FI-60

Live Fiber Identifier with Integrated Optical Power Meter

Live Fiber Identifier   Optical Power Meter

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**

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. JDSU's unique SafeChekTM 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.
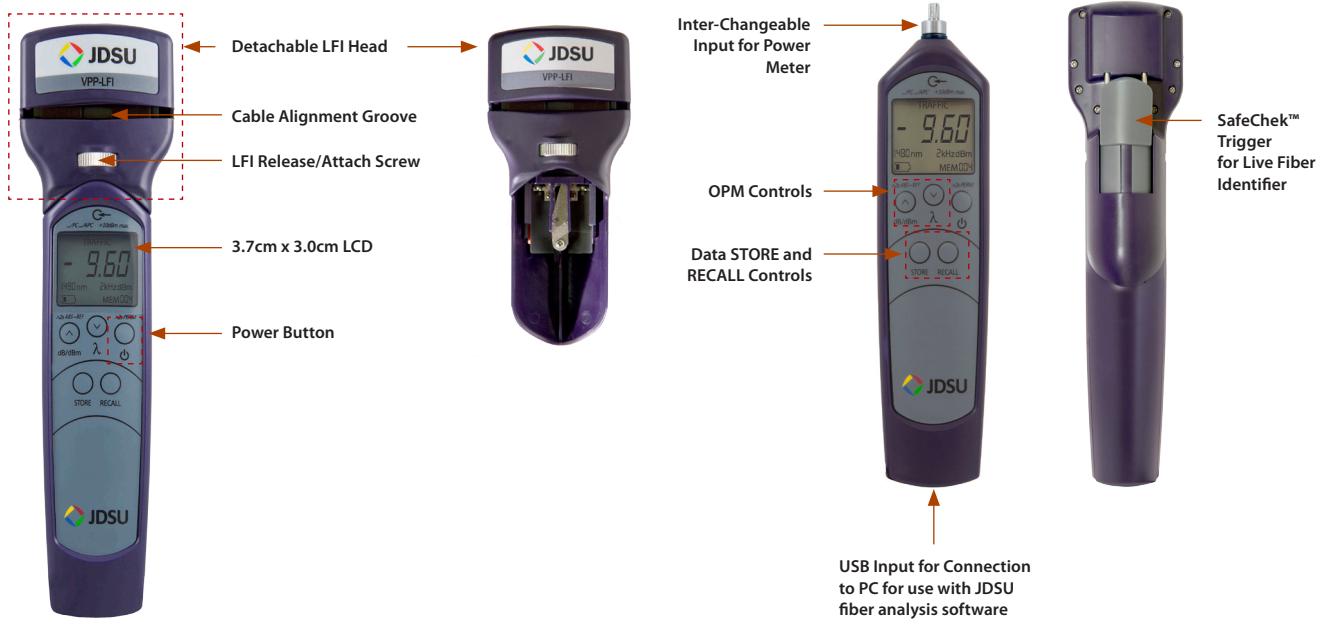
Key Features

- 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

Applications

- Quickly identify live optical signals on fiber cables without disrupting network traffic

- Take optical power measurements for all single-mode and multimode connectors

- Integrates with FiberChek2™ inspection and test software

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 JDSU 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] / Linearity[1]	±0.20 dB (± 5%) / ±0.06 dB (−50 dBm to +5 dBm)
Standard wavelength settings	850, 980, 1300, 1310, 1490, 1550, 1625 nm
Wavelength and modulation 1300, 1310, 1490, 1550, 1625 nm / 850, 980 nm	270 Hz, 330 Hz, 1 kHz, 2 kHz / −60 to +10 dBm / −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

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

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