

# Light Source/Laser Source

FOS-120A/FLS-130A



- Single- or dual-wavelength configuration
- 2-kHz signal generation for fiber identification
- Dual powering: 9 V battery and AC adapter/charger
- Auto-off function



# Delivering Optical Source Stability

The FOS-120A Light Source and FLS-130A Laser Source deliver excellent stability. They are compatible with the FOT-10A and FOT-20A Power Meters, which are suitable for a variety of testing applications including continuity and end-to-end testing.



## Versatility

The FOS-120A Light Source and FLS-130A Laser Source feature single- and dual-wavelength sources from single or double ports. The units deliver continuous wave (CW) signals for power/loss measurements and 2-kHz signal generation for fiber identification. Certain FOS-120A models and all FLS-130A models are equipped with EXFO's Universal Interface.

## Unit Powering

Powering options include a 9 V battery and a standard AC adapter. The battery life offers a minimum of seven hours of continuous operation. An auto-off function with a 10-minute timer is included to preserve battery life.

## Accessories

Each unit comes complete with a rigid carrying case, a shockproof PVC holster with strap, as well as SC, ST and FC connectors.



## Key Features

- Single- or dual-wavelength configuration
- 2-kHz signal generation for fiber identification
- Dual powering: 9 V battery and AC adapter/charger
- Auto-off function
- Rigid carrying case and shockproof holster with strap
- Equipped with EXFO's Universal Interface, except for certain FOS-120A models

## Specifications

### Specifications—FOS-120A Light Source (LED)

Models	FOS-121A	FOS-122A	FOS-123A	FOS-124A	FOS-125A
Wavelength <sup>1</sup> (nm)	850 ± 30	1310 ± 40	1550 ± 30	850 ± 30 1310 ± 40	1310 ± 30 1550 ± 30
Spectral width <sup>2,3</sup> (nm)	50	145	70	50/145	70/70
Launch power <sup>3</sup> (dBm)					
9/125 μm	N/A	N/A	-25	N/A	-20/-25
50/125 μm	-17	-20	-25	-17/-20	-20/-25
62.5/125 μm	-14	-16	-25	-14/-16	-20/-25
Power stability <sup>4</sup> (dB)					
1 h	± 0.03	± 0.06	± 0.08	± 0.03/± 0.06	± 0.06/± 0.08
8 h	± 0.05	± 0.10	± 0.12	± 0.05/± 0.10	± 0.10/± 0.12
Output ports	1	1	1	2	2

### Specifications—FLS-130A Laser Source (Laser)

Models	FLS-132A	FLS-133A	FLS-135A	FLS-136A
Wavelength <sup>1</sup> (nm)	1310 ± 20	1550 ± 20	1310 ± 20 1550 ± 20	1310 ± 20 1550 ± 20
Spectral width <sup>5</sup> (nm)	≤ 5	≤ 5	≤ 5/5	≤ 5/5
Launch power <sup>3</sup> (dBm)				
9/125 μm	-7	-7	-7/-7	-8/-8
50/125 μm	-7	-7	-7/-7	-8/-8
62.5/125 μm	-7	-7	-7/-7	-8/-8
Power stability <sup>4</sup> (dB)				
1 h	± 0.06	± 0.08	± 0.06/± 0.08	± 0.06/± 0.08
8 h	± 0.10	± 0.12	± 0.10/± 0.12	± 0.10/± 0.12
Output ports	1	1	2	1

## General Specifications—FOS-120A and FLS-130A

Size (H × W × D)	22.2 cm × 10.3 cm × 5.9 cm	(8 3/4 in × 4 1/16 in × 2 1/4 in)
Weight		
unit	0.6 kg	(1.4 lb)
shipping	1.8 kg	(4 lb)
Temperature operating	-10 °C to 50 °C	(14 °F to 122 °F)

### Standard Accessories

User Guide, carrying case, 9 V battery, AC adapter, protective holster, shoulder strap and Certificate of Compliance.

### Laser Safety

21 CFR 1040.10 and IEC-60825-1      CLASS 1 LASER PRODUCT  
CLASS 1 LED PRODUCT

#### Notes

- At 23 °C.
- FWHM = Full width at half maximum.
- Typical.
- For a temperature stability of ± 1 °C.
- rms = root mean square.

## Ordering Information

### Light Source

#### FOS-12XA-XX

##### Model

FOS-121A = 850 nm  
 FOS-122A = 1300 nm  
 FOS-123A = 1550 nm  
 FOS-124A = 850/1300 nm (2 ports)  
 FOS-125A = 1310/1550 nm (2 ports)

##### Connector

50 = FC/PC  
 54 = SC/PC  
 74 = ST/PC  
 EI-EUI-28 = UPC/DIN 47256\*  
 EI-EUI-76 = UPC/HMS-10/AG\*  
 EI-EUI-89 = UPC/FC narrow key\*  
 EI-EUI-90 = UPC/ST\*  
 EI-EUI-91 = UPC/SC\*  
 EI-EUI-95 = UPC/E-2000\*

Example: FOS-123A-EI-EUI-89

\* for models FOS-123A and FOS-125A only

### Laser Source

#### FLS-13XA-XX

##### Model

FLS-132A = 1310 nm  
 FLS-133A = 1550 nm  
 FLS-135A = 1310/1550 nm (2 ports)  
 FLS-136A = 1310/1550 nm (1 port)

##### Connector

50 = FC/PC  
 54 = SC/PC  
 74 = ST/PC  
 EI-EUI-28 = UPC/DIN 47256  
 EI-EUI-76 = UPC/HMS-10/AG  
 EI-EUI-89 = UPC/FC narrow key  
 EI-EUI-90 = UPC/ST  
 EI-EUI-91 = UPC/SC  
 EI-EUI-95 = UPC/E-2000

Example: FLS-135A-EI-EUI-89

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#### Rugged Handheld Solutions

- OLTS
- Power Meter
- Light Source
- Talk Set



#### UNIVERSAL TEST SYSTEM

- OTDR
- OLTS
- ORL
- Switch

#### Optical Fiber

- OSA
- PMD
- Chromatic Dispersion Analyzer
- Multiwavelength Meter

#### DWDM Test Systems

- 10/100 and Gigabit Ethernet
- SONET/SDH (DSO to OC-192c)
- SDH/PDH (64Kb/s to STM-64c)

#### Protocol

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