



Spectrometer

Laser Spectrum Analyzer LSA IR-III Series



HighFinesse
Laser and Electronic Systems

	Type 2 – 3	Type 2 – 6	Type 2 – 11
Available measurement ranges	1400 – 3000 nm	1400 – 6000	1400 – 11000
Absolute accuracy	1 nm	2 nm	5 nm
Relative accuracy ¹⁾	1.25×10^{-4}	3×10^{-4}	5×10^{-4}
Wavelength deviation sensitivity/ Measurement resolution	0.7×10^{-4}	1.5×10^{-4}	2.5×10^{-4}
Spectral Resolution ($\Delta\lambda$)	15 nm	20 nm	30 nm

Linewidth Measurement Accuracy²⁾

15 %

Maximal Linewidth

1 Thz

Measurement Speed³⁾

Data Acquisition	100 Hz
Wavelength Calculation	100 Hz
Spectrum Calculation	15 Hz

1) According to 3σ criterion

2) But not better than 5 % of the linewidth

3) Depending on PC hardware and settings. Without autocalibration usage



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Required Input Energy and Power

Pulsed 10 μ J

CW 0.2 mW

Diffraction Grating

FSR \sim 2.7 THz

Coupling Fiber Diameter

PIR-550/600 or CIR-550/600

Calibration

SLR-1532 or 3.39 μ m HeNe calibration laser (not included)

Calibration Period \leq 15 days

Warm-up Time

No warm-up time under constant ambient conditions. Otherwise until thermal and air pressure equilibrium is reached

Dimensions L \times W \times H

325 \times 180 \times 77 mm

Weight

3.0 kg



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Interface

High-speed USB 2.0 connection

Power Supply

External power supply included

Further Information

For further technical information, application examples, diagrams
and for customisation of the LSA IR-III series please contact:

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