Fiber Cable Detector

USER'S GUIDE

You are cautioned that changes or modifications not espressly approved in this document
could void yout 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

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.

Use Power

This device should use special lithium batteries. To avoid explosion, no use of the non-original batteries. No altering, dismantling or maintaining operations unless professionals. Please use DC power adapter which is 9.5V~10.5V, electric current over 2A to charge the device. There is blameless charge controlling circuit inside.
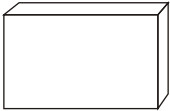
Storage

When long time no use, must take out the batteries to avoid destroying the device.
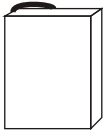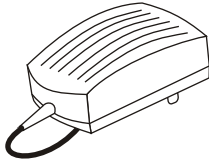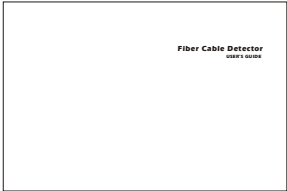
Check the accessories
Standard Edition
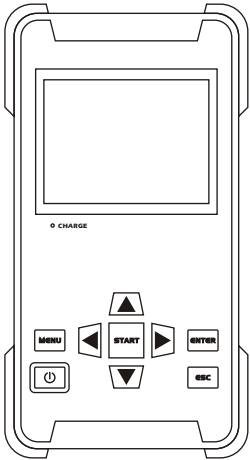
Power Adapter

Optical Reflector(the PC interface)

Lithium Batteries

Power Adapter

Host

Fiber Cable Detector
USER'S GUIDE

Instructions
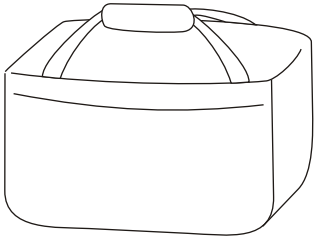
Packet

Description
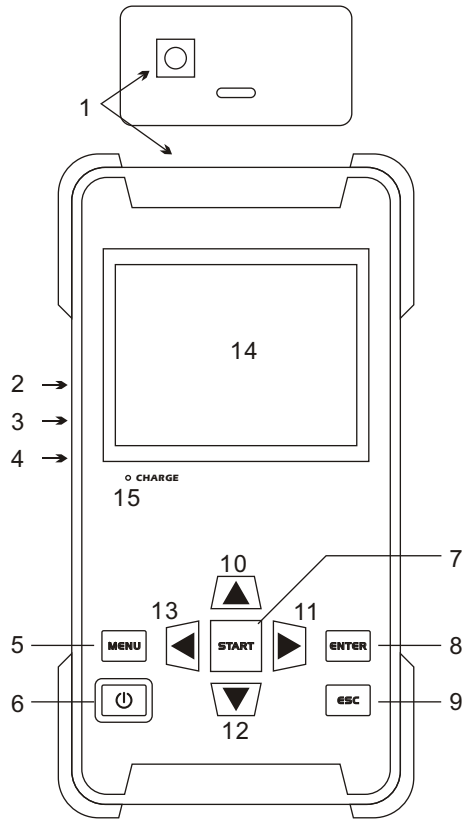
1	FC/APC
2	USB port
3	TF(MicroSD) card slot
4	Power adapter socket
5	Menu button
6	Power button
7	Start/Shutdown measuring button
8	Confirming button
9	Cancelling button
10	Shifting up button
11	Shifting right button
12	Shifting down button
13	Shift left button
14	3.5 inch LCD
15	Charging indicator

On/Off and Rebooting

1. The Power Button is used to turning on/off and rebooting the device.

2. Long press the power button 2 second or more when the device is off, it will turn on.

3. Short press the power button will turn off the device.

Power button
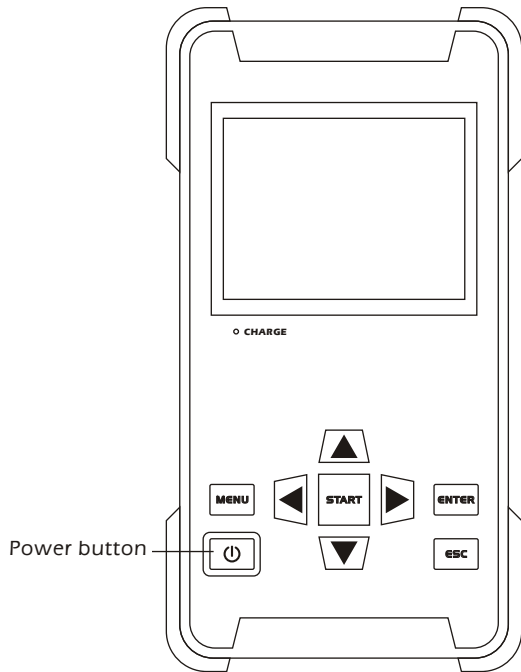
Stand-bying and measuring

```
2014.01.01 12:05                          [▭]




VOL: ▲ ████████████▭     ▼     TEST: ON
```
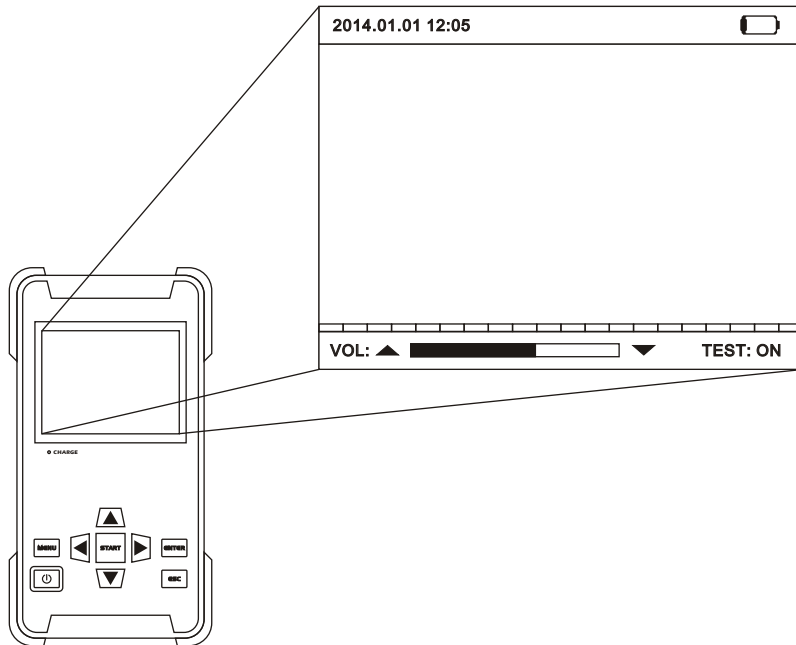
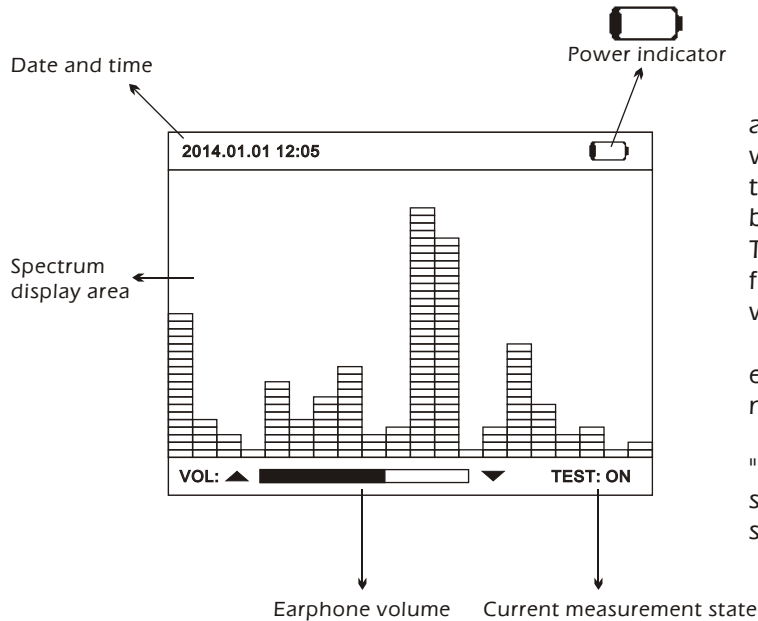1. After turning on the device, it will stay at standby screen, as shown in left picture.

2. When press the measuring button, the device will start measure automatically. The screen will display shaking spectrum and the earphones will have some notifying voice at the same time.

Main measuring interface

Power indicator

Date and time

2014.01.01 12:05

Spectrum
display area

VOL: ▲ ▼ TEST: ON
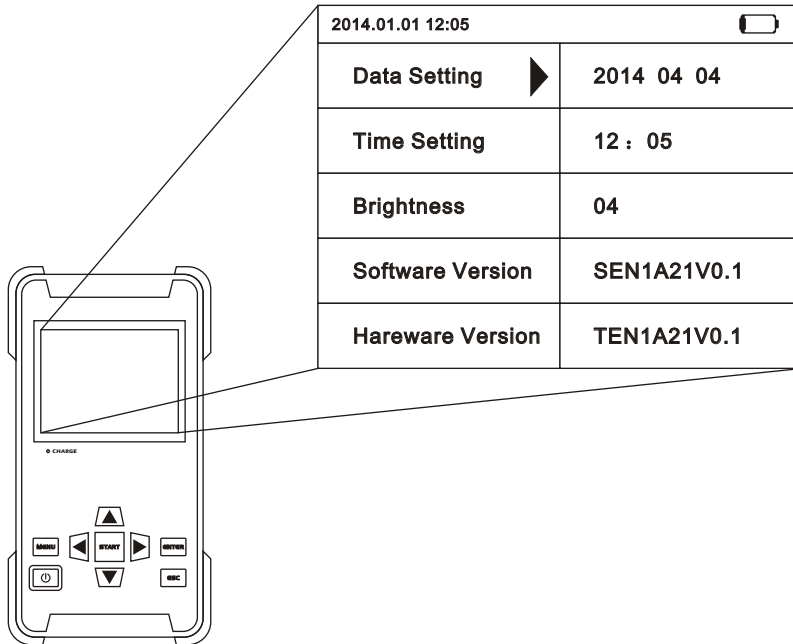
Earphone volume   Current measurement state

There are 20 Channels in spectrum display area. The horizontal axis represents frequencies which are gradually increasing from left screen to right. The spectrum range is the frequency of beating cable. The vertical axis represents extent. The spectrum area shows the extent of each frequency component in real time. It can judge whether beating the cable or not.

Pressing up or down button can adjust earphones volume. The earphones volume has no relation with spectrum extent.

Press measuring button, it will show "TEST: ON" at the right bottom which means starting testing. Press this button again, it will show "TEST: OFF" which means stopping testing.

2014.01.01 12:05	🔋
Data Setting ▶	2014 04 04
Time Setting	12：05
Brightness	04
Software Version	SEN1A21V0.1
Hareware Version	TEN1A21V0.1

Press Menu button, it will enter into the menu setting screen, as shown in left picture. Press up or down button can control the black arrow to select the setting item.

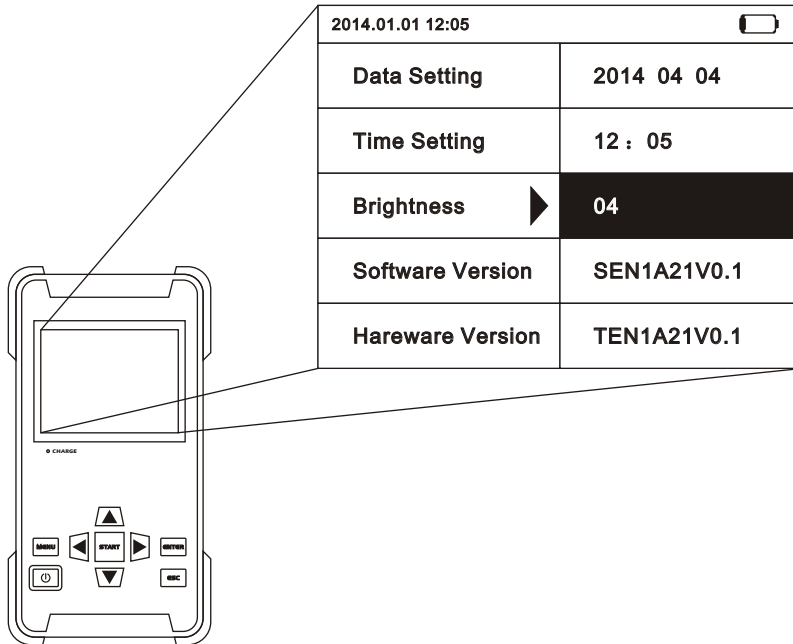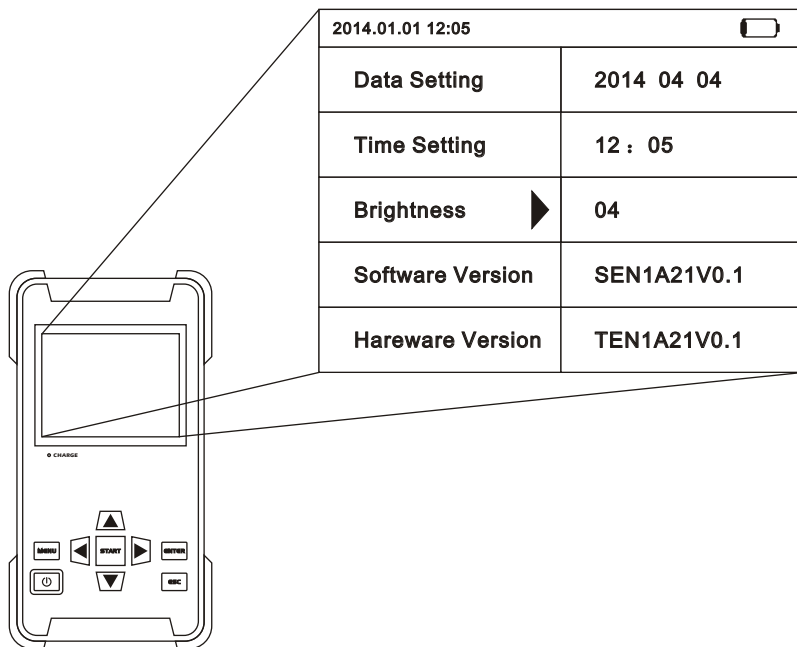| 2014.01.01 12:05	🔋
Data Setting ▶	2014 04 04
Time Setting	12：05
Brightness	04
Software Version	SEN1A21V0.1
Hareware Version	TEN1A21V0.1
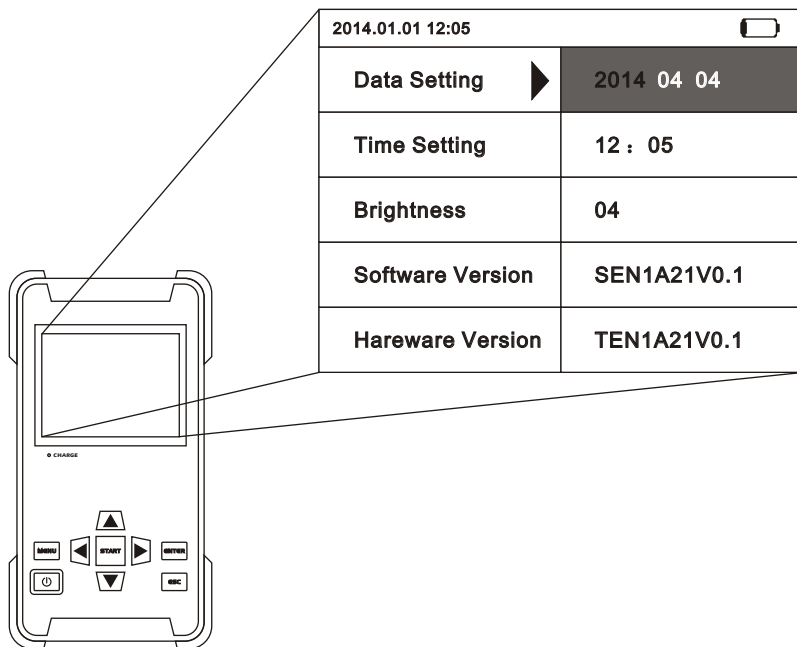
Press the confirming button when the black arrow is stopping at date setting item, it will enter into setting the date. Press left or right button to select the year, month and day. Press up or down button can modify the current value. Press the confirming button again after finishing setting, it will quit the setting mode. Use the same way can set the time.

| 2014.01.01 12:05	🔋
Data Setting	2014 04 04
Time Setting	12：05
Brightness ▶	04
Software Version	SEN1A21V0.1
Hareware Version	TEN1A21V0.1

Press the confirming button when the black arrow is stopping at brightness setting item, it will enter into setting the brightness. This device has four levels of brightness, 01 is the darkest and 04 is the brightest.

Software and hardware version

2014.01.01 12:05	🔋
Data Setting	2014 04 04
Time Setting	12：05
Brightness ▶	04
Software Version	SEN1A21V0.1
Hareware Version	TEN1A21V0.1

The serial number of software and hardware version has been set when the device is finished manufacturing. User cannot modify. The version number represents the device's manufacturing information.

Charging
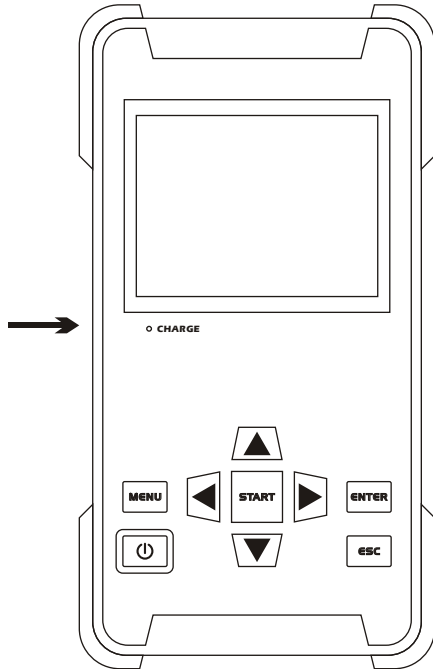
This device uses lithium batteries. When a lower battery indication shows up, you should charge the battery packet. It only needs you to plug the adapter into the corresponding port. Charge it less than 12 hours. Under full power state, the device will protect itself automatically to avoid battery overshoot. When long time no use, you should charge the batteries fully and take out, which can avoid the batteries wear out.

Dynamic range	10dB/18dB(Using Optical Reflector)
Optical fiber type	SM
Wavelength	1550nm
Optical interface	FC/APC
Monitor	3.5 inch TFT
Testing range	40/90Km
Laser power	0~3dBm
Earphone port	3.5mm
Earphone impedance	8~32Ω
Optical reflector	Reflecting loss<2dB, FC/PC interface
Communication interface	USB(Use in upgrading software)
Storage card	TF(Use in calibrating at factory)
Power	Special lithium batteries
Battery lifetime	Standby>15Hour,Testing>8Hour
Work temperature	0℃~50℃
Storage temperature	-20℃~70℃
Relative humidity	<90%
Weight	197mmx107mmx67mm
Dimension	0.75Kg