Technical Specifications TS003_0100_0909

BOSA

High Resolution Optical Spectrum Analyzer

Optical Resolution (@3dB)	80fm (10MHz @1550nm)
Wavelength Range	1528-1565nm
Span Range	1 pm to complete wavelength range
Wavelength Accuracy	Option 100 : depends on TLS model Option 210 : +/-2pm (@1550nm)
Dynamic Range	>80dB
Close-in Dynamic Range	>40dB @±0.33pm (filter width @ 40dB depth) >60dB @±0.44pm (filter width @ 60dB depth)
Power Range	+10 to -70dBm
Maximum Safe Total Input Power	+20 dBm
Sensitivity (1)	-70dBm/0.1pm
Power Accuracy (2)	±1.5 dB
Polarization Dependence	±0.5 dB
Measurement time	1s for 10 nm
TLS output	Yes (Option # 210)
TLS output power (option 210)	0 dBm (Option # 210)
Advanced Functions	Spectral width, Total power integration, Power meter, Traces & Markers functionalities, Polarization control, Peak search, Ref. level search, Hold max/min, Averaging, Auto measurement, Macro Editor Tool (Automated measurements), Output TLS software functionalities (Option #210)….
External Application	*BOSA Traces Viewer Application*
Data storage	Internal memory External USB storage File type: traces file(*.txt, *.csv, *.jpg), program file (*.txt), measurement condition file (*.txt, *.csv) Video recording (*.avi format)
Interface	GPIB Ethernet 10/100 base T
Display	12.1 Inch colour TFT (resolution: 800x600 pixels) Touch sensitive screen
Optical Input	SMF; FC/APC (other on request)
Power Requirement	100/110/220v, 50/60Hz
Maximum Power Consumption	150W
Dimensions (mm^3) and mass	430 (W) x 230 (H) x 470 (D) mm, Approx. 22 kg.
Operating Temperature	+15ºC to +35ºC

(1) Sensitivity is defined as signal value > 6x RMS noise value, after averaging, polarization control and with *Lock Trace* on.

(2) Valid for any wavelength and power value (polarization dependence included). Valid for measurements made with polarization control, in high sampling rate mode and averaging. For 1σ (63 % of the cases) typical value of ±1 dB.

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These specs are subject to change without further notice. Check the latest status in www.aragonphotonics.com.

Options #	
100	**BOSA unit without built-in Tunable Laser Source (TLS).** An external TLS is required. Check the compatible models in support@aragonphotonics.com
200	**BOSA unit with built-in TLS.**
210	**Option#200 with an optical output for the internal TLS.** An extra optical output in the front panel is included to access the internal laser source. Software functionalities allow the user to operate the BOSA as a standalone TLS.