


Premium Optical Power Meter Comparison

Revision

Specification	Meaning	KI 7600C-InGaAs	KI 2600-InGaAs	AFL NOYES OPM 5-3D	JDSU OLP-55-02	EXFO FPM-602	Anritsu CMA50PMS
							
Power Meter							
Detector type	InGaAs is better	InGaAs	InGaAs	InGaAs	InGaAs	Ge	InGaAs
Captive dust cover	No is bad	Yes	Yes	No	Yes	Not useful	Not useful
Drop protected port	No is bad	Yes	Yes	Yes	Yes	Yes	No
Detector availability		Ge, H, Si	Ge, H, Si	Ge, H	Ge, H	H	H
Calibration accuracy	Smaller is better	± 0.06 dB (1%)	± 0.06 dB (1%)	± 0.25 dB (6%)	± 0.13 dB (3%)	± 0.2 dB (5%)	± 0.2 dB (5%)
Display range	Big is better	+5 to -70 dBm	+10 to -70 dBm	+10 to -75 dBm	+15 to -80 dBm	10 to -70 dBm	+10 to -75 dBm
Linear power range	Big is better	+5 to -70 dBm	+10 to -70 dBm	Not specified	+11 to -70 dBm	+10 to -40, no zeroing	+2 to -65 dBm
Range acc. @ 25C		see below	see below	Not specified	see below	Not specified	+2 to -65 dBm
Range & temp acc.		0.3 dB, +5 to -70 dBm	0.3 dB +10 to -70 dBm	Not specified	1 dB +11 to -70 dBm	Not specified	Not specified
Damage level	More is better	+15 dBm	+15 dBm	+10 dBm	+15 dBm	+10 dBm	+10 dBm
Warm-up	No is good	No warm up	No warm up	Not specified	No warm up	No warm up	Not specified
User Zeroing required	No is good	No	No	Not specified	No	Yes	Not specified
λ Sensitivity 30nm	Smaller is better	0.04 dB	0.04 dB	Not specified	Not specified	Not specified	Not specified
Polarisation sensitivity	Smaller is better	< 0.005 dB	< 0.005 dB	Not specified	Not specified	Not specified	Not specified
Actual Calibration λ	More is better	24 wavelengths	24 wavelengths	6 wavelengths	5 wavelengths	44 wavelengths	6 wavelengths
Re-calibration cycle	More is better	3 years	3 years	1 year	3 years	3 years	1 year
Fiber type		Up to 200 μm	Up to 200 μm	Not specified	Up to 50 μm	Not specified	Not specified
'Autotest'							
Trade name		'Autotest'	'Autotest'	'Wave ID'	Auto-λ, twin/triple test	Auto-switching	'Auto-λ recognition'
Autotest compatibility with other products	More is better	All KI7000, KI9000, KI3000 Sources and LTS & Two-Way	All KI7000, KI9000, KI3000 Sources and LTS & Two-Way	OLS 1, OLS 2, OLS 4 with Wave ID	Partial compatibility, Smartpocket Sources	FLS 600 sources	CMA50 products
Autotest sensitivity	Lower is better	-50 dBm	-50 dBm	-50 dBm	Not specified	-50 dBm	-50 dBm

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Source Serial No capture	Yes is better	Yes	Yes	No	No	No	No
Distance referencing	Yes is better	Yes	Yes	No	No	No	No
General							
Visual Fault Locator	Yes is better	Option	Option	No	Option	No	Option
Display type		Small custom	Larger custom	Large custom	Small dot-matrix	Small custom	Small dot-matrix
Display capability	More is better	1 λ	up to 3 λ	up to 2 λ	up to 3 λ	1 λ	1 λ
Sunlight readability		Good	Good	Good	Poor	Good	Poor
Backlight	Yes is better	Yes	Yes	Yes	Yes	Yes	Yes
Tilt Bail	Yes is better	Yes	Yes	No	No	No	No
Lanyard mount	Yes is better	Yes	Yes	Yes	No	Yes	No
Sized for small hands	Yes is better	Yes	Yes	Yes	No (too thick)	No (too thick)	Yes
Tone detection Hz	More is better	150 – 9999 Hz	150 – 9999 Hz	270, 330, 1k, 2k Hz	270, 1k, 2k Hz	270, 1k, 2k Hz	270, 1k, 2k Hz
Multi-Fiber ID tone	Yes is better	No	Yes	No	No	No	No
Standard connector	More is better	SC, FC, ST	SC Adaptor	One adaptor	One adaptor	One adaptor	One adaptor
Metal free connector ¹	Yes is better	Yes	Yes	No	No	No	No
Pass / Fail	Yes is better	No	No	No	No	Yes	No
Memory / Data							
Memory	More is better	1900 two λ tests	999 four λ tests, also USB dump	500 fiber tests	1000 one λ tests	1000 items	100,000 data sets (4 MB of user data)
USB key dump	Yes is better	No	Yes	No	Optional	No	No
Memory & text	Yes is better	No	Yes	No	No	No	No
Memory & timestamp	Yes is better	No	Yes	No	Yes	No	No
Testing software		KITS™ software Easily user modifiable	KITS™ software Easily user modifiable	NOYES TRM Software	OFS-355 Optical Fiber Assistant Software	ToolBox software, not user modifiable	Post processing software
Software languages		44 languages	44 languages	Very limited	Very limited	Very limited	Very limited
Hold & Max / Min	Yes is better	Yes	Yes	No	No	Yes	No
Display mode		dBm, dB, W	dBm, dB, W	dBm, dB, μ W	dBm, dB, W	dBm, dB, W	dBm, dB, W
PC interface		USB	micro USB	USB	USB	USB	USB
Mechanical/ Environment / Power							
Weight / Volume	Smaller is better	500 gm / 1729 cc	420 gm / 698 cc	260 gm / 431 cc	500 gm / 1112	480 gm / 1178 cc	550 gm / 947 cc
Battery options		2 x C Alkaline/ NiMh	2 x AA Alkaline / NiMh	2 x AA Alkaline	4 x AA Alkaline/ NiMh	built-in rechargeable	4 x AA Alkaline / NiMh
Battery life hours	More is better	360 hrs	1000 hrs	300 hrs	100 hrs	72 hrs	20 hrs
External power	Yes is better	Yes	Yes, via Micro USB	Yes	Optional	Yes	Yes
On board charging	Yes is better	No	Yes, user selectable	No	Yes, user selectable	Yes	Not specified

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Automatic power down		10 min after last key push or disabled	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 temp	Bigger is better	-15 to 55 °C	-15 to 55 °C	-10 to 50 °C	-10 to 55 °C	-10 to 50 °C	-10 to 50 °C
Storage temp	Bigger is better	-25 to 70 °C	-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	3 – 7 years	1 year	1 year	3 years	3 years
Standard accessories		ST,FC,SC connectors, User manual, C cell batteries & AA-to-C battery size converter, calibration certificates, Carry pouch & strap, Leather holster, KITSTM Recording/Reporting software, USB cable	SC optical connector, User manual, calibration certificates, Carry Pouch & strap, KITSTM Recording/Reporting software, USB cable	2 x AA batteries, protective rubber boot, USB cable, Windows® compatible software 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.