



MADE FOR LIFE®



**OFI-50**  
**OPTICAL FIBER IDENTIFIER**  
**INSTRUCTION MANUAL**

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**1. OVERVIEW:**

The OFI-50 quickly identifies the direction of transmitted fiber and displays the relative core power without damaging the fiber or disrupting the network. It can use three different modulation frequencies (270 Hz, 1 kHz, 2 kHz) and four different adapter heads (3 mm, 2 mm, 900 nm, and 250 nm) to test a wide range of fiber optic cables.

**2. TECHNICAL SPECIFICATIONS:**

Type	Optical Fiber Identifier	
Identified Wavelength Range	800-1700 nm	
Identified Signal Type	CW, 270Hz±5%, 1kHz±5%, 2kHz±5%	
Detector Type	Ø1mm InGaAs 2pcs	
Adapter Type	Ø0.25 (Applicable for Bare Fiber)	
	Ø0.9 (Applicable for Ø0.9 Cable )	
	Ø2.0 (Applicable for Ø2.0 Cable )	
	Ø3.0 (Applicable for Ø3.0 Cable )	
Signal Direction	Left & Right LED	
Signal Direction Test Range (dBm, CW/0.9mm bare fiber)	-46~10(1310nm)	
	-50~10(1550nm)	
Signal Power Test Range (dBm, CW/0.9mm bare fiber)	-50~+10	
Signal Frequency Display (Hz)	270, 1k, 2k	
Frequency Test Range (dBm, Average Value)	Ø0.9, Ø2.0, Ø3.0	-30~0 (270Hz,1KHz)
		-25~0 (2KHz)
	Ø0.25	-25~0 (1KHz,2KHz)
		-20~0 (2KHz)
Insertion Loss(dB, Typical Value)	0.8 (1310nm)	
	2.5 (1550nm)	
Alkaline Battery (V)	9	
Operating Temperature (°C)	-10—+60	
Storage Temperature (°C)	-25—+70	

**3. INCLUDED COMPONENTS:**

- (1) Optical Fiber Identifier
- (4) Adapter Heads (3 mm, 2 mm, 900 nm, 250 nm)
- (1) Sunshade
- (1) 9V Battery
- (1) User Manual
- (1) Carrying Case



**4. KEY FEATURES:**



## 4.2 READING THE DISPLAY:



Direction Indicator: An LED will illuminate to tell you which direction the signal is travelling.

Relative Power: Displays the relative core power of the signal.

Battery Indicator: Changes color based on amount of battery power left.

Frequency Indicator: The respective LED will illuminate depending on the frequency of the signal detected.

Clamp Button: Push up to clamp the fiber optic cable you want to test.

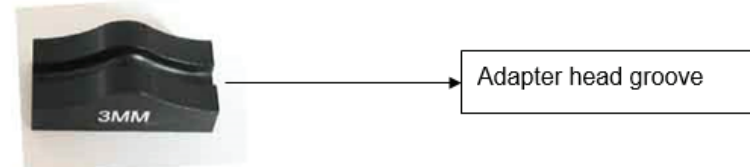
## 5. INSTRUCTIONS:

### 5.1 Selecting the Adapter

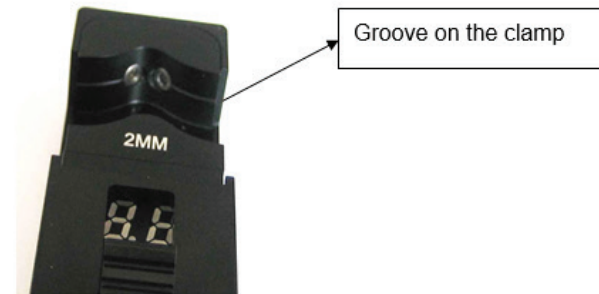
1. Select the appropriate adapter head based on the size of fiber cable being tested. There are 3 mm, 2 mm, and 900 nm options for jacketed fiber, and a 250 nm adapter for testing bare fiber.



2. When using the Ø2.0 or Ø3.0 adapters, insert the fiber into the adapter head groove as shown below:



3. When using the Ø0.9 and Ø0.25 adapters, insert the fiber into the groove on the clamp of the OFI-50 directly:



### 5.2 Testing the Fiber

1. After inserting the fiber and adapter head into the OFI-50, push the "Clamp Button" up until it clicks to clamp the fiber and test it. This will also turn the device "ON".



- When optical signal passes the fiber, the LED illuminator will indicate the traffic's direction with intermittently audible tone and the relative core power will be also displayed in digital format.
- If no optical signal passes the fiber, the LED illuminator is dead and the "LO" will be displayed in the relative core power position.



- When done, push on the Clamp Button to release the fiber being tested and turn OFF the device.



**5.3 Battery Power Indication**

If the LED is...

**Green:** Battery Power is full

**Yellow:** Battery Power is low, but device can function properly

**Red:** Battery Power is too low, and the battery needs to be replaced.

**6. MAINTENANCE:**

- Ensure the proper adapter is being used and the fiber is inserted into the appropriate groove when being tested.
- Clean the surface of the detectors regularly using the included cotton swabs to keep it from collecting dust.
- Remove the battery of this device if it will not be used for a long period of time.

**7. WARRANTY AND SERVICE:**

**Caution: Repair it in the field is prohibited.**

7.1 18 months warranty for Fiber Identifier.

OUR COMPANY warrants that each of fiber identifier will be free from defects in material and workmanship for 18 months. This warranty covers the original user only and is not transferable. Should the device fail at any time during this warranty period, OUR COMPANY will, at its sole discretion, replace, repair or refund the purchase price of the product.

This warranty is limited to defects in workmanship and materials and does not cover damage from accident, acts of God, neglect, contamination, misuse or abnormal conditions of operation or handling.

To establish original ownership and provide date of purchase, please complete and return the registration card to OUR COMPANY. This warranty card will not go into effect until the warranty registration has been received by OUR COMPANY.

A warranty registration card is included with the original shipment of equipment. Please take a few moments to fill out the card and mail or fax it to OUR COMPANY to ensure proper initiation of your warranty term.

To return a defective product for warranty coverage, contact OUR COMPANY for a written authorization. Failure to properly protect the product during shipping may avoid this warranty.

OUR COMPANY will pay return transportation for products repaired or replace in warranty period. Before making a repair not covered the warranty, OUR COMPANY will estimate cost and obtain authorization, then invoice for repair and return transportation. OUR COMPANY reserves the right to charge for all testing and shipping costs incurred, if test results determine that the device is without defect.