MADE FOR LIFE®

JONARD TOOLS®

MADE FOR LIFE®

OFI-100
OPTICAL FIBER IDENTIFIER
INSTRUCTION MANUAL

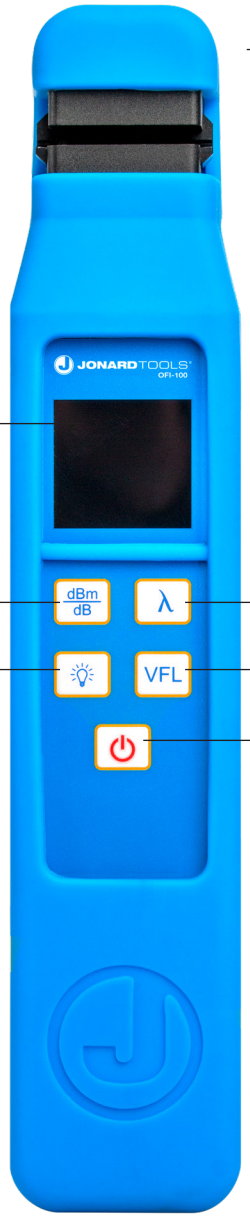
CONTENTS:

2. TECHNICAL SPECIFICATIONS:

OFI Module	
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
Optical fiber signal display detection range（dBm）	+13～-50
Signal direction detection range（dBm） Typical Value	+13～-35
OPM Module	
Test wavelength(nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power test range（dBm）	+26～-50
Unit	dBm、dB、xW
Resolution ratio（dB）	0.01
Uncertainty（dB）	≤0.5
Test interface	Φ2.5mm universal interface
VFL Module	
Wavelength （nm）	650±10
Output power (mW)	≤5
Test interface	Φ2.5mm universal interface
Alkaline Battery (V)	9
Operating Temperature (℃)	-10—+60
Storage Temperature (℃)	-30—+70

3. KEY FEATURES:

250um/900um &
2mm/3mm Adapter



Display Screen

Power Unit Key

Wavelength Key

Backlight Key

VFL Key

Power Key

OPM Port

VFL Port

: Turn on or off the meter
dBm/dB: Press to change units of power, hold to zero out power meter
: Backlight brightness adjustment
λ : Power meter wavelength switching
VFL: Short press 650nm VFL for turn on CW continuous, flashing, and off in sequence

4. INSTRUCTIONS:

5.1 Setting Up Your OFI-100

Before powering on your OFI-100, make sure to insert the included AA batteries.

To do so, first open the battery compartment by peeling the bottom of the protective sleeve off.

Next, unscrew the lowest screw using the included flathead screwdriver, and remove the battery cover.

Finally, insert the batteries in the correct polarity positions, and replace the battery cover and protective sleeve.

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 950 nm options for jacketed fiber, and a 250 nm adapter for testing bare fiber.

2. To access the adapter, pull back the top part of the OFI-100's rubber sleeve to reveal the plastic cover underneath

3. Next, slide the plastic cover upwards to reveal the adapter inside

4. You can zero out the power meter by holding the dB/dBm key. You can also change the display results from dBm to dB by pressing the dB/dBm key.

4. Then, remove the adapter and reinstall it as needed.

   a. Note that the text on the adapter indicates which sizes of fiber can be used.

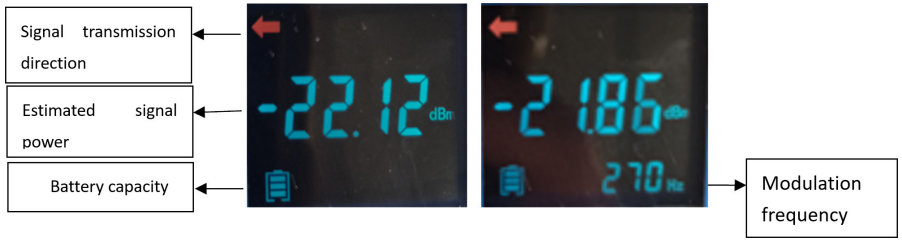
   b. One side handles 250 & 900 um fiber, while the other side handles 2 & 3 mm fiber.

5. When ready to test the fiber, place the fiber into the adapter and pull the trigger on the back of the unit to clamp down onto the fiber.

6. The OFI-100 will automatically display the signal transmission direction, estimated signal power, and modulation frequency

   a. Note that if there is a frequency in the test link, there will be a corresponding frequency display and beeping prompt at the bottom of the screen.

of force, at this time the instrument screen interface displays the test data. If there is a modulation frequency in the test link, there will be a corresponding frequency display and beeping



5.3 How to Use the Optical Power Meter (OPM) Module

1. Press the meter "⏻"power button to power on. At this time, the meter will display the test interface of the power meter module.

2. Slide down the stopper at the on the right side of the meter to reveal the VFL and OPM ports.

3. Insert the fiber you want to test into the OPM port, with the other end connected to a light source.

4. You can also change the display results from dBm to dB using the dB/dBm key.

5.4 How to Use the Visual Fault Locator (VFL) Module

1. Press the meter "⏻"power button to power on. At this time, the meter will display the test interface of the power meter module.

2. Slide down the stopper at the on the right side of the meter to reveal the VFL and OPM ports.

3. Insert the fiber you want to evaluate into the VFL port

4. Press the VFL key to initiate the VFL.
   a. Note that a red → symbol will appear in the top-right corner of the screen, indicating the VFL's laser is on.

5. Press the VFL key again to change the frequency from CW to 1 Hz.
   a. Note that the red ⊠ symbol will start flashing

6. To turn off the VFL module, simply press the VFL key once more.

6. MAINTENANCE:

1. The OFI-100 may not work while under heavy vibrations

2. Use a dust-free paper or cleaning cloth and isopropyl alcohol, or fiber cleaning fluid, to clean the end surface.

3. When the equipment is not in use, please store it in the pouch to protect it from dust.

4. Insert and remove any optical connectors carefully to prevent damage.

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 *(less exceptions below)*	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 warrantied 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.