



OFI-50

Series Optical Fiber Identifier

User Manual



Shineway Technologies, Inc.

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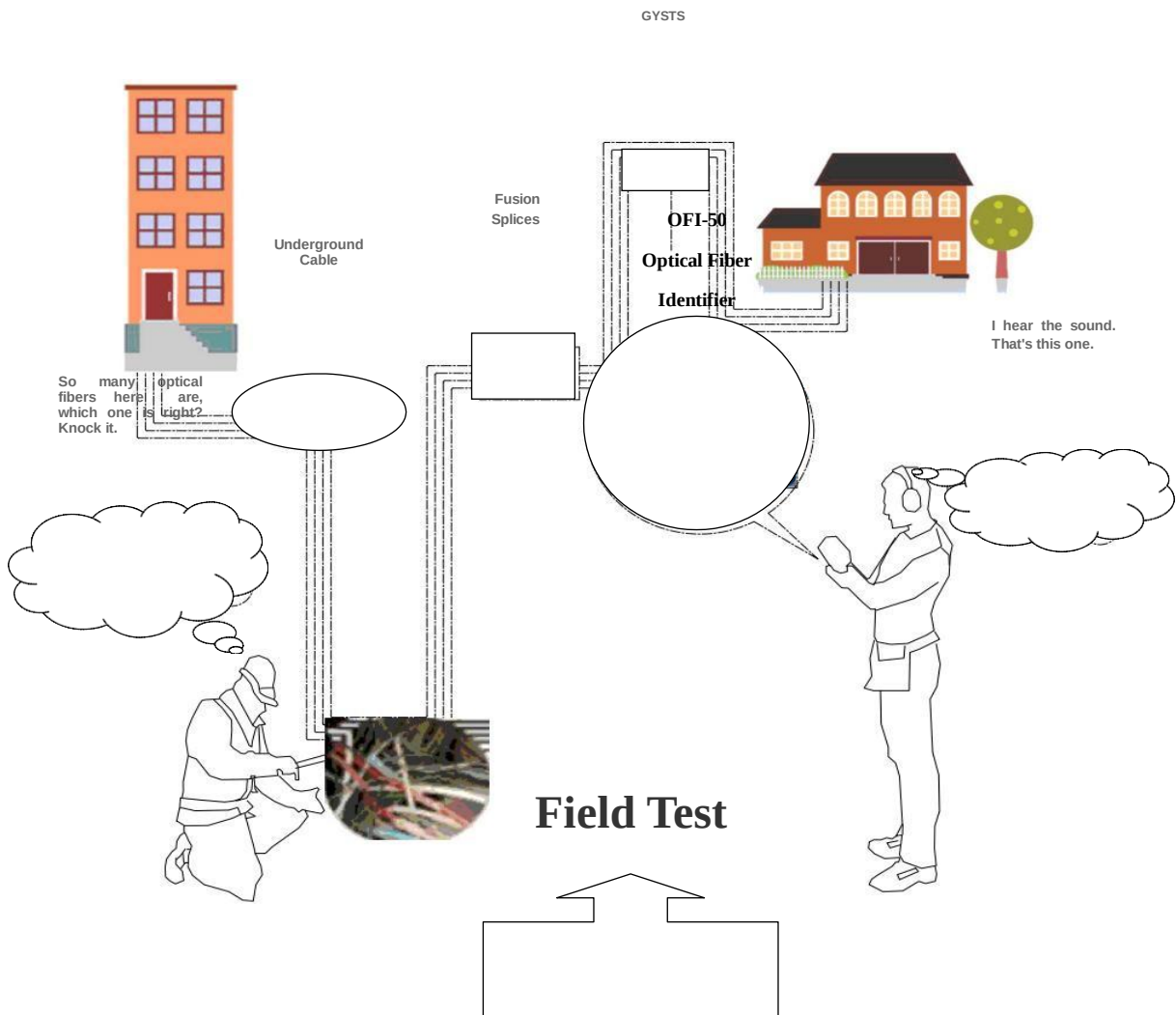
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1. Description of Products

OFI-50 uses optical fiber sensing principle to confirm the target fiber. It can quickly identify deep buried, overhead and pipe fiber cable without any destroy, and provide a simple method for maintenance personnel. Users only need gently knock on cable, when knocking to the target cable, OFI-50 can clearly hear the knock from earphone, which can accurately identify the target cable.

OFI-50 is real one-key type test; handheld design, easy to carry, 3.5' color screen real-time waveform; the software of the intelligent struck the judgment of the two operation / display mode, combined with the Headset real-time audio, with 3 kinds of recognition percussion method, so as to quickly and accurately identify the measured cable.

OFI-50 is a kind of ideal tool for optical fiber communication network maintenance.



Features:

- Easy to use, reliable, non destructive optical cable
- Fast identification of deep buried, overhead and pipe fiber cable
- Built-in intelligent mode, knock in the measured cable showed positive and negative Pyramid strength; output the notification sound
- Rapid and accurate identification
- Click the targeted or wanted cable, OFI-50 can response with sound and light reaction
- According to the Headset feedback information, the operator can intuitive judgment percussion cable
- According to the waveform real-time cable, knock in the measured cable real-time waveform will have obvious wave, visual disturbance
- VFL function is available

**Application:**

- Telecommunications engineering and maintenance
- Generic cabling system
- Other network construction and maintenance
- Scientific research, laboratory, teaching equipment, etc.

2. Specifications

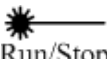
Wavelength	1550nm
Display	3.5"industrial screen
Maximum Distance	50Km
Short Troubleshooting	650 red light
Output power:	-2dB, -1dB, -0.5dB, 0dB adjustable
SNR	25dB
Interface type	SC/APC (PC, ST interchangeable)
Detection methods	single fiber testing, no loopback
Test results	1, 2, 3 real time audio waveform display, intelligent mode
Supply mode	7.4V 3500mAh battery (replaceable) 12V 2A DC power adapter
standby time	>24h (optional 10 minutes automatic shutdown)
continuous working time	>20h
Volume	220*110*70mm
The light weight	0.8 kg (including battery)

3. Standard Configuration

No.	Description	Quantity
1	Optical Fiber Identifier	1
2	Earphone	1
3	SC/APC-FC/APC patch cord	1
4	AC adapter	1
5	Operation Instruction	1
6	Cotton swabs	1
7	Portable Soft Bag	1

4. Function description

- ① “CHARGE”indicator light: the light on indicates charging.
- ② “POWER”indicator light: the light indicates that the identifier is on.
- ③ Power port : External power adapter for DC-12V-2A
- ④ Earphone interface: external earphone, output knock signal sound from earphone.
- ⑤ CFID port: Externally connect the optical cable under test, and the interface connected to the identifier must be APC. The terminal of the external optical cable must be PC .If the APC or the end is entwined, the signal may not be detected.
- ⑥ VLS interface: Red light output interface, built-in PC terminal face
- ⑦ Display area: Display the state of hitting or interfering with the fiber optic cable strength.

Keypad	Functional description
	Long press: turn on and off the meter power. Short press: when the meter is turned on, switch auto power-off function. When the auto power-off function is turned on, the word "Auto off" will be displayed on the upper right side of the LCD, and the meter will be automatically turned off 10 minutes later
▲	Gain adjustment, increase 1 series, gain range: 1x~16x
 Run/Stop	Run/Stop test:corresponding to the upper left LCD display
VFL	Red light switch. When the red light source is turned on, VLS has red light output, VFL words on the LCE become red.
▼	Gain adjustment, reduce 1 series, gain range: 1x~16x
ENTER	Mode switch, used to switch waveform display and intelligent mode, corresponding to "Wave" and "Auto" word above LCD.

5. Instruction

1. Connect the cable under test to the meter.
2. Talk to the assistant who is assisting at the remote end. The assistant should regularly tap the cable. When there are many cables affecting the test, it is best to number the cables and click in order. And pull the currently tapped cable away from other cables to minimize crosstalk. If necessary, you can use sponge towel to isolate the current knocking cable and other cables.
3. Communicate with assistant to confirm the cable under test.

Recommend gain level and determination method:

2km: 1x

5km: 3x

10km: 5x

20km: 6x

40km: 7x

50km: 8x

80km: 16x

Firstly, according to the recommended level, the assistant clicks on the cable one by one to determine whether the gear is appropriate. Listen to the sound of the headset and observe the screen waveform or the strength of the intelligent mode to determine whether the level is appropriate. If the crosstalk is too large, reduce the level and continue to test. If the sensitivity is not good, add level to continue the test. Through this method to find the appropriate level, accurately find the fiber under test.

Try to place the meter on a smooth floor or table when testing. Do not touch the meter. The patch cord connected with the meter shall not be suspended or shaken as far as possible.

6. Cautions

- Avoid looking directly at the light source port when working. Laser may cause damage to eyes.
- If not used for long time, the user can protect the light output port with dust cap to avoid the output port being polluted in the air, otherwise it will affect the test effect. Before and after the test, clean the optical fiber with tools, which is conducive to the maintenance of the connector.
- In the detection of optical cables, please be sure to separate multiple cables from each other, optical cable untied at least 1 meter above. If the cables contact too tight, it will lead to vibration from one cable to another, causing the wrong identification.
- The connection point of PC should be used as little as possible between the endpoint of the meter and the tapping point to reduce the echo reflection before the tapping point.
- When used for a period of time, the optical output port may have dirt adhesion, resulting in a decrease in the output power. At this time, the user can use the cotton swab

stained with a little alcohol to remove dirt, then use the dry cotton swab to remove traces. If you still can't clean it, please contact us directly.

- Charging time should not exceed 12 hours.

7. Faults and handling methods

No.	Fault	Handling methods
1	Turn on the meter and LCD display is not bright	Charging
2	Large interference, fiber output dirty	Gently scrub with an alcohol swab
3	No knock sound detected. The cable end is APC	Connect FC/APC patch cord at the end of the cable

8. Contacting Customer Service

Please check our web site (**www.shinewaytech.com**) for updates to this manual and additional application information. If you need technical or sales support, please contact local **Shineway Technologies** Customer Service.

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SHINEWAY TECHNOLOGIES!**