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**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)
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. KEY FEATURES:



4. 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 Setting up Your OFI-50

Before powering on your OFI-50, make sure to insert the included 9V battery.

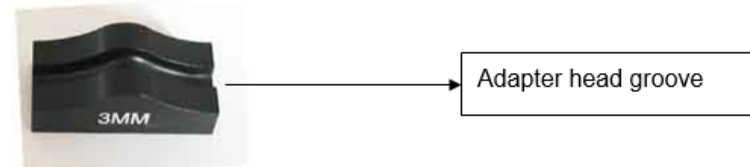
To do so, open the battery compartment by sliding off the cover and inserting the 9V battery in the correct position.

5.2 Selecting the Adapter

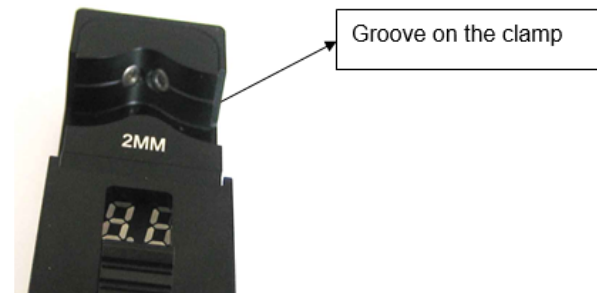
1. Select the appropriate adapter head based on the size of fiber cable being tested. There are 3 mm, 2 mm, and 900 nm options for jacketed fiber, and a 250 nm adapter for testing bare fiber.



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:



5.3 Testing the Fiber

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



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



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



5.4 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:

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

7. WARRANTY AND SERVICE:

Jonard Tools offers our unique **Made For Life®**, **Guaranteed For Life** warranty on almost every product we make! Please see the chart below for details.

Product Type	Warranty Period
All products <i>(less exceptions below)</i>	Lifetime
Electric/electronic/battery powered products & force gauges	1 Year
Fiber cleaners, wire, cable fishing, knives, cutting & replacement blades, replacement parts, and any item \$10 or less	Free From Defects

Jonard Tools products are warranted to be free from defects in materials and workmanship for the normal life of the product. Different products have different warranty periods, listed above in our warranty policy. Jonard Tools warranty only covers the repair, replacement, or refund of a Jonard Tools product, it does not cover and nor shall Jonard Tools be liable for any special, indirect, incidental, or consequential damages or loss. At Jonard Tools discretion we will repair, replace, or refund the purchase price of any product found to be defective. The warranty does not apply to products that have been deemed by Jonard Tools to have been abused, misused, or altered in any way whether intentional or by accident.