

# FLS-140

## VISUAL FAULT LOCATOR



Highly efficient pocket-size visual fault locator—the ideal complementary tool for any fiber-testing technician.

### KEY FEATURES

Bright red laser at 655 nm

Pulsed and CW operation

40 hours of operation (typical)

Standard AAA alkaline batteries

Pocket-size pen-style design

2.5 mm universal connector

The FLS-140 is the easiest way to identify fibers from end to end and locate polished connector endfaces. Its red laser shines through most yellow-jacketed fibers to help you pinpoint breaks, bends, faulty connectors, splices and other causes of signal loss. It has a reach of up to 5 km\*. The convenient FLS-140 locates faults visually by creating a bright red glow at the exact location of the fault on singlemode or multimode fibers.

### Compact Design

With a pocket-size pen-style design, this visual fault locator can easily be carried anywhere. Thanks to its anodized aluminium casing, this long-lasting and lightweight tool is the complementary tool of choice for any fiber-testing field technician.

### Cost-Effective

The FLS-140's extremely high efficiency guarantees prolonged operation with two standard AAA alkaline batteries, typically providing 40 hours of uninterrupted operation.

Priced to accommodate the tightest budgets, the FLS-140 is a truly affordable way to locate faults in OTDR dead zones. Its effectiveness justifies purchasing one for just about every fiber technician.

\* Typical length of continuous fiber at which end-to-end identification is possible, depending on fiber attenuation. Visual fault location depends on ambient light conditions at test site.

SPECIFICATIONS <sup>a</sup>	
Operation (Hz)	2 to 3
Wavelength (nm) (typical)	650 to 660
Emitter type	Laser
Power output <sup>b</sup> (typical) (mW)	0.6
Distance range <sup>c</sup> (typical) (km)	5
Operation mode	Pulsed and CW

**Notes**

- a. Specifications are valid at 23 °C ± 3 °C.
- b. Only valid with 50/125 µm fiber.
- c. Depends on fiber attenuation.
- d. Typical battery life using AAA alkaline batteries: VARTA Industrial No. 4003; 1.5 V; LR03 Micro; AM4; MN2400. Battery life may fluctuate significantly, depending on specific unit's laser current.

GENERAL SPECIFICATIONS		
Power supply	2 AAA alkaline batteries	
Laser class	2	
Battery life <sup>d</sup> (h)	40	
	pulsed	40
Length	157 mm	(6 3/16 in)
Maximum diameter	12 mm	(1/2 in)
Weight (with batteries)	70 g	(2.5 oz)
Temperature		
	operating	-10 °C to 45 °C (14 °F to 113 °F)
	storage	-30 °C to 60 °C (-22 °F to 140 °F)

### SIX WAYS TO USE A VISUAL FAULT LOCATOR

- 1. Detects breaks in OTDR dead zone.
- 2. Highlights sharp bends where losses occur.
- 3. Optimizes mechanical/fusion splices.
- 4. Detects defective connectors.
- 5. Ensures end-to-end fiber identification in multifiber cables.
- 6. Detects major scratches on connector surfaces.

### LASER SAFETY

Complies with 21 CFR 1040.10 except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

### STANDARD ACCESSORIES

Quick reference guide (including Certificate of Compliance) and two AAA alkaline batteries.

### ORDERING INFORMATION

**FLS-140**

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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. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit [www.EXFO.com/recycle](http://www.EXFO.com/recycle). Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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