



Overview

Product name	LG3
Principle	High intensity illuminator for transparent charts based on LED technology. Flicker-generation with variable frequency.

Features

Hardware

Output window	rectangular output window, 290 x 220 mm dual slot for D280 sized test charts
Max. device height	470 mm
Slides for test charts	2
Max. device depth	120 mm
Max. device weight	approx. 10 kg
Specialties	<ul style="list-style-type: none"> • High Intensity • Flicker Mode • Variable PWM Frequency

Illumination

Light source	432 LEDs
CRI	>95
Color Temperature	approx. 5000K +/-5%
Uniformity	> 95 % for active chart area*, 280 x 157.5 mm > 95 % (70 mm diameter circle)* approx. 90% at <1 % of max. intensity
Illumination stability	Active illumination stabilization Relative illumination stability > 98 %



Illumination feedback inaccuracy	+/- 2 %**
Guaranteed illumination range	10 – 150000 lx *** <ul style="list-style-type: none"> • 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 ***
Dim function	integrated control over display and rotary knob with 1000 steps in 2 modes feedback of illumination level in [%], illuminance [lux] or luminance [cd/m ²] 32 kHz PWM
Flicker Frequency	10 – 500 Hz 0.1 Hz steps (10-200 Hz) 0.2 Hz steps (200-500 Hz)
Flicker Duty Cycle	1 – 99% in 1% steps
Service life	10000 h (LEDs)
Spectrum	<div style="text-align: center;"> <h3>LG3 Spectral distribution</h3> </div>

Software (available in Q3 2018)

System requirements	PC with Windows 7 operating system (or higher) USB port
Functions	<ul style="list-style-type: none"> • Intensity • Frequency • Duty Cycle • Mode Selection • Modulate 32kHz PWM over Flicker Frequency and control duty cycle
API (C++)	optional extra



General description hardware

Power supply / consumption	110 V / 230 V, 250 W
Ports	1 x USB for software control 1 x appliance coupler 1 x control connection port
Dimension lighting unit [W x H x D]	590 x 470 x 120 mm
Dimension control unit [W x H x D]	150 x 80 x 295 mm
Weight	2.5 kg control unit 7.5 kg illumination unit
Connection to tripod	Handle prepared for LG3 Control Holder and Tripod
Operating conditions	Optimal: 22 - 26 °C Maximum: 18 - 28 °C
Warm up time	Typical: 5 s Max: 10 s
Cable length	2 m
Scope of delivery	1 x LG3 Control Unit 1 x LG3 Illumination Unit 1 x Tripod Handle 1 x 2 m Power Supply Cable 1 x 3 m USB Cable 2 x Spare Fuses (2.0 A) 1 x User Manual 1 x Software CD 1 x LG3 Flight case

Miscellaneous

Accessories	C++ API LG3 Control Holder and Tripod
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* measured on chart plane
 ** Absolute inaccuracy is dependent on the inaccuracy of the used calibration device
 *** Absolute intensity range depends on the inserted chart