Audio spectrum analysis					✓
ATMOS support					✓
Reporting	✓			✓	✓
Remote monitoring and reporting				✓	✓
DC player management				✓	✓
DC projector management and automatic setting				✓	✓
Automated mode				✓	✓

All specifications are subject to change without notice



# QALIF SOLUTIONS



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