

The BaseSpion® is a great tool for any light measurement laboratory and allows you to measure all medium-sized lighting products. The 2-axis goniometer system captures the full 3D light distribution and the color spectrum, thus giving lighting professionals all necessary data in one measurement.

## ALL-INCLUSIVE AND COMPACT

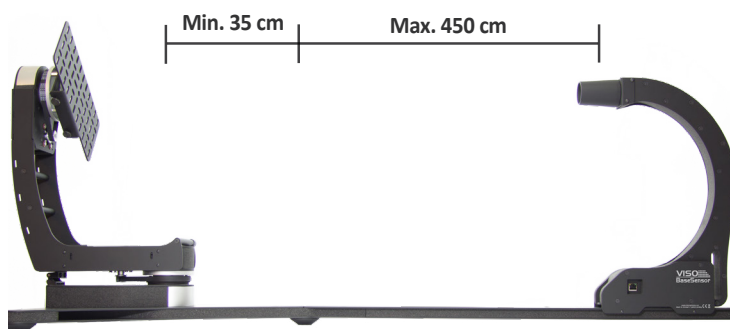
The BaseSpion is a professional laboratory bench-top light measurement system. It offers fully automated multiple c-plane measurements.

The heart of every Viso measurement system is the fast spectrometer sensor. With a spectrometer the system captures light spectra and not just light quantities.

This unique feature enables the system to measure much more than lumen packages, LDT/IES files and light distributions: All color data (e.g. CRI, CCT, TM30 etc.) and even color over angle. Hence, a Viso goniospectrometer will make an integrating sphere redundant.

Our spectrometer sensors are based on cutting-edge, transmission grating technology. Continuous (non-stepped) goniometer movement makes it possible to complete a c-plane measurement in only 30 seconds. This makes the data acquisition time for a light measurement exceptionally fast.

With the built-power analyzer and accessories such as Viso LabFlicker and Viso LabTemp your measurements will include all data in a single file.



The universal light source bracket easily clicks onto the goniometer



Before measurement, simply slide, align and lock the light source to the center



The base center lock makes it easy to align the light source to the center of rotation



The automatic sensor positioning system ensures accurate distance



# SPECIFICATIONS

For more information, please check [www.visosystems.com](http://www.visosystems.com) or contact Viso Systems at [info@visosystems.com](mailto:info@visosystems.com)

## KEY ADVANTAGES

- Measures light sources up to 9 kg/ Ø54 cm
- Fits into relatively small laboratories
- 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

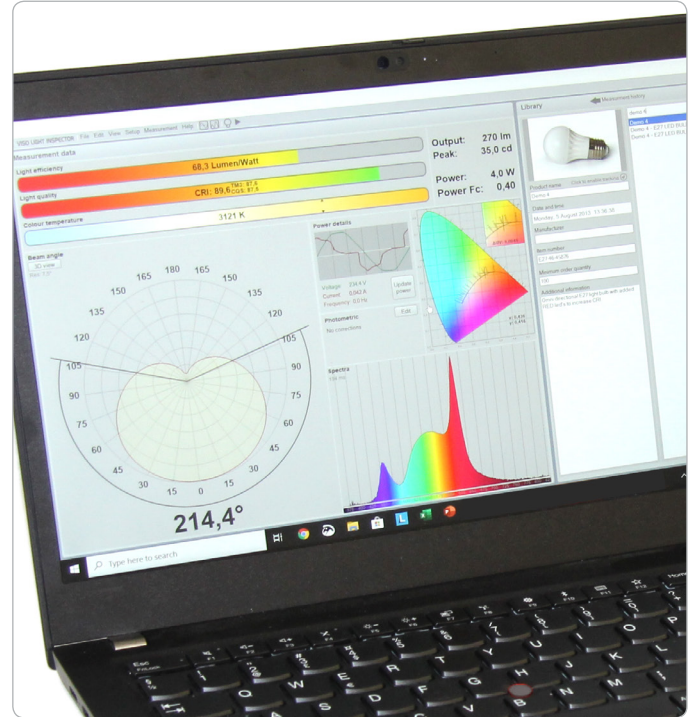
## USING THE BASESPION

The bench-top BaseSpion® is a great tool for any light measurement lab. The solution is ideal for measuring LED chips, modules, panels, downlights, bulbs and spots.

The installation process is simple: Place and level the base of the BaseSpion on a steady surface, preferably in a dark room. Mount the goniometer arm and the spectrometer sensor on the base and the system is fully operable within 20 minutes. The distance between light source and sensor is detected automatically. The BaseSpion system is then ready for measurement.

Install the Viso Light Inspector software, connect your laptop to the built-in power analyzer in the base, and start measuring. The process is automatic with the option of manual operation. Data acquisition from a single c-plane takes 15-30 seconds, which means that it takes roughly 15 minutes to collect data from all planes.

Measurement data is then automatically saved in a specific folder in the form of fixture files. They are usually exported into PDF, PNG, IES, LDT and CSV formats. You can create your own custom PDF report templates.



The Viso Light Inspector software is included. The software controls the fully automatic measuring process, all settings and outputs and your measurement library. User-friendly graphics and plenty of output options at your fingertip.

## TECHNICAL SPECIFICATIONS

### Physical dimensions

Dimensions (L x W x H)  
Weight

### BaseSpion

2050 - 3600 x 560 x 550 mm  
38 kg

### Photometric Specifications

Measurement method  
Spectrometer range  
Sensor distance range  
Sensor distance setup  
c-plane rotation  
Light Source diameter range  
Lamp maximum weight

Far field, type C horizontal  
360 - 830 nm  
0.5 - 80 m  
Laser Range Finder  
Automatic  
0 - 1.5 m at 2-axis,  
25 kg

Sensor lux range (equal to cd @ 1 m)  
Sensor candela range (at distance from lamp from 0.5 m to 4.5 m)  
Lumen and candela Accuracy  
Color Temperature Range  
Color Rendering Index  
Resolution, Standard - Highest  
Number of c-planes  
Spectrometer Type /Detector  
Calibration / Re-calibration

0.20 - 200,000 < ±2,5% lux  
0.05 cd @ 0.5 m to 4,000,000 cd @ 4.5 m  
< ± 4%  
1,000 - 4,000 K < +/-35 K  
Up to 100 < ±0,7  
5 Degrees/Step - 0.1 Degrees/Step (Auto-Detect)  
2 - 144 planes  
Ibsen Photonics FREEDOM / Hamamatsu S11639-01  
Fully Calibrated Plug and Play Solution / Min. Every Two Years

### Electric

Connection  
Power supply input  
Power Analyzer Range

USB  
90 to 260 VAC, 50/60 Hz  
0 - 3 A / 0 - 600 W @230 VAC / 0-300 W @110 VAC