SC-100 I ATR / Macro PL



Key Features

- Ultra Low Abberation
- Compact & Economical Design
- Multiple Excitation Source

Detail Features

- Compact Modular Design
- Free or Fiber Coupled Input / Output
- Variable Laser Line Combined for Different Application up to 6 Lasers
- Time Gated System to Enhance the Signal About 100 - 10000 times
- Manual & Motorized Control : Laser Power, Input Beam Line, Orientation of Polarizer & Grating
- Compatible with Time Correlated Single Photon Counting

Specification

Laser Type (Wavelength)	266 / 325 / 532 / 632.8 / 785 / 1064 nm (Up to 6 Different Laser)	Chamber Type	Compact & Simple Structure Χyθ Manual Stage for Sample Position Color & Spherical Corrected Al Mirro
Lатр Туре	Xe Lamp, Halogen Lamp		for Input Source & Signal
Monochrome Type	MonoRa 200 & Xe Lamp		
Spectrograph		Detector	
Focal Length	200 / 320 / 500 mm	Туре	PMT (R928) / Si / InGaAs
Spectral Resolution	0.1 nm	Spectral Range	185 ~ 900 nm / 900 ~ 1800 nm
Stray Light Rejection	1.0 * 10^-5	Туре (ССД)	TE Cooled CCD (Open Electrode)
		Pixel Format	1024 * 256
		Software	
		Functions	Select Monochromator, Serial Port , Turret, Grating & Current Wavelength Information, Wavelength Range, Number of Point / Resolution, Integrating Time, Accumulation

SC-100 System | ATR / Macro PL



Application

- Semiconductor Characterization (GaN / SiC or Si) (III-V Materials)
- Device Characterization
- · Sensor Development for NIR CCD
- Gemstone PL, Diamond by HPTP, Pearl
- Development of Material of LED with GaN / GaAs
- Deep UV Diode Laser & PD Development (III-Nitrides (AIGaN) and SiC)
- Temperature Dependent PL & Internal Quantum Efficiency
- Reflectance & Transmittance measurement (SiC / Si / Sapphire Substrate)
- Photoluminescence Excitation (PLE) to Measure the Energy Levels (Properties of Absorption & Recombination)

Specification

Input Laser Source		PMT Detector	
532 nm Solid State Laser set			R955 / R928 Photomultiplier Tube
Output Power	200 mW @ 325 nm	PMT Detector	185 ~ 900 nm Detecting Range (85 % @ 400 nm)
			16 Bit AD Converter
Sample Chamber		CCD Detector	
	Macro Sample Chamber for PL,Raman, RT (Optional Reflection and Transmission)	CCD Detector	1024 * 256 Pixel CCD
Chamber Type			26 * 26 um Pixel Size
			200 ~ 1000 nm Detecting Range (95 % @ 800 nm
Refocusing Type	Refocusing Assembly with 45 Degree Al Mirror set	Software	
Wavelength Range	200 ~ 5000 nm	Features	Easy Parameter Selection
Optics & Mount	Included Suitable Optics (PLX Lens, Flat Al & Off Axis Parabolic Mirror etc.) & Mount	Functions	Select Monochromator, Serial Port, Turret, Grating & Current Wavelength Information, Wavelength Range Number of Point / Resolution, Integrating Time, Accumulation
Iris Type	Iris Diaphragm set for Optical Path & Laser Beam Alignment		Accumulation
ins type		Calibration	Semi-auto Calibration
Stage Type	Rotation & Translation Manual Stage For Sample Align & Enhance the Power Density on Sample	Options	
Wavelength Range	2 degree 0.01 mm	Detectors for UV – VIS – NIR	
Adjustable Range	+/- 25 mm	Low Temp Application for TDIPL	
Extra Features	Cuvett Cell Holder and Sample Plate	Mapping Function for Low & High Scan Speed	

Spectrograph

Focal Length	200 / 320 / 500 mm
Wavelength Range	200 ~ 1600 nm
Resolution	0.2 nm @ 435.8 nm
Accuracy	+/- 0.25 nm
Repeatability	+/- 0.04 nm