NETiVE TOOLS

USER MANUAL

NOFI-106

Optical fiber identifier



Safety

Read this manual before you use the device for the first time. Keep it with the device.



WARNING The device has a 650 nm red laser source (VFL). Never look directly into the beam or the output port, or into the end of a fiber or connector while the red light is on. It can damage your eyes.

CAUTION Put nothing but optical fiber into the clamping slot. Anything else can damage the mechanism.

- Do not open the device. If the "Troubleshooting" table does not solve a problem, contact us.
- Charge with the USB cable supplied and a 5 V USB charger.
- Keep the device dry and out of the reach of children.

What it does

The NOFI-106 shows whether a fiber carries a signal and which way the light travels, **without cutting or disconnecting the fiber**. It bends the fiber slightly (micro-bending) and measures the light that escapes.

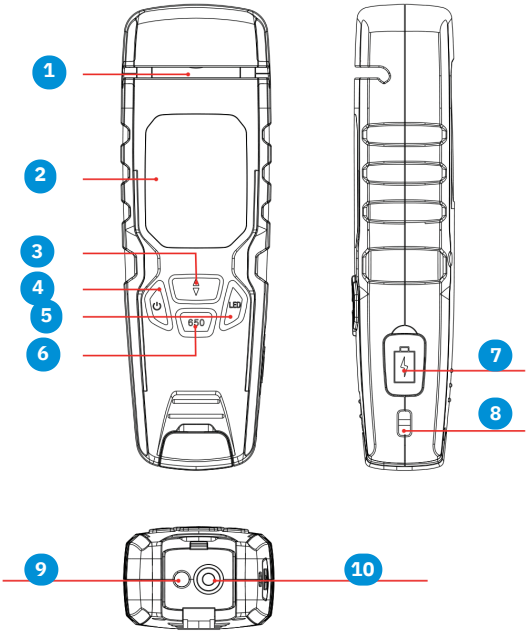
- Shows the direction of the signal (left or right).
- Identifies signals modulated at 270 Hz, 1 kHz and 2 kHz.
- Measures Φ0.25 mm bare fiber and Φ0.9, Φ2.0 and Φ3.0 mm fiber **without changing the clamp head**. The clamp is motor-driven.
- Works on single-mode and multimode fiber, from 850 to 1700 nm.
- Has a 650 nm red light source (VFL) and an LED torch.

What is in the box

- NOFI-106 fiber identifier
- Carrying case
- Lanyard
- USB charging cable
- User manual, test certificate and warranty card

If anything is missing, contact us before you use the device.

The device at a glance



#	Part
1	Fiber clamping slot · For all fiber diameters
2	1.77″ colour display
3	Check-fiber button (⬍) · Starts and stops a measurement
4	Power button (⏻)
5	Torch button (LED)
6	Red light button (650)
7	USB charging port
8	Lanyard hole
9	LED torch
10	650 nm red light output (VFL)

The display



	Indicator	What it shows
A	Fiber direction	Arrows showing which way the light travels
B	Signal power	In dBm
C	Frequency	CW (continuous), 270 Hz, 1 kHz or 2 kHz
D	Auto power-off	On or off
E	650 nm red light	On, flashing or off
F	LED torch	On or off
G	Battery	Charge level

Buttons

Button	Press	What it does
⏻	Hold 2 s	Turns the device on or off.
⏻	Short	Turns auto power-off on or off. The device always starts with a 10-minute auto power-off.
▲▼	Short	Starts the direction check. Press again to stop it.
LED	Short	Turns the torch on or off.
650	Short	Red light on · again: flashing · again: off.

Step-by-step measurement

1. Hold ⏻ for 2 seconds. The device turns on.
2. Put the fiber into the clamping slot (1).
3. Briefly press the check-fiber button (⏶⏷). The device clamps the fiber and measures.
4. Read the display:

Display	Meaning
◀ ◀ ◀	Light travels from right to left.
▶ ▶ ▶	Light travels from left to right.
✕ ✕ ✕	No light direction found.

Next to it you see the signal power in dBm (B) and the frequency (C).

5. Press ⏶⏷ again to stop the measurement. Remove the fiber.

> **NOTE** To find one fiber among many, send a 270 Hz, 1 kHz or 2 kHz signal into the far end from a light source. The device shows the frequency on the fiber that carries it.

Red light (VFL) and torch

- **650:** each short press turns the red light on, flashing, off. Icon E on the display shows the state.
- **LED:** short press to turn the torch on or off. Useful in dark manholes and cabinets.

> **WARNING** Do not look into the red light output (10).

Charging

The device has an 800 mAh rechargeable lithium battery. Connect the USB cable to the charging port (7) and to a 5 V USB charger. Charging takes up to 3 hours.

Troubleshooting

Problem	Possible cause	What to do
Does not turn on	Flat battery or other cause	Check that the charging cable is connected properly and that the battery is charged.
Wrong identification	Fiber that cannot be measured, or placed wrongly	Measure only the fiber diameters the device accepts. Remove the fiber and place it again correctly.
No identification	Attenuation too high	Clamp the fiber again.

Care and storage

- Do not let the clamping slot and the red light output touch hard objects. Keep them clean.
- Clean the output regularly with a fiber cleaning swab, using gentle circular movements.
- Store the device in a dry, ventilated place.
- If you will not use it for a long time, turn it off before storing it.

Specifications

Wavelengths identified	850–1700 nm
Detector	InGaAs
Direction indication	Left / right, at the top of the display
Signal check range (CW, 0.9 mm fiber)	−40 to +10 dBm (1550 nm) · −30 to +10 dBm (1310 nm)
Modulation frequencies	CW, 270 Hz, 1 kHz, 2 kHz
Frequency check range (average)	−35 to +10 dBm
Insertion loss (typical)	0.8 dB (1310 nm) · 2.5 dB (1550 nm)
Fiber diameters	Φ0.25 mm (bare fiber) · Φ0.9 / Φ2.0 / Φ3.0 mm
Clamp	Driven by a DC motor
Display	1.77″ colour
Battery	Rechargeable lithium, 800 mAh
Charging	5 V · up to 1.6 A · up to 3 hours
Standby current	up to 18 µA
Number of measurements	at least 1000
Auto power-off	10 minutes
Operating temperature	−10 to +60 °C
Storage temperature	−25 to +70 °C
Dimensions	160 × 50 × 35 mm
Weight	200 g

Specifications are the manufacturer's and given for reference.

Warranty and service

2-year warranty · Service at our Lab in Thessaloniki

The warranty is valid for 2 years from the date of the purchase invoice. It covers faults caused by defects in materials or workmanship.

- We repair the device free of charge at our Lab in Thessaloniki.
- If the device cannot be repaired within the 2 years, we replace it free of charge.

The warranty does **not** cover damage caused by accidents, drops, liquids or use other than described in this manual, or a device that has been opened or repaired by others.

How to request a repair

1. Contact us before you send the device: netivetools.com/en/ypostirixi · info@netivetools.com · +30 2312 313333.
2. Tell us the model, the serial number (S/N), the invoice number and the problem you see.
3. We tell you how to send the device to our Lab.

Do not open the device yourself. Opening it voids the warranty.

> **NOTE** Register your device at netivetools.com/en/eggyisi. This helps us find its history faster.

Disposal and recycling



Do not throw the device or its battery away with household waste. Take them separately to a collection point for electrical and electronic equipment and batteries, or return them to us. Separate collection protects the environment and helps recycling.

NETIVE TOOLS

Built by technicians

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Scan for the product page, the latest version of this manual and support.
shop.netivetools.com/en/proion/nofi-106

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