

# FLS-140

## VISUAL FAULT LOCATOR (VFL)

- Highly efficient pocket-size VFL—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 VFL 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. VFL 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
Maximum power output <sup>b</sup> (mW)	<1
Distance range <sup>c</sup> (typical) (km)	5
Operation mode	Pulsed and CW

GENERAL SPECIFICATIONS		
Power supply	2 AAA alkaline batteries	
Laser class	2M	
Battery life <sup>d</sup> (h)	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 VFL**

Detects breaks in OTDR dead zone.

Highlights sharp bends where losses occur.

Optimizes mechanical/fusion splices.

Detects defective connectors.

Ensures end-to-end fiber identification in multifiber cables.

**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**

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.

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