LumaColor™ Photometer System

- Real-time Color Measurements
- Ten Memories for Storing Reference Colors (with J1810 color head)
- RGB Bar Graphs
- D6500 Kelvin Calibration
- Color Temperature Measurement
- Full Control of Measurements and Output of Results (RS-232)
- Analog Output

Features

- Interchangeable pre-calibrated heads
- Accurate spectral and cosine corrections
- Metric and English units user selectable
- Large LCD with backlight
- Rugged
- Handheld
- Adaptable to many light measurement needs
- Battery operated

Applications

- Automobile lighting
- Aircraft lighting
- Computer and television manufacturing and service
- Medical lighting
- Commercial and industrial lighting
- Photographic equipment manufacturing

The J18 system consists of a J18 handheld meter and one of several interchangeable heads (list below) which connect directly to the J18.

J1803 Luminance Head

- Video and projection screens
- Surface reflectance
- Computer displays

J1805 Head for LEDs - Output of red, yellow, green and blue LEDs

J1806 Radiance/Radiant Intensity Head - Display color balance

J1810 Chromaticity Head

- Measurement of Chromaticity and White Balance of color monitors
- Color Temperature of Light Sources

J1811 Illuminance Head

- Highway illumination
- Luminaries and lamps
- Workstation illumination
- Lighting for safety

J1812 Irradiance Head

- Laser experiments
- Infrared LED testing

Characteristics

	J1803	J1805	J1806	J1810	J1811	J1812
Measurement	Luminance	Luminance Intensity	Radiant Intensity	Chromaticity, Luminance	Illuminance	Irradiance
Applications	Displays, Television, Medical	LEDs	Displays, Television	Displays, Television	Highway lighting, Office lighting, Transportation	Lasers, IR LEDs, Research
Ranges	0.3 to 300,000 candelas/m^2 (Nit) 0.1 to 100,000 footlamberts	0.01 millicandelas to 10 candelas	0.001 to 200 W/m^2/sr	0.001 to 0.999 x, y and u', v' 0.3 to 1,000 candelas/m^2 (Nit) 0.1 to 300 footlamberts	0.01 to 5,000 lux (lm/$m^{2)}$ 0.01 to 500 footcandles	0.001 to 2,000 mW/m^2 0.1 nW to 0.2 mW
Spectral Response	CIE Photopic	CIE Photopic	Flat	CIE Tristimulus	CIE Photopic	Flat
Spectral Accuracy	f_1' = <3% (DIN Class A)	f_1' = <3% (DIN Class A)	±8% 450 to 750 nm	f_1' = <3% (DIN Class A)	f_1' = <3% (DIN Class A)	±8% 450 to 950 nm
Acceptance Angle	8°	8°	8°	16°	180° (Cosine)	96° (Approx.)
Other Features	Suction cup	LED adapters	Suction cup	Suction cup	Level and cover	Cover