

## Pocket Size Optical Light Source Comparison

Rev3 (17 Feb 2022)

Specification	Meaning	KI 9822	JDSU OLS-35 (2303/11)	EXFO FLS-300-23BL	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>	<b>2</b>	<b>2</b>	<b>2</b>
Warm-up period	Less is better	<b>15 min</b>	20 min	<b>15 min</b>	Not specified
Stability	Less is better	0.04 dB typ, for 15 min, after warm up	0.02 dB typ, for 15 min, 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>	±0.3 °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	≥1 dBm 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>	< 5 nm	≤ 5 nm	5 nm
<b>General</b>					
Traceable calibration		<b>ILAC/ISO 17025</b>	No	No	No
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>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
Standard optical connector	More is better	One SC interchangeable adaptor	One Interchangeable adaptors	One fixed connector	One interchangeable connector
APC optical connector option	Yes is better	<b>Yes</b>	No	<b>Yes</b>	No
Metal free connector <sup>1</sup>	Yes is better	<b>Yes</b>	No	No	No
Small Form Factor Connectors		<b>LC, F3000, MU</b>	LC	LC	LC
Auto wavelength recognition		<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	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>	<b>270, 330, 1k, 2k Hz</b>	<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	40 hours typ	80 hours	120 hours	75 hours typ
External power input	Yes is better	No	<b>Yes</b>	<b>No</b>	No
Automatic power-off function		<b>Yes, 10 min after last key push</b>	Yes	Not specified	<b>Yes</b>
Operation temperature	Bigger is better	<b>-15 to 55 °C</b>	<b>-10 to 60 °C</b>	-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>	Not specified	Not specified	Not specified

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Weight / Volume	Smaller is better	<b>150 gm / 251 cc</b>	200 gm / 360 cc	400 gm / 1017.5 cc	180 gm / 233.5 cc
Weight / Volume vs KI 9822	Smaller is better		1.3 / 1.4	2.7 / 4.1	1.2 / 0.9
Standard accessories		SC interchangeable connector, soft carry pouch, Multi-language Quick Reference Guide	Alkaline batteries, neck strap, belt bag	User guide, Certificate of Calibration, instrument stickers in six languages, AC adapter, 3x AA batteries, wrist strap.	2 x AA batteries, protective rubber boot, user's guide, carry case
Warranty	Longer is better	<b>3 - 7 years</b>	1 year	<b>3 years</b>	<b>5 year</b>

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.