

Gamma Scientific's 940 LED Series Goniometers are optimized to provide precise measurement of angle dependent spatial radiation properties of large LED luminaires, lamps and modules.

Two models are available for measuring different samples sizes.

The 940 LED-1200 measures samples up to 1250 mm in diameter and 50 kg in weight.

While the 940 LED-1850 measures samples up to 1850 mm in diameter and 50 kg in weight

The 940 LED-1200 and LED-1850 are both in conformity with CIE, DIN and IES standards.

Original system calibration is performed in Gamma Scientific's ISO-17025, NVLAP (Lab Code 200823-0) accredited testing and calibration laboratory in San Diego, California.

All Gamma Scientific instruments are distinguished by their value, providing unmatched quality at competitive prices.

COMPLETE GONIOMETRIC MEASUREMENT SYSTEMS

940 LED Goniometers can be combined with a Gamma Scientific Spectroradiometer or UDT Instruments 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.



Gamma Scientific 940 LED Goniometer Measuring an LED T8 Tube Light

KEY FEATURES

- Optimized for precise measurement of LED luminaires, lamps and modules
- Multiple models for measuring different samples sizes
- Maximum flexibility: can be combined with a spectroradiometer or photometer depending on your testing application
- In conformity with CIE, DIN and IES standards
- Original system calibration is performed in Gamma Scientific's ISO-17025, NVLAP (Lab Code 200823-0) accredited testing and calibration laboratory in San Diego, California

940 LED Series Goniometer Specifications

	Model 940 LED-1200	Model 940 LED-1850
Equipment Setup	Stable base with integrated controller	
Height	1118 mm	1448 mm
Width	940 mm	940 mm
Depth	940 mm	940 mm
Weight	50 kg (approx.)	52 kg (approx.)
Height of Optical Axis	965 mm	1295 mm
Interface	USB for connecting to a PC	
Power Supply	115 VAC or 230 VAC 50-60 Hz	115 VAC or 230 VAC 50-60 Hz
Power Rating	120 W max	120 W max
Goniometer		
Goniometer Type	Moving Luminaire Goniometer	
Driver	Stepper motors	
Angular Range C (horizontal) Axis	±160° with end switches	
Angular Range Gamma (vertical) Axis	±160° with end switches	
Resolution of Angle Encoder	0.01°	
Reproducibility C Axis	≤0.1° (at max sample load)	
Reproducibility Gamma Axis	≤0.05° (at max sample load)	
Angular Speed C Axis	16 speeds (minimum) selectable to maximum 25°/s	
Angular Speed Gamma Axis	16 speeds (minimum) selectable to maximum 14°/s	
Travel Range Z Axis	311 mm	
Alignment Laser	Mounted in the center of rotation of the Gamma axis, 1 mW, laser class 2	
Sample Table		
Mounting Plate	350 mm diameter	350 mm diameter
Maximum Sample Size	1250 mm diameter	1850 mm diameter
Maximum Sample Mass	up to 30 kg	up to 30 kg

- Standard Operating Range for Gamma Scientific Instruments- Temperature: Minimum: 0°C (32°F) - Maximum: 35°C (95°F); Relative Humidity (Non- Condensing): Minimum: 20% - Maximum 70%

- The information contained in this data sheet is based on Gamma Scientific's internal evaluation and is subject to change at any time without notice.

- Revision date: February 26, 2016