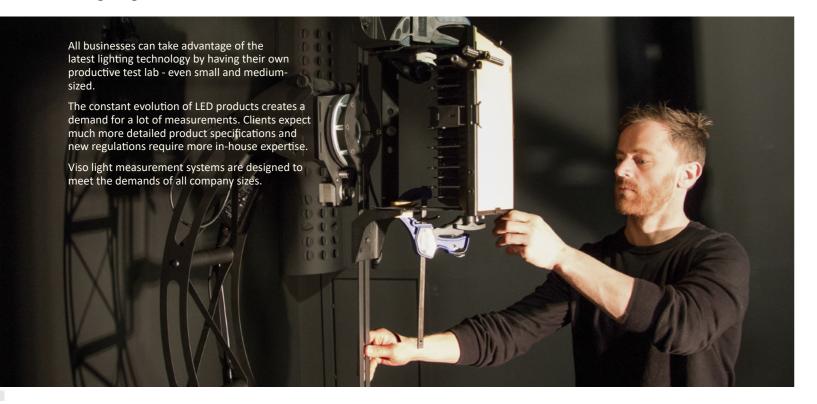




DESIGN YOUR OWN TEST LAB WITH SCANDINAVIAN EXPERTISE

From Copenhagen, Denmark, we will support you in designing and creating a productive light measurement lab. Our customers span from general, architectural, horticultural, and automotive lighting to UV lighting and more.



VISO SYSTEMS

Since 2006, Viso Systems has been at the forefront of developing and manufacturing some of the most innovative light measurement solutions in the world.

We have eliminated the need for an integrating sphere and replaced it with a single system that measures both light distributions (IES files) and color metrics in one go.

We have simplified the complexity of light measurement by providing smart and user-friendly software.

DESIGN

We develop and improve our products every day—often in interaction with our customers. Your input and ideas are important to us. Close dialogue with users and authorities ensures that our systems are always suitable for your tasks and meet new requirements.

Viso Systems equipment is suitable for many different applications, such as general lighting, horticulture, and LED components. We help our clients customize equipment, installations, and reports to suit specific needs.

PRODUCTION

All production and development take place at Viso Systems' headquarters and within our network of experienced suppliers.

Our products are assembled, meticulously tested, and certified before shipment. The delivery time is usually only 2-3 weeks.

TWO MEASUREMENT **SOLUTIONS**



LabSpion

For any light sources up to 45 kg (100 lbs). Spectrometer sensor with built-in laser distance detector on a tripod.

ONE SOFTWARE FOR ALL

The Viso Light Inspector software is the most intuitive light measurement software solution on the market.

The software provides you with a perfect overview of all your measurement data in real-time. We know that fast measurements with smart data processing are crucial for your business.

Export IES/LDT/XML files and create fully customized reports in PDF and Excel.

We offer frequent updates based on customers' needs.

ACCESSORIES

The extensive Viso accessory range provides everything you need for your photometry lab. It includes temperature measurements, DALI/DMX control, and advanced power supplies. With Viso systems and accessories, you can get everything you need for your lab in one place.



BaseSpion

For medium-sized light sources up to 9 kg (20 lbs). Spectrometer sensor slides on a tabletop rail.

Light Inspector

The software works with all Viso products and makes measurements easy.





LABSPION

The LabSpion® gives you the capability to measure the full range of lamps, from small LED chips to very large panels and streetlights up to 45 kg (100 lbs).

The fast spectrometer sensor and a built-in power analyzer give you fast and comprehensive measurements and ensure that all data are measured quickly, making other types of equipment, such as integration spheres, redundant.



MEASURE IN 30 SECONDS AND GET:

- Full IES and LDT files
- Lumen
- Peak candela value
- Color temperature, CCT
- Spectrum, CRI, TM30, CQS
- Beam angle

- Detailed angular field distribution
 Power and power factor
- Lumen per watt
- Radiometrical units
- Horticultural units





The 2-axis goniometer gives you the full 3D light distribution



Just plug in the USB cable and everything is fully integrated

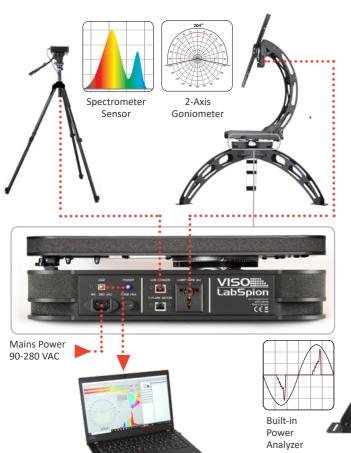


High-speed spectrometer sensor ensures fast and reliable measurements



The distance is easily measured with the integrated laser

EASY CONNECTIVITY



LABSPION SPECIFICATIONS

Measurement method Spectrometer ranges Far field, type C horizontal VIS (standard) 360 – 830 nm

Also available in: UV-VIS 200 – 830 nm UV-VIS-NIR 200 – 1100 nm VIS-NIR 360 – 1100 nm<

Sensor distance range Sensor distance setup Lamp diameter range Lamp maximum weight Power supply input 70 cm ->25 m (2.3 ft ->80 ft) Manual, built-in laser distance sensor 0 - 1.5/2.0 m (4.9 /6.6 ft) 25 kg / 45 kg (55 lbs /99 lbs) 90 to 260 VAC, 50/60 Hz

More specifications on page 24 – 25



BASESPION

The BaseSpion® is the perfect solution for any mid-size laboratory that wants to perform advanced light measurements with a compact system. The best solution for testing LED chips, modules, panels, downlights, bulbs, and spotlights up to 9 kg (20 lbs).

The BaseSpion is a great tool that allows you to measure all medium-sized lighting products. The 2-axis goniometer enables the system to measure full 3D distribution fields of any light source and gives lighting professionals comprehensive IES and LDT simulation files



COMPACT

The BaseSpion is a professional laboratory tabletop light measurement system. It offers fully automated multiple C-plane measurements. The design of the system makes it very flexible to work with in any lighting laboratory. The goniometer drivers and power analyzer are all built-in. Simply connect via USB to any PC and get results in just 30 seconds.



BASESPION

Measurement method Spectrometer range Far field, type C horizontal VIS (standard) 360 – 830 nm

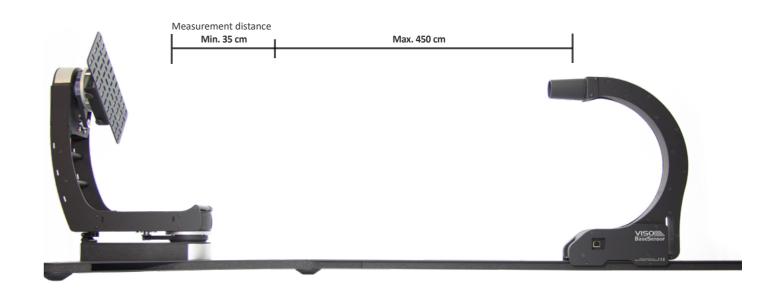
Also available in: UV-VIS 200 – 830 nm UV-VIS-NIR 200 – 1100 nm VIS-NIR 360 – 1100 nm

Sensor distance range Sensor distance setup Lamp diameter range Lamp maximum weight Power supply input 35 cm to 450 cm (14" – 14.7 ft) Automatic detector on rail 0 – 54 cm (0 – 21.5") 9 kg (19.8 lbs) 90 to 260 VAC, 50/60 Hz

More specifications on page 26 - 27



- Full IES and LDT files
- Lumen
- Peak candela value
- Color temperature, CCT
- Spectrum, CRI, TM30, CQS
- Beam angle
- Detailed angular field distribution
- Power and power factor
- Lumen per watt
- Radiometrical units
- Horticultural units
 - ... and much more





The universal light source bracket easily clicks onto the goniometer



Before measurement, simply slide, align and lock the light



The base lock makes it easy to align the light source with sensor



The automatic sensor positioning system ensures fast and accurate distance setup

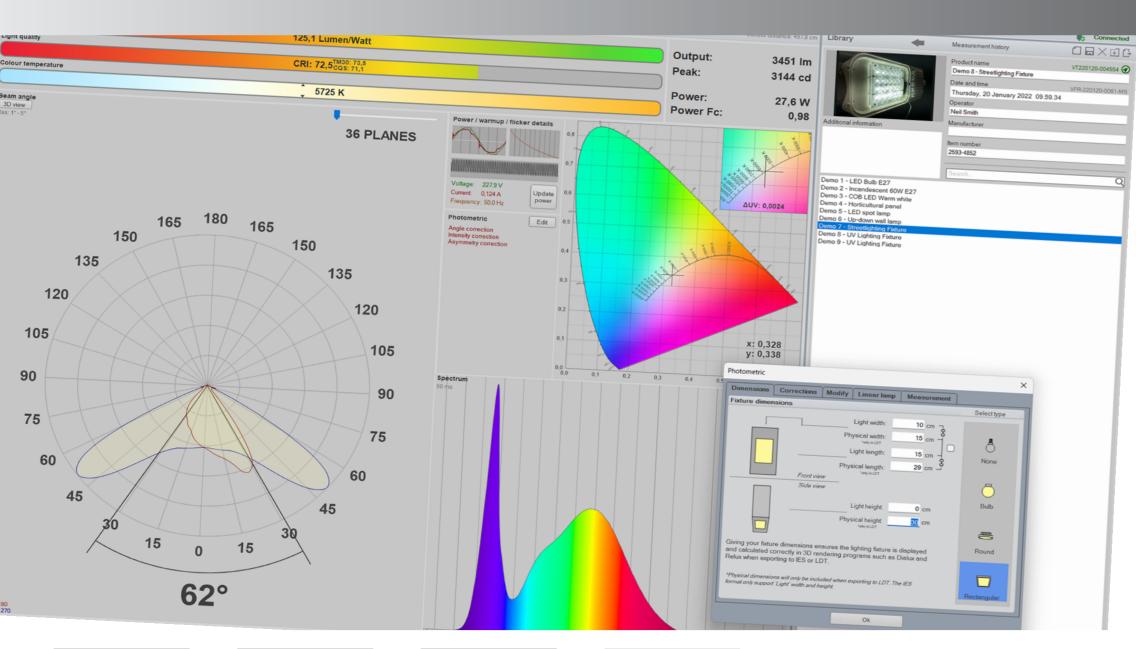


LIGHT INSPECTOR SOFTWARE

The Viso Light Inspector® is the most intuitive goniometer interface and software system on the market. It is included with all Viso light measurement products.

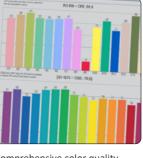
All measured data is shown in real time. Photometric results are displayed graphically to give you a fast overview.





6 * Setting integration tin Calibrating to ambien

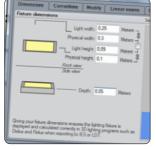
One click starts the fully automatic setup and measurement cycle



Comprehensive color quality data results, including CRI, CQS and TM30 values



Real power efficiency can be calculated using the radiated spectral energy



Easily add light sources dimensions. Rotate, symmetrice and correct

THE SOFTWARE

The software gives you a great real-time overview of measurements.

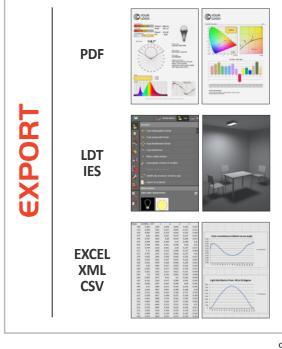
The user-friendly functions of the software allow you to get fast results and will help you analyze and report every detail.

The software supports various measurement styles:

- Photometric units (light for human vision)
- Radiometric units (UV and infrared)
- Horticultural units (green house lighting)
- Dose units (for UV exposure)

PACKED WITH FEATURES

- User-friendly graphical interface
- Automatic goniometer setup
- Graphical power analyzer
- Real-time measurement data view
- Detailed angular distribution
- Add product image and description
- Make your own measurement templates
- Fully customized pdf reports with your design
- IES/LDT and lots of special exports (XLS, XML, GLDF)
- Direct export to ready-to-upload EPREL zip files
- Connect directly to MATLAB, LabVIEW, etc.
- Compatible with Windows 7, 8, 10 and 11



REPORT DESIGNER

Design your report templates for your own company style. No need to copy-paste or ask any other department to customize your reports for a unique look. Use Viso's Report Designer to export directly to the client or to your website in the format you desire.

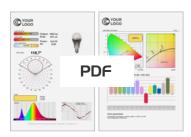
VISO....

LOTS OF EXPORT OPTIONS

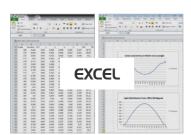
Light Inspector allows you to make several kinds of outputs - scientific and for marketing:

- Light distribution files in IES and LDT formats as well as TM33 and TM27 XML outputs.
- Raw data as .csv or MS Excel spreadsheets
- PDF standard reports
- EU: Direct export to EPREL zip file ready to upload to the EPREL database
- Customized reports based on your own templates.
 The Light Inspector allows you to design your own PDF report templates using Microsoft Office Word as an editor. Everything you can design in MS Word, you may include even embedded MS Excel spreadsheets aWWnd custom graphics and logos

EXPORT TO

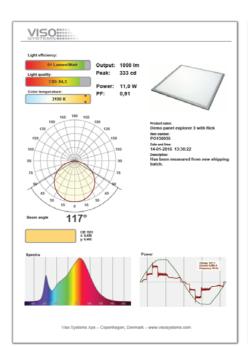


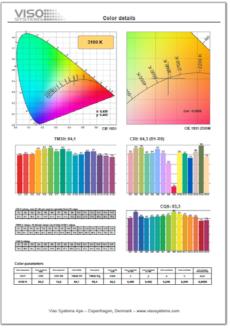


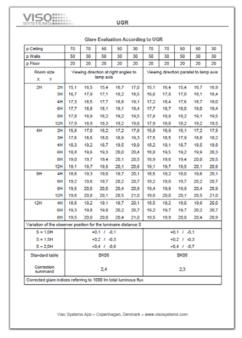


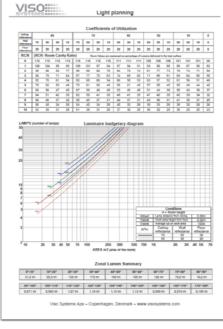


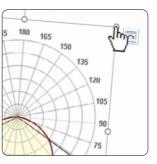
PDF REPORT DESIGNER



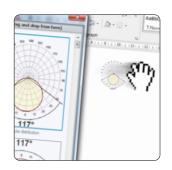




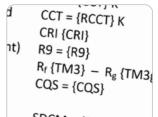




Simply add, move and/or resize any photometric graphic (vector graphics)



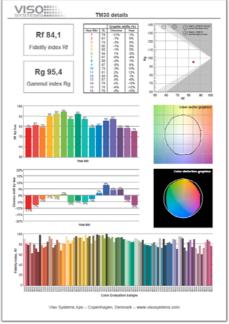
Extensive library of graphics with any photometric data. Just drag and drop into your report

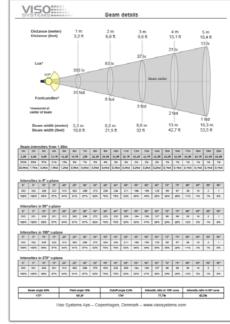


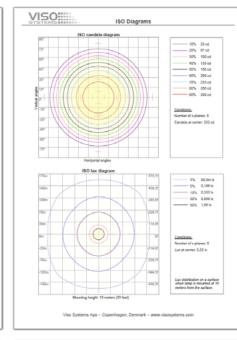
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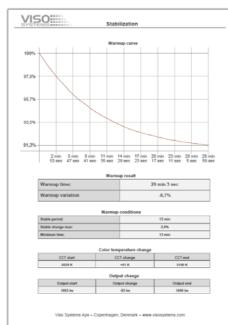


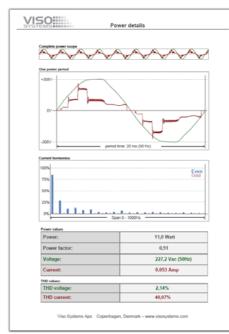
Use keywords to place Unlimited number of PDF photometric values anywhere templates can be saved and and create tables selected with preview

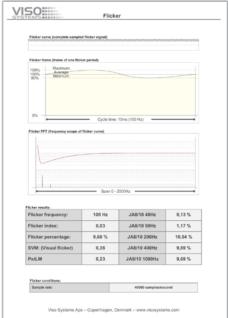












LabFlicker

LabFlicker® is the first flicker measurement instrument to integrate seamlessly with your light measurement system. Complete your photometric reports with flicker data.





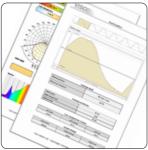
Connects directly to your PC via USB allowing for a fast, real-time preview



OLED display gives live flicker results during measurement



An ultra-fast 350.000 samples/ sec photo sensor gives you precise data



Seamless integration with Viso pdf-reporting: All photometrics in one output

LabRail

The unique LabRail® system together with LabSpion goniometer is a complete light measurement solution. Setting the sensor distance has never been easier



LABRAIL PROVIDES PERFECT ALIGNMENT

The LabRail system combines your full-size LabSpion goniometer with a rail-based sensor system.

Rail length 12 m (39.4 ft) is standard—but both shorter and longer rails are available. The rail assembly is suspended from the ceiling in the laboratory.

Sensor movement along the rail is motorized. The sensor distance can be optimized for all-sized light sources. Owners of LabSpion systems may replace the standard tripod arrangement with the LabRail upgrade kit.

GO ANYWHERE IN 5 SECONDS

- Repositioning the sensor in only 5 seconds
- Perfect alignment every time
- No cables
- Free up your floor space
- Automatic positioning
- · Suspension from ceiling



SPECIFICATIONS

Sensor distance range Sensor distance setup Power supply input 35 cm (14") to 1200 cm (39.4 ft) (standard) Automatic 90 to 260 VAC, 50/60 Hz

More specifications in page 25

ORIGINAL VISO ACCESORIES

LabРошег

VISO:

LabAnalyz∈r

STEADY AC SUPPLY AND POWER DATA

Viso LabPower is a combined AC power supply and power analyzer that complies with light measurements standards (IES LM-79 and CIE S 025).

LabPower is a dedicated AC power supply and power analyzer. It has full integration with any Viso light measurement system. It has a versatile max. 250 W output range 90-270 VAC / 50-60 Hz.

It removes all mains voltage fluctuations throughout the measurement and provides low harmonic distortion and no resonance artifacts using advanced control loops.

LabPower provides real-time readout on the built-in display. Further, it has an optional remote sensing feature for optimal accuracy.

LINK TO ONLINE PRESENTATION



KEEP TRACK OF YOUR POWER CONSUMPTION

Viso LabAnalyzer is an advanced AC and DC power analyzer that complies with light measurements standards (IES LM-79 and CIE S 025). LabPower fully integrates with your Viso light measurement system and software, and facilitates remote sensing.

LabAnalyzer keeps track of your power consumption in every detail. It is both easy to install and to use, and provides precise power measurements for both AC and DC. The built-in display shows advanced harmonics analysis, power graphics, power factor and displacement factor. Get all results directly into your light measurement file through the USB connection.

It has a versatile measurement range (up to $100 \, \text{kHz}$, 2-270V AC/DC, up to around 2000 W), and a sample rate of 2 mega samples per second.

LINK TO ONLINE PRESENTATION



Sensor upgrades

EXPAND YOUR MEASUREMENT RANGE

BaseSensor and LabSensor model II can both be fitted with detectors that go beyond the visible spectrum - for UV light down to 200 nm, and for near infrared up to 1100 nm. To comply with EPREL, measurements down to 250 nm are needed.

Your existing VIS system (360-830 nm) can be upgraded to:

- LabSensor / BaseSensor UV-VIS (200-850 nm)
- LabSensor / BaseSensor UV-VIS-NIR (200-1100 nm)
- LabSensor / BaseSensor VIS-NIR (360-1100 nm)

All Viso BaseSpion and LabSpion systems contain high-end Ibsen Photonics FREEDOM with custom Viso high sensitive transmission gratings. Viso UV sensors have advanced straylight correction.

LINK TO ONLINE PRESENTATION



LabAnalyzer with sensor sync

FOR STROBING LIGHT SOURCES

All the same functions as the LabAnalyzer but with a unique feature that allows your Viso light measurement system to measure strobing light sources while they are flashing.

The revolutionary LabAnalyzer with sensor sync synchronizes LabSensors/BaseSensors with measured power pulses. This makes it possible to make accurate 3D measurement of a light source that is continuously flashing. In this way, the light source will be measured as it is used and with a realistic temperature.

The system measures the details of the flash waveform including peak voltage, amps, intensity, period length, number of flashes per period, flash lengths, interval lengths, etc.

LINK TO ONLINE PRESENTATION



ORIGINAL VISO ACCESORIES

VISO:

LabDisc

REMOVE STRAYLIGHT

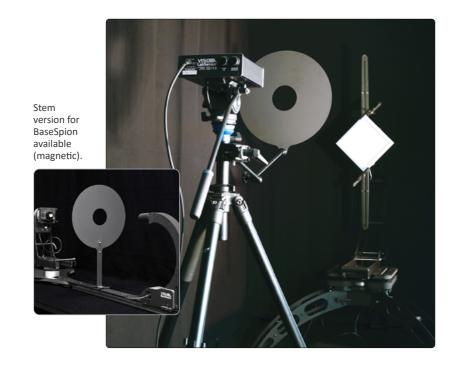
LabDisc is an accessory to Viso LabSpion and BaseSpion light measurement systems. This adjustable baffle reduces straylight errors to a minimum by restricting your sensor's field of view.

The perfect darkroom does not exist. Although all lab surfaces are black, a small amount of light is always reflected.

This stray light can reach your sensor and interfere with your result. Therefore, it is important to avoid stray light from lab surfaces.

LabDisc removes all stray light from side walls, ceiling and floor and reduces stray light from the rear wall to a minimum.

LINK TO ONLINE PRESENTATION



LightInterface

CONTROL YOUR LAMP DURING MEASUREMENT

Many light sources are dimmable or color tunable. LightInterface allows the Light Inspector software to communicate with your device driver using the most common protocols (DMX, DALI, and 0-10 V).

Measure your light source in a specific setting or create a special tuning protocol with several settings using the LightInspector software.

With LightInterface, you can control your light sources throughout your measurement cycle, set up custom measurement protocols, and save all results in a single report. Analyze your results using the customizable software graphics, or export all details.

Plot your dimming and color tuning curves.



LabT∈mp

RECORD TEMPERATURE THE EASY WAY

Measure and record your device temperature and ambient temperature in your lab.
LabTemp is a hub with one internal and three standard external temperature probes.
LabTemp connects to Viso LabSpion and BaseSpion.

The LabTemp hub is attached to the goniometer with strong magnets. The internal sensor captures ambient temperature data with any Viso BaseSpion and LabSpion while measuring light. It is easy to install and use. No extra software, no extra power supply and no extra data cables.

The external probes can measure the temperature at specific points of interest.

Ambient temperature verification is mandatory in CIE S 025/E:2015 guidelines.



LabTarget

PERFECT AND FAST ALIGNMENT

LabTarget is a Viso LabSpion and BaseSpion accessory. This vertical, crossbeam laser is mounted on the ceiling above your goniometer and makes it simple to align your light source perfectly with the rotational center.

LabTarget is the first vertical, double-plane laser level on the market. Install the LabTarget above your Viso LabSpion or BaseSpion light measurement systems and make light source alignment easier than ever.

The laser beam is on when your light measurement system is on and turns off automaticly during measurements

LabTarget is included with Viso LabRail



ORIGINAL VISO LIGHT SOURCES

Labarazzi

VISO:

CALI-T50

UNIQUE FLICKER GENERATOR

Labarazzi is a special tunable light source that can generate flicker, i.e. temporal light artifacts. Use Labarazzi to calibrate flicker testers, to test cameras for flicker immunity and for teaching and demonstration.

Viso Systems Labarazzi is the only commercially available TLA generator in the world. Labarazzi is a professional laboratory and demo light source that generates precise temporal light artifacts (TLAs). The Labarazzi has a 1100 lumen LED light source.

The Labarazzi offers 26 preset flicker signals with different waveforms, frequencies, percent flicker, duty cycles, modulation depths, PstLM and SVM. Design custom TLA waveforms with the Light Inspector software.



REFERENCE LAMP (VIS/VIS-NIR)

Get your own custom calibration lamp. The CALI-T50 is used with Viso VIS and VIS-NIR sensors (wavelength range 360-1100 nm).

The CALI-T50 is a tungsten irradiance reference lamp with an auto ramp-up power supply. This reference lamp can be used to recalibrate/verify your calibration at any time without the need for external support. It is easily mounted in the center bracket of the LabSpion or BaseSpion. The CALI-T50 is included in LabSpion VIS/VIS-NIR.

All CALI-T50 sources are traceable to PTB 2302 Blackbody radiator - the PTB national primary standard for spectral irradiance calibration lamps.

LINK TO ONLINE PRESENTATION



REF-800

FAST CALIBRATION CHECKUP

This lamp can be used to regularly verify that your calibration is still good. The set consists of a COB LED on a large heat sink and a dedicated driver. The REF-800 is characterized using your particular sensor in the course of every factory (re)calibration.

This special Viso reference light source (REF-800) is included with all new Viso light measurement systems. Its purpose is to facilitate quick tests of whether the spectrometer properties have drifted, indicating that recalibration is needed. With the REF-800, you may also avoid unnessesary wear on your calibration lamps such as CALI-T50 or CALI-DT300.



LIGHTSPION EXTENDER

EXTENDS LIGHTSPION RANGE TO 22 cm SOURCES

The briefcase-based Viso LightSpion system is now discontinued. You can still get LightSpion Extender - and all services and support.

The LightSpion Extender is an optional accessory for measuring light sources that exceed 8 cm in diameter. The LightSpion Extender provides you with the distance necessary to measure light sources up to 22 cm (8,7") in diameter and up to 5 kg (8.8 lbs) in weight.

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



LINK TO ONLINE PRESENTATION



21

Calibration

FAST AND EASY

Calibration every two years

At the heart of every measurement system is ascertaining that results are correct. Viso Systems generally recommends that devices are recalibrated every year or at least every two years.

Do your own calibrations

Viso Systems measurement systems can be recalibrated using original Viso reference light sources, CALI-T50 and CALI-DT30. Alternatively, use a calibration lamp of your own choice. A CALI accessory is included with all LabSpion systems.

Let Viso Systems help with your calibrations

Just send your sensor or your LightSpion to Copenhagen for recalibration. Remember to include original reference lamps. Expect 1-2 weeks lead time + shipping time. Send your service request directly to Viso headquarters (info@visosystems.com) or to your local distributor.



Get an online demo

SHIP YOUR LIGHTING FIXTURE TO VISO AND GET A FREE ONLINE MEASUREMENT DEMONSTRATION

Viso Systems now offers an exclusive opportunity: Potential clients can ship a lighting product of their own and get a demo. We will then run a complete light measurement as an exclusive, live, commented online demonstration including:

- Mounting your luminaire (or Viso demo light source) on a Viso system
- Detailed demo of the setup
- Running a full measurement
- Q&A ask as many questions as you want
- Collecting the full output in a report + IES/LTD + Excel
- Sending the outputs to you

Before buying, experience just how powerful Viso Software is in practice.

Once you receive the original measurement file from the demo you can open it in the Light Inspector software:

Free download from www.visosystems.com/download-light-inspector/.

Make your own experiments, views and adjustments. Generate reports (IES, PDF, MS Excel, etc.).

Flexible mounting

DETACHABLE LAMP BRACKET

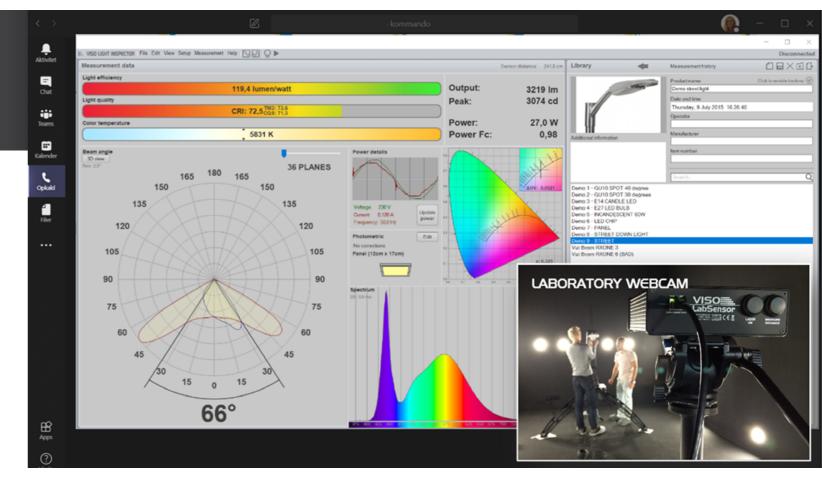
The multifunctional mounting bracket creates endless ways of mounting your luminaire on the LabSpion goniometer system.

The detachable bracket is standard on all new LabSpion light measurement systems. For older systems it is available as an accessory.

The detailed hole pattern provides many possibilities for mounting light sources and fits all LabSpion models.

Detach the entire bracket and take it to the workshop. Quick and easy to attach to the Gonio tower with two sturdy hooks and two large thumb screws.





LINK TO ONLINE PRESENTATION

TECHNICAL SPECIFICATIONS







LabSpion . VIS

LabSpion UV-VIS

Standard version



LabSpion VIS-NIR

Far-Field

0.40 - 400,000 <±2,5% lux



Physical Dimensions	As standard version

90 kg (198 lbs) Shipping Weight 190 x 190 x 162.5 cm (6.2 x 6.2 x 5.3 ft) Dimensions (L x W x H) 78 kg (172 lbs) Weight Sensor Distance Range **0.5 to 50 m** (1.6 to 160 ft)-≥ Light Source Length x 10 (Min. x 8) Sensor Distance Sensor Distance Set-Up Laser Range Finder, ±2 mm Light Source Diameter Range **0 – 1.5 m** (0 – 4.92 ft) @ **2-Axis** Light Source Diameter Range, Tall Tower 0-2.0 m (0-6.56 ft) (@ 2-Axis

Light Source (DUT) Maximum Weight 25 kg (55 lbs) Light Source (DUT) Maximum Weight, Enforced 45 kg (99 lbs)

Electrical Specifications As standard version

Power Supply Input	90 – 260 VAC, 50/60 Hz
Power Analyzer Voltage Range	90 – 260 VAC < ±0.5 V
Power Analyzer Current Range	0 – 3 A (Average ±0.5 mA)
Power Analyzer Power Range @ 230 V	0 - 600 W (Average: ±0.1 W)
Power Analyzer Power Range @ 110 V	0 – 300 W (Average: ±0.1W)
Dower Analyzer Cample Pate	70 000 Camples /cos

Pho

Power Analyzer Sample Rate	70,000 Samples/sec	
notometric Specifications		
Measurement Method	Far-Field	Far-Field
Illuminance, Lux at Sensor (Equal to cd @ 1 m)	0.20 – 200,000 lux <±2,5%	0.40 – 400,000 <±2,5% lux
Max intensity @ 1.0 m	0.2 – 200,000 cd <± 2,5%	0.40 – 400,000 cd <± 2,5%
Max intensity @ 20.0 m	80 – 80,000,000 cd <± 2,5%	160 – 160,000,000 cd <± 2,5%
Flux Range, Min. Distance (Lambertian Distribution)	0.63 – 630,000 lm @ 1.0 m	Radiated spectral energy In W/nm Irradiance in μW/cm² or W/m² (all directions)
Flux Range, Max. Distance (Lambertian Distribution)	250 – 250,000,000 lm @ 20.0 m	3D UV-VIS radiation field
Flux accuracy	VIS ±4 %	VIS ±4%, UVA/B ±5%, UVC ±6.5%
Color Temperature Range	1,000 K – 10,000 K < ±35 K	1,000 K – 10,000 K < ±35 K
Color Rendering Index	Up to 100 < ±0.7	Up to 100 < ±0.7
Resolution, Standard	5 Degrees/Step (Auto-Detect)	5 Degrees/Step (Auto-Detect)
Resolution, Highest	0.01 Degrees/Step (Auto-Detect)	0.01 Degrees/Step (Auto-Detect)
Number of c-planes	2 – 72 (max. 144) automatic	2 – 72 (max. 144) automatic
Spectrometer Type	Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM
	High Efficiency Transmission Grating	High Efficiency Transmission Grating
Spectrometer Range	360 – 830 nm (1024 pixels)	200 – 850 nm (2048 pixels)
Spectrometer Detector	Hamamatsu S11639-01	Hamamatsu S11639-01
Calibration	Fully Calibrated Plug-and-Play Solution	Fully Calibrated Plug-and-Play Solution
Re-calibration	Min. Every Two Years	Min. Every Two Years

As standard version As standard version

> 35 kg (77 lbs) 25 x 25 x 160 cm (0.8 x 0.8 x 5.3 ft)

30 kg (66 lbs)

0.5 to 12 m (1.6 to 39.4 ft)

Standard up to 12 m (39,4 ft) (can be extended)

Laser Range Finder, Automatic, ±2 mm

As standard version	As standard version

Far-Field

0.40 - 400,000 <±2,5% lux

90 - 260 VAC, 50/60 Hz

As pre	ferred	LabSpion	version
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As UV-VIS version	As UV-VIS version	
NIR ±4%, VIS ±4%, UVA/B ±5%, UVC ±6.5%	VIS ±4%, NIR ±4%	
1,000 K – 10,000 K < ±35 K	1,000 K – 10,000 K < ±35 K	
Up to 100 < ±0.7	Up to 100 < ±0.7	
5 Degrees/Step (Auto-Detect)	5 Degrees/Step (Auto-Detect)	
0.01 Degrees/Step (Auto-Detect)	0.01 Degrees/Step (Auto-Detect)	
2 – 72 (max. 144) automatic	2 – 72 (max. 144) automatic	
Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM	
High Efficiency Transmission Grating	High Efficiency Transmission Grating	
200 – 1100 nm (2048 pixels)	360 – 1100 nm (2048 pixels)	
Hamamatsu S11639-01	Hamamatsu S11639-01	
Fully Calibrated Plug-and-Play Solution	Fully Calibrated Plug-and-Play Solution	
Min. Every Two Years	Min. Every Two Years	

TECHNICAL SPECIFICATIONS





Physical Dimensions

Calibration

Re-calibration

BaseSpion VIS

BaseSpion UV-VIS

As standard version

Standard Version

Difficusions		AS Staridard Version
oing Weight	42 kg (93 lbs)	
ensions (L x W x H)	205-500 x 56 x 55 cm (6.7-16.4 x 2 x ft)	
ht	38 kg (84 lbs)	
or Distance Range	0.35 – 4.5 m (1.15 – 14.8 ft)	
or Distance	≥ Light Source Length x 10 (Min. x 8)	
or Distance Set-Up	Automatic Detector on Sensor Rail	
Source Diameter Range	0 - 54 cm (1.8 ft)	
Source (DUT) Maximum Weight	9 kg (19.8 lbs)	
Specifications		As standard version
er Supply Input	90 – 260 VAC, 50/60 Hz	
er Analyzer Voltage Range	90 – 260 VAC < ±0.5 V	
er Analyzer Current Range	0 – 3 A (Average ±0.5 mA)	
er Analyzer Power Range @ 230 V	0 – 600 W (Average: ±0.1 W)	
er Analyzer Power Range @ 110 V	0 – 300 W (Average: ±0.1W)	
er Analyzer Sample Rate	70,000 Samples/sec	
tric Specifications		
surement Method	Far-Field	Far-Field
inance Range, Lux at Sensor @ 1 m	0.2 – 200,000 <±2,5% lux	0.40 – 400,000 <±2,5% lux
sity Range, Min. Distance	0.0245 – 24,500 cd <±2,5% @ 0.35 m	0.050 – 29,000 cd <±2,5% @ 0.35 m
sity Range, Max. Distance	4 – 4,050,000 cd <±2,5% @ 4.50 m	8 – 8,100,000 cd <±2,5% @ 4.50 m
Range, Min. Distance (Lambertian Distribution)	0.08 – 75,000 lm @ 0.35 m	Radiated spectral energy In W/nm Irradiance in μW/cm² or W/m² (all directions)
Range, Max. Distance (Lambertian Distribution)	12.7 – 12,700,000 lm @ 4.50 m	3D UV-VIS radiation field
accuracy	VIS ±4 %	VIS ±4% UVA/B ±5%, UVC ±6.5%
Temperature Range	1,000 K – 10,000 K < ±35 K	1,000 K – 10,000 K < ±35 K
Rendering Index	Up to 100 < ±0.7	Up to 100 < ±0.7
lution, Standard	5 Degrees/Step (Auto-Detect)	5 Degrees/Step (Auto-Detect)
lution, Highest	0.01 Degrees/Step (Auto-Detect)	0.01 Degrees/Step (Auto-Detect)
ber of c-planes	2 – 72 (max. 144) automatic	2 – 72 (max. 144) automatic
trometer Type	Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM
	High Efficiency Transmission Grating	High Efficiency Transmission Grating
trometer Range	360 - 830 nm (1024 pixels)	200 - 850 nm (2048 pixels)
trometer Detector	Hamamatsu S11639-01	Hamamatsu S11639-01

Fully Calibrated Plug-and-Play Solution

Min. Every Two Years

BaseSpion UV-VIS-NIR

BaseSpion VIS-NIR

LightSpion







	(Discontinued)	As standard version	As standard version
9 kg	7 kg (15.4 lbs)		
100 x 36 x 21 cm	43x11.5x33.5 cm (17.1x4.5x33.5")		
7 kg	6 kg (13.2 lbs)		
66, 115 and 182 cm	66 cm (26"), fixed		
Fixed (Three Settings)	Fixed		
Manual input	-		
0 - 22 cm	0 – 8 cm (3.15") @ single-axis		
4 kg	1 kg		
		As standard version	As standard version
	90 - 260 VAC, 50/60 Hz		
	90 - 260 VAC < ±0.5 V		
	$0-3$ A (Average ± 0.5 mA)		
	0 – 600 W (Average: ±0.1 W)		
	0 – 300 W (Average: ±0.1W)		
	70,000 Samples/sec		
	Far-Field	Far-Field	Far-Field
	10 - 10,000 lux	0.20 – 200,000 <±2,5% lux	0.20 – 200,000 <±2,5% lux
	0.5 – 50,000 candela ±4% @ 66 cm	As UV-VIS version	As UV-VIS version
	10 - 50,000 lm @ 66 cm (3.15")		
	LED ±4%, other types ±7.8%	VIS ±4%, NIR ±4%	NIR ±4%, VIS ±4%, UVA/B ±5%, UVC ±6.5%
	1,000 K – 10,000 K < ±35 K	1,000 K – 10,000 K < ±35 K	1,000 K – 10,000 K < ±35 K
	Up to 100 < ±0,7	Up to 100 < ±0.7	Up to 100 < ±0.7
7.5 Deg./Step (Auto-Detect)	7.5 Degrees/Step (Auto-Detect)	5 Degrees/Step (Auto-Detect)	5 Degrees/Step (Auto-Detect)
0.01 Degrees/Step	0.1 Degrees/Step	0.01 Degrees/Step (Auto-Detect)	0.01 Degrees/Step (Auto-Detect)
2-8	2 (standard) – 8 (manual)	2 – 72 (max. 144)	2 – 72 (max. 144)
	Ibsen Photonics PEBBLE	Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM
	High Efficiency Transmission Grating	High Efficiency Transmission Grating	ligh Efficiency Transmission Grating
	360 - 830 nm (256 pixels)	360 - 1100 nm (2048 pixels)	200 - 1100 nm (2048 pixels)
	Hamamatsu S14739	Hamamatsu S11639-01	Hamamatsu S11639-01
		Fully Calibrated Diversed Dive	
	Fully Calibrated Plug and Play	Fully Calibrated Plug-and-Play	Fully Calibrated Plug-and-Play

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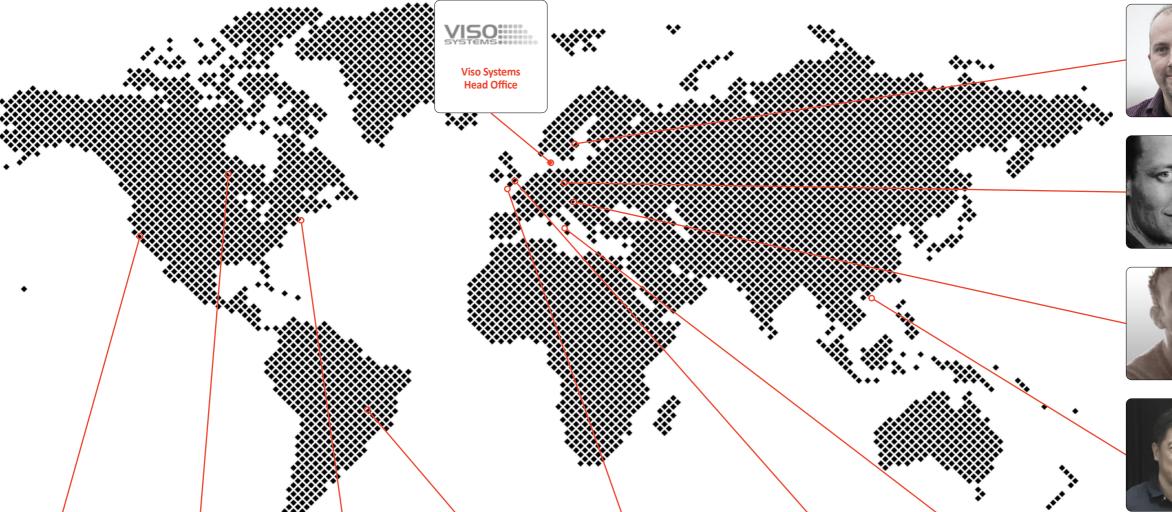
Fully Calibrated Plug-and-Play Solution

Min. Every Two Years

AROUND THE WORLD

Viso Systems measurement solutions are being used by hundreds of customers around the world. Below are references to a few of our customers and their experience using the systems. You can read full customer reviews on www.visosystems.com/review







Matt Samuel LEDRABrands, USA

- The LabSpion allows us to create our own IES files, that are published on our website
- Before we outsourced ALL of our photometric testing, which was a costly and time consuming process
- We use Viso daily to assist with product development



Daniel Silverstein Liteline, Canada

- With the LabSpion we now measure more than a dozen fixtures per week
- Colur versus angle is very helpful and a unique feature
- Reduced cost from using external labs means the system was paid back in less than 1 year



Carlton Jones Fraen, USA

- Since 2018, LabSpion has produced hundreds of accurate measurements for us
- The LabSpion just works.
 Durable, easy to use, accurate, and versatile
- We can design, prototype, test, tool, mold our complex plastic lenses and reflectors better, faster and cheaper.



Martin Nähr Stella, Brazil

- The LabSpion makes it possible to quickly compare our products for both quality control and for competitive purposes
- Fast product comparisons have improved our sales



Daniel Mahdavi Orluna, UK

- The LightSpion system saves us waiting 2-4 weeks for IES files from an external lab
- With our own system we can run thermal improvements, beam shape improvements, and LED selection
- R&D is faster and we are able to prototype accurately



Matthew Earnshaw ACDC, UK

- With the LightSpion +
 Extender we can now
 turn around any
 measurement in few
 minutes
- Before we had to ship our fixtures and pay £300 per measurement
- The system was paid back in 1-2 weeks, due to quantity of measurements



Matteo Botner Botlighting, Italy

- After developing an internal test facility, we have been much quicker and more effective in selecting materials and partners
- Customers appreciate that the company has the right instruments for R&D.
 This has improved our reputation in the market



- LabSpion has reduced our measurement time significantly to an average of 8 minutes per fixture
- Before we paid €800 for a measurement at a external lab
- The quality of our lighting fixtures has increased as we can test faster



Stephan Meyer Korona , Germany

- The use of LED technology required us to do much more measurements to maintain development schedules
- The LightSpion + Extender also made it possible for us develop solution of specialized high-end projects
- Before, it took two weeks to get a single measurement done by an external lab and would cost €650



Robert Francij Molto Luce, Austria

- With LabSpion we are faster in the engineering phase, so we are able to bring the products to market more quickly
- We primarily use the system for measuring prototypes, i.e. efficiency of reflectors



John Cheung Retc, Hong Kong

- BaseSpion and LabSpion allows us measure 50 lamps per week
- Viso help us to save time so we can focus on quality aspects
- The system was paid back in less than one year

Read all of the full reviews on www.visosystems.com/review

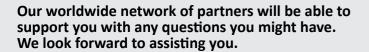
CUSTOMER SUPPORT

Installation takes less than two hours and you will be able to use your equipment from day one. As you work more with light measurements, questions will probably arise. Viso Systems take pride in assisting you as fast as possible.

GETTING FAST ANSWERS

- Call your local distributor
- Call Viso Systems' head office
- Send us an email info@visosystems.com
- Check the online Viso Q&A section at www.visosystems.com/q
- Check the most up-to-date manuals at www.visosystems.com/support







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<ENERGY CONG

AMERICAS

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ASIA

Demo 8 - Streetlighting Fixtu

China (Hong Kong)

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DIRECT EXPORT TO

All Viso measurement systems allow you to extract EPREL data via the Light Inspector

Viso software automaticly generates your zip-file

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EU ECODESIGN

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</CONTACT_DETAILS>

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