

Optical Light Source Comparison

Specification	Meaning	KI 7824	EXFO FLS-300-12D -23BL	FOT-700-12C-23BL	Noyes OLS 4
'Autotest'					
Trade name		'Autotest'	'Auto-λ recognition'	λ Auto	
Autotest compatibility with other products	More is better	All KI7000 & KI3000 series Meters and Loss Test Set & Agilent N397xA Handheld series	Only compatible with FPM-300 Meter & FOT-300 Loss Test Set	Only compatible with FOT-700 Meter & Loss Test Set	
Distance Referencing	Yes is better	Yes	Yes	No	
Auto wavelength recognition	Yes is better	Yes	Yes	Yes	
Source s/n identification	Yes is better	Yes	No	No	
Source		830/1300 ± 30nm LED 1310/1550 ± 20 nm laser	850 ± 25 nm LED 1300 +50/-10nm LED 1310/1550 ± 20 nm laser	850/1300 ± 35 nm LED 1310/1550 ± 30 nm Laser	850/1300 nm LED 1310/1550 ± 20 nm Laser
Warm-up period	Less is better	15 min	15 min	20 min	20 min to 1 hour
Stability	Less is better	Laser: 0.04 dB LED: 0.01 dB typ for 15 min after warm up	0.1 dB, 8 hr @ 23°C ± 1°C after warm up	0.1 dB @ 850/1300 nm 0.1 dB @ 1310/1550 nm 8 hr, @ 23°C±1°C after 20-min warm up, FC/UJC connector	± 0.1 dB / 1 hr
Stability over temperature	Less is better	Laser: 0.6 dB LED: 0.35 dB typ over -15 to 55°C	Not specified	0.5 dB @ 850/1300 0.5 dB/0.8dB @ 1310/1550 -10 to 40 °C	Not specified
Battery life	Longer is better	190 hours	120 hours	150 hrs both NiMh & AA batteries	16 hrs
Output power		-6 dBm for laser -23 dBm for LED	1 dBm for laser -18 dBm for LED	- 4 dBm for laser -18/ -20 dBm @ 850/1300	-10 dBm for laser -20 dBm for LED
Output power adjustment		Laser: 6 dB in 0.01 dB steps	No	Laser: 7.5 dB in 0.1 dB steps	Adjustable ± 1 dB
Spectral width	Smaller is better	3 nm typ for laser 35/100nm for 850/1300	< 5 nm 35/135nm for 850/1300	< 5 nm 50/160nm for 850/1300	5nm typ 55 nm typ @ 850/1300
General					
Optical connector protected during use	Yes is better	Yes	No	No	No
Standard optical connector	More is better	SC, FC, ST	Fixed or Select one	Select one	Select one
Metal free connector ¹	Yes is better	Yes	No	No	No
Small Form Factor Connectors		LC, F3000, MU	No	No	No
Modulation	More is better	270, 1k, 2k Hz	270, 1k, 2k Hz	270, 1k, 2k Hz	No
Operation temperature	Bigger is better	-15 to 55 °C	-10 to 50 °C	-10 to 50 °C	0 to 50 °C
Weight / Volume	Smaller is better	500 gm / 1012 cc	400 gm / 1018 cc	860 gm / 1763 cc	300 gm/ 431 cc
Standard accessories		ST, FC, SC optical connectors , traceable calibration certificate, wrist strap	One connector adaptor, calibration certificate, wrist strap, alcohol cleaning pads, AC adapter	One optical connector style Manual, charger, batteries, carry case, holster, cleaning pads, calibration certificate	No information
Warranty	Longer is better	3 - 7 years	3 years	1 year	1 year
Product maturity		Mature	immature	Mature	Mature

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.