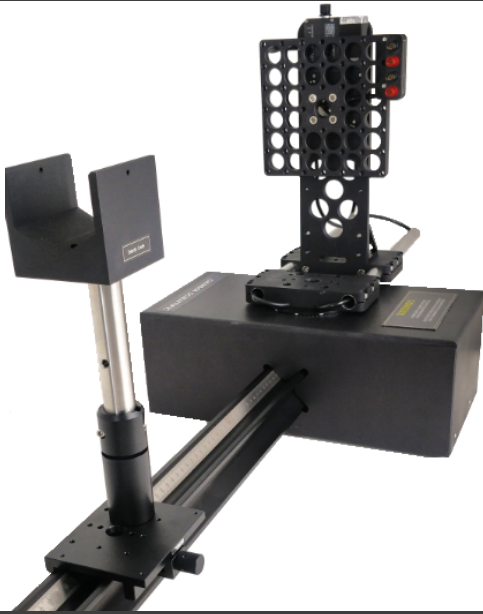


## 940 LED-200 Series Goniometers



The 940 LED-200 Series Goniometer is optimized to provide precise measurement of angle dependent spatial radiation properties of LEDs and small luminaires, accommodating sample sizes up to 200 mm in diameter.

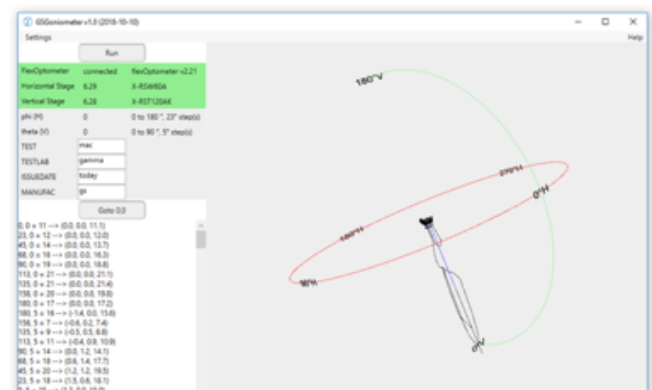
940 LED Goniometers can be combined with a Gamma Scientific Spectroradiometer or UDT Series photometer depending on your specific measurement needs. Combining the goniometer with a spectroradiometer allows for measurement of luminous flux, color coordinates and CRI. Connecting the goniometer to a photometer provides fast measurements of spatial light distribution.

## Precision Solutions for Angle-Dependent Spatial Radiation Properties

Our wide range of light measurement instrumentation is complemented by ISO/IEC 17025 accreditation by NVLAP (NVLAP lab code 200823-0), resulting in unmatched performance, traceable standards and highly precise custom calibration options.

### Key Features:

- Optimized for precise measurement of LED and LED luminaires
- Maximum flexibility; can be seamlessly integrated with our broad range of spectroradiometers and photometers
- Conform to CIE, DIN and IES standards



During the measurement, the real time intensity data is shown on the 3D plotter, as well as a recording of the positions measured on the bottom left window. This helps the user verify that the sample & instrument are working as expected

Parameter	Value
CIE Goniometer Type	Type C with horizontal optical axis
Driver	Stepper motor
Angular Range C (horizontal) Axis	$\pm 360^\circ$ with end switches
Angular Range Gamma (vertical) Axis	$\pm 180^\circ$ with end switches
Resolution of Angle encoder	0.01°
Reproducibility of C-Axis	$\leq 0.1^\circ$ at maximum sample load
Reproducibility of Gamma-Axis	$\leq 0.05^\circ$ at maximum sample load
Angular Speed of C-Axis	16 speeds (minimum) selectable to maximum 25° / second
Angular Speed of Gamma-Axis	16 speeds (minimum) selectable to maximum 14° / second
Travel Range Z-Axis	75 mm
Equipment Setup	Stable base with integrated controller
Height	483 mm
Width	402 mm
Depth	1750 mm**
Weight	8 kg
Interface	USB for connection to PC
Power Supply	115 / 230 VAC 50/60 Hz
Power Rating	120 W max
Environmental	0 to 35° C      Relative Humidity 0 to 90% non-condensing

\*\* Includes the measurement rail

Sample Table	
Mounting Plate	160 mm diameter
Maximum Sample Size	200 mm diameter
Maximum Sample Mass	0.25 kg

Specifications are subject to change without notice.

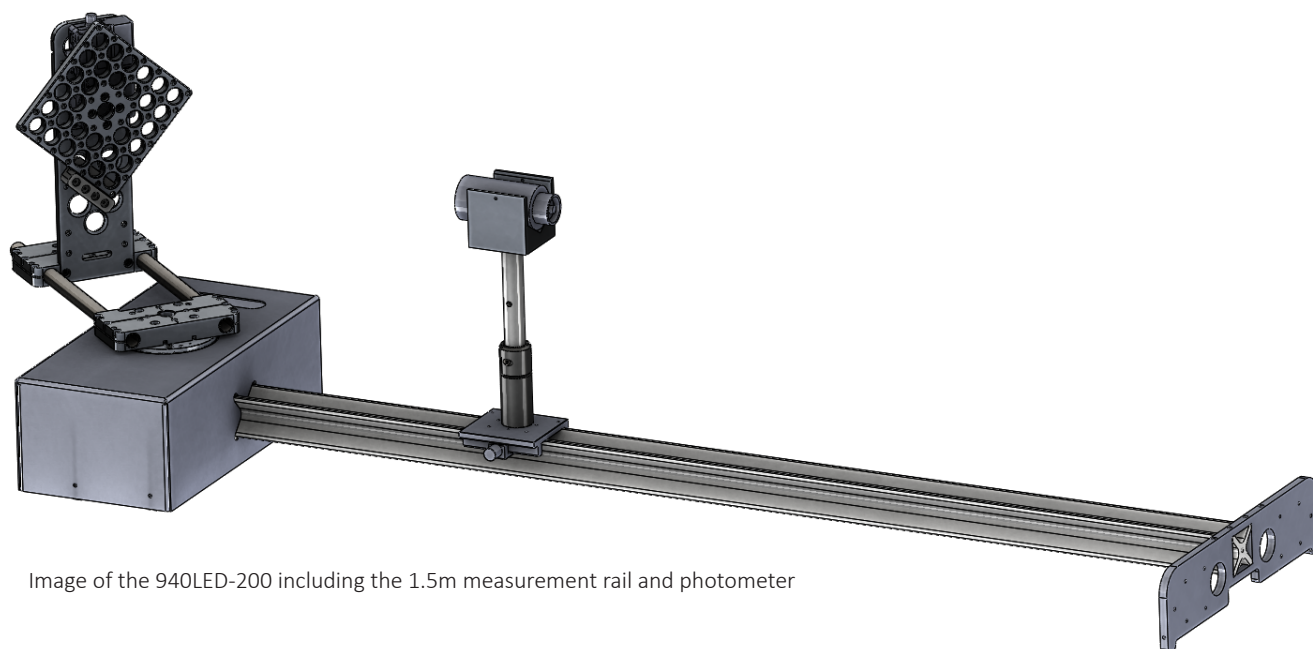


Image of the 940LED-200 including the 1.5m measurement rail and photometer