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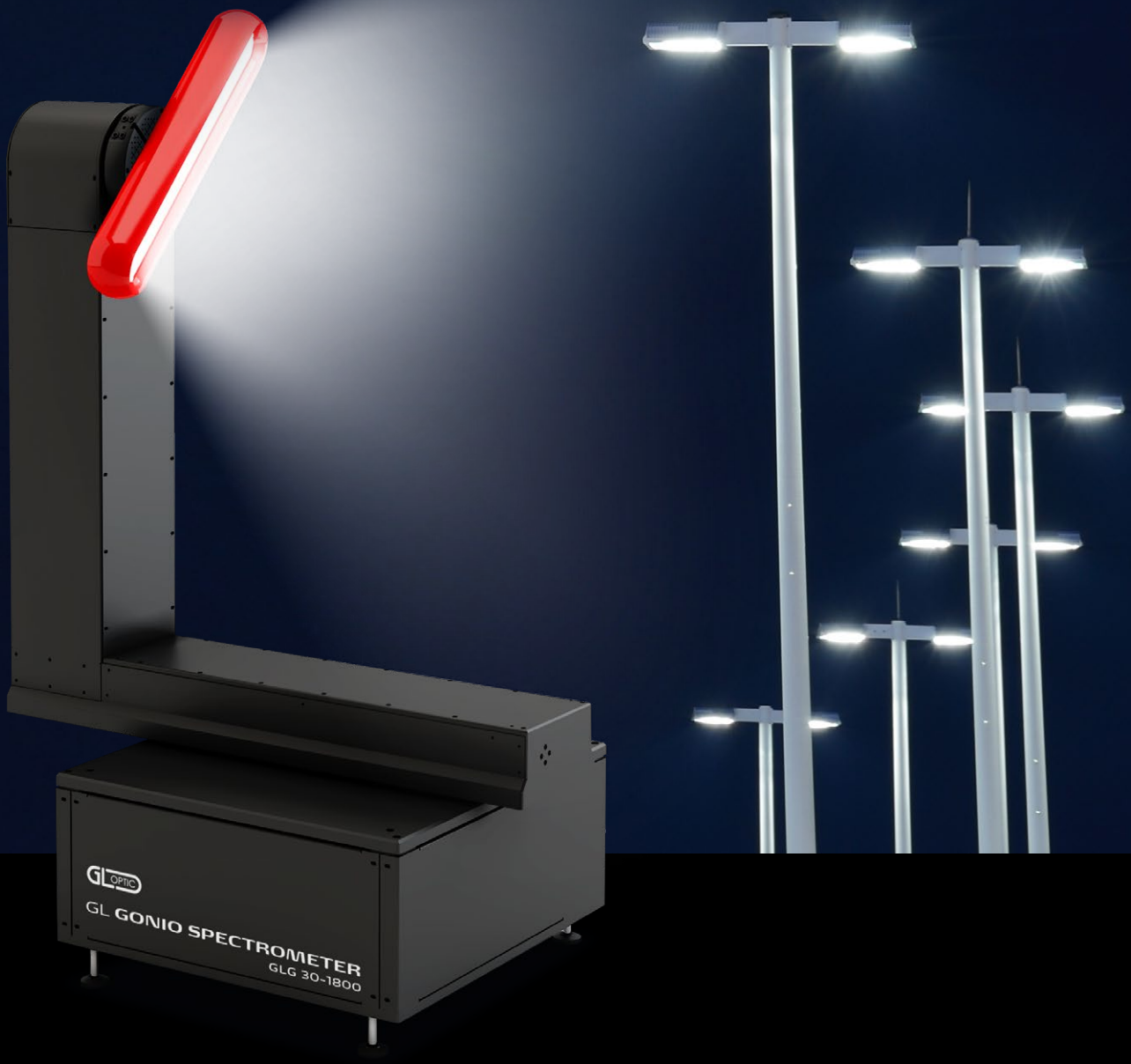
Light quality control



Goniophotometric On-fly measurements

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Discover a new quality of fast goniophotometric On-fly measurements and enjoy the results up to 10 times faster than standard point-to-point measurement mode. Now our goniophotometric system can be coupled with the new model of a fast photometer **GL PHOTOMETER 3.0 LS + Flicker.** Such connection gives all benefits of our existing goniophotometric solutions adding the advantage of fast On-fly measurements.

Both, spectroradiometric and photometric measurements are made at the same time during one goniophotometric measurement.

In standard goniophotometric measurement both goniometer arms have to move from point to point throughout a measurement grid and stop each time to carry out the measurement. Depending on the specified density of the measurement grid it can last many hours.

During On-fly measurement a goniometer arm moves from one extreme position to the other with constant speed while measuring devices are scanning light distribution of a rotating DUT (Device Under Test). In the course of On-fly measurement a **GL PHOTOMETER 3.0 LS + Flicker** makes many thousands of measurements per second to precisely reproduce a photometric Luminous Intensity Curve for each plane. At the same time spectroradiometric measurements are collected and used for calculations of colorimetric parameters and angular colour uniformity. Advanced signal filtering and interpolation algorithms provide a proper point projection of measurements in the resulting LDT and IES files.

What is the most important, similar results are obtained much faster. Customer can make a fast scan of a LED lamp even in a few minutes or full scan of an asymmetric street lamp with variable light distribution in less than half an hour.

GL PHOTOMETER 3.0 LS + FLICKER

Sample measurement case:

Configuration:

- LED lamp 1800 mm x 50 mm
- C step (vertical arm) 5° (range 0°-360°)
- Gamma step (horizontal arm) 1° (range 0°-90°)
- Downlight asymmetric distribution

Measurement time:

- Standard measurement using step mode with a spectroradiometer takes 3.5 h
- Fast on fly measurement using **GL PHOTOMETER 3.0 LS + Flicker** with **GL SPECTIS 1.0** takes only 18 min

On-fly SET

Ordering information:

On-fly SET for GL goniometric systems consists of:

- **GL PHOTOMETER 3.0 LS + Flicker**
- **GL STRAY LIGHT TUBE** for PHOTOMETER
- **GL Tripod**

New goniometric system installation

New customers can choose a version of the goniometric system that meets their requirement. On-fly SET can be treated as a recommended hardware extension that adds On-fly measurement feature to a goniometric system.

Retrofitting of existing goniometric systems

Customers using our goniometric systems can equip an existing installation with an On-fly SET. It is enough to update **GL SPECTROSOFT** to the latest version and configure **GL PHOTOMETER 3.0 + Flicker** to use the new on fly SET measurement feature.

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