

GL RETROREFLECTOMETER 4.0 SRS

The GL RETROREFLECTOMETER 4.0 SRS is a CIE 54.2 compliant, complete solution for testing of automotive retro-reflective devices for conformity with ECE R3, ECE R27, ECE R48 and FMVSS 108. The system is capable of CIL (Coefficient of luminous intensity) measurement as well as spectral analysis of reflected light. Wide range of angle of divergence and illuminated area size adjustment allows to cover all required test scenarios in variety of conditions. Fully automated control in conjunction with GL GONIOMETER GLG A 50-1800 ensures easy use and short testing times.

Features:

- High precision linear motor for angle of divergence adjustment
- Motorised iris diaphragm for illuminated area adjustment
- Scanning monochromator for fast spectral analysis
- Integration with automotive goniometric system for complete automation of product testing
- Designed for speed, safety and convenience of operation



APPLICATION

Testing of automotive retro-reflective devices

PROJECTOR UNIT

Source type	Quartz halogen 275 W
CCT	2856 K (Illuminant A)
Projector aperture	ø 50 mm
Uniformity of illuminance	< 2%
Illuminated area	Circular with adjustable diameter by iris diaphragm ø from 20 cm to 70 cm (available at all working distances)

PHOTODETECTOR

Type	Scanning monochromator
Measurement time	< 5 s
Entrance aperture	ø 12.5 mm
Spectral range	340 nm - 780 nm
Spectral resolution	5 nm

GENERAL

Angle of divergence α	from 20' to 1°30' (0,33° to 1,5°) at distances from 10 m to 15 m from 12' to 1°30' (0,2° to 1,5°) at distances from 15 m to 30,5 m (100 ft)
Angle position resolution	0.0001°
Working distance	10 m - 30.5 m (100 ft)
CIL measurement range	1 mcd/lx – 10.000 mcd/lx
Uncertainty of colour coordinates	0.0015

GENERAL PROPERTIES

Dimensions [H x W x D]	2566 mm x 507 mm x 568 mm
Weight	~ 50 kg

Note: This technical sheet is dated January 2nd, 2024. 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.

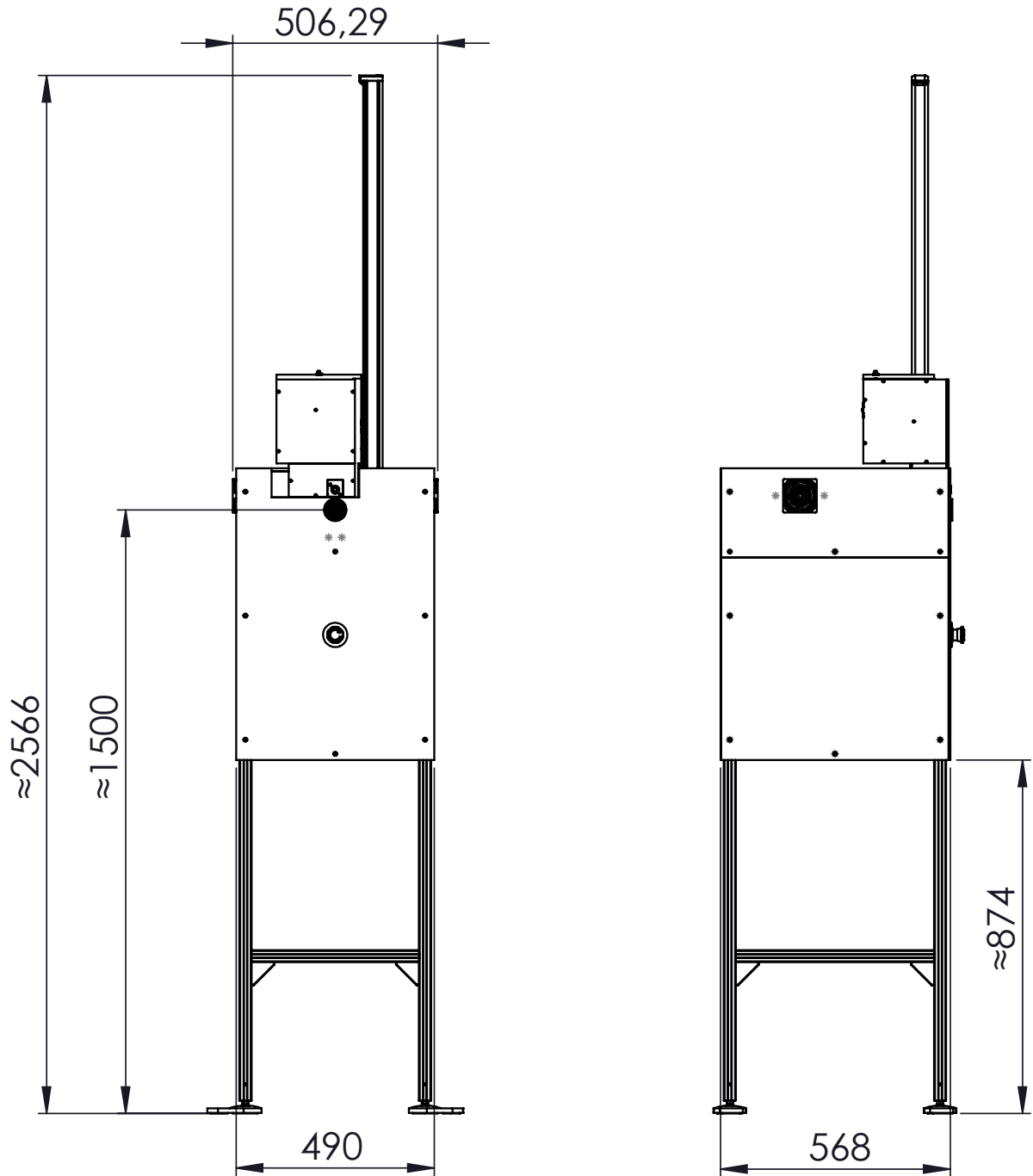
GL OPTIC POLSKA Sp. z o.o.

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



Light quality control

GL RETROREFLECTOMETER 4.0 SRS



Note: This technical sheet is dated January 2nd, 2024. 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.