

## Pocket Size Optical Light Source Comparison

Specification	Meaning	KI 9822	Acterna OLS-6	Exfo ELS-100-23BL	Noyes CSS1-SM
		<b>Pocket size</b>	<b>Pocket size</b>	Handheld	<b>Pocket size</b>
Wavelength		1310/1550 ± 20 nm	1310/1550 ± 20 nm	1310/1550 ± 20 nm	1310/1550 ± 20 nm
Wavelengths per source port	More is better	<b>2</b>	1	<b>2</b>	<b>2</b>
Warm-up period	Less is better	<b>15 min</b>	<b>15 min</b>	<b>15 min</b>	Not specified
Stability	Less is better	0.04 dB typ, for 15 min, after warm up	0.03 dB typ, for 1 hr,after warm up 0.25 dB typ, for 8 hr,after warm up	0.10 dB typ, for 8 hr,after warm up	0.05 dB typ, for 1 hr,after 30 sec 0.15 dB typ, for 8 hr,after 30 sec
Temperature variation during stability test	More is better	<b>±2 °C</b>	±0.5 °C	±1 °C	Not specified
Stability over temperature	Less is better	<b>0.6 dB typ, -15 to 55°C</b>	Not specified	Not specified	Not specified
Output power		0 dBm into 9/125 fiber	-7 dBm into 9/125 fiber	<b>1 dBm</b> into 9/125 fiber	0 dBm into 9/125 fiber
Output power adjustment		<b>3 dB in 0.1 dB steps</b>	No	No	No
Spectral width	Smaller is better	<b>3 nm typ</b>	< 7 nm	5 nm	5 nm
<b>General</b>					
Reconnection repeatability	Smaller is better	<b>0.1 dB</b>	Not specified	Not specified	Not specified
Captive optical connector dust cap	Yes is better	<b>Yes</b>	No	No	No
Standard optical connector	More is better	<b>SC, FC, ST interchangeable adaptors</b>	One fixed connector	One fixed connector	One fixed connector
Metal free connector <sup>1</sup>	Yes is better	<b>Yes</b>	No	No	No
Small Form Factor Connectors		<b>LC, F3000, MU</b>	No	LC	LC
Auto wavelength recognition		No	<b>Yes</b>	No	No
Multi-fiber ID signal generation	Yes is better	<b>Yes</b>	No	No	No
Modulation	More is better	<b>270, 1k, 2k Hz</b>	<b>270, 1k, 2k Hz</b>	No	<b>270, 330, 1k, 2k Hz</b>
Power		2 x AAA batteries	2 x AA batteries	3 x AA batteries	2 x AA batteries
Battery life	Longer is better	25 hours typ	60 hours	50 hours	<b>75 hours typ</b>
External power input	Yes is better	No	No	<b>Yes</b>	No
Automatic power-off function		<b>Yes, 10 min after last key push</b>	<b>Yes</b>	Not specified	<b>Yes</b>
Operation temperature	Bigger is better	<b>-15 to 55 °C</b>	-10 to 55 C	-10 to 50 °C	-10 to 50 °C
Environmental / ruggedness Standards conformation		<b>MIL-PRF-28800F &amp; IEC 60529: 2001/ EN 60529:1993+A1:2003</b>	No	No	No
Weight / Volume	Smaller is better	<b>130 gm / 145 cc</b>	200 gm / 286 cc	400 gm / 1017.5 cc	180 gm / 233.5 cc

Weight / Volume vs KI 9822	Smaller is better		1.5 / 2.0	3.0 / 7.0	1.4 / 1.6
Standard accessories		SC,FC,ST optical connectors, traceable calibration certificate, soft carry pouch, Free Record keeping software, Multi-language Quick Reference Guide	Two optical connectors for each wavelength, batteries, manual	User guide, Certificate of Calibration, instrument stickers in four languages, AC adapter, EUI-XX (ELS), connector adapter (FOA-XX) (EPM), three AA batteries, wrist strap, alcohol cleaning pads.	2 x AA batteries, protective rubber boot, user's guide, carry case
Warranty	Longer is better	<b>3 - 7 years</b>	1 year	1 year	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.