



Overview

Product name	LG3
Principle	A 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%



<p>Illumination feedback inaccuracy</p>	<p>+/- 2 %**</p>
<p>Guaranteed illumination range</p>	<p>10 – 150000 lx ***</p> <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 ***
<p>Dim function</p>	<p>Integrated control over the display and rotary knob with 1000 steps in 2 modes feedback of illumination level in [%], illuminance [lux], or luminance [cd/m²] 32 kHz PWM</p>
<p>Flicker frequency</p>	<p>10 - 500 Hz 0.1 Hz steps (10 - 200 Hz) 0.2 Hz steps (200 - 500 Hz)</p>
<p>Flicker duty cycle</p>	<p>1 - 99% in 1% steps</p>
<p>Service life</p>	<p>10000 h (LEDs)</p>
<p>Spectrum</p>	<div style="text-align: center;"> <p>LG3 Spectral distribution</p> </div>

Software (available in Q3 2018)

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



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