

# VIAVI

## Visual Fault Locators

### Optical Fiber Damage/Break Locator

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 can diagnose, troubleshoot, and fix the problem efficiently. The VFL is also used for conducting continuity tests and performing fiber identification.

VIAVI Solutions offers two unique versions of the VFL that are economically priced and ergonomically designed for comfortable handling and portability. Both versions are equipped with a 2.5 mm interface and are compatible with connectors such as SC, ST, and FC, while the included 1.25 mm adapter enables connection to LC and MU connectors. The VFL emits a visible red light, making the light escaping from the damaged fiber easily visible from a distance. The Continuous/Flash control button lets operators choose between continuous or flashing illumination.



### Benefits

- Easy-to-use
- Quickly and easily locate damage in optical fiber
- Continuous and Flashing illumination modes
- Economically priced
- Ruggedized and designed for demanding field use
- Long-lasting battery life

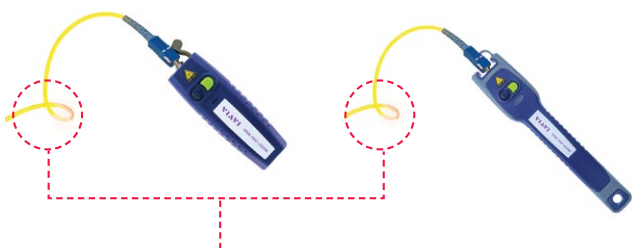
### Features

- Compact, ergonomic design for ultimate portability
- Visible wavelength is 650 nm
- Low and high powered versions (1 mW and 5 mW) for single-mode and multimode fibers
- Continuous or Flash illumination
- Universal connector interface for quick and easy connection
- 2.5 mm connector input and 1.25 mm adapter
- Includes soft-sided carrying case with belt loop

### Applications

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

## Fiber Troubleshooting & Verification



Red illumination indicating fiber damage/bend

## Comparison

### FFL-050 / 055 (Pocket-sized)

- Compact size for portability
- Uses two AAA batteries (included) with 30+ hours continuous power
- Universal 1.25 mm adapter included

### FFL-100 / 105 (Ruggedized)

- Rugged, shock-absorbing construction
- Uses two AA batteries (included) with 80+ hours continuous power
- Professional-grade with universal 1.25 mm adapter included
- Lanyard / neck-strap included
- Magnet for quick attach to rack / panel

## Specifications

| Part number                  | FFL-050                                               | FFL-055                 | FFL-100                                     | FFL-105                 |
|------------------------------|-------------------------------------------------------|-------------------------|---------------------------------------------|-------------------------|
| Form factor                  | Pocket-sized                                          |                         | Ruggedized                                  |                         |
| Dimensions                   | 12.0 x 3.5 x 2.0 cm<br>(4.7 x 1.4 x 0.8 in)           |                         | 21.0 x 4.0 x 2.6 cm<br>(8.3 x 1.6 x 1.0 in) |                         |
| Weight <sup>1</sup>          | 70 g (2.5 oz)                                         |                         | 145 g (5.1 oz)                              |                         |
| Fiber compatibility          | Single-mode, Multimode                                |                         |                                             |                         |
| Wavelength                   | 650 nm (visible)                                      |                         |                                             |                         |
| Output modes                 | Continuous and flashing                               |                         |                                             |                         |
| Connector interface          | Universal 2.5 mm (fixed)<br>Universal 1.25 mm adapter |                         |                                             |                         |
| Controls                     | On / Off<br><br>Continuous / Flashing                 |                         |                                             |                         |
| Battery type                 | Two AAA                                               |                         | Two AA                                      |                         |
| Battery life                 | 45+ hours on continuous                               | 20+ hours on continuous | 90+ hours on continuous                     | 50+ hours on continuous |
| Carrying case                | Soft-sided with belt loop                             |                         |                                             |                         |
| Warranty                     | 1 year                                                |                         |                                             |                         |
| Output power                 | 1 mW                                                  | 5 mW                    | 1 mW                                        | 5 mW                    |
| Laser safety rating          | Class 2                                               | Class 3R                | Class 2                                     | Class 3R                |
| Range (maximum) <sup>2</sup> | 7 km                                                  | 12 km                   | 7 km                                        | 12 km                   |

1. With batteries installed

2. VFL range depends on many factors, including fiber quality / loss

## Ordering Information

| Description                                 | Part Number |
|---------------------------------------------|-------------|
| Visual fault locator (ruggedized) 1mW       | FFL-100     |
| Visual fault locator (pocket-sized) 1mW     | FFL-050     |
| Visual fault locator (ruggedized) 5mW       | FFL-105     |
| Visual fault locator (pocket-sized) 5mW     | FFL-055     |
| Universal 1.25 mm adapter for FFL-100 / 105 | FFL-U12     |
| Universal 1.25 mm adapter for FFL-050 / 055 | FFL-050-U12 |