

# Visual Fault Locators

## Optical Fiber Damage/Break Locator



**FFL-050**  
(POCKET-SIZED)



**FFL-100**  
(RUGGEDIZED)

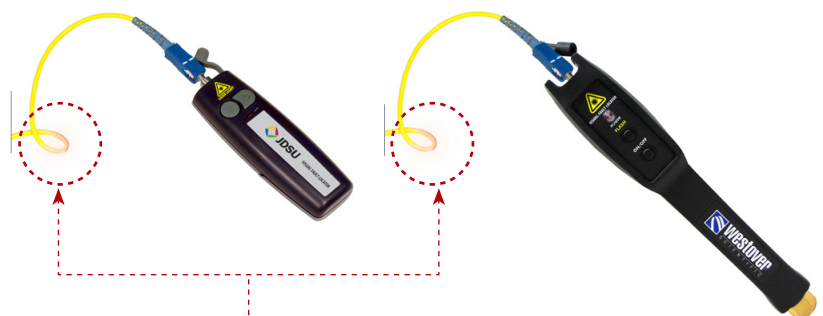
### Features

- Compact, ergonomic design for ultimate portability
- Visible wavelength = 650nm
- High powered laser (1 mW) for single-mode (> 7km) and multi-mode (> 5km) connectors
- Long-lasting battery life
- Continuous or Flash illumination
- Universal connector interface for quick & easy connection
- 2.5mm connector input (*1.25mm adapter available*)
- Includes soft-sided carrying case with belt loop

Whether installing or troubleshooting, the Visual Fault Locator (VFL) is an essential tool that quickly and easily locates problem areas in fiber cables. By pinpointing the exact location of fiber damage, technicians are able to diagnose, troubleshoot, and fix the problem efficiently. VFL's are also used for continuity tests and fiber identification.

JDSU offers two unique versions of VFL's that are economically priced and ergonomically designed for comfortable handling and portability. Both are equipped with a 2.5mm interface, compatible with connectors such as SC, ST, and FC, while the 1.25mm adapter enables connection to LC and MU connectors. The VFL emits a bright beam of red laser light (*Class II*), and as the light escapes from the damaged fiber, the illumination is easily visible from a distance. The CONTINUOUS/FLASH control button allows the option for continuous or flashing illumination.

### FIBER TROUBLESHOOTING & VERIFICATION



**RED ILLUMINATION indicating  
fiber damage/bend**

### Applications

- Locate sharp bends, breaks, and damages in fiber
- Perform end-to-end continuity tests
- Fiber tracing and identification

## Visual Fault Locators (FFL-050 & FFL-100)

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### Benefits

- Easy-to-use; quickly & easily locate damage in optical fiber
- Economically priced
- Ruggedized and designed for demanding field use
- Continuous and Flashing illumination to locate damages quickly & easily
- Long-lasting battery life
- Protective rubber end cap



Univ. 1.25mm Adapter



Universal 1.25mm adapter in use on FFL-100

### COMPARISON

#### FFL-050 (Pocket-sized)

- Compact size for portability
- Uses 2 x “AAA” batteries *(included)* with 30+ hours continuous power
- Universal 1.25mm adapter sold separately

#### FFL-100 (Ruggedized)

- Rugged, shock-absorbing construction
- Uses 2 x “AA” batteries *(included)* with 80+ hours continuous power
- Professional-grade with Universal 1.25mm adapter included

### SPECIFICATIONS

	FFL-050 (Pocket-sized)	FFL-100 (Ruggedized)
Dimensions	11.4cm x 3.5cm x 2.0cm (4.5" x 1.4" x 0.8")	22.0cm x 3.5cm x 3.0cm (8.7" x 1.4" x 1.2")
Weight	46g (1.6oz) with 2 “AAA” batteries	150g (5.3oz) with 2 “AA” batteries
Fiber Compatibility	Single-mode, Multimode	Single-mode, Multimode
Wavelength	650nm (visible)	650nm (visible)
Laser Safety Rating	Class II	Class II
Output Power	1.0mW max	1.0mW max
Output Modes	Continuous and flashing	Continuous and flashing
Range	<ul style="list-style-type: none"> <li>▪ &gt; 7km (4.3mi) single-mode</li> <li>▪ &gt; 5km (3.1mi) multimode</li> </ul>	<ul style="list-style-type: none"> <li>▪ &gt; 7.5km (4.7mi) single-mode</li> <li>▪ &gt; 5km (3.4mi) multimode</li> </ul>
Connector Interface	<ul style="list-style-type: none"> <li>▪ Universal 2.5mm (fixed)</li> <li>▪ Universal 1.25mm adapter (sold separately)</li> </ul>	<ul style="list-style-type: none"> <li>▪ Universal 2.5mm (fixed)</li> <li>▪ Universal 1.25mm adapter (included)</li> </ul>
Controls	<ul style="list-style-type: none"> <li>▪ ON/OFF</li> <li>▪ Continuous/Flashing</li> </ul>	<ul style="list-style-type: none"> <li>▪ ON/OFF</li> <li>▪ Continuous/Flashing</li> </ul>
Battery Type	2 x AAA	2 x AA
Battery Life	30+ hours on Continuous	80+ hours on Continuous
Carrying Case	Soft-sided w/ belt loop	Soft-sided w/ belt loop
Safety	1992, EN 61010-2, CE	1992, EN 61010-2, CE
Warranty	1 year	1 year

### ORDERING INFORMATION

FFL-100	Visual fault locator (ruggedized) with 1.25mm adapter
FFL-050	Visual fault locator (pocket-sized)
FFL-U12	Universal 1.25mm adapter for FFL-100
FFL-050-U12	Universal 1.25mm adapter for FFL-050