GL OPTIC
Light quality control

Performance testing of infrared night vision systems

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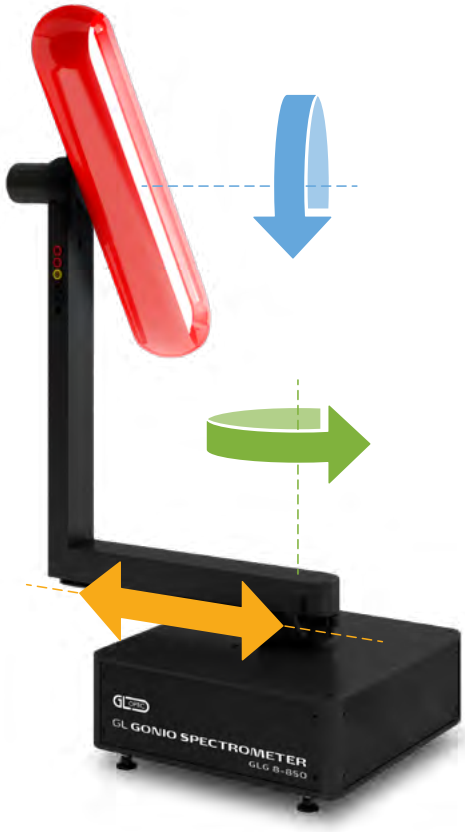
Night vision can be improved with precisely designed and efficient sources of Infrared active emission. For this purpose, new IR LEDs are now being used in purpose-built optical systems. GL Optic offers a comprehensive selection of photometric and radiometric equipment for tests and measurements beyond vision.



GL GONIOMETER
GLG 8-850

GL SC RADIOMETER + FLICKER

For development teams, systems engineers and purchase staff

Whether you are developing new lighting systems or purchasing IR emitting sources, your knowledge of their actual performance is important. IR LEDs and other lighting systems require both photometric and angular distribution testing to confirm their practical use in the field. Providing IR illumination in a specific direction and at the required range can prove critical on the battlefield.

If you are introducing new systems and want to offer the best technological solutions, then **GL GONIO SYSTEMS** are the best choice for quality control of VIS and IR lighting products.

This easy-to-use system combines the functionality of a goniophotometer with the features of a spectroradiometer to measure total radiant flux and check angle-dependent irradiance distribution using spectroradiometric data.

The upgraded version of the **GL GONIOMETER GLG 8-850** is a bench-top goniometer specifically designed for testing VIS and IR LED modules and components. The kit can also be used for validation measurements of smaller automotive lamps. The automated PC-based system can hold devices weighing up to 8 kg and with a diameter of 850 mm. Measurements are made with an angular resolution of 0.1° and in the C-plane and λ angle of +/- 180°.

IR LEDs Radiant Intensity Distribution (RID) measurement

The combination of the goniometric system with our Spectrally Corrected Radiometer allows full optical characterization of NIR LEDs, including angular intensity distribution plots. A high-sensitivity, high-sampling-frequency (125 kHz) radiometer capable of extensive light modulation measurements in addition to simple radiometry. This configuration supports fast and precise measurements of the invisible optical radiation of LEDs and other sources used in Night Vision Systems.

All hardware components of the system are calibrated and ready to measure optical radiation outside the visible range and are supported by a single software interface.

Contact us to find out more about specialized IR illumination measurement instruments:

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