QALIF ULTIMATE

PART OF THE CUROLUX FAMILY

Designed for premium large format and cinemas that demand the highest presentation, through to post-production review rooms and for installation and service engineers, Qalif Ultimate is the best all-in-one product for a premiere calibration by providing the benefits of a video-meter and spectro-meter.

Qalif Ultimate allows for measurement of contrast, colour (down to 2nm), colour convergence, 144 point screen brightness and light uniformity, focus and audio. The unique functionality allows for up to four projectors to be aligned simultaneously, ideal for ensuring performance quality in dual or multiple projection setups such as premium large format theatres.

This solution also allows for fully-automated remote screen monitoring from the Network Operation Centre (NOC) and Theatre Management System (TMS).

MOBILE KIT (SUBJECT TO CHANGE):

- Tripod
- Battery (five hour usage)
- W-Fi router
- Leica Disto Laser Measure

FIXED KIT (SUBJECT TO CHANGE):

- Wall mount
- iPower switch (to remotely activate/ deactivate Oalif)
 - Microphone

FUNCTIONS:

MEASURES:

- Light uniformity (144 points, SMPTE 5 and 9 points)
- Brightness hot spot position
- Colour uniformity (144 points)
- Primaries 2D and 3D (laser compatible)
- Macbeth colours (content/ film rendering)
- Convergence
- Focus
- Focus uniformity
- Intra-frame contrast
- Sequential contrast
- Full spectrum audio analysis*



QALIF ULTIMATE

FUNCTIONS:

ADJUST (FULL AUTO):

- Focus (lens file)
- Light source power (lamp file)
- Colourimetry (MCGD projector file)
- Dual projector alignment zoom and position (lens file)
- Lamp alignment (on motorised lamp houses)

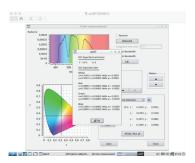
MANUAL ADJUSTMENT (SOFTWARE ASSISTANCE):

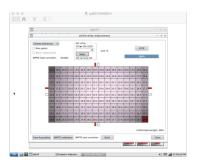
- Convergence
- Focus Uniformity (Scheimpflug)
- Light Uniformity

FEATURES:

- Mobile and fixed
- Standalone (no software install)
- Integrated with digital cinema workflow (MCGD file, lens file, lamp File) and server
- Remote macros and trigger control
- With battery pack*
- Reporting and multi-site control
- Confirm brightness and uniformity meet SMPTE/ DCI standards
- Configurable tolerances
- Centralised reports (existing NOC integration via API or Zabbix Agent possible)
- Controllable by a text API
- SMPTE Seat- results displayed correctly if measured from the SMPTE seat
- Calibration tool needed for the Qalif Optimizer installation
- Light and colour distribution in 8 million pixels
- Supplied in a flight case

SPECIFICATIONS:









^{*}optional

QALIF ULTIMATE

SPECIFICATIONS:

GENERAL

Luminance Accuracy * ± 1% Repeatability

Size (without handle) - Weight Interface

Colour Space

≤ 1%

L220 x H188 x W163 mm - 3.6kg

Wi-Fi or Ethernet Selectable CIE curve

CAMERA

Throw Ratio Minimum of 0.8:1 3326 x 2504 pixels Imaging/Pixel Array CCD size 17.96 x 13.52 mm **Total Pixels** 8.3 million

Pixel size 5.4 x 5.4 microns square

Shutter Mechanical

0.1 to 3600 seconds Exposure

A/D Converter 16 bits

Pixel Digitization Rate 10 million pixels per second

Full Frame Download 1 second

Cooling Delta Single Stage TE, Max delta -40C

Temperature Regulation +/- 0.1 deg. C

SPECTRO

Color accuracy * ±0.0015 for CIE 1931 xy Bandwidth 2nm Resolution 0.3nm Detector 2048 pixels Pixel size 14 μm x 200 μm 380-780nm **Detector range** 2° Aperture Shutter Mechanical A/D Resolution 16 bit 1300:1 for a single acquisition Dynamic range Integration time 1ms - 65s >99% Linearity



^{*} For a standard illuminant from NIST luminance standard