

Technical Sheet

GL GONIOPHOTOMETER GLG 8-850

GLG 8-850 a table top goniometer specifically designed for LED modules and component testing that can also be used for measurements of small luminaires. It can support samples up to 8 kg and 850 mm diameter. High angular accuracy and small footprint render this device a perfect solution for laboratories set up in a limited space.

Features:

- Far Field Type C w/ optional automotive conversion kit
- 2 motorized axes
- Angular accuracy of 0.1°
- Perfect for LED modules and small luminaires
- Extremely low backlash thanks to harmonic drive



APPLICATION

Small LED modules and luminaires.
Compliance with the following: CIE121-1996, CIE S 025/E:2015.

TECHNICAL DATA SHEET

CIE Goniometer type	Far Field Type C with horizontal optical axis: <ul style="list-style-type: none"> ▪ DUT moving ▪ C, γ axes motorized, manual linear axis ▪ Harmonic drive
Angular range C axis	± 180°
Angular range γ axis	± 180° theoretical (usable depending on geometry due to shadowing)
Angular positioning accuracy	0.1°
Angular resolution of encoder reading for C axis	0.04° *
Angular resolution of encoder reading for γ axis	0.04°
Angular speed C axis	up to 45°/s
Angular speed γ axis	up to 45°/s
DUT photometric center positioning	0 to 300 mm; manual, locking
Photometric distance	4.25 – 12.75 m Distance ≥ largest DUT dimension x (5-15); (CIE S 025/E:2015)
DUT mounting plate (bread board)	Square 90 x 90 mm, Fixing: multiple M6 mounting holes
Maximum DUT dimensions	≤ 850 mm (diameter or diagonal)
Goniometer dimensions	350 x 758 x 427 mm (W x H x D)
Maximum operating footprint diameter	1000 mm
Required space	Square 1000 x 1000 mm
Maximum load	8 kg
Goniometer weight	26 kg
Controls	PC through GL SPECTROSOFT
Communication	Ethernet
Sensor type	GL OPTIC measuring instruments: <ul style="list-style-type: none"> ▪ GL SPECTIS 1.3 LS ▪ GL SPECTIS 1.0 Touch ▪ GL SPECTIS 1.0 Touch + Flicker ▪ GL SPECTIS 4.0 M ▪ GL SPECTIS 5.0 Touch ▪ GL PHOTOMETER 3.0 LS + Flicker ▪ GL SC RADIOMETER

*resolution of the motor/encoder assembly. Effective resolution is higher due to gear ratio of the harmonic drive

Note: Instrument, firmware and software specification are subject to change without prior notice. All information included in GL OPTIC datasheets and product information available in any form are carefully prepared and included information believed to be true. Please note that discrepancies may occur due to text and/or other errors or changes in the available technology. We advise to contact GL Optic before the use of the product to obtain the latest product specification.

GL OPTIC POLSKA Sp. z o.o.

ul. Poznańska 70, 62-040 Puszczykowo, Poland
Phone: +48 61 819 40 03 | E-mail: office@gloptic.com
www.gloptic.com



Light quality control

Technical Sheet

Connections

- a pair of banana sockets for DUT power supply, rated at 10 A max.
- a pair of banana sockets for remote sensing
- a single banana socket for protective connection
- 3.5 mm TRS jack for temperature probes

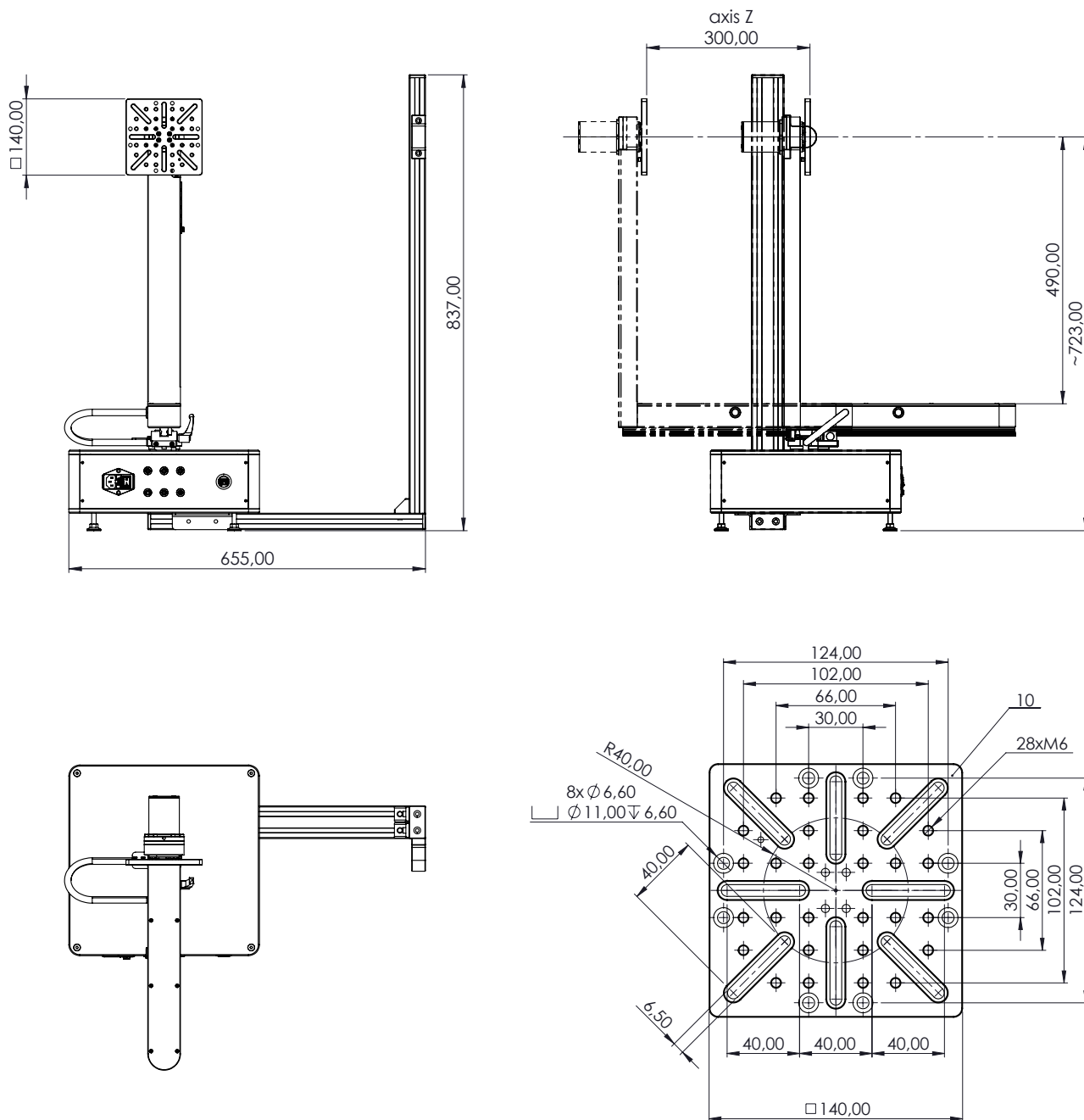
All sockets appear on the base of the goniometer as well as on the DUT mounting plate

Power supply and max. Consumption

110-230 V AC, 50 Hz, 40 W

Product no.

203260



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