

## Parts Overview



1.25mm Universal Adapter (FFL-U12)

twist/turn to align geometry for lock & unlock

## Maintenance

Keep this instrument clean and dry. The **Visual Fault Locator** is built for durability and heavy use, but careful operation and handling will greatly extend its life.

## VFL Specifications

Dimensions	22cm x 3.5cm x 3.0cm
Weight	0.15kg (w/ 2 "AA" batteries)
Fiber Compatibility	Single-mode, Multimode (simplex)
Wavelength	650nm (visible)
Laser Safety Rating	Class 2
Output Power	1.0mW max.
Output Modes	Continuous and flashing (2–3Hz pulsed)
Range	4 km Single-mode, 3 km Multimode
Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 60°C
Adapter	2.5mm Universal
Controls	ON/OFF, continuous/flashing
Battery Type	2 x "AA"
Battery Life	> 80 hours in continuous mode
Carry Case	Soft-sided with belt loop
Safety	1992, EN 61010-2, CE
Warranty	1 year

## Parts & Accessories

Visual Fault Locator	FFL-100
1.25mm Universal Adapter	FFL-U12



## Customer Service

### TOLL FREE (US & Canada)

▶ Customer & Technical Service

**800-304-3202**

### Local & International

▶ Customer & Technical Service

**425-398-1298**

▶ Fax

**425-398-0717**

Customer service business hours are 7:00 a.m. – 5:00 p.m. Pacific Standard Time (PST).

# Visual Fault Locator

# User Manual



## Included

- Visual Fault Locator
- 1.25mm Universal Adapter
- Soft-sided Protective Pouch
- 2 "AA" Batteries
- User Manual



18421 Bothell-Everett Hwy.  
Suite 110  
Mill Creek, WA 98012

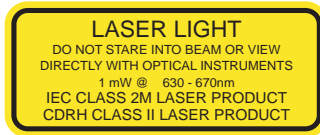
Phone: (800) 304-3202 or (425) 398-1298  
Fax: (425) 398-0717  
E-mail: info@westoverscientific.com  
Web: www.westoverfiber.com

ZP-PKG-0333  
REV A

Thank you for purchasing the Visual Fault Locator.

**CAUTION!**

- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.
- Never look directly into the VFL laser output.
- Cover the VFL output with the dust cap when not in use.
- Do not magnify or otherwise modify the laser output.



### Overview

The **Visual Fault Locator** (VFL) is a ruggedized, hand-held tool used to locate breaks and/or damages in optical fibers. It employs a powerful red laser designed to couple to optical connectors, giving you the ability to locate areas in a fiber that have been damaged, broken or tightly bent. The laser light will escape from the fiber at the exact site of the damage, causing the cable sheath to illuminate red. The **FLASH** control allows the option for continuous illumination or flashing mode.

This manual will provide the necessary information to properly operate the VFL.



### Assembly

The **Visual Fault Locator** is fully assembled and comes with a soft-sided carrying case. Included are 2 "AA" batteries with > 80 hours of continuous-mode battery life. To install the batteries, follow the battery installation procedure below.

The VFL is equipped with a 2.5mm interface for compatibility with connectors such as SC, ST and FC, while the 1.25mm adapter (included) enables compatibility with small form factor connectors such as LC and MU.

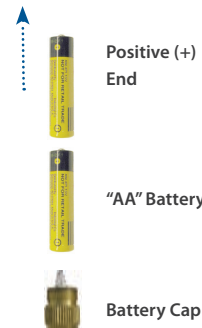
### Controls

- **ON/OFF Button**  
*The ON/OFF button acts as the power switch.*
- **FLASH Button**  
*The FLASH button allows the user to switch between continuous laser light and flashing laser light.*



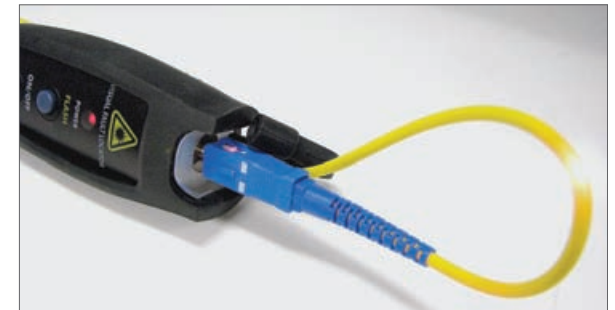
### Installing the Batteries

1. Remove the **Battery Cap**.
2. Insert 2 "AA" batteries with the positive (+) end facing the inside of the VFL.
3. Reattach the **Battery Cap**.
4. Turn the power **ON** to verify proper installation (*the red power LED will illuminate*).



### Operation Procedures

1. Pull off the dust cover and attach a 2.5mm connector (or use the 1.25mm adapter to attach a 1.25mm connector) to the connector input on top of the unit.
2. Turn the VFL **ON** by pushing the **ON/OFF button** (*the red power LED will illuminate*).
3. If there is damage to the fiber, a red illumination will appear at the exact location of the damage. For easier identification, push the **FLASH** button to activate the flashing-mode (*the red power LED will begin to flash*). Push the **FLASH** button again to return to continuous-mode.
4. When finished, be sure to turn the unit **OFF** to conserve battery life.



**Note:** Diode laser power up to 1mW at 650nm can be accessible in a 7mm aperture at 100mm.