

SPECTRAL EVOLUTION

LF-Series Single InGaAs Array NIR Spectrometers

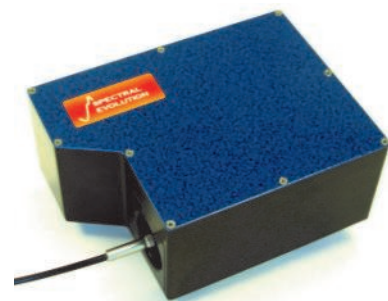
SPECTRAL EVOLUTION LF-series Single InGaAs NIR spectrometers provide optimized signal-to-noise ratio thanks to an optical system directly mated to fiber optic for maximum throughput. Each unit utilizes a stable TE-cooled multiplexed InGaAs Array. Stability meets even the toughest measurement scenarios! All LF-series Single InGaAs array spectrometers include USB and wireless Bluetooth communication for easy setup and use. All SPECTRAL EVOLUTION products include our exclusive DARWin SP Data Acquisition & Analysis Software for rapid data analysis.

All Units Feature:

- ▶ Solid State Construction– no moving optical parts
- ▶ Fast Scanning
- ▶ On Board Calibration Storage
- ▶ Stable, TE cooled array
- ▶ Fast F2 optical system matched to fiber
- ▶ On Board Scan Averaging
- ▶ Built-in autoshutter & autoexposure for one-touch measurements
- ▶ Wide choice of entrance optics including fiber, lens, integrating sphere or right angle diffuser

Typical Applications:

- ▶ Spectroscopy
- ▶ Water/Moisture Analysis
- ▶ Process Monitoring
- ▶ Petrochemicals
- ▶ Environmental
- ▶ Spectroradiometry
- ▶ Refining
- ▶ Food
- ▶ Polymers



LF-series Single InGaAs array spectrometers come in a standard bench package. All units can be special ordered with 512-element arrays and optional slit dimensions for custom-tuned spectral range/resolution configurations– please inquire!

MODEL #	LF-2500	LF-2300	LF-2100	LF-1250
Spectral Range (nm)	1000-2500	1800-2500	1100-2100	900-1700
Spectral Resolution (nm)	22	8	12	5
Spectrometer Type	fiber optic	fiber optic	fiber optic	fiber optic
Slit (μm)	100	100	100	50
Detector Type	256 element extended InGaAs array	256 element extended InGaAs array	256 element extended InGaAs array	512 element InGaAs array
A / D Converter	16 bit	16 bit	16 bit	16 bit
λ Reproducibility (nm)	0.5	0.5	0.5	0.5
λ Accuracy	±0.5 bandwidth	±0.5 bandwidth	±0.5 bandwidth	±0.5 bandwidth
Integration Time (ms)	0.5-10,000	0.5-10,000	0.8-10,000	0.8-10,000
Power (typical)	6V, 8W	6V, 8W	6V, 5W	6V, 5W
Size	8" x 6" x 3"	8" x 6" x 3"	8" x 6" x 3"	8" x 6" x 3"
Weight	< 3 lbs	< 3 lbs	< 3 lbs	< 3 lbs
Interface	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth	USB, Bluetooth





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