

GL OPTI SPHERE 205 and GL SPECTIS 1.0 Light Measurement Set

v.1.0 (2013.02.10)

Dear Customer,

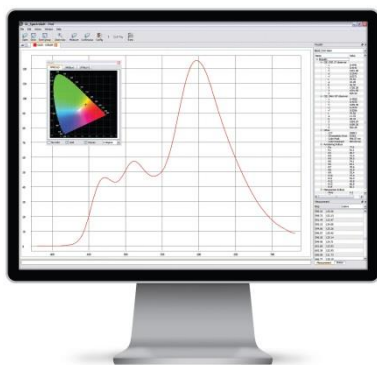
thank you for buying GL Optic products!

This short manual will show you the basics on how to handle our instruments and what accessories are available. Should you have additional questions please contact us under office@gloptic.com or contact your dealer.



GL SPECTIS 1.0 UV – VIS 340 - 750nm
GL SPECTIS 1.2 VIS – NIR 640 - 1050nm

Precise spectrometer in a handy size. Including SPX software pack for obtaining the native measurement data for further analysis. Spectral range 340 - 750nm or 640 – 1050nm; physical resolution 1,7nm – 1,8nm; USB power supply; inclusive of absolute factory calibration.



GL SPECTRO SOFT

Spectral analysis software for color calculation conforming to CIE 1931 2° XYZ; xy; CIE 1964 10°, uv; u'v'; graphical representation, absolute or relative measurements, automatic normalization, helpful tools for further analysis of spectra.



GL OPTI SPHERE 205

Integrating sphere for luminous flux measurement. Ideal for medium sized LED arrays testing; color coordinates x,y and CCT measurement. Conforming to CIE 127 standard for measurements of LEDs. Equipped with adjustable sample post for 2 π and 4 π measurements. Featuring auxiliary light source for self-absorption correction and the precisely designed entrance 50mm aperture for partial flux measurement. Inclusive of coder for automatic calibration file download. Sphere diameter 205mm. Absolute factory calibration. Barium sulfate inner coating.

GL SPECTIS 1.0 is delivered in a protective case.



The spectrometer is connected with your PC via USB cable - included in the package.



NOTE: This way you can measure Illuminance of different light sources or complete lighting installation in lux and the scaling of the spectra will be in radiometric values $\mu\text{W}/\text{m}^2/\text{nm}$.

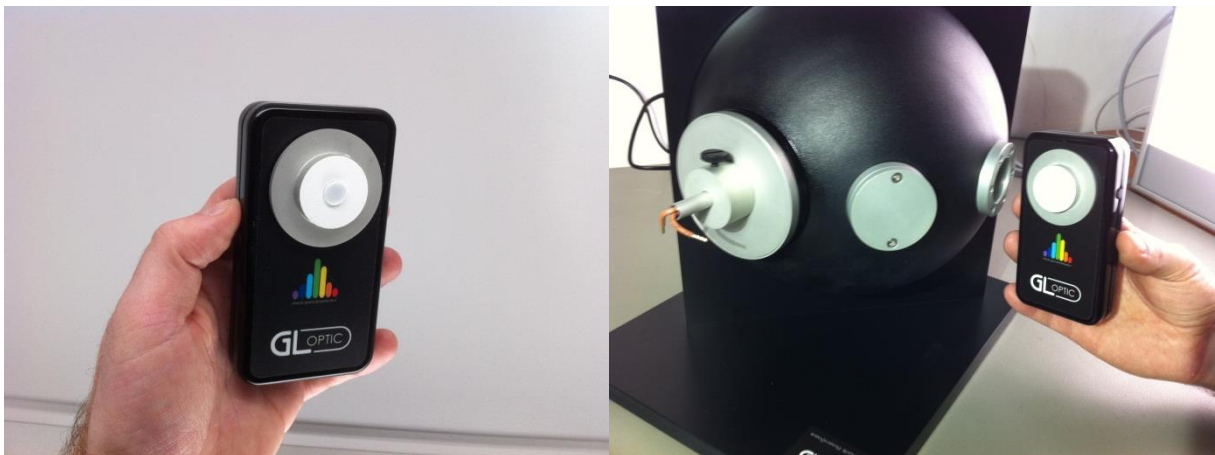
The standard measuring head can be removed - twist to remove.



Now you can attach the adapter from the integrating sphere to your spectrometer. To do this you should first take out the adapter from the port of the sphere.



The adapter is placed on top of the spectrometer. The coding system detects the accessory and when you start measurements the software will download the proper calibration file for the sphere.



NOTE: This integrating sphere is designed for the luminous flux measurement result is calculated in lumens and the scaling of the spectra shows radiometric values $\mu\text{W}/\text{nm}$.



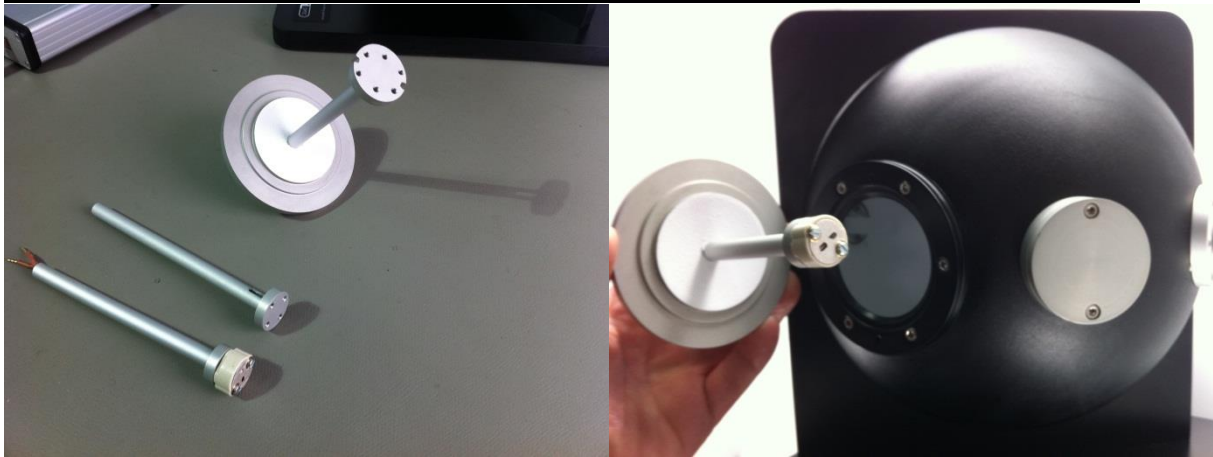
Another accessory is the USB Current Source Controller. It is connected to your PC with USB cable and with the auxiliary light source cable to the jack socket.



The USB Controller is used to drive your auxiliary light source during the Self Absorption Calibration. Additionally Black and Red sockets can control the external current source to flash the tested Source during the measurements. This Photo shows the complete set including the spectrometer, GLS 205 and the USB Controller. **NOTE: connect the Controller to your PC with USB cable.**



Various types of adjustable sample posts are available for 2π and 4π measurements.



This is an overview of ports and measurement geometry of the GL OPTI SPHERE 205.



The analytical software GL SPECTRO SOFT is delivered on a CD and the HASP Key protects it from any misuse.

