



**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	590 mm
Slides for test charts	2
Max. device depth	120 mm
Max. device weight	approx. 10 kg
Specialties	<ul style="list-style-type: none"> <li>• High Intensity</li> <li>• Flicker Mode</li> <li>• Variable PWM Frequency</li> </ul>

Illumination

Light source	432 LEDs
CRI	>90 Ra
Color Temperature	approx. 5000K +/-5%
Uniformity	> 95 % for active chart area*, 280 x 157.5 mm > 95 % for full output window*, 290 x 220 mm > 95 % (70 mm diameter circle)* Approx. 90% at very low Intensity (intensity <1%)
Illumination stability	Active illumination stabilization in normal power mode



Maximum / Minimum illumination level	5-150000 lx (preliminary)
Dim function	integrated control over display and rotary knob with approx. 5000 steps in 3 modes feedback of illumination level in [%] and illuminance [lx] 32 kHz PWM
Flicker Function	10-500 Hz 1-99% variable duty cycle
Service life	10,000 h (LEDs)

Software (available in Q2 2017)

System requirements	PC with Windows 7 operating system (or higher) USB port
Functions	<ul style="list-style-type: none"> <li>• Intensity</li> <li>• Frequency</li> <li>• Duty Cycle</li> <li>• Mode Selection</li> <li>• Modulate 32kHz PWM over Flicker Frequency and control duty cycle</li> </ul>
API (C++)	optional available in 2017

## General description hardware

Power supply / consumption	110 V / 230 V, 400 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 270 mm
Weight	Approx. 10 kg
Connection to tripod	Handle prepared for light stand
Operating conditions	Optimal: 22 - 26 degrees Celsius, maximum: 18 - 28 degrees Celsius
Warm up time	< 2 min. at optimal ambient temperature
Cable length	2 m
Scope of delivery	LG3



**Miscellaneous**

Standard: ISO xyz	TBD
Accessories	C++ API Tripod (Light Stand)
...	

\* measured on chart plane