

Optical Power Meter Comparison

Specification	Meaning	KI 3600B-InGaAs	EXFO FPM-302	NOYES OPM 4-2D	JDSU OLP-6
'Autotest'					
Trade name		'Autotest'	'Auto-I recognition'	'Wave ID'	'Auto-I' & Twintest
Autotest compatibility with other products	More is better	All KI7000 & KI3000 series Source and Loss Test Set	FPM-300 Meter & FOT-300 Loss Test Set	OLS 1 Dual, OLS 2 Dual, or OLS 4 with Wave ID feature	Smililar OLS series source Not OLS 55 series
Distance Referencing	Yes is better	Yes	Yes	No	No
Auto wavelength recognition	Yes is better	Yes	Yes	Yes	Yes
Autotest sensitivity over 1300 ~ 1620 nm	Lower is better	-50 dBm	-50 dBm	-50 dBm	-50 dBm
Autotest wavelength		All calibrated wavelengths	Only for 850,1300,1310,1490,1550,1625 nm	All calibrated wavelengths	All calibrated wavelengths
Autotest speed		Real-time, continues data transfer	Real-time, continues data transfer	Tone detection only	Tone detection only
Power Meter					
Detector type	InGaAs is better	InGaAs	Ge	Ge	Ge
Power range		+5 to -70 dBm	+10 to -60 dBm	+6 to -60 dBm	+5 to -50 dBm
Display Range		+5 to -70 dBm	+10 to -65 dBm	+6 to -60 dBm	+10 to -65 dBm
Damage level	More is better	+15 dBm 10 dB above max display level	Not specified	Not specified	+10 dBm = max display level Damaging at max display level
Uncertainty over power and temperature range (calculated)	Temp and time are important	0.5 dB +10 to -70 dBm, -15 to 55 °C	Not specified	Not specified	Not specified
Resolution	Smaller is better	0.01	0.01: between +10 to -50 dBm 0.1: otherwise	0.01	0.01
Warm-up	Yes is bad	No warm up	Yes, when < 18 °C	Not specified	No warm up
User Zeroing required	Yes is bad	No	Yes, When power < -40 dBm	Not specified	Yes
λ Sensitivity 30nm	Smaller is better	0.04 dB	Not specified	Not specified	Not specified
Polarisation sensitivity	Smaller is better	< 0.005 dB	Not specified	Not specified	Not specified
Calibration λ	More is better	660, 850, 1300, 1310, 1390, 1490, 1550, 1610, 1625 nm	830,850, 980 ,1300,1310, 1450 ,1490,1550,1590, 1625 nm	850, 1300, 1310, 1550 nm	780,850,1300,1310,1550 nm
Accuracy at cal condition	Smaller is better	0.09 dB (2%)	0.20 dB (5%)	0.25 dB (6%)	0.20 dB (5%)
Externally Audited Calibration Laboratory	Yes is better	Yes	No	No	No
Re-calibration cycle	More is better	3 year	3 year	1 year	3 year
General					
Tone detection Hz	More is better	150 – 9999 Hz	270, 1k, 2k Hz	270, 330, 1k, 2k Hz	270, 330, 1k, 2k Hz

Standard connector	More is better	SC, FC, ST interchangeable adaptor	One connector adaptor	One connector adaptor	One connector adaptor
Metal free connector ¹	Yes is better	Yes	No	No	No
Max / Min recording		Yes	No	No	No
Display mode		dBm, dB, W	dBm, dB, W	dBm, dB, W	dBm, dB
Display hold		Yes	No	No	No
Save reference for each wavelength		Yes	Yes	Yes	Yes
Backlight		No	No	Yes	No
Weight / Volume	Smaller is better	500 gm / 1012 cc	400 gm / 1018 cc	260 gm / 431 cc	180 gm / 286 cc
Battery life hours		1200	300	300	130
Automatic power down		10 min after last key push	Not specified	5 min after last key push	After 20 min
Operating temperature	Bigger is better	-15 to 55 °C	-10 to 50 °C	10 to 50 °C	-10 to 55 °C
Storage temperature	Bigger is better	-25 to 70 °C	-40 to 70 °C	-30 to 60 °C	-40 to 70 °C
Warranty year	Longer is better	3 – 7	3	1	2
Standard accessories		SC,FC,ST optical connectors, traceable calibration certificate, Free Record keeping software, Multi-language Quick Reference Guide, manual	One connector adaptor, calibration certificate, wrist strap, alcohol cleaning pads, AC adaptor, manual	Carry case, AA batteries, protective rubber boot, and manual	Universal 2.5 mm connector adaptor, batteries, manual, belt bag

Note 1: Kingfisher instrument is supplied with metal-free optical interchangeable connector adaptors, which avoid critical contamination of connectors used in high power applications.

Disclaimer: This comparison is based on our interpretation of published specifications. No liability is accepted for any inaccuracy. We would be pleased to amend anything found to be inaccurate.

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