

**VISO**  
SYSTEMS



**LIGHT MEASUREMENT  
MADE EASY**

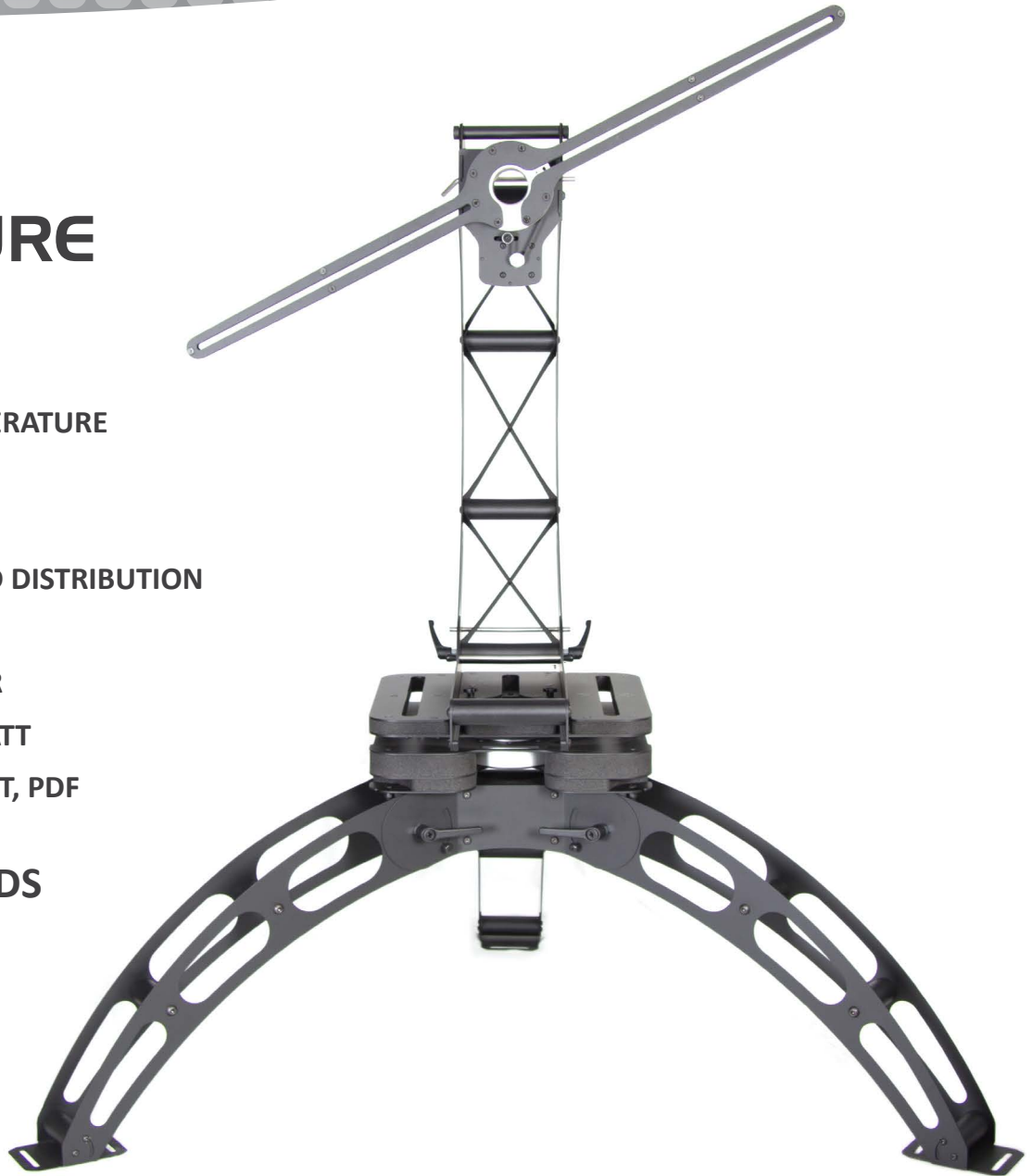
# LABSPION

The LabSpion® is a complete light measurement solution covering all light sources from small lamps, LED chips, large panels and street lamps. The 2 axis goniometer enables the system to measure the full 3D distribution field of any lamp giving lighting professionals, comprehensive LDT and IES simulation files.

## MEASURE

- ▶ LUMEN
- ▶ PEAK CANDELA
- ▶ COLOUR TEMPERATURE
- ▶ CRI, CQS
- ▶ BEAM ANGLE
- ▶ ANGULAR FIELD DISTRIBUTION
- ▶ POWER
- ▶ POWER FACTOR
- ▶ LUMEN PER WATT
- ▶ EXPORT: IES, LDT, PDF

## IN 30 SECONDS



The 2 axis goniometer gives you full 3D light distribution.



Just plug in the USB. Everything is fully integrated



The main board easily slides out for a quick service or repair.

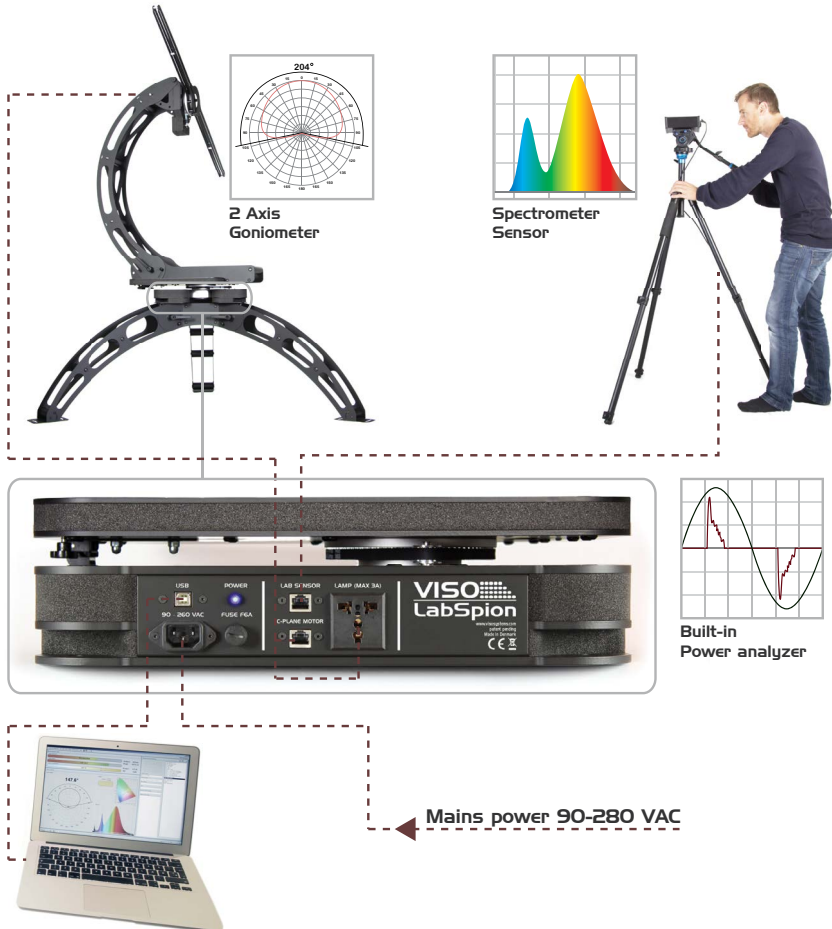


The intergrated laser makes it easy to setup measurement distance.



Using a spectrometer sensor and a built-in power analyzer, the unique Viso technology enables fast measurements and ensures all data to be measured quickly, making other equipment such as integration spheres redundant.

## EASY CONNECTIVITY



## REFERENCE LAMP



The LabSpion includes a tungsten irradiance reference lamp and auto ramp-up power supply. This reference lamp can be used to verify your calibration at any time without the need for external support. It is easily mounted in the center bracket of the LabSpion.



### PHYSICAL DIMENSIONS

Shipping weight	86 Kg
Dimensions (L x W x H)	190 x 190 x 162,5 cm
Weight	74 Kg
Sensor distance	0.5 to 50 m
Sensor distance	>= lamp length x10
Sensor distance setup	Laser range finder (build into sensor)
Lamp diameter range	0 – 1,5m at 2 axis (1 axis up to 6m)
Lamp maximum weight	25Kg

### ELECTRICAL

Power supply input	90 to 260 VAC, 50/60 Hz
Power analyser voltage range	30VAC-400VAC <+/- 0.2V
Power analyser current range	0A-3A (Avg: +/- 0.1mA)
Power analyser power range	0W-300W (Avg: +/- 0.001W)
Power analyser sample rate	70.000 samples/sec

### PHOTOMETRIC

Measurement method	Far Field
Lumen and candela accuracy	+/- 4 %
Max flux, lumen @ 10m	3,000,000
Max flux, lumen @ 20m	12,000,000
Max flux, lumen @ 40m	48,000,000
Max intensity, candela @ 10m	1,000,000
Max intensity, candela @ 20m	4,000,000
Max intensity, candela @ 40m	16,000,000
Colour temperature	1.000K-10.000K <+/- 35K
Colour rendering index	0-100 <+/- 0,7
Angular resolution LOW MODE	2 degrees/step
Angular resolution HIGH MODE	0,5 degrees/step
Spectrometer type	Ibsen Photonics FREEDOM
Custom viso	(high sensitive transmission grating)
Spectrometer range	360-830nm (1024 pixels)
Spectrometer detector	SONY ILX511B
Calibration	Fully calibrated plug and play solution

# LIGHTSPION

The portable Viso LightSpion® enables you to fully measure any light source within 30 seconds. It measures all the photometric data, while no expert knowledge is required. The LightSpion can even be used outside of a laboratory or dark room. Making it a great tool for on-site inspections and empowering your sales force.



The case is 5kg, making it exceptional light weight and it is watertight protected.



With built-in power analyser that gives you information instantly.



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



With a spectrometer sensor that gives you all photometric data in one system.



The LightSpion is the only portable system on the market that includes a spectrometer sensor and a built-in power analyser. This light weight professional measurement solution makes it easy to take it anywhere with you.

## LINEAR LIGHT SOURCES

The LightSpion can measure any light source upto 8cm in diameter. Also, it is the first small goniometer to measure linear lamps, such as LED strips and tubes.

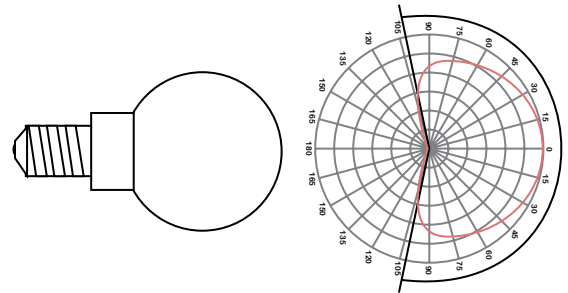


Linear light sources lack photometric specification for the reason that they are few light measurement solutions that can measure linear lamps. The LightSpion supplies a smart solution to resolve this issue.

The linear lamp is mounted on the bracket, then a section of the lamp is measured. Then the real length of the lamp is typed into the Viso Light Inspector to provide the full photometric data. Due to the multiple placement of the LED's, a decrease in the lumen accuracy should be expected of +/-7%.

## REFERENCE LAMP

The LightSpion includes a omni-directional reference lamp, that makes sure you can verify the calibration of your LightSpion system.



The reference lamp includes a document that specifies the light measurement data of the lamp, allowing you to check the integrity of the system at any time.



### PHYSICAL DIMENSIONS

Shipping weight	6 Kg
Dimensions (L x W x H)	43 x 11,5 x 33,5 cm
Weight	5 Kg
Sensor distance	66 cm
Light sources diameter range	0 - 80 mm
Light source maximum weight	2 Kg

### ELECTRICAL

Power supply input	90 to 260 VAC, 50/60 Hz
USB current consumption	200 mA
Power analyser voltage range	30VAC-400VAC <+/- 0.2V
Power analyser current range	0A-3A (Avg: +/- 0.1mA)
Power analyser power range	0W-300W (Avg: +/- 0.01W)
Power analyser sample rate	70.000 samples/sec

### PHOTOMETRIC

Measurement method	Far Field
Flux, lumen	10 – 50.000
Flux accuracy	LED +/- 4%, other types +/-7.82%
Intensity, candela	0,05 - 200.000 +/- 2,5%
Colour temperature	1.000K-10.000K <+/- 35K
Colour rendering index	0-100 <+/- 0,7
Angular resolution LOW MODE	4 degrees/step
Angular resolution HIGH MODE	1 degree/step
Spectrometer type	STS Ocean Optics
Calibration	Fully calibrated plug and play solution
Re-calibration	Every 2 years

# LIGHTSPION EXTENDER

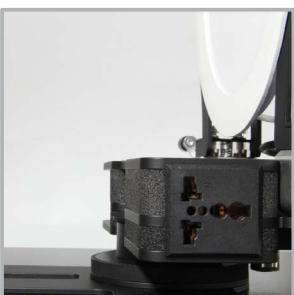
The LightSpion Extender® is an excellent tool for measuring larger lamps that exceeds 8cm in diameter. The extender of the LightSpion provides you with the distance that allows you to measure lamps that are up to 22cm in diameter.



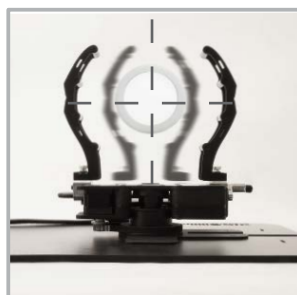
## PHYSICAL DIMENSIONS

Shipping weight	3 Kg
Dimensions (L x W x H)	175 x 43 x 28 cm
Weight	2.5 Kg
Sensor distance	115 and 182 cm
Light sources diameter range	0 - 220 mm
Light source maximum weight	5 Kg

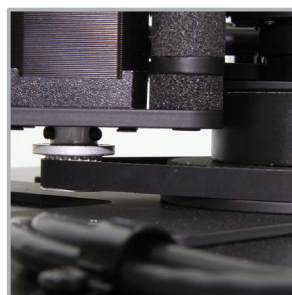
The power outlet is placed on the goniometer, it allows easy connection.



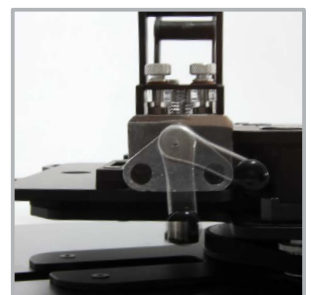
It has an automatic center adjustment, both horizontally and vertically.



It includes a high precision belt drive, it can handle up to 5Kg.



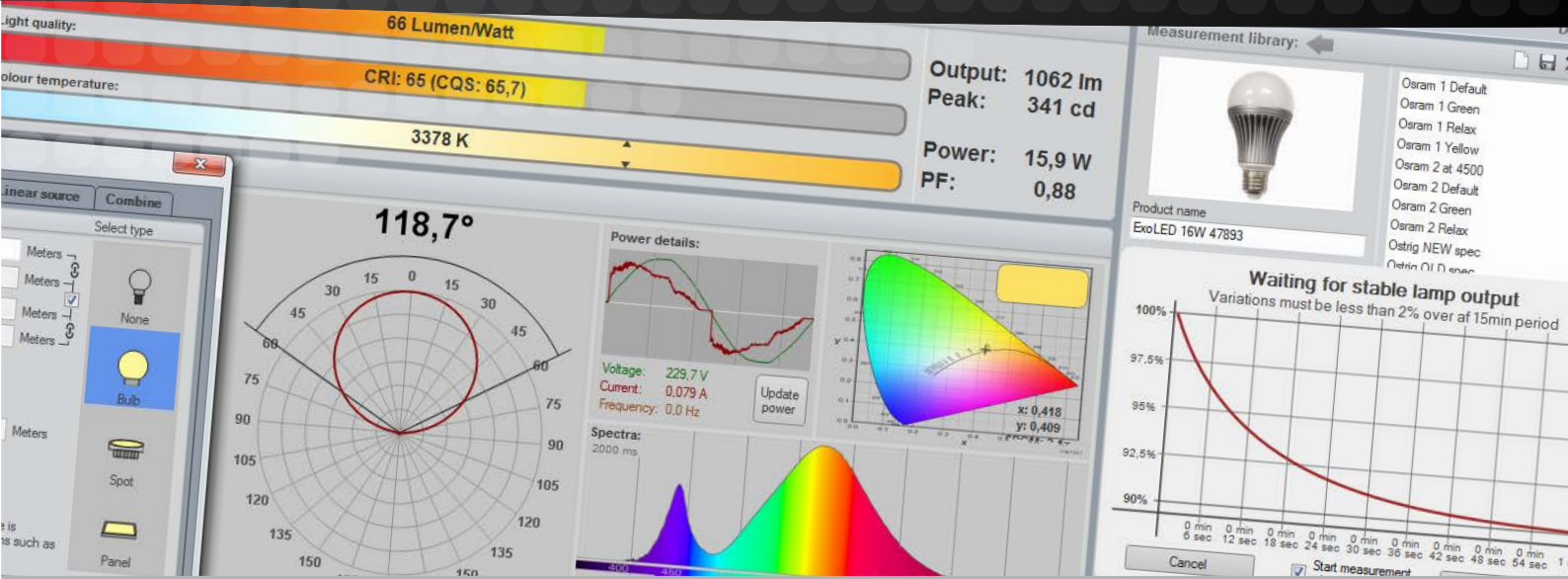
The automatic centre adjustment bracket makes it easy to mount any lamp.



# LIGHT INSPECTOR SOFTWARE



The Viso Light Inspector® software is a intuitive interface and it is included in all Viso Light measurement products. The software shows all the data being measured in real time and the photometric result are graphically represented to give you a fast overview of all measurements.



## CLICK AND GO

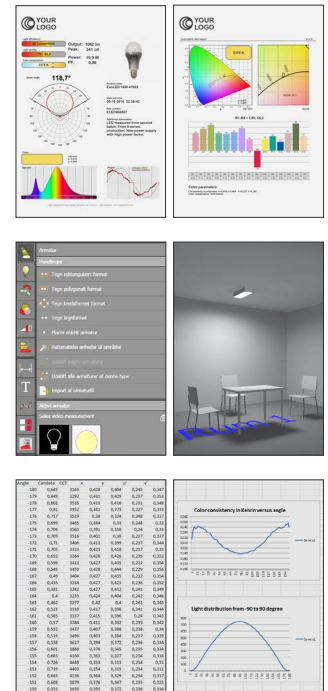
- ▶ GRAPHICAL EFFICIENCY AND QUALITY
- ▶ REALTIME MEASUREMENT DATA
- ▶ ADD CUSTOM TEXT AND IMAGE
- ▶ GRAPHICAL POWER ANALYZER
- ▶ FULL AUTO SPECTROMETER SETUP
- ▶ DETAILED ANGULAR FIELD DISTRIBUTION
- ▶ DIRECTLY EMAIL RESULTS
- ▶ GET PHOTOMETRIC IN A 90°/120° CONE
- ▶ CONNECT DIRECTLY TO MATHLAB
- ▶ COMPABILITY WINDOWS XP, 7 ,8 10

## EXPORT

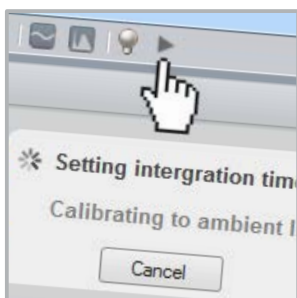
PDF

LDT  
IES

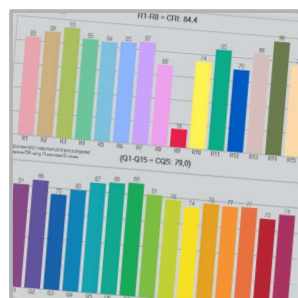
EXCEL



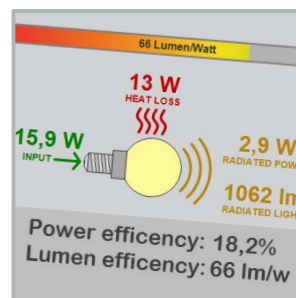
With only ONE click, fully automatic setup of the goniometer.



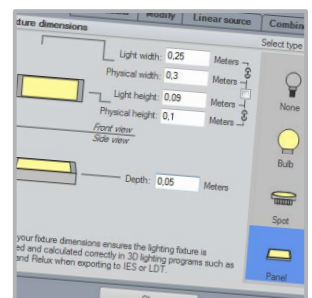
An extensive color quality data results, including CRI and CQS values.



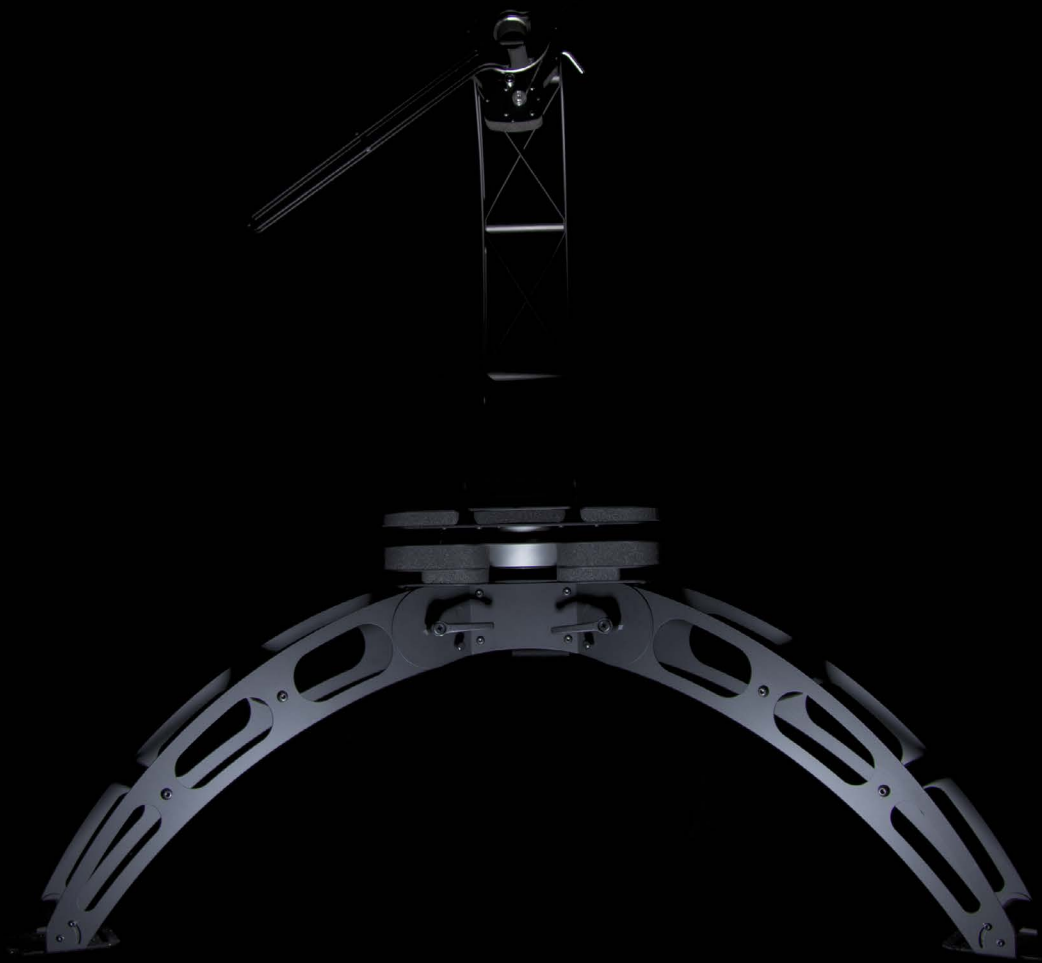
Real power efficiency can be calculated using the radiated spectral energy.



You can easily add dimensions to your lamps for an accurate representation.



# VISO SYSTEMS



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