

The Future of High Performance Spectroscopy

MULTI Spectra

Compact Ultra-High Resolution Multi-Channel Spectrometer

The MULTI Spectra gives you access to ultra-high resolution on 8 parallel channels having a simultaneous bandwidth of few nanometers. The MULTI Spectra can be used as a multi-channel multimode wavelength meter or to monitor the presence of several laser modes of one or several sources. Due to the robustness of the SWIFTSTM TECHNOLOGY, this spectrometer is factory calibrated and will not require any user calibration, even after transportation.



Key features

- > Ultra-high spectral resolution (Resolving power > 50,000)
- > Wavelength range: 630 1070 nm
- > 8 parallel channels
- > Simultaneous bandwidth of a few nanometers
- > Excellent absolute accuracy: 0.001 nm
- > Trigger
- > Long-life factory calibration
- > Robust (easy transport)
- > User-friendly interface or DLL interface
- > Compact size

Applications

- > Laser control
- > Multimode laser monitoring
- > Science



Resolution Spectra Systems

13 chemin du Vieux Chêne 38240 Meylan - FRANCE

Tel. +33 (0)4 58 00 12 49 info@resolutionspectra.com www.resolutionspectra.com

PRELIMINARY	CHARACTERISTICS
Wavelength range	630 to 1070 nm
Optical Spectral Resolution	10 - 20 pm / 0.2 cm ⁻¹ / 6 GHz
Number of channels	8
Wavelength bandwidth one measurement for each channel	9.6 cm ⁻¹ 3.8 nm (@ λ _{min} = 630 nm) 11 nm (@ λ _{min} = 1060 nm)
Absolute Accuracy	0.001 nm (thermal regulation)
Aperture	Singlemode fiber N.A. 0.12
Analog Gain	Variable x3, x6
Sensitivity	Low dark noise
Wavelength Calibration	Factory calibration - T° calibrated
Integration time	200 ms to 40 s (200 ms step)
Maximum Measurement rate	5 Hz
A/D resolution	14-bits
Dimensions	8 cm x 12 cm x 20 cm
Power consumption	15 W - 625 mA @ 24 VDC
Communication	Gigabit Ethernet compliant GigE Vision® standard with GenlCam SFNC standard
Fiber connection	FC/APC

FUNCTIONALITIES	
Wavelength meter functions	Multi-Peak detection and wavelength record
Start and stop continuous, acquisition	Ø
Rafale mode	Ø
Dark measurement	Ø
Unit change (nm, cm ⁻¹ , THz)	Ø
Output Data	ascii, bmp, svg
Standard graphical utilities	zoom, markers
Peak detection	Ø
Trigger modes	Internal and external presets or configurable trigger mode (3 inputs, 2 outputs)
Interface with VIs LabView	Ø
SWIFTS [™] TECHNOLOGY	Patents UJF/INPG/UTT/CNRS

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