



Light quality control



Approval of LED and Blackout lights in military vehicles

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Providing excellent visibility at night and maintaining a low profile for covert operations are critical performance parameters for military vehicle lighting systems. The design, development and production quality control of such lamps can be supported by plug-and-measure photometric systems built by GL Optic. GL Optic provides a range of solutions for testing and measuring LEDs, OLEDs and other types of lighting products used in vehicles and other systems.

We have extensive experience not only in the verification of individual LEDs, LED modules, but also lighting assemblies mounted in electronics. Our easy-to-use solutions help electronic and optical engineers to verify components at the R&D stage and to test the compliance of the final product. Complete, calibrated and easy to use instruments provide immediate results for photometric quantities such as intensity [cd], luminance [cd/m²] or luminous flux, along with full colorimetric characterization allowing verification of the x, y color bins.

Modern military vehicle technology uses LED sources and lamps to improve the operator experience and enable better performance design. Bright LED indications and backlit icons, as well as lamps in different shapes and sizes, must be measured to ensure color consistency, intensity values or spatial distribution patterns.

Blackout, taillights and headlights must be tested according to industry standards. Our systems allow for immediate testing and approval of any light-emitting source. GL Optic offers pre-configured, calibrated and accessible systems.



The **GLG A 50-1800 GONIOPHOTOMETER** is designed for daily use in R&D laboratories and product compliance testing centers, where reliable data is provided by truly user-friendly photometric instrument system.

In accordance with industry standards this goniophotometric system is prepared for photometric testing of LED vehicles and other types in light intensity distribution in H,V coordinates. Robust design, user-friendly interface and highest accuracy available for the fast -growing industry.

**GL GONIO PHOTOMETER
GLG A 50-1800**



▶ See more

Faster lamp testing

The default measurement instrument included in the system is the **GL PHOTOMETER 3.0 LS + Flicker**, which is designed for On Fly (non-stop) measurements of automotive and other lamps on the goniophotometer.

The high sampling rate combined with the high sensitivity of the sensor allows continuous measurement of the LED during the smooth movement of the DUT (Device Under Test). Thanks to the absolute encoder readings, the required data can be obtained in a much shorter time.

GL PHOTOMETER 3.0 LS + Flicker

takes many thousands of measurements per second to precisely reproduce the photometric Luminous Intensity Curve for each plane. Results are obtained much faster and a quick scan of an LED lamp can be performed in as little as a few minutes or a full scan of asymmetric lamps with variable light distribution in less than half an hour. With this super-fast measuring device, additional light modulation characteristics for turn lights and emergency beacons are available using the flicker measurement function.

GL PHOTOMETER 3.0 TEC + FLICKER



Need to measure color?

The GL goniospectrophotometer design offers a ready-made LED light measurement system that can be fitted with one of our optional spectroradiometers to add full color measurement capability.

The **GL SPECTIS 5.0** can be used for advanced systems including extended spectral analysis also beyond the visible range, from UV to NIR, of angular distribution sources in various applications.



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GL Optic's measurement instrumentation is manufactured in Poland.
Poland is also home to the CARLO Calibration and Research Laboratory for Optical Radiation,
which, as an independent unit, develops calibration procedures based on state-of-the-art
infrastructure.

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