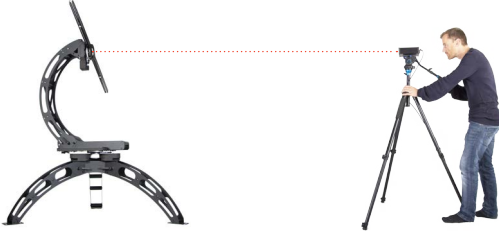


TECHNICAL SPECIFICATIONS



LabSpion VIS

Standard version

LabSpion UV-VIS

Physical Dimensions

As standard version

Shipping Weight	90 kg
Dimensions (L x W x H)	190 x 190 x 162.5 cm
Weight	78 kg
Sensor Distance Range	0.5 to 50 m
Sensor Distance	≥ Light Source Length x 10 (Min. x 8)
Sensor Distance Set-Up	Laser Range Finder, ±2 mm
Light Source Diameter Range	0 - 1.5 m @ 2-Axis
Light Source Diameter Range, High Tower	0 - 2.0 m @ 2-Axis
Light Source (DUT) Maximum Weight	25 kg
Light Source (DUT) Maximum Weight, Enforced	45 kg

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: ±0.1 W)
Power Analyzer Sample Rate	70,000 Samples/sec

Photometric Specifications

	Far Field	Far Field
Measurement Method	Far Field	Far Field
Illuminance, Lux at Sensor (Equal to cd @ 1 m)	0.20 – 200,000 lux <±2,5%	0.20 – 200,000 <±2,5% lux
Max intensity @ 1.0 m	0.2 – 200,000 cd <± 2,5%	As standard version
Max intensity @ 20.0 m	80 – 80,000,000 cd <± 2,5%	Radiated spectral energy In W/nm
Flux Range, Min. Distance (Lambertian Distribution)	0.63 – 630,000 lm @ 1.0 m	Irradiance in μW/cm ² or W/m ² (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	0.1 Degrees/Step (Auto-Detect)	0.1 Degrees/Step (Auto-Detect)
Number of c-planes	2-72 (max. 144)	2-72 (max. 144)
Spectrometer Type	Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM
Custom Viso	(High Sensitive Transmission Grating)	(High Sensitive 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	Every Two Years	Every Two Years

LabSpion UV-VIS-NIR

LabSpion VIS-NIR



LabRail for LabSpion

As standard version

As standard version

35 kg

25 x 25 x 160 cm

30 kg

0.5 to 12 m

Standard up to 12 m (can be extended)

Laser Range Finder, Automatical, ± 2 mm

As standard version

As standard version

90 - 260 VAC, 50/60 Hz

As preferred LabSpion version

Far Field

0.20 – 200,000 $<\pm 2.5\%$ lux

As standard version

Radiated spectral energy In W/nm
Irradiance in $\mu\text{W}/\text{cm}^2$ or W/m^2 (all directions)
3D UV-VIS-NIR radiation field

NIR $\pm 4\%$, VIS $\pm 4\%$, UVA/B $\pm 5\%$, UVC $\pm 6.5\%$

1,000 K - 10,000 K $< \pm 35$ K

Up to 100 $< \pm 0.7$

5 Degrees/Step (Auto-Detect)

0.1 Degrees/Step (Auto-Detect)

2-72 (max. 144)

Ibsen Photonics FREEDOM

(High Sensitive Transmission Grating)

200 - 1100 nm (2048 pixels)

Hamamatsu S11639-01

Fully Calibrated Plug-and-Play Solution

Every Two Years

Far Field

0.20 – 200,000 $<\pm 2.5\%$ lux

s standard version

Radiated spectral energy In W/nm
Irradiance in $\mu\text{W}/\text{cm}^2$ or W/m^2 (all directions)
3D VIS-NIR radiation field

VIS $\pm 4\%$, NIR $\pm 4\%$

1,000 K - 10,000 K $< \pm 35$ K

Up to 100 $< \pm 0.7$

5 Degrees/Step (Auto-Detect)

0.1 Degrees/Step (Auto-Detect)

2-72 (max. 144)

Ibsen Photonics FREEDOM

(High Sensitive Transmission Grating)

360 - 1100 nm (2048 pixels)

Hamamatsu S11639-01

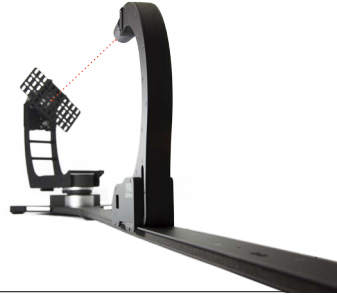
Fully Calibrated Plug-and-Play Solution

Every Two Years

Not Necessary

Not Necessary

TECHNICAL SPECIFICATIONS



BaseSpion VIS

Standard Version

BaseSpion UV-VIS

Physical Dimensions

As standard version

Shipping Weight	42 kg
Dimensions (L x W x H)	205 - 500 x 56 x 55 cm
Weight	38 kg
Sensor Distance Range	0.35 - 4.5 m
Sensor Distance	≥ Light Source Length x 10 (Min. x 8)
Sensor Distance Set-Up	Automatic Detector on Sensor Rail
Light Source Diameter Range	0 - 54 cm
Light Source (DUT) Maximum Weight	9 kg

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)
Power Analyzer Sample Rate	70,000 Samples/sec

Photometric Specifications

	Far Field	Far Field
Measurement Method	Far Field	Far Field
Illuminance Range, Lux at Sensor @ 1 m	0.2 – 200,000 <±2,5% lux	0.20 – 200,000 <±2,5% lux
Intensity Range, Min. Distance	0.0245 – 24,500 cd <±2,5% @ 0.35 m	As standard version
Intensity Range, Max. Distance	4 – 4,050,000 cd <±2,5% @ 4.50 m	Radiated spectral energy In W/nm Irradiance in μW/cm ² or W/m ² (all directions)
Flux Range, Min. Distance (Lambertian Distribution)	0.08 – 75,000 lm @ 0.35 m	3D UV-VIS radiation field
Flux Range, Max. Distance (Lambertian Distribution)	12.7 – 12,700,000 lm @ 4.50 m	
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	0.1 Degrees/Step (Auto-Detect)	0.1 Degrees/Step (Auto-Detect)
Number of c-planes	2-72 (max. 144)	2-72 (max. 144)
Spectrometer Type	Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM
Custom Viso	(High Sensitive Transmission Grating)	(High Sensitive 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	Every Two Years	Every Two Years

BaseSpion UV-VIS-NIR

BaseSpion VIS-NIR

LightSpion

Extender for LightSpion



As standard version

As standard version

7 kg
43 x 11.5 x 33.5 cm
6 kg
66 cm , fixed
Fixed
-
0 - 8 cm @ single-axis
1 kg

9 kg
100 x 36 x 21 cm
7 kg
66, 115 and 182 cm
Fixed (Three Settings)
Manual input
0 - 22 cm
4 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

0.20 – 200,000 <±2,5% lux

As standard version
Radiated spectral energy In W/nm
Irradiance in $\mu\text{W}/\text{cm}^2$ or W/m^2 (all directions)
3D UV-VIS-NIR radiation field

NIR ±4%, VIS ±4%,
UVA/B ±5%, UVC ±6.5%

1,000 K - 10,000 K < ±35 K

Up to 100 < ±0.7

5 Degrees/Step (Auto-Detect)

0.1 Degrees/Step (Auto-Detect)

2-72 (max. 144)

Ibsen Photonics FREEDOM
(High Sensitive Transm. Grating)

200 - 1100 nm (2048 pixels)

Hamamatsu S11639-01

Fully Calibrated Plug-and-Play

Every Two Years

Far Field

0.20 – 200,000 <±2,5% lux

As standard version
Radiated spectral energy In W/nm
Irradiance in $\mu\text{W}/\text{cm}^2$ or W/m^2 (all directions)
3D VIS-NIR radiation field

VIS ±4%, NIR ±4%

1,000 K - 10,000 K < ±35 K

Up to 100 < ±0.7

5 Degrees/Step (Auto-Detect)

0.1 Degrees/Step (Auto-Detect)

2-72 (max. 144)

Ibsen Photonics FREEDOM
(High Sensitive Transm. Grating)

360 - 1100 nm (2048 pixels)

Hamamatsu S11639-01

Fully Calibrated Plug-and-Play

Every Two Years

Far Field

10 - 10,000 lux

0.5 - 50,000 candela ±4% @ 66 cm

10 - 50,000 lm @ 66 cm

LED ±4%, other types ±7.8%

1,000 K - 10,000 K < ±35 K

Up to 100 < ±0.7

7.5 Degrees/Step (Auto-Detect)

0.1 Degrees/Step

2 (fixed)

STS Ocean Optics

Panavision ELIS-1024

Fully Calibrated Plug and Play

Every Two Years

7.5 Deg./Step (Auto-Detect)

0.1 Degrees/Step

2-8

Not Necessary

Not Necessary