# VIAVI

# FI-60

## Live Fiber Identifier with Integrated Optical Power Meter

## Innovative FI-60 Design Gives You Two Essential Fiber Tools in One Device

Inadvertently disconnecting active fiber during installation, test and troubleshooting is a common cause of dropped service. The new FI-60 LFI enables users to easily detect the optical signal without having to disconnect the fiber or disrupt network traffic. The unique Viavi Solution® SafeChek™ system ensures safe and repeatable engagement with most fiber types, without the hassle of changing out costly dies.

The FI-60 easily converts to an Optical Power Meter (OPM), providing twice the value for your investment and reducing the number of tools you have to carry on the job. Simply remove the LFI head attachment, connect the corresponding adapter (2.5 or 1.5mm) and insert a connector to measure power. This versatile tool can display, store, and recall optical power measurements for each of the selectable wavelengths. Users can download the stored data onto a PC via USB. The FI-60 also interfaces with FiberChek2, providing integrated inspection and OPM testing and reporting capabilities.

### Key Benefits

- Avoid network downtime and damage with repeatable SafeChek™ easy-pull trigger system.
- Get the job done faster with a single LFI head that is compatible with multiple cable diameters (250µm to 3mm jacketed fibers).
- Increase reliability and avoid false readings with integrated ambient light shield.
- Access cable in multiple environments with the compact, ergonomic design.
- Easily convert to a full function OPM that stores, recalls, and exports results to a PC via USB

### Key Features

- SafeChek easy-pull trigger system ensures repeatable engagement with fiber cable
- LFI head accepts multiple cable diameters (250µm to 3mm jacketed fibers
- Durable metal input adapters (2.5 and 1.25mm) for OPM
- Measure both absolute (dBm) and relative (dB) power
- Store and recall up to 100 OPM readings

## Features and Components

Detachable LFI Head

Cable Alignment Groove

LFI Release/Attach Screw

3.7cm x 3.0cm LCD

Power Button

Inter-Changeable Input for Power Meter

OPM Controls

Data STORE and RECALL Controls

SafeChek™ Trigger for Live Fiber Identifier

USB Input for Connection to PC for use with Viavi fiber analysis software

## Specifications

| General | |
|---|---|
| Power source | 2 x AA alkaline batteries |
| Wavelength range | 780 to 1800 nm |
| Battery life | > 70 hours |
| USB type | 2.0 |
| Screen size (W x H) | 3.7 x 3.1 cm |
| Storage temperature | −20 to 70° C |
| Operating temperature | 0 to 50° C |
| **LFI** | |
| Dimensions | 216 x 60 x 38 mm (8.5 x 2.35 x 1.5 in) |
| Weight | 135 g (4.8 oz) with two AA alkaline batteries |
| Detection sensitivity | −20 dBm @ 1310 nm, -30 dBm @ 1550 nm |
| Insertion loss (typical) | 1310 nm: < .2 dB, 1550 nm: < 2 dB |
| Detected wavelengths | 850 to 1700 nm |
| Detected tones | 270 Hz, 330 Hz, 1 kHz, 2 kHz |
| Standard cable diameter range | 250 µm - 3 mm |

| OPM | |
|---|---|
| Dimensions | 171 x 42 x 25 mm (6.8 x 1.7 x 1.4 in) |
| Weight | 100 g (3.5 oz) with two AA alkaline batteries |
| Connector input | 1.25 mm and 2.5 mm available |
| Measurement types | dB, dBm |
| Detectable optical power range | −65 dBm to +10 dBm |
| Max. permitted input level | +23 dBm |
| Intrinsic uncertainty[1] | ±0.20 dB (± 5%) |
| Linearity[1] | ±0.06 dB (−50 dBm to +5 dBm) |
| Standard wavelength settings | 850, 980, 1300, 1310, 1490, 1550, 1625 nm |
| Wavelength and modulation | 270 Hz, 330 Hz, 1 kHz, 2 kHz |
| 1300, 1310, 1490, 1550, 1625 nm | −60 to +10 dBm |
| 850, 980 nm | −55 to +10 dBm |

1. Under the following reference conditions: −20 dBm (CW), 1300 nm ± 1 nm, 23°C ± 3K, 45 to 75% rel. humidity, 9 to 50 µm fiber

## Ordering Information

| Description | Part Number |
|---|---|
| Live Fiber Identifier with removable LFI attachment, 2.5 mm and 1.25mm OPM connector interfaces; USB cable; software; carrying case | FI-60 |
| Optical Power Meter with 2.5 mm and 1.25 mm connector interfaces; USB cable; software; carrying case | VP-60A |
| Optical Power Meter with 2.5 mm connector interface; USB cable; software; carrying case | VP-60 |
| Attachment Head; Live Fiber Identifier, connects to VP-60 | VPP-LFI |
| Adapter, for 1.25mm (LC, MU) for VP Series OPM | VPP-UPP12 |
| Adapter, for 2.5mm (FC, SC, ST) for VP Series OPM | VPP-IPP25 |

VIAVI