



- Wide-spectrum LED models for PMD measurement
- 2 kHz modulation for fiber identification
- Three-way powering
- Battery life up to 40 hours

### Wide-Spectrum Polarized Source

Specially designed to work with the FTB-5500 PMD Analyzer, the wide-spectrum FLS-110 Optical Polarized Source provides the high power output needed to measure polarization mode dispersion in the field.

### Practical Features

The FLS-110 offers CW and 2 kHz modulation for fiber identification, complete status indicators, low battery indicator and an auto-off function. The unit is housed in a sturdy, waterproof case surrounded by a shock-absorbing holster that protects the instrument in tough field conditions. Choose between the 1310 nm or the 1550 nm LED models. Both units feature high and low power levels to maximize battery life.

### Power to Spare

The FLS-110 features three complementary power sources for extended operation. When the rechargeable NiCd battery runs low, the unit automatically switches to the 9 V alkaline battery backup. An AC adapter/charger is also supplied for continuous operation.

# Optical Polarized Source

## SPECIFICATIONS

### GENERAL SPECIFICATIONS

Size (H x W x D)	22 cm x 11 cm x 5 cm (8 7/8 in x 4 1/2 in x 2 in)	
Weight	unit	0.75 kg (1 1/2 lb)
	shipping	2.5 kg (5 lb)
Temperature	operating	-10 °C to 40 °C (14 °F to 122 °F)
	storage	-30 °C to 60 °C (-22 °F to 140 °F)
Power	NiCd batteries, 9 V alkaline batteries, AC adapter/charger	
Battery life (NiCd + 9 V)	Up to 40 hours	

### STANDARD ACCESSORIES

User guide, AC adapter/charger, built-in NiCd batteries, 9 V alkaline battery, carrying case, protective holster, shoulder strap and Certificate of Compliance

### POLARIZED SOURCE SPECIFICATIONS<sup>1</sup>

Model	-02P	-03P
Nominal Wavelength (nm)	1310	1550
Spectral width (nm)	≥ 35	≥ 65
Emitter type	LED	LED
Typical output power (dBm) 9/125 μm	-16	-20

### SAFETY

This product complies with 21 CFR 1040.10 and 1040.11, and with IEC 60825-1:1993+A1:1997. CLASS 1 LED PRODUCT

### Notes

1. At 23 °C ± 2 °C.

## ORDERING INFORMATION

FLS-110-XXX-XX

**Source code**  
Single wavelength  
02P = 1310 nm LED  
03P = 1550 nm LED

**Connector code**  
58 = FC/APC narrow key  
89 = FC/UPC  
91 = SC/UPC  
E1-EUI-28 = UPC/DIN 47256  
E1-EUI-76 = UPC/HMS-10/AG  
E1-EUI-89 = UPC/FC  
E1-EUI-90 = UPC/ST  
E1-EUI-91 = UPC/SC  
E1-EUI-95 = UPC/E-2000  
EA-EUI-28 = APC/DIN 47256  
EA-EUI-89 = APC/FC  
EA-EUI-91 = APC/SC  
EA-EUI-95 = APC/E-2000

Example: FLS-110-02P-E1-EUI-89 for FC/UPC interface  
FLS-110-02P-EA-EUI-89 for FC/APC interface

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### Rugged Handheld Solutions

- OLTS
- Power meter
- Light source
- Talk set



### Optical Fiber

- OTDR
- OLTS
- ORL meter
- Switch

### DWDM Test Systems

- OSA
- PMD analyzer
- Chromatic dispersion analyzer
- Multiwavelength meter

### Telecom/Datacom

- 10/100 and Gigabit Ethernet
- SONET/SDH (DS0 to OC-192c)
- SDH/PDH (64 kb/s to STM-64c)

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.** For the most recent version of this spec sheet, please go to the EXFO website at <http://www.exfo.com/specs>. In case of discrepancy, the Web version takes precedence over any printed literature.