

LG3

A flexible lightbox with high power and flicker generation

Get more out of high dynamic range test targets by illuminating them with up to 150000 lux to see the differences in camera designs. The LG3 can also simulate flickering light sources, making it one of the most powerful and flexible lightboxes for your image quality test lab.

Main Features

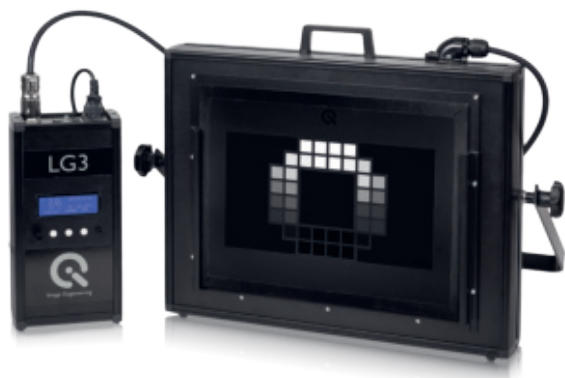
- * High intensity up to 150000 lx**
- * Adjust flicker in frequency, duty cycle and phase.
- * Dimmable in fine steps
- * Expand range of testing
- * Relative illumination stability > 98%

Software
INCLUDED



Related products and features

The LG3 works in sync with our high dynamic range test targets, such as TE269C. Targets with such high dynamic range require powerful illumination to generate a realistic signal for the camera under test. Flickering light sources (e.g., PWM-driven LEDs) are an issue for cameras in many applications. The LG3 can generate these light sources in your test lab to evaluate how well a camera can handle these light situations.



LG3 with OEFC test chart TE269C



A wide range of light frequencies that are capable of being recreated with the LG3

LED-powered light source

The main function of the LG3 is to illuminate transparent test charts. Unlike more standard light-boxes, the LG3 has extremely high intensity can illuminate a high dynamic range test target with up to 150000 lx*. Generation of low-light situations is also possible due to its flexible dimming function.

The other main feature of the LG3 is the flicker mode. Choose between a range of 10 to 500 Hz and variable duty cycle when using flicker. This feature allows for greater simulation possibilities of light sources with variable frequencies. The flicker mode can be adjusted in frequency and duty cycle. The LG3 is controlled with a connected remote for easy adjustment.

Two illumination methods can be selected in three intensity ranges:

1. Pulse width modulation of 32 kHz and 128 kHz
2. Flicker mode with 10 - 500 Hz

Each with

- * Low mode:
0 - 100% 32 kHz / 10 to 6500 lx
- * Normal mode:
0 - 100% 32 kHz / 100 to 65000 lx
- * High mode:
100% max. 60 s lighting duration / 150000 lx



LG3 with support

At a Glance	LG3
Principle	Light source with a wide range of intensities and special flicker mode
Light source	432 LEDs
Color temperature	approx. 5000 K \pm 5%
Maximum / Minimum illumination level	10 - 150000 lx ** Normal mode: 0 - 100% / 32 kHz / 100 to 65000 lx ** Low mode: 0 - 100% / 32 kHz / 10 to 6500 lx ** High mode: 100% / max. 60s lighting duration / 150000 lx **
Uniformity of illumination	> 95% for active chart area*, 280 x 210 mm > 95% (70 mm diameter circle)* \geq 85% at very low intensity (intensity < 1%)
Dimmable	1000 steps in 2 modes, feedback of illumination level in [%], illuminance [lx] or luminance [cd/m ²] 32 kHz PWM

*Measured on chart plane.

**Absolute intensity range depends on the inserted chart.