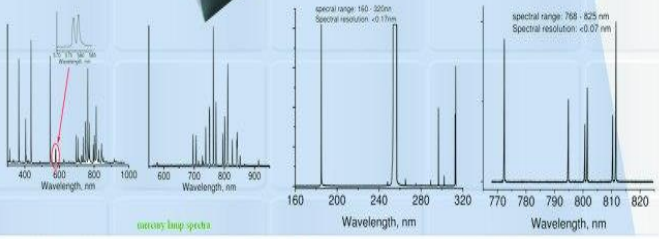
spectrometer

high sensitivity
high resolution

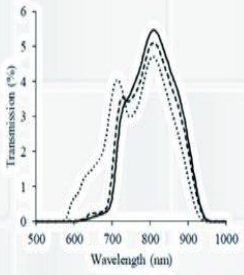
فن آوران فیزیک نور
شناسه ملی: ۱۴۰۰۵۱۲۷۴۵۴

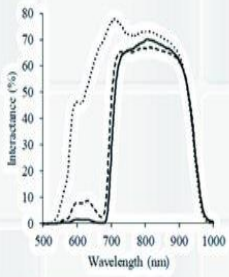
absorption/reflection spectrometer

UV/VIS/NIR



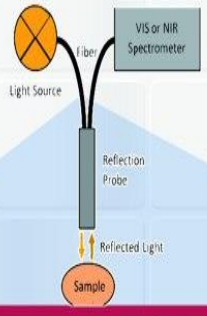
Product	FSR	Wavelength [nm]	Resolution [nm]					
		200 300 400 500 600 700 800 900 1000 1100	Slit [um]	10	25	50	100	200
V 900	190-1100	190-1100nm		1.4	1.8	2.9	5.4	11
V 700	350-1100	350-1100 nm		1	1.4	2.2	4	8
V 550	200-600	200-600		0.5	0.65	1	2	4
	... 500-900	500-900		0.5	0.65	1	2	4
V 200	200-400	200-400		0.3	0.45	0.7	1.35	2.7
	... 600-800	600-800		0.3	0.45	0.7	1.35	2.7





Application:

- Light source emission
- Coating Thickness Measurement
- absorption measurement
- transmission measurement
- reflection measurement
- Diffuse reflection
- Fluorescence more
- Raman
- Plasma
- Lumens measurement
- Color measurement



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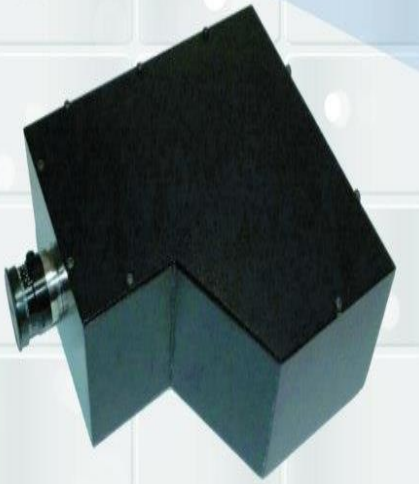
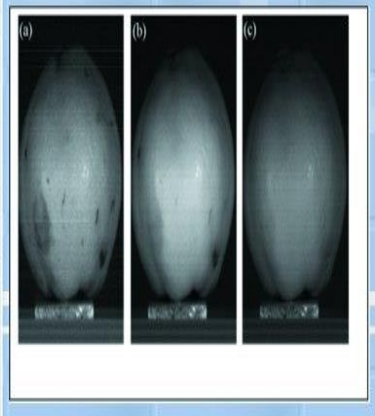
Hyperspectral imaging

Model : 1000



General Characteristics		
Parameters	Value	Note
Free spectral range	400 – 1000 nm	-
Spectral resolution	2.5 nm	-
Spectral channel	240 channel	-
Spatial resolution	200 micron	-
Spatial channel	Up to 440 channel	-
Detector type	2D charge couple device (CCD)	Pixel dimension is 4.65*4.65micron
Camera Connection type	USB	-
Dynamic range	12bit	-
Exposure time	10 – 1100 ms	-
Weight	3 Kg	-
F/#	2.4	-
SNR	59db >	-
Output image dimension	720 × 440(for maximum number of scan)	-
Dimension(cm)	11×20×28	-
FOV	10cm Height for object at 1 meter distance	-
Scanner power supply	12V - 0.1A	-
Scanner connection type	USB	-



IR Spectrometer

The spectrum analyzer system is the most advanced type of spectrometer, which has the ability to measure spectral power based on wavelength. OSA has the ability to analyze the spectra and intensity of lasers, bulbs, interference modes, and even measure single-mode cavity lasers. Unlike traditional grating systems, the OSA Fourier transformation systems use interference spectroscopy principles (<0.9nm) and high-speed analysis.

model	OSA 917	OSA 926	OSA 1045
Wavelength range	900-1700 nm	900-2600 nm	1000-4500 nm
Spectral Resolution	0.4 nm	0.8 nm	0.9 nm
Sampling Rate	1HZ		
Input Power (Max)	10mW		
Optical Rejection Ratio	40dB(1000)		
Input fiber	SMA Connectors		
Dimensions	320 mm* 149 mm* 475 mm		
Beam splitter type	Fused silica		
Input Power	100-240 VAC , 47-63 Hz , 250 W (Max)		
Operation Temperature	10 ° C to 40 ° C		
weight	30 KG