



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

Photometric Specifications

	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/cm ² or W/m ² (all directions) 3D UV-VIS radiation field
Flux Range, Max. Distance (Lambertian Distribution)	250 – 250,000,000 lm @ 20.0 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

LabSpion UV-VIS-NIR

As standard version

LabSpion VIS-NIR

As standard version



LabRail for LabSpion

Shipping Weight	35 kg
Dimensions (L x W x H)	25 x 25 x 160 cm
Weight	30 kg
Sensor Distance Range	0.5 to 12 m
Sensor Distance	Standard up to 12 m (can be extended)
Sensor Distance Set-Up	Laser Range Finder, Automatical, ±2 mm

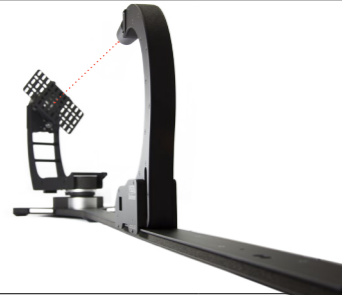
As standard version

As standard version

90 - 260 VAC, 50/60 Hz

As preferred LabSpion version

	Far Field	Far Field	
Illuminance, Lux at Sensor (Equal to cd @ 1 m)	0.40 – 400,000 <±2,5% lux	0.40 – 400,000 <±2,5% lux	
Max intensity @ 1.0 m	As UV-VIS version	As UV-VIS version	
Max intensity @ 20.0 m			
Flux Range, Min. Distance (Lambertian Distribution)			
Flux Range, Max. Distance (Lambertian Distribution)			
Flux accuracy	NIR ±4%, VIS ±4%, UVA/B ±5%, UVC ±6.5%	VIS ±4%, NIR ±4%	
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	200 - 1100 nm (2048 pixels)	360 - 1100 nm (2048 pixels)	
Spectrometer Detector	Hamamatsu S11639-01	Hamamatsu S11639-01	
Calibration	Fully Calibrated Plug-and-Play Solution	Fully Calibrated Plug-and-Play Solution	Not Necessary
Re-calibration	Every Two Years	Every Two Years	Not Necessary



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		As standard version	
Measurement Method	Far Field	Far Field	Far Field
Illuminance Range, Lux at Sensor @ 1 m	0.2 - 200,000 <±2,5% lux	0.40 - 400,000 <±2,5% lux	10 - 10,000 lux
Intensity Range, Min. Distance	0.0245 - 24,500 cd <±2,5% @ 0.35 m	0.050 - 29,000 cd <±2,5% @ 0.35 m	0.5 - 50,000 candela ±4% @ 66 cm
Intensity Range, Max. Distance	4 - 4,050,000 cd <±2,5% @ 4.50 m	8 - 8,100,000 cd <±2,5% @ 4.50 m	
Flux Range, Min. Distance (Lambertian Distribution)	0.08 - 75,000 lm @ 0.35 m	Radiated spectral energy In W/nm Irradiance in μW/cm ² or W/m ² (all directions) 3D UV-VIS radiation field	10 - 50,000 lm @ 66 cm
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%	LED ±4%, other types ±7.8%
Color Temperature Range	1,000 K - 10,000 K < ±35 K	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	Up to 100 < ±0,7
Resolution, Standard	5 Degrees/Step (Auto-Detect)	5 Degrees/Step (Auto-Detect)	7.5 Degrees/Step (Auto-Detect)
Resolution, Highest	0.1 Degrees/Step (Auto-Detect)	0.1 Degrees/Step (Auto-Detect)	0.1 Degrees/Step
Number of c-planes	2-72 (max. 144)	2-72 (max. 144)	2 (fixed)
Spectrometer Type	Ibsen Photonics FREEDOM	Ibsen Photonics FREEDOM	STS Ocean Optics
Custom Viso	(High Sensitive Transmission Grating)	(High Sensitive Transmission Grating)	
Spectrometer Range	360 - 830 nm (1024 pixels)	200 - 850 nm (2048 pixels)	360 - 1100 nm (2048 pixels)
Spectrometer Detector	Hamamatsu S11639-01	Hamamatsu S11639-01	Hamamatsu S11639-01
Calibration	Fully Calibrated Plug-and-Play Solution	Fully Calibrated Plug-and-Play Solution	Panavision ELIS-1024 Fully Calibrated Plug and Play
Re-calibration	Every Two Years	Every Two Years	Every Two Years

BaseSpion UV-VIS-NIR

BaseSpion VIS-NIR

LightSpion



Extender for LightSpion



As standard version		As standard version		As standard version		As standard version	
				7 kg		9 kg	
				43 x 11.5 x 33.5 cm		100 x 36 x 21 cm	
				6 kg		7 kg	
				66 cm , fixed		66, 115 and 182 cm	
				Fixed		Fixed (Three Settings)	
				-		Manual input	
				0 - 8 cm @ single-axis		0 - 22 cm	
				1 kg		4 kg	
As standard version		As standard version		As standard version		As standard version	
				90 - 260 VAC, 50/60 Hz		90 - 260 VAC, 50/60 Hz	
				90 - 260 VAC < ±0.5 V		90 - 260 VAC < ±0.5 V	
				0 - 3 A (Average ±0.5 mA)		0 - 3 A (Average ±0.5 mA)	
				0 - 600 W (Average: ±0.1 W)		0 - 600 W (Average: ±0.1 W)	
				0 - 300 W (Average: ±0.1W)		0 - 300 W (Average: ±0.1W)	
				70,000 Samples/sec		70,000 Samples/sec	
				Far Field		Far Field	
				0.20 - 200,000 <±2,5% lux		0.20 - 200,000 <±2,5% lux	
				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)	
				0.1 Degrees/Step (Auto-Detect)		0.1 Degrees/Step (Auto-Detect)	
				2-72 (max. 144)		2-72 (max. 144)	
				Ibsen Photonics FREEDOM (High Sensitive Transm. Grating)		Ibsen Photonics FREEDOM (High Sensitive Transm. Grating)	
				200 - 1100 nm (2048 pixels)		360 - 1100 nm (2048 pixels)	
				Hamamatsu S11639-01		Hamamatsu S11639-01	
				Fully Calibrated Plug-and-Play Every Two Years		Fully Calibrated Plug-and-Play Every Two Years	
						Fully Calibrated Plug and Play Every Two Years	
							Not Necessary Not Necessary