





Loss Test Set Comparison

Revision 5 (17Feb2022)

Specification	Meaning	Kingfisher KI 2724-Ge	Viavi (JDSU) OLT-85 2325/05	Exfo FOT-602X-23BL	AFL NOYES OLTS 5-6
Model pictures (not to scale)					
'Autotest'					
Trade name		'Autotest'	'Auto-λ/Multi-λ'	'Auto-switching / Auto λ recognition'	'Wave ID'
Autotest compatibility with other products	More is better	All KI2000, KI3000, KI7000 Meters, Loss Test Set, 2 way Testers	OLP-3x, OLP-55, OLP-85, OLT-85, ORL-85	Not specified	Not specified
Auto wavelength recognition	Yes is better	Yes	Yes	Yes	Yes
Source Serial No capture	Yes is better	Yes	No	No	No
Remote referencing	Yes better	Yes	No	No	No
Autotest sensitivity	Lower is better	-50 dBm	-50 dBm	Not specified	Not specified
Source					
Wavelength ± tolerance	Smaller is better	LED: 850/1300 nm, Laser: 1310/1550 ± 20 nm	MM: 850/1300 ± 20 nm SM:1310/1550 ± 20 nm	1310/1550 ± 20 nm	1310/1550 ± 20 nm
Spectral width	Smaller is better	3 nm (typ)	< 5 nm	≤ 5 nm	Not specified
Warm-up period	Less is better	15 min	Not specified but implied, 20 min	15 min	Not specified
Stability		LED: 0.01 dB (typ) Laser: 0.04 dB (typ)(for 15 min after warm up; ±2°C)	Short term: ±0.02 dB, within 15 min Long term: ±0.2 dB, within 8 hours, ±0.3°C, after warm-up	±0.03dB for 15 min, ±0.1dB for 8 hrs after warm up; ±1°C	0.1 dB typ for 8 hrs at 25°C
Stability over temperature	Less is better	LED: 0.35dB (typ) over -15 to 55°C Laser: 0.6dB (typ) over -15 to 55°C	Not specified	Not specified	Not specified
Output power		Laser: 0 dBm (adjustable over 7 dB in 0.01 step) LED: -20 dBm	SM: 0 to -3 dBm MM: -23 to -20 dBm (adjustable in 0.01dB step)	≥ 1 dBm	-5 dBm
Output power accuracy		±1 dB (over operation temperature)	Not specified	Not specified	Not specified

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Reconnection repeatability		0.1 dB (95% confidence)	Not specified	Not specified	Not specified
Modulation		270, 1k, 2k Hz	270, 1k, 2k Hz	270, 1k, 2k Hz	Not specified
Visual Fault Locator option		Supported by VisiTester function	No	Yes	No
Encircled Flux compliant		850 & 1300 nm	850 nm	No	No
Meter					
Detector type	InGaAs is bad at 850 nm	Ge	InGaAs	Ge	InGaAs
Damage level	More is better	+15 dBm	+15 dBm	Not specified	Not specified
Resolution		0.01 dB	0.01 dB	0.01 dB (26 dBm to -45 dBm)	0.01 dB
Power display range	Big is better	-60 to +15 dBm	-85 to +15 dBm	-55 ~ 26 dBm	-60 ~ 16 dBm
Specified power accuracy range	Big is better	-60 to +15 dBm	-70 ² to +15 dBm	-55 ~ 26 dBm	
Power accuracy over range & temp		0.3 dB	0.5 dB ²	Not specified	Not specified
Calibration Accuracy	Smaller is better	1 % / 0.06 dB	± 0.25 dB (6%) ²	5 % / 0.21 dB	6% / 0.25 dB
Polarisation sensitivity dB	Smaller is better	< 0.05 dB	Not specified	Not specified	Not specified
Warm-up required	Yes is bad!	No	No	No	Not specified
User Zeroing required	Yes is bad!	No	No	Yes	Not specified
Calibrated wavelengths		28	7	47	7
Tone detection	More is better	150 ~ 9900 Hz	270, 1k, 2k Hz	270, 1k, 2k Hz	Not specified

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Memory / Data					
Memory capacity	Big is best	1000 four λ tests with date/time & unlimited on USB memory key	up to 10,000 tests	1000 data items	1000 two λ tests
USB Key Memory Dump	Dumping data in instrument to USB key by a push of button	Yes	No	No	No
Memory & timestamp	Yes is better	Yes	Yes	No	No
Text ID Tag	A feature to add text names to test results stored in memory	Yes	Yes	No	No
Hold & Max / Min	Yes is better	Yes	No	Yes	No
PC interface		via micro USB	USB, Ethernet	via USB	Not specified
Related software		KITS™ software, easily user modifiable	OFS-355 Software	Reporting Software	WinTest software
Software languages		44 languages	Limited	Limited	Limited
Standards based / Fail	Pass Yes is better	Yes	No	No	No
Mechanical/ Environment / Power					
Weight / Volume	Smaller is better	420 gm / 698 cc	750 gm / 1491 cc	480 gm / 1178 cc	550 gm / 945 cc
Internal power supply		2x Alkaline AA Or 2x NiMH AA cells	8x AA alkaline, or rechargeable LiON battery pack (option)	Lithium ion battery	2x AA cell
Battery life hours	More is better	90 hours	>10 hr (LiON)/>8 hr (alkaline)	50 ~ 72 hrs	11 ~ 17 hrs
External power/charging		via micro USB	AC adapter	AC adapter/charger	AC Adaptor (optional)

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On board charging	Yes is better	Yes, user selectable	Yes	Yes	Yes
Automatic power down		10 min after last key push or disabled	Yes	Yes	Yes
Operating / Storage temperature	Bigger is better	-15 to 55 °C / -25 to 70 °C	-5 to +45°C / -25 to +55°C	-10 °C ~ 50 °C / -40 °C ~ 70 °C	0°C to +50°C / -20°C to +60°C
General					
VisiTester	VisiTest mixes a laser VFL with Autotest, so at the power meter end, the active test fiber winks, making it obvious to the user	Yes	No	No	No
Display type		Large custom LCD	Large LCD touch screen	Small custom LCD	Small Dot Matrix LCD
Display capability	More is better	3-5 λ	4 λ	1 λ	1 λ
Sunlight readability	Yes is better	Good	Not specified	Good	Not specified
Backlight	Yes is better	Yes	Adjustable brightness	Yes	Not specified
Dust Cap with tiltball function	Yes is better	Yes	No	No	No
Lanyard mount	Yes is better	Yes	No	Yes	Yes
Easy grip, all adult hands	Yes is better	Yes	No (much too thick)	No (much too thick)	Yes
Multi-Fiber ID tone	Yes is better	Yes	No	No	No
Standard connector	More or specific interchangeable type is better	2x SC Interchangeable adaptor	1x SC(mounted) and 1x FC (interchangeable)	1 out of the 14 available options	1 out of 3 available options
Connector options	More is better	13	5	14	3
Duplex patchcord handling capability		LC and SC	Not specified	Not specified	Not specified
Metal free connector ¹	Yes is better	Yes	Not specified	No	No

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Standard accessories		SC connector adaptor, KITS™ reporting software, USB cable, Carry Pouch, Carry strap, Operation manual, ILAC/ISO 17025 traceable calibration certificates	Soft Shoulder Case, 2.5mm Universal Adaptor for power meter, SC(mounted) and FC(interchangeable) for light source, user manual, 8x Alkaline AA batteries	User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter/charger, connector adapter, lithium ion battery, shoulder strap, carrying case, USB cable, reporting software.	Alkaline batteries, protective rubber boot, PC software, adapter cap, carry case.
Traceable calibration		ILAC/ISO 17025	No	No	No
Re-calibration cycle	More is better	3 years	3 years	3 years	3 years
Warranty	Longer is better	3~7 years	1 year	3 years	1 year

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

Note 2: Comparison based on JDSU product manual. Beyond 70 dB, the accuracy / linearity specification may be meaningless, eg "± 0.5 dB, ± 10 pW"

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.