

# WA-5000 Wavelength Analyzer

## OPTICAL SPECTRUM ANALYZER



Fast and accurate optical spectrum analyzer, designed for production floor needs.

### KEY FEATURES

Wavelength range:

- › O-band model: 1260-1360 nm
- › C-band: 1527-1567 nm

High speed sweeping in 500 ms (O-band)

Hardware resolution bandwidth = 250 pm

Equivalent resolution bandwidth = 50-100 pm

Wavelength repeatability  $\pm 10$  pm

No mechanical life limitation

Long operation durability

## SPECIFICATIONS

Wavelength Analyzer	WA-5000-O	WA-5000-C
Wavelength range (nm)	1260 to 1360	1527 to 1567
Equivalent resolution bandwidth (pm)	50 <sup>a</sup> to 100	50 <sup>a</sup> to 100
Absolute wavelength accuracy (pm)	±50	±40
Wavelength repeatability (pm)	±10	±10
Dynamic range (dBm)	-45 to 15	-50 to 15
Absolute power uncertainty (dB)	±0.8	±0.5
Maximum input power (dBm)	30	15
Power repeatability (dB)	±0.15	±0.1
Relative power accuracy (dB)	±0.5	±0.4
SMSR measurement range excluding PDL (dB)	≤45	n/a
SMSR accuracy (dB)	≤ ±1.0 (SMSR ≤ 40 dB); ≤ ±1.5 (SMSR > 40 dB)	n/a
PDL (dB)	<0.3	0.3
Noise floor (dBm)	-55	-55
Return loss (dB)	>30	>40
Sweep time (ms)	<500	<900
Connector type	FC/PC (9/125 µm)	
Weight (kg)	<10	

a. Equivalent measurement bandwidth

## GENERAL SPECIFICATIONS

Size (H x W x D)	103 mm x 442 mm x 300 mm (4 in x 17.4 in x 11.8 in)	
Weight	≤10 kg (22 lb)	
Temperature	Operating	5 °C to 40 °C (41 °F to 104 °F)
	Storage	-20 °C to 70 °C (-4 °F to 158 °F)
Relative humidity	20% to 80%	
Power <sup>a</sup>	100/120 Vac (50/60/400 Hz) 220/240 Vac (50/60 Hz) 60 W typical/80 W max.	
Access interface	USB 2.0	

a. Operate with supply voltage fluctuations up to ±10 % of the nominal voltage.

## ORDERING INFORMATION

WA-5000-XX

## Model

□ = O-band optical spectrum analyzer  
○ = C-band optical spectrum analyzer

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