PROBES

PHOTONICS

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Partner **GL Optic**

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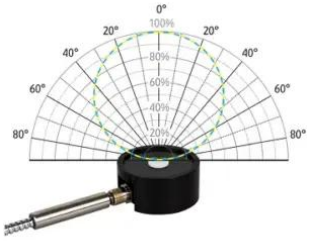
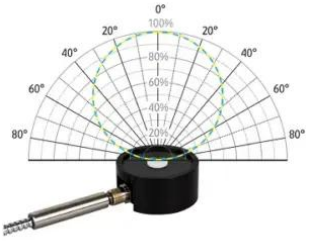
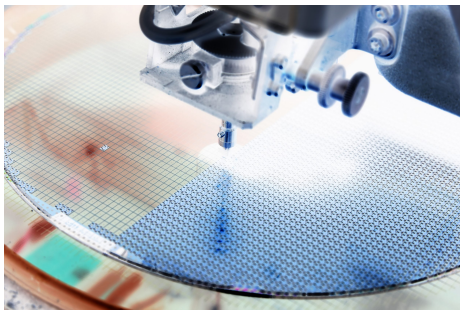
	

LUMINANCE / RADIANCE

Optic probes for measuring luminance and radiance. Connect with any of our spectroradiometers.

To be able to match the best optical probe to customer’s needs, it is important to know what the client has to measure, which quantities they need to deliver, how wide a spectral range has to measure in and which measuring area diameter will be satisfied with.

GL Optic offers variety of optical probes for luminance/radiance measurements. They differ in spectral range and a type of optic fiber.



Each complete set includes a measuring probe, a fiber optic cable, and adapter for a dedicated spectrometer. Includes calibration traceable to national laboratories.

All GL Optic Spectrometers include smart system of detection that automatically detects a new probe and loads the appropriate calibration file.

Constructed of high transmission quartz fiber optics, these optical probes can cover a broad spectral range from UV to NIR (200-1050 nm).

GL OPTI PROBE 1.0.10 Luminance

This accessory is intended for measuring luminance [cd/m2] of flat LCD and OLED panels and plasma FPDs. Typical devices to be tested are: television screens, computer monitors, avionics displays and other electronic displays and where there is a need to measure reflective surfaces – also walls and workplaces, projection screens and signs.

This optic probe measures the light emitted in a particular direction by a given spot on the surface of a relatively large or extended source. The measuring probe can be installed on a tripod for distance measurements or directly on a screen with the use of a special stripe for contact measurements. The optic probe connects to GL SPECTIS 1.0 or GL SPECTIS 1.0 Touch. The probe comes with polymer fiber optic cable. Usable spectral range: 400-730 nm.

GL OPTI PROBE 1.0.11 Luminance

This optic probe has a pen shape with just 1 mm measuring point diameter and comes with a flexible fiber optic cable. It is especially useful when it is necessary to measure small areas. The optic probe connects to GL SPECTIS 1.0 or GL SPECTIS 1.0 Touch.

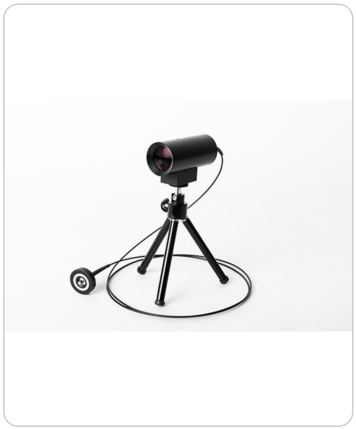
This accessory is intended for measuring luminance [cd/m2] of flat LCD and OLED panels and plasma FPDs. Typical devices to be tested are: signal indicators, avionics and other electronic displays. This optic probe measures the light emitted in a particular direction by a given spot on the surface. The probe comes with polymer fiber optic cable. Usable spectral range: 400-730 nm.

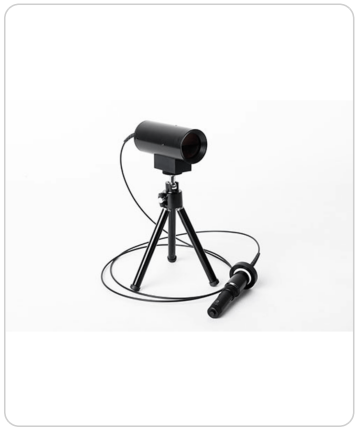
GL OPTI PROBE 1.0.12 Luminance

Luminance measuring telescope with optic fiber ensures perfectly parallel beam of observation. Can be fitted on tripod. Spot diameter 8 mm at distance 0.5 m. Spectral range 400-1050 nm.

Luminance measuring telescope ensures perfectly parallel beam of observation. For measurement of flat displays, LCD, LED and OLED panels and other projection displays. The set includes a measuring probe, a

fiber optics as well as an adapter with a coder for GL SPECTIS 1.0 spectrometers. Probe can be fitted on tripod.

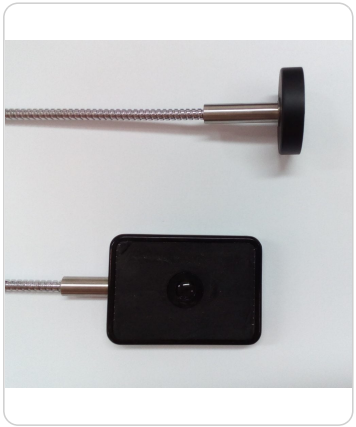
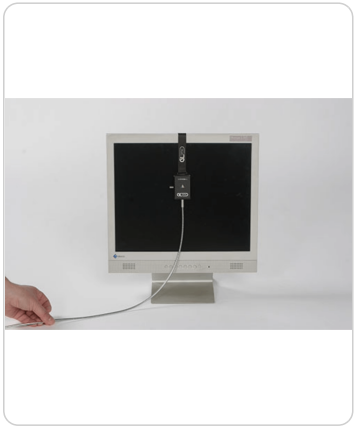




GL OPTI PROBE 5.0.10 Luminance

Luminance probe for point measurement of flat displays, LCD, LED, OLED panels, projection displays and indicating lights. The set includes a measuring probe, quartz fiber optics and an adapter with a coder for GL SPECTIS 1.0 series spectrometer as well as a counterweight with a strap for hanging over the measured screen.

The frame of the probe is ready to accept a standard photographic tripod. This probe covers the full spectral range from UV to IR within the range of the used spectrometer. N.A.=0.20.

GL OPTI PROBE 5.0.51 Luminance

Pen type luminance probe for point measurement of flat displays, LCD, LED OLED panels, projection displays and indicating lights. The set includes a measuring probe, quartz fiber optics as well as an adapter with a coder for GL SPECTIS 5.0, 6.0 and 8.0 spectrometers. This probe covers the full spectral range from UV to IR within the range of the used spectrometer. N.A.=0.20.

Applications include measuring luminance on flat panels like LCD, OLED, and LED screens for TVs, monitors, and avionics displays, as well as evaluating radiance from projection screens, signage, reflective surfaces such as walls or workplaces, and precise point measurements on small spots for indicator lights and electronic displays.

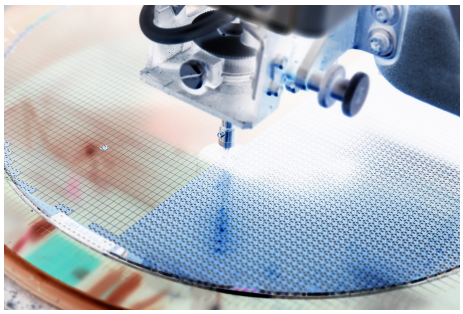
For more information, simply complete the contact form, and a member of our team will be in touch shortly.

ILLUMINANCE / IRRADIANCE

Optic probes for measuring luminance and radiance. Connect with any of our spectroradiometers.

There are different optical quantities and a range of different measurement geometries that require the use of dedicated probes. As a full line manufacturer, we offer a variety of optical probes for photometric and radiometric measurements that differ in spectral range, degree of cosine correction and a type of optic fiber.

Irradiance and illuminance probes are available for all our spectrometers, and designed for each system based on the spectral range and optical performance of the instrument.



Each complete set includes a measuring probe, a fiber optic cable, and adapter for a dedicated spectrometer. Includes calibration traceable to national laboratories.

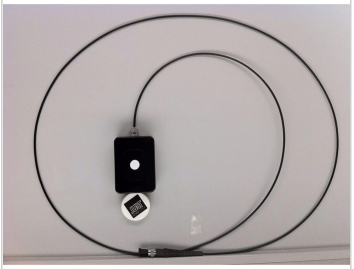
All GL Optic Spectrometers include smart system of detection that automatically detects a new probe and loads the appropriate calibration file.

High accuracy and performance no longer also mean high complexity. Our solutions deliver reliable, repeatable results without needing highly specialized operators.

GL OPTI PROBE 1.1.10 Illuminance

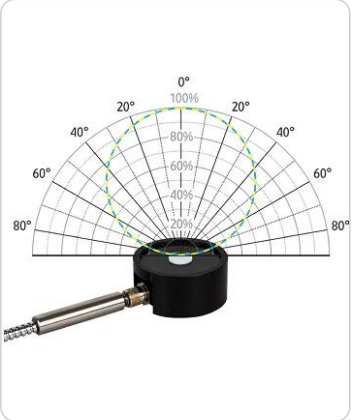
Submersible illuminance/irradiance probe for underwater measurements. The set includes a measuring probe, polymer fiber optics as well as an adapter with a coder for a GL SPECTIS 1.0 series spectrometer. The set can be spectrally calibrated only in a range above 400 nm. N.A.= 0.22.

This GL OPTI PROBE measures the amount of luminous flux incident upon a surface per unit area, measured in optical quantities of illuminance [lx] or PAR energy [W/m²].



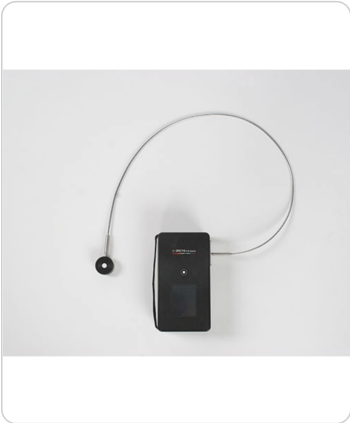
GL OPTI PROBE 5.1.10 Illuminance

Irradiance / illuminance diffuser with quartz glass fiber optic for extended spectral irradiance measurements. The set includes a measuring probe, quartz fiber optics as well as an adapter with a coder for GL SPECTIS 1.0 series spectrometers. This probe covers the full spectral range from UV to IR within the range used by the spectrometer. N.A.=0.20.



GL OPTI PROBE 5.1.50 Illuminance

Irradiance / illuminance diffuser with quartz glass fiber optic for extended spectral irradiance measurements. The set includes a measuring probe, quartz fiber optics as well as an adapter with a coder for GL SPECTIS 5.0, 6.0 and 8.0 spectrometers. This probe covers the full spectral range from UV to IR within the range of the spectrometer used. N.A.=0.20.



Applications include illuminance and irradiance measurements in indoor lighting, LED testing, display inspection, and photometric quality control.

For more information, simply complete the contact form, and a member of our team will be in touch shortly.