



QALIF SOLUTIONS



QALIF ULTIMATE

Qalif Ultimate

Video-Meter

Spectro-Colorimeter



The Qalif Ultimate is the best all-in-one product for accurate measurement and supply chain monitoring.

The coupled system provides the benefits of a video-meter (simultaneous analysis) and of a spectro-meter (color accuracy).

The Qalif Ultimate can be used for a variety of applications from laboratories to content production or diverse screenings.

Benefits

- Light and color distribution in 20 million pixels
- Cooled (low-level light high accuracy)
- Customized GUI on demand
- Affordable price for high-end system
- High precision spectro, laser compatible

Applications

- LED / OLED characterization
- Screen characterization
- Automotive
- Avionics
- Head up display
- Rail industries
- Lighting
- Cinema
- Post-production laboratories
- Laser projection
- Dual projector alignment
- Video wall

Tolerance values																			
Lower limit = 80 %										Maximum Luminance: 69 Cd/m ²									
Upper limit = 90 %										Uniformity (average): 91%									
58.7	61.5	63.7	64.8	65.1	64.2	64.7	64.2	63.6	62.4	60.5	57.6	55.7	53.5	49.7	47.5				
60.3	63	64.7	66	66.4	66.3	66.1	65.6	64.8	63.4	59.9	57.8	55.6	54.5	50.7	49.6				
61.7	63.8	65.4	66.4	67	67.5	67.1	66.8	65.4	64.6	60.7	59.7	56.6	55.2	52.7	50.9				
62.6	63.7	65.3	67	67.5	68.1	68.2	67.8	66.7	65.6	61.6	61	59.5	57.4	54.5	51.7				
63	64.1	65.5	67.4	67.9	68.3	68.7	68.6	67.4	65.9	63.7	61.9	60.2	58	55.3	52.3				
63.1	64.9	66.5	67.8	68.2	68.3	68.6	68.7	67.5	66	63.3	62.1	60.5	58.5	55.7	52.8				
62.9	65.6	67.3	67.9	68	68.2	68.2	68.4	67.6	66.2	63.2	61.3	60.6	58.3	55.6	52.8				
62.7	65	66.7	67.5	67.9	67.9	68	67.8	67	66	63.9	61.6	60.4	57.9	55.1	52.3				
61.9	63.8	65.5	65.5	67.1	67.6	67.4	67.1	66.3	65.4	63.5	61.7	59.7	57	54.4	51.3				

Key Features

GENERAL

Luminance accuracy * $\pm 1\%$

Repeatability $\leq 1\%$

Size (without handle) - Weight L220 x H188 x W163 mm - 3.6kg

Interface Wifi or Ethernet

Color Space Selectable CIE curve

CAMERA

Throw Ratio minimum of 0.8:1

Imaging/Pixel Array 5496 x 3672 pixels

CCD size 13.2 x 8.8 mm

Total Pixels 20.18 million

Pixel size 2.4 x 2.4 microns square

Shutter Rolling electric

Exposure 32 μ s to 2000 seconds

A/D Converter 12 bits

QE Peak 84%

Read Noise 1.6 e

Full Well 15 ke

Temperature Regulation $\pm/- 0.1$ deg. C

SPECTRO **

Color accuracy * ± 0.0015 for CIE 1931 xy

Bandwidth 2nm

Resolution 0.3nm

Detector 2048 pixels

Pixel size 14 μ m x 200 μ m

Detector range 380-780nm

Aperture 2°

Shutter Mechanical

A/D Resolution 16 bit

Dynamic range 1300:1 for a single acquisition

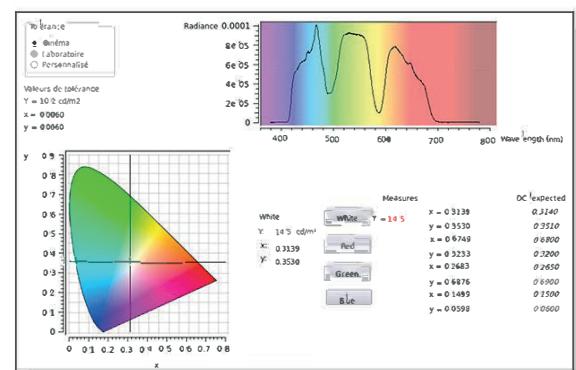
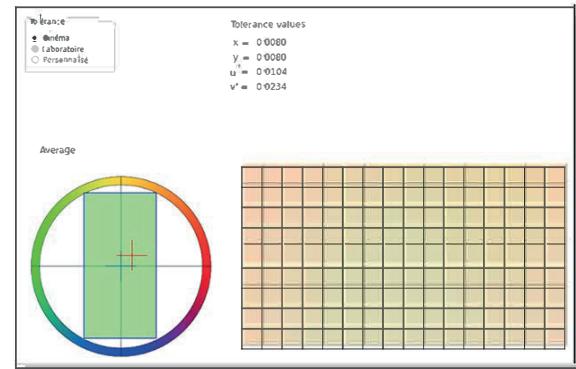
Integration time 1ms - 65s

Linearity >99%

*For A illuminant and against NIST Luminance standard

**The Qalif Ultimate also exists without spectro, ask for the Imager version

Microphone optionnal

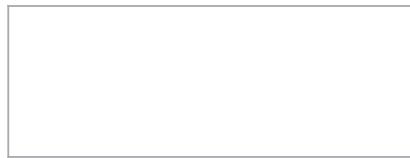


Cinema mode features

- Convergence analysis
- Automatic focus
- Dual projector alignment
- Lamp power adjustment
- Automatic colorimetry
- Full spectrum audio analysis
- Intra-frame and sequential contrast measurements



Contact



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