

Premium Optical Power Meter Comparison

v090511

Specification	Meaning	KI 7600C-InGaAs	AFL NOYES OPM 5-3D	JDSU OLP-55-02	EXFO FPM-600	Anritsu CMA50PMS
'Autotest'						
Trade name		'Autotest'	'Wave ID'	'Auto-λ', Twintest, TRIPLEtest	Auto-switching	'Auto-λ recognition'
Autotest compatibility with other products	More is better	All KI7000 & KI3000 series Sources and Loss Test Sets	OLS 1, OLS 2, OLS 4 with Wave ID	All Acterna Sources	300 & 500 series	Only with CMA50 Source & Loss Test Set
Autotest sensitivity	Lower is better	-50 dBm	-50 dBm	Not specified	-50 dBm	-57 dBm
Source serial no recognition	Yes is better	Yes	No	No	No	No
Distance Referencing	Yes is better	Yes	No	No	Yes	No
Power Meter						
Detector type		InGaAs	InGaAs	InGaAs	Ge	InGaAs
Power range		+5 to -70 dBm	+10 to -70 dBm	+11 to -70 dBm	10 to -70 dBm	+5 to -65 dBm
Display Range		+5 to -70 dBm	+10 to -70 dBm	+15 to -80 dBm	10 to -70 dBm	+10 to -75 dBm
Damage level	More is better	+15 dBm	+10 dBm Warning: detector could be damaged at max display level	+15 dBm Warning: detector could be damaged at max display level	+10 dBm Warning: detector could be damaged at max display level	+10 dBm Warning: detector could be damaged at max display level
Uncertainty over power and temperature range (calculated)	Temp and time are important	0.3 dB, +5 to -70 dBm, -15 to 55 °C	Not specified	Not specified	Not specified	Not specified
Resolution	Smaller is better	0.01	0.01	0.01	0.01 (10 to -60 dBm)	0.01
Warm-up	Yes is bad	No warm up	Not specified	No warm up	0 minutes	Not specified
User Zeroing required	Yes is bad	No	Not specified	No	Yes	Not specified
λ Sensitivity 30nm	Smaller is better	0.04 dB	Not specified	Not specified	Not specified	Not specified
Polarisation sensitivity	Smaller is better	< 0.005 dB	Not specified	Not specified	Not specified	Not specified
Actual Calibration λ	More is better	24 wavelengths include whole CWDM band	850, 1300, 1310, 1550, 1625 nm	850, 1300, 1310, 1550, 1625 nm	850, 1300, 1310, 1550, 1625 nm	Hidden or 1300 nm only
Accuracy at cal condition	Smaller is better	± 0.06 dB (1%)	± 0.25 dB (6%)	± 0.13 dB (3%)	± 0.2 dB (5%)	± 0.2 dB (5%)
Externally Audited Calibration Laboratory	Yes is better	Yes	No	No	No	No
Re-calibration cycle	More is better	3 year	1 year	3 year	3 years	1 year

General						
		Option	No	Option	No	Option
Visual Fault Locator	Yes is better					
Tone detection Hz	More is better	150 – 9999 Hz	270, 330, 1k, 2k Hz	270, 1k, 2k Hz	270, 1k, 2k Hz	270, 1k, 2k Hz
Standard connector	More is better	SC, FC, ST	One connector adaptor	One connector adaptor	One connector adaptor	One connector adaptor
Metal free connector ¹	Yes is better	Yes	No	No	No	No
Memory		1900 two λ tests	500 tests	1000 one λ tests with date/time stamp	1000 items	100,000 data sets (4 MB of user data)
Testing software		KITS™ software Easily user modifiable	WinTest software	OFS-355 Optical Fiber Assistant Software	ToolBox software, not user modifiable	Post processing software
Hold & Max / Min	Yes is better	Yes	No	No	Yes	No
Display mode		dBm, dB, W	dBm, dB, W	dBm, dB, W	dBm, dB, W	dBm, dB, W
Weight / Volume	Smaller is better	500 gm / 1729 cc	260 gm / 431 cc	500 gm / 1112	480 gm / 1178 cc	910 gm / 947 cc
Battery life hours	More is better	360 hrs	300 hrs	100 hrs	72 hrs	20 hrs
User-configurable pass/fail thresholds	Yes is better	No	No	No	Yes	No
Backlight		Yes	Yes	Yes	Yes	Yes
PC interface		USB, Standard	USB, Standard	USB, Standard	USB, Standard	USB, Standard
Automatic power down		10 min after last key push or disabled	5 min after last key push	After 20 min or disabled	Not specified	Programmable (1 to 99 minutes) or disabled
Operating temperature	Bigger is better	-15 to 55 °C	-10 to 50 °C	-10 to 55 °C	-10 to 50 °C	-10 to 50 °C
Storage temperature	Bigger is better	-25 to 70 °C	-30 to 60 °C	-40 to 70 °C	-40 to 70 °C	-25 to 60 °C
Warranty	Longer is better	3 – 7 years	1	1	3 years	3
Standard accessories		ST,FC,SC optical connectors, Operation manual, C cell batteries & AA-to-C battery size converter, NATA (ILAC) traceable calibration certificates, Carry Pouch, Carry strap & Leather protective holster, KITS™ Recording/Reporting software & USB A/B cable	2 x AA batteries, protective rubber boot, USB cable, Windows® compatible software and user's guide, OPM5 user's guide, and carry case	One connector adaptor, four dry batteries Mignon/AA, 1.5 V, operating manual, MT-1S Belt bag	User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter/charger, lithium ion battery, shoulder strap, hard carrying case, USB cable	Universal screw-type connector with choice of adapter, 4xAA alkaline battery pack, 110/220Vac adapter, manual

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.