SIMTRUM

Product Line Card Light Analysis

2025 V1

For customized projects please Contact us:

info@simtrum.com

Spectrometers(220nm-4.2um)

Fiber Spectrometers
(200 nm - 5 μm)

Raman Spectrometer
(532/785/1064 nm)

FT Infrared Spectrometer
(900-1600 nm)

Monochromators & Spectrographs

THz time domain spectrometer

Products	Wavelength Range	Resolution
Fiber Spectrometers	200 -2500 nm	<1nm
Raman Spectrometer	532/785/1064 nm	< 6 cm^(-1)
FT Infrared Spectrometer	900-16000 nm	<0.5 cm^(-1)
Monochromators & Spectrographs	200-2500 nm	< 0.03 nm
THz time domain spectrometer	0.1-5 THz	> 5GHz

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Line Scan Hyperspectral Camera(220nm-4.2um)

UV Hyperspectral Imaging Camera
Blue eye (220 - 380 nm)

VIS-NIR Hyperspectral Imaging Camera
Green eye (400 – 1000 nm)

VIS-NIR Hyperspectral Imaging Camera
Orange eye (580 – 1000 nm)

NIR Hyperspectral Imaging Camera
Red eye (950 – 1700 nm)

MIR Hyperspectral Imaging Camera
Black eye (2900 - 4200 nm)

Types	Spectral Range	Resolution
UV Hyperspectral Imaging Camera Blue eye	220-380 nm	2048×2048 1056×1027
VIS-NIR Hyperspectral Imaging Camera Green eye	400-1000 nm	1312×1082
VIS-NIR Hyperspectral Imaging Camera Orange eye	580-1000 nm	1312×1082
NIR Hyperspectral Imaging Camera Red eye	950-1700 nm	320×256 640×512
MIR Hyperspectral Imaging Camera Black eye	2900-4200 nm	320×256

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Multi-Spectral Camera(400-1000nm)

Snapshot Multispectral Camera

Multispectral Drone Cameras

Multispectral Imaging Systems

Multispectral Camera for Microscope

Types	Number of Band	Wavelength Choice(nm)	Band Width	Image Resolution
Snapshot Multispectral Camera	<8	474, 495, 526, 546, 578, 602, 621, 640, 720,760, 800, 840, 860, 900, 940, 980 nm Customized Wavelength availabl	20 to 120nm	<512*512
Multispectral Drone Cameras	<8		20 to 70nm	<512*512
Multispectral Imaging Systems	<8		20 to 70nm	<2048 x 512
Multispectral Camera for Microscope	<4		20 to 70nm	<5472 x 3648

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X-Ray/XUV/VUV Spectrometers (1-300nm)

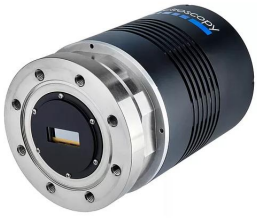
VUV Spectrometers
(80-300nm)

VUV Spectrometers
(40-200nm)

XUV Spectrometers
(30-250nm)

XUV Spectrometers
(5-80nm)

VUV Mini Spectrometer
(104-1100nm)



XUV CCD Cameras
(1-100nm)

VUV CCD Cameras
(50-300nm)

Product Model	Wavelength (nm)	Resolution
VUV Spectrometers	80-300 nm	0.1 nm
VUV Spectrometers	40-200 nm	0.05 nm
XUV Spectrometers	30-250 nm	0.1 nm
XUV Spectrometers	5-80 nm	0.028 nm
VUV Mini Spectrometer	104-1100 nm	0.25 nm
XUV CCD Cameras	1-100 nm	1024×255
VUV CCD Cameras	50-300 nm	1024×255

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Single Photon Detector (SPD) (200-1700nm)

Si-APD Ultra-sensitive photodetector (200-1060nm)

NIR Single Photon Detector (900-1700nm)

Super Conducting Nanowire System (780-1625nm)

Visible Photon Counter OEM (350-900nm)

Model	Wavelength Range	QE
Si-APD Ultra-sensitive photodetector	200-1060 nm	65%@700nm
NIR Single Photon Detector	900-1700 nm	10%/15%/20%(default) 25%
Super Conducting Nanowire System	780-1625 nm	up to 90%
Visible Photon Counter OEM	350-900 nm	35%@500 nm

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Photodiode Detector (PD) (200 nm-12 μm)

High-speed Photodetector

Low-noise Amplified Photodetector

Balanced Amplified Photodetector

High-speed Balanced Photodetector

Avalanche Photodetector

Model	Wavelength Range	QE
High-speed Photodetector	GaAs:700-900 nm InGaAs:1000-1700 nm	10/20/40/50/70 GHz
Low-noise Amplified Photodetector	InGaAs:1000-1700 nm Si:320-1000 nm	~2 GHz
Balanced Amplified Photodetector	900-1700 nm	200/350/400 MHz 1/1.6 GHz
High-speed Balanced Photodetector	1000-1620 nm 1525-1575 nm	10/20/40 GHz
Avalanche Photodetector	InGaAs:1000-1700 nm Si:400-1000 nm	~1 GHz

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Photodetectors

Photomultiplier Tube
(Tube Only)
(160-900nm)

Photomultiplier Tube
(Module)
(900-1700nm)

Silicon photomultiplier(SIPM)
(300-950nm)

Pyroelectric Infrared Detectors
(2-12μm)

Single-Photon Avalanche Diode
Array(400-900nm)

Model	Wavelength Range	QE
Photomultiplier Tube(Tube Only)	160-900 nm	12%~28%
Photomultiplier Tube (Module)	900-1700 nm	up to 45%
Silicon photomultiplier(SIPM) (300-950nm)	300-950 nm	18%~47%
Pyroelectric Infrared Detectors	2~12 μm	/
Single-Photon Avalanche Diode Array	400-900 nm	50%~55%@520 nm

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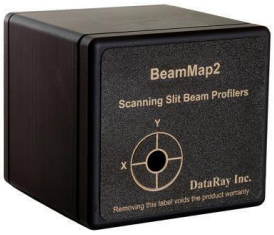
Laser Beam Profilers

UV-VIS Beam Profiler
(190-1100nm)

VIS-NIR Beam Profiler
(350-1750nm)

Mid-infrared Beam Profiler
(2-16μm)



Scanning Slit Beam Profiler
(190-2500nm)

Compact Beam Profiler
(190-1100nm)

Terahertz Beam Profiler
(3-20THz)

Model	Wavelength Range	Resolution
UV-VIS Beam Profiler	190-1100 nm	Up to 4096*3072
VIS-NIR Beam Profiler	350-1750 nm	Up to 1920*1080
MIR Beam Profiler	2-16 μm	540*480
Terahertz Beam Profiler	3-20 THz	Up to 2048*2048
Scanning Slit Beam Profiler	190-2500 nm	/
Compact Beam Profiler	190-1100 nm	Up to 1920*1080

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Optical Power Meter (Photodiode)

Thermoelectric laser power meter (0.19-25μm)

Photoelectric laser power meter (200-1100nm)

USB multi-channel laser power meter (0.19-25μm)

Handheld thermoelectric laser power meter (0.19-25μm)

Photodiode Power Sensors (250-2500nm)

Power Meter Console

Integrating Spheres (10-100mm)

Model	Wavelength Range	Power Range
Thermoelectric laser power meter	0.19-25 μm	2 mW-300 W
Photoelectric laser power meter	200-1100 nm	1 nW-1000 mW
USB multi-channel laser power meter	0.19-25 μm	100μW-200 W(Thermoelectric type) 1 nW-1000 mW(Photoelectric type)
Handheld thermoelectric laser power meter	0.19-25 μm	10 mW-50 W
Photodiode Power Sensors	250-2500 nm	/
Power Meter Console		/
Integrating Spheres	10-100 mm	2 μW-100 W

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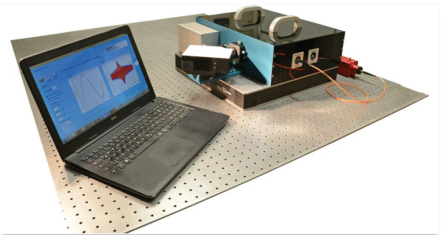
Measurement System

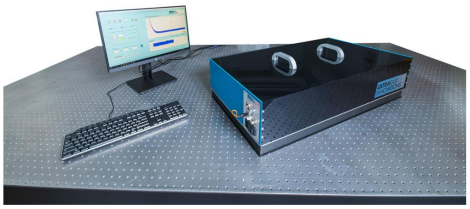
Laser Diode Characterization System LIV100 (Pulse Testing Only)

Laser Diode Characterization System LIV120 (Pulsed, QCW and CW testing including burn-in)

Laser Doppler Vibrometer (0.1Hz to 5Mhz)



White Light Interferometer



Optical Coating CRD Reflectrometer

Model	Description
Laser Diode Characterization System LIV100 (Pulse Testing Only)	Maximum currents：250mA-600 A,Rise time：50ns/500ns/1μs
Laser Diode Characterization System LIV120 (Pulsed, QCW and CW testing including burn-in)	Maximum currents：250mA-1200A,Rise time：5μs
Laser Doppler Vibrometer (0.1Hz to 5Mhz)	Measurement point：Single-point/ Multi-point ， Frequency measurement range：0.1Hz-250KHz (Analog) up to 5 MHz (Digital)
White Light Interferometer	Wavelength range：250-1060 nm/900-2400 nm
Optical Coating CRD Reflectrometer	Corresponding to < 99.9 % reflectivit