PRODUCT LEAFLET

LIGHTSPION

Your own photometric lab in a suitcase - the most versatile, yet comprehensive measuring solution in the market. Use for in-house measurements as well as on-site investigation. Uses the same outstanding software as much larger equipment and provides a wide range of outputs - needles to say also .ies/.ldt

Linear lamp source bracket

Reference lamp included

EXCELLENT STANDARD FEATURES

The portable Viso LightSpion® enables you to fully measure any light source of up to 8 cm in diameter within 30 seconds. It measures all of the photometric data and no expert knowledge is required.

The LightSpion can even be used outside the dark room, making it a great tool for on-site inspections and also to empower your sales force.

The LightSpion is designed to measure small, symmetrical light sources such as household lamps and LEDs in one plane (two C-planes). More planes can be added manually.

An omni-directional reference lamp is included to enable verification of the calibration at any time.

The LightSpion includes a bracket that enables the system to measure (sections of) linear lamps, such as LED strips and tubes. Full length of the light source is typed into the Viso Light Inspector to provide the full photometric data.

The water protected case is sturdy but lightweight (5 kg, IP57))

The built-in power analyzer gives you power information instantly

Quick and easy, the system is pre-calibrated and ready to be used

The LightSpion is operated from your own PC with Light Inspector software installed

SPECIFICATIONS

For more information, please check www.visosystems.com or contact Viso Systems at info@visosystems.com

KEY ADVANTAGES

- Measures light sources up to 1 kg/ Ø80 mm
- A portable light measurement system, case is IP57
- All color and lumen data – no integrating sphere needed
- An advanced system which is very easy to operate
- Output as customizable reports or raw data

USING THE LIGHTSPION

The portable Viso LightSpion® enables you to fully measure any light source of up to 8 cm in diameter within 30 seconds. It measures all photometric data and no expert knowledge is required.

The LightSpion can even be used outside the dark room, making it a great tool for on-site inspections and also to empower your sales force. With a weight of only 5 kg and no sharp metal parts the LightSpion can brought as carry-on luggage on any flight.

The systems consists of a pre-calibrated spectrometer operating in the visible light range 360-830 nm, and a goniometer. The LightSpion measures the full spectrum from a light source and collects a full 360° photometric field distribution in two c-planes. Then, the software calculates CRI, color temperature, total flux in lumen and many other metrics. A built-in high-speed 70 K/sec power analyzer measures voltage and current and instantaneously presents precise information about power consumption and efficiency in lumen/watt.

The LightSpion® suitcase is easily connected to your computer via a USB connector. Included with the LightSpion is the Viso Light Inspector software. The user interface displays the measured data in a clear and simple way, while also allowing for very detailed analysis of the obtained raw data.

OPTIONAL: EXTENDER

The LightSpion Extender® is an excellent tool for measuring light sources that exceed 8 cm in diameter. The extender for the LightSpion enables you to measure light sources that are up to 22 cm in diameter and up to 5 kg in weight.

Manual rotation of the lamp in 45-degree steps (up to 8 c-planes) allows measuring even asymmetrical light sources.

TECHNICAL SPECIFICATIONS

Physical dimensions	**LightSpion**	**With extender for LightSpion (optional)**
Dimensions (L x W x H)	430 x 115 x 335 mm	1000 x 360 x 210 mm
Weight	5 kg	7 kg
Ingress protection (water/dust)	IP57	(for lab use)
Photometric Specifications		
Measurement method	Far field, type C horizontal	Far field, type C horizontal
Spectrometer range	350 - 800 nm	350 - 800 nm
Sensor distance range	66 cm	66, 115 and 182 cm
Sensor distance setup and c-plane rotation	Manual	Manual
Lamp diameter range	0 – 80 cm	0 – 220 mm
Lamp maximum weight	1 kg (with extender 4 kg)	4 kg
Sensor lux range	1,200 to 11,000 lux	
Sensor candela range (at distance from lamp from 0.1 m to 10 m)	0.5 cd 50,000 cd @ 66 cm	
Lumen and candela accuracy	LED < ±4%, other types < ±7.8%	
Color Temperature Range	1,000 K - 10,000 K < ±35 K	
Color Rendering Index	Up to 100 < ±0,7	
Resolution, Standard - Highest	7.5 Degrees/Step - 0.1 Degrees/Step (Auto-Detect)	
Number of c-planes	2 (Fixed) + 6 (Manual)	
Spectrometer Type /Detector	STS Ocean Optics / Panavision ELIS-1024	
Calibration / Re-calibration	Fully Calibrated Plug and Play Solution / Min. Every Two Years	
Electric		
Power Analyzer Range	0 - 3 A / 0 - 600 W @230 VAC / 0-300 W @110 VAC	
Input Power	90 -260 VAC, 50/60 Hz	

2020/09