

Optical talk set

ENGLISH

WARNING

You are cautioned that changes or modifications not expressly approved in this document could void your authority to operate this equipment.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.



NOTE

As the laser is harmful to the eyes, do not attempt to disassemble the cabinet.



Precautions for Use

Use batteries

At the same time, can not use different style or different capacitance batteries. And only charge the rechargeable batteries.

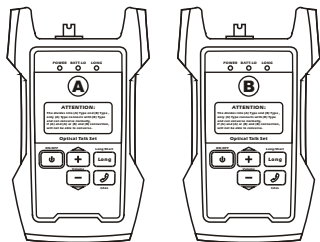
Avoiding condensation problems

As much as possible, avoid sudden temperature changes. Do not attempt to use the drive immediately after moving it from a cold to a warm location, to raising the room temperature suddenly, as condensation may form with in the drive. If the temperature changes suddenly while using the drive, stop using it and take out batteries for at least an hour.

Storage

When long time no use, must take out the batteries to avoid destroying the device.

Check the accessories Standard Edition



Host A

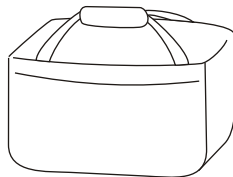
Host B



Headsetx2

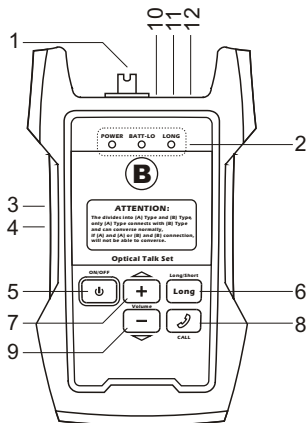


User's Guide



Carrying Bag

Description



1 Fiber optic adapter (FC/PC)

2 State Indicator

3 Charging Indicator

4 USB Charging Interface

5 Power Key

6 Communication Distance Select Button

7 Volume Increase Button

8 Calling Button

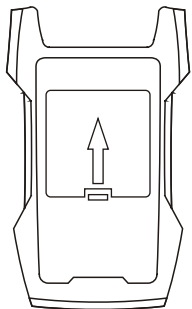
9 Volume Decrease Button

10 2.5mm Earphone Socket

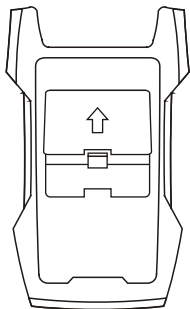
11 3.5mm Earphone Socket

12 3.5mm Microphone Socket

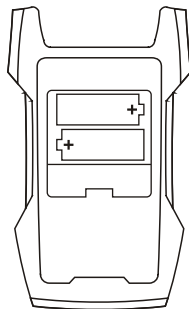
Installing the battery



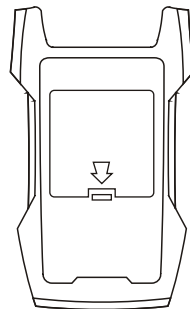
1. Pull the battery cover lock



2. Raise the battery cover



3. Install the batteries correctly



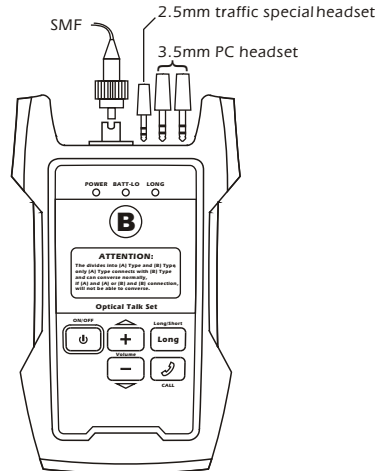
4. Push the battery cover and lock

Connecting fiber and earphone


The optical fibertelephone achieves Full-duplex communication in single fiber by using WDM Technology. WDM(wavelength division multiplex) is a technology of transmitting with different wavelength in single fiber.

The optical fiber telephone is divides into Telephone A and B. Telephone A and B have completely the same operation except Telephone A modulates the signal on 1310nm wavelength, while Telephone B is on 1550nm wavelength. Besides, Telephone A and B must use in couple.

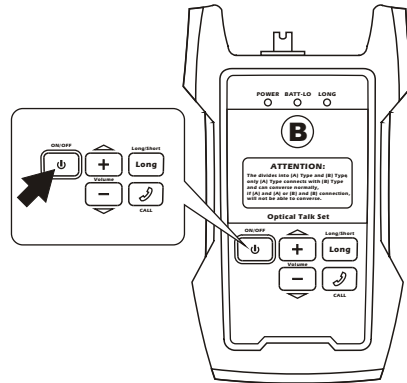
This telephone can use 2.5mm traffic special headset and common PC headset. But they cannot use in the same time.



On/Off

Press “  ” Button, the device will start working. And the power indication light is on. Press this button again, the telephone will shut down.

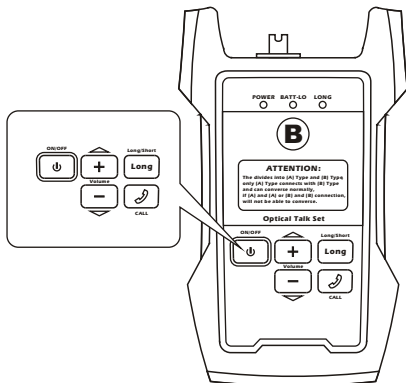
Do not wear headsets before booting to avoid ear damage caused by loud volume. The correct way is turning down the volume after booting, then wearing it. After wearing the headset, adjust the volume to clarity and without distortion.




Communication Distance

According to the communication and line loss between two telephones, you must choose the appropriate communication distance.

The optical fiber telephone has two modes, remote communication and near field communication. When




the line loss is more than 20dB, you must use remote mode. The maximum communication range of remote mode is 120km. When one side is using optical fiber holder, you must use remote mode too. The maximum communication range is 60km. When the line loss is less than 20dB, you must turn off remote mode, or will cause howling and lead to no communication. The maximum NFC distance is 60km.

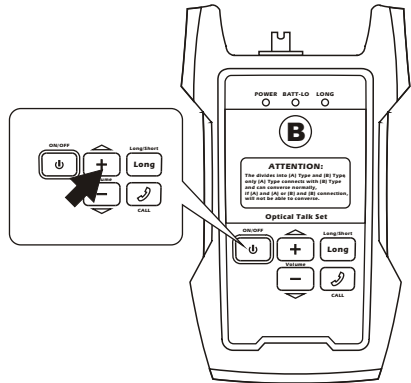
Pressing “  ” Button, you can switch between

remote communication mode and near field communication mode.

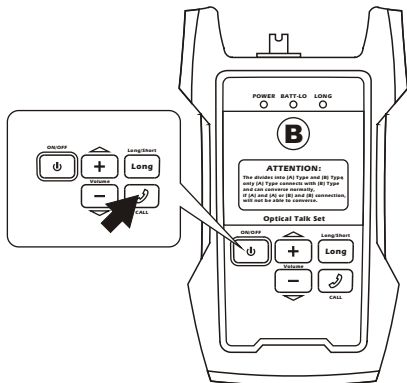
Adjusting volume





“” Button is used for adjusting the volume. “+” Button is for increasing the volume and “-” Button is for decreasing. It will save the volume automatically after setting. It will keep the last setting information when next booting.

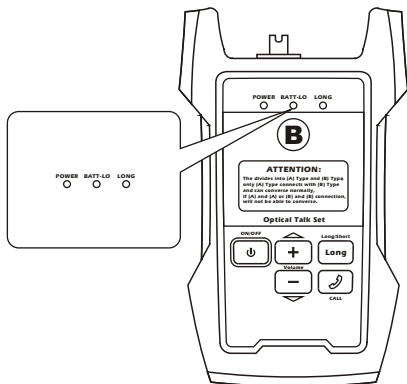


Calling



Through “” Button, you can call the other person when he is online. During calling, press “” Button for one second or more, the other person's device will make sound to remind him.

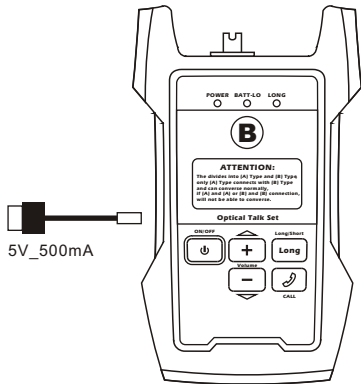
Low Power Indication



When the remaining battery power is less than 20%, the low power indicator light will turn on. If you use alkaline batteries, you need change them with new ones. If you use rechargeable batteries, you need charge them at once.

Charging

The device has a charging function. When using rechargeable batteries and turning up a low battery indication, you should promptly shut down and recharge it. Longtime undervoltage will shorten the lifetime of the rechargeable batteries.



Connect the AC adapter to the device correctly, it can charge Automatically. Besides, computer USB port can also be used for charging. The battery remaining indicator keeps flashing during charging. It will stop when the charging is finished. The battery has finished the fast recharge and can be used directly. If you do not stop charging at this time, the device will continue the trickle charge state, using small current to supply natural discharge. But this process is not more than 48 hours. The device can still be used while charging. But do not plug in the AC adapter when it is not rechargeable batteries inside, or it will cause a high temperature and combustion, even explosion.

Meter Maintenance

General maintenance

Optical fiber connect the adapter should avoid contacting with hard objects and keep clean.

Should be stored in a dry and ventilated place to avoid moisture.

When un use for long time, should remove the batteries before storage.

Fault and solution

Failure name	Failure Cause	Solution
Cannot boot	Check the battery has power or not	Check the batteries are installed correctly
Immediately shutdown after booting	Check the battery has power or not	Replace or recharge the batteries
Can display, but all operations are valid	The instrument program is disordered	Reboot
Cannot charge	Using non-rechargeable battery.	Reinstall the rechargeable batteries

Detail Parameters

Output λ (nm)	1310nm \pm 20nm(Devic A)/1550nm \pm 20nm(Devic B)
Dynamic range	45dB
Tuansmission distance	Short model>60Km,long model>120Km
Modulation	Analog
Optic adapter	FC/PC
Laser Type	FP
Output power	< +1dBm
Battery Type	Size AA rechargeable battery or Lr6
Battery lifetime	>25H
Waterproof	Can prevent small splash
Operate temp.	-10 $^{\circ}$ C ~ +50 $^{\circ}$ C
Storage temp.	-20 $^{\circ}$ C ~ +60 $^{\circ}$ C
Relative humidity	<90% No dew
Size	168mm*95mm*38mm
Weight	330g

