Optical Time Domain Reflectometer
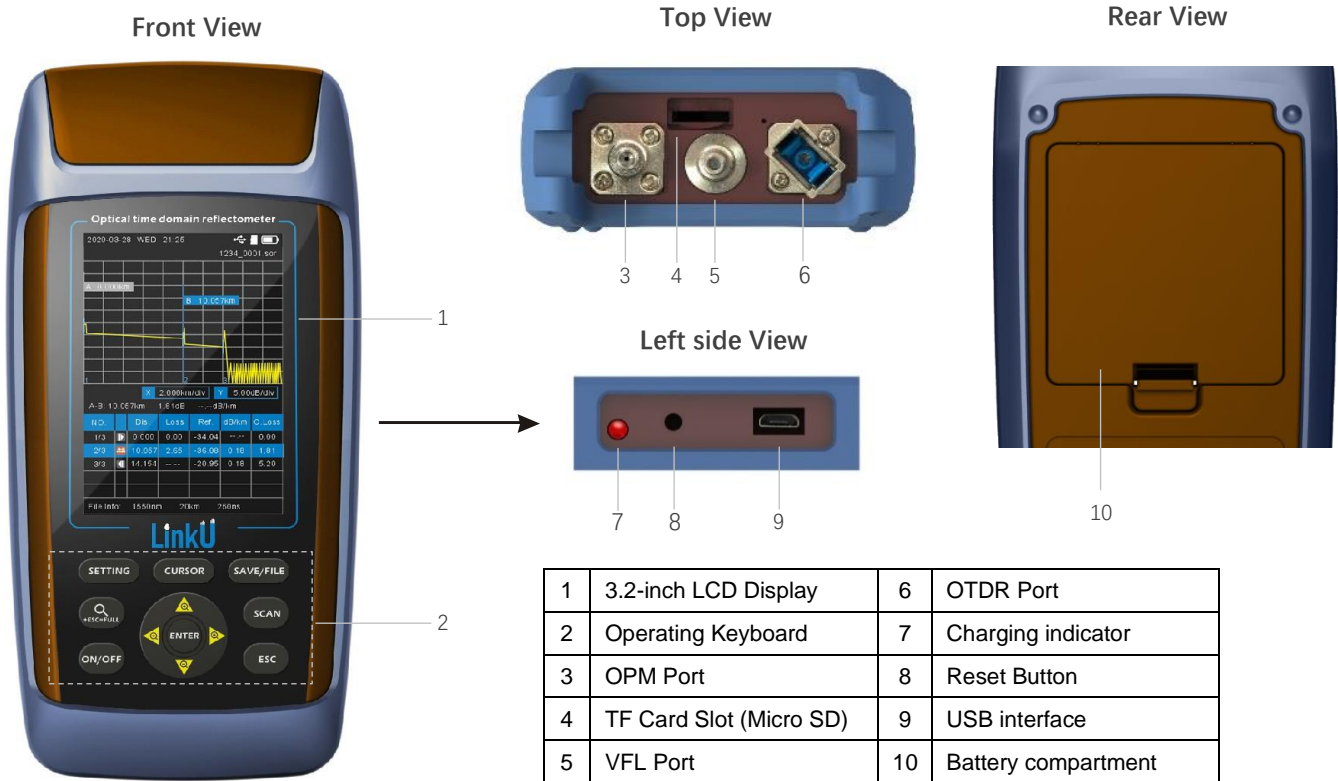
Model # LOT2100

WARNING

- Do not look at the laser 's direct ray, reflected ray from a mirror, or indirect ray without the proper protective eyewear. In addition, avoid being exposed to the laser light. It can cause blindness or damage to the eye.
- Do not use the thermocouple in a location where any flammable or explosive gas/vapor is present. Operation in such an environment constitutes a safety hazard.
- Use the Correct Power Supply and AC Adapter.
- Use only the battery pack specified for the instrument.
  When not in use for a long time, please take out the battery from the instrument to avoid the damage caused by battery leakage.
- Do not use the device in one hour after moving the device from the cold area to the hot area, to avoid condensation phenomenon.
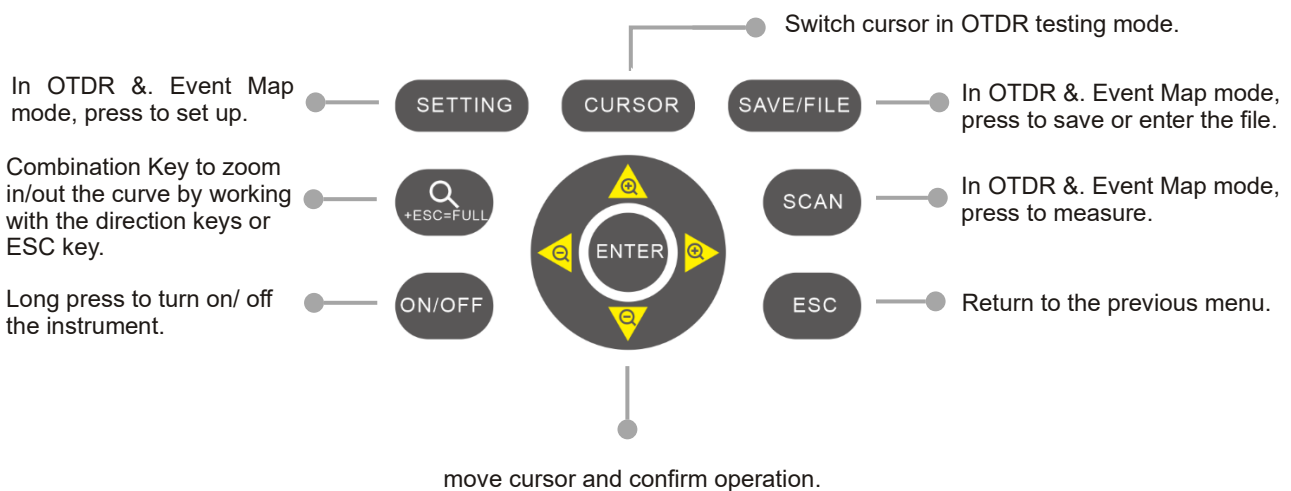
※ The contents of this manual are subject to change without prior notice as a result of continuing improvements to the instrument's performance and functions.
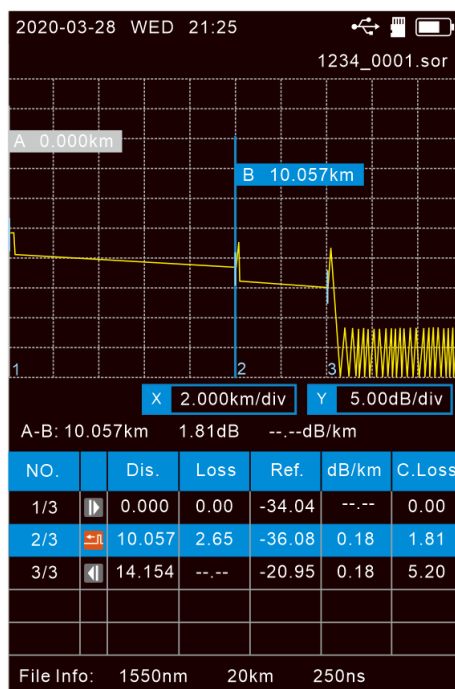
Overall Layout

Front View

Top View

Rear View

1

3   4   5   6

Left side View

7   8   9

10

1	3.2-inch LCD Display	6	OTDR Port
2	Operating Keyboard	7	Charging indicator
3	OPM Port	8	Reset Button
4	TF Card Slot (Micro SD)	9	USB interface
5	VFL Port	10	Battery compartment

Key-board

Switch cursor in OTDR testing mode.

In OTDR &. Event Map mode, press to set up.

In OTDR &. Event Map mode, press to save or enter the file.

Combination Key to zoom in/out the curve by working with the direction keys or ESC key.

In OTDR &. Event Map mode, press to measure.

Long press to turn on/ off the instrument.

Return to the previous menu.

move cursor and confirm operation.

Main Menu

There are five sub-menus, use the Direction/Enter to select and enter the chosen menu. The menu will be Highlighted when it is chosen.

Date and time
USB
TF card
2020-03-28 WED 21:25
Battery(charging)

2020-03-28 WED 21:25
OTDR
Event Map
18.00
dBm
dB
mW
OPM/VFL
OLS
System

OTDR Mode

2020-03-28 WED 21:25
A 0.000km
B 10.057km
1
2
3
File name
Testing Curve
Scale
Distance & attenuation
Event list
Measurement warning
Measurement info

1234_0001.sor

X 2.000km/div Y 5.00dB/div

A-B: 10.057km 1.81dB --.--dB/km

NO.		Dis.	Loss	Ref.	dB/km	C.Loss
1/3		0.000	0.00	-34.04	--.--	0.00
2/3		10.057	2.65	-36.08	0.18	1.81
3/3		14.154	--.--	-20.95	0.18	5.20

File Info: 1550nm 20km 250ns

OTDR ----- Curve Zoom In/Out

+ 🔍⊕	Vertical Zoom In
+ 🔍⊖	Vertical Zoom Out
+ 🔍⊕	Horizontal Zoom In
+ 🔍⊖	Horizontal Zoom Out
+ ESC	Full-screen Display

Vertical scaling
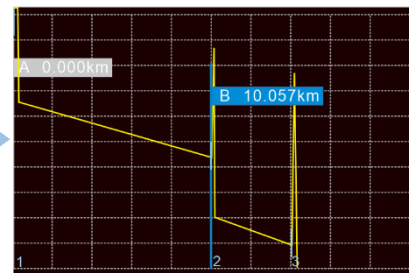
Horizontal scaling
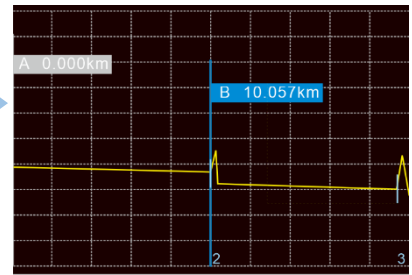
OTDR ----- Measurement

Press SCAN to run measurement. If the Real time mode is activated, press SCAN again to run average measurement, a progress bar will be displayed.
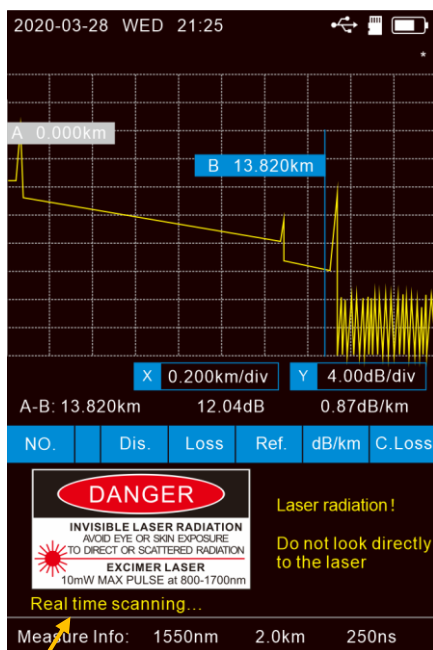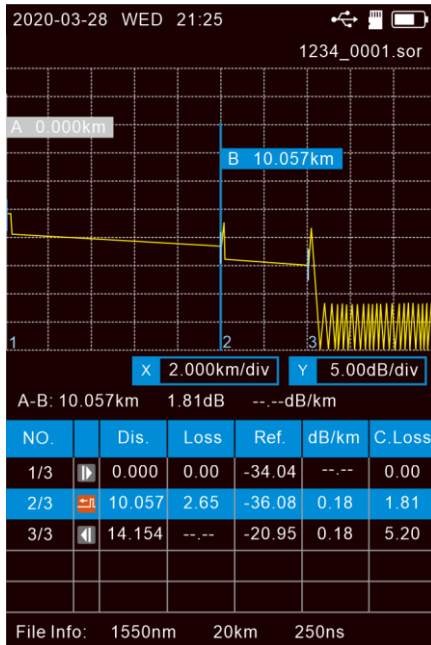

Real time mode
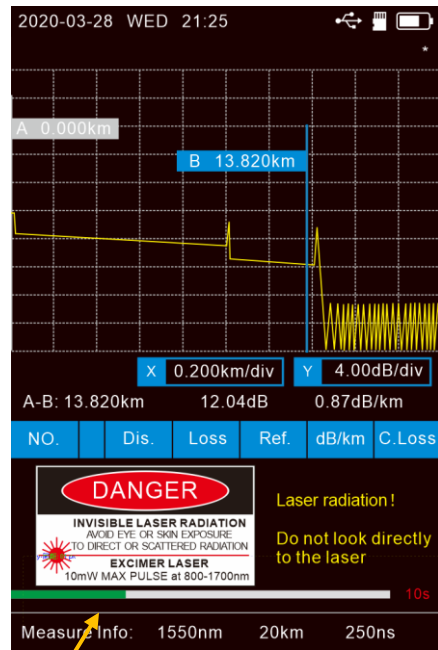
Average measurement

OTDR ----- Event List

After the measurement finished, the event list will be displayed. If there are more than 5 events, the rest can be viewed by using ⊕ or ⊖ button.
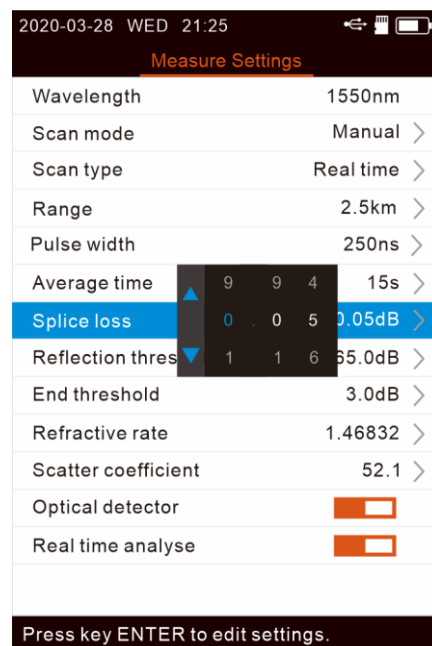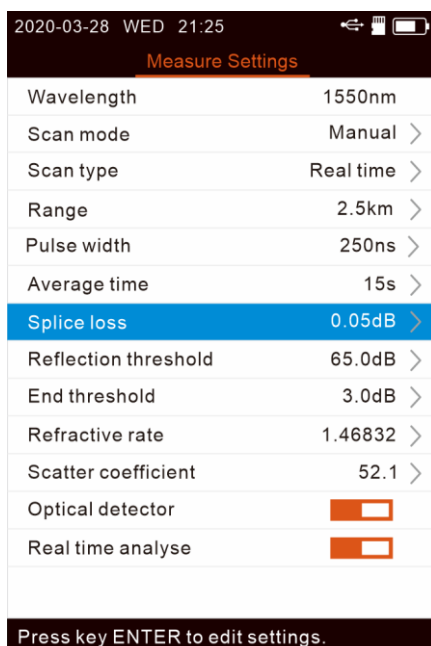

Five event types

  Optic fiber starting point

  Reflection event

  Attenuation event

  Gain event

 Optic fiber ending point

OTDR ----- Setup

Press the SETTING to enter the OTDR setup menu, select item by using ⊕ &. ⊖ , then press ENTER and use ⊕ &. ⊖ to change the setting, press ESC to quit current setting.

OTDR ----- File Saving

After finishing the measurement, press (SAVE/FILE) button to save the file and edit the file name by using the virtual keyboard in the screen. If the Auto Name function is turned on, the file name will be automatically generated when saving.
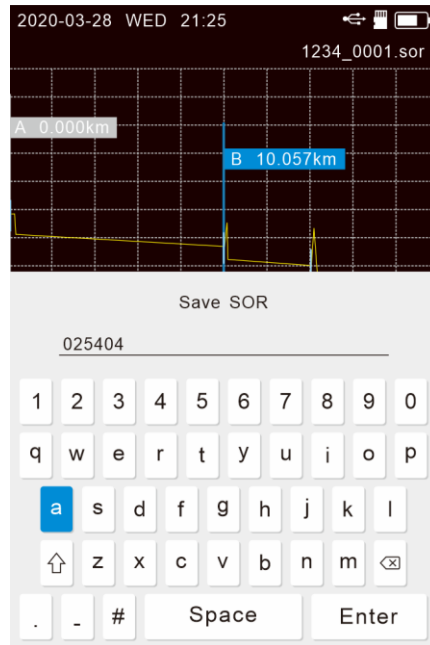
OTDR ----- File Review

Press the (SAVE/FILE) button to enter the file list. Select file by using &. and press (ENTER) to review the file, or press the to delete/rename the file.
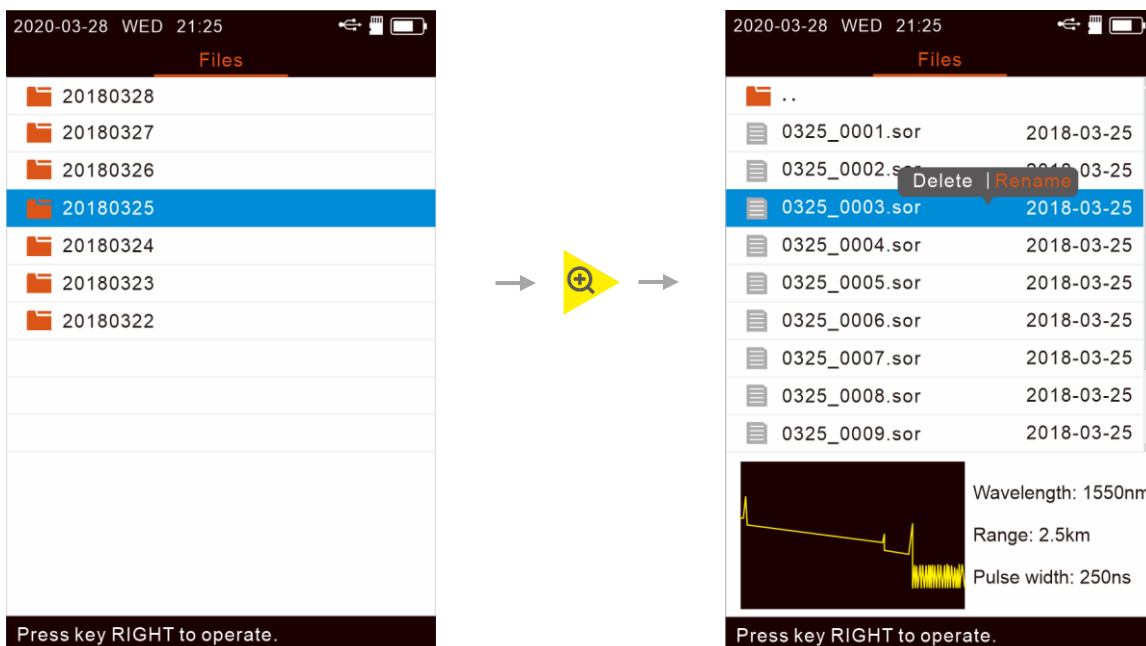
Event Map

Select Event Map mode in the main menu, and press (ENTER) to enter, then press (SCAN) to run measurement, a progress bar will be displayed.

- Total loss
- Visual event range
- Linear view of event list
- Event list (Measurement warning)

## Event Map ----- Setup

Press (SETTING) in the Event Map interface to enter the parameter setting interface, and press the (ENTER) to pop up the setting box, Multi-digit setting frame, after positioning the cursor with the left and right buttons, select up and down.

Event Map ----- File Saving

After finishing the measurement, press SAVE/FILE to save the file and edit the file name by using the virtual keyboard in the screen. If the Auto Name function is turned on, the file name will be automatically generated when saving.
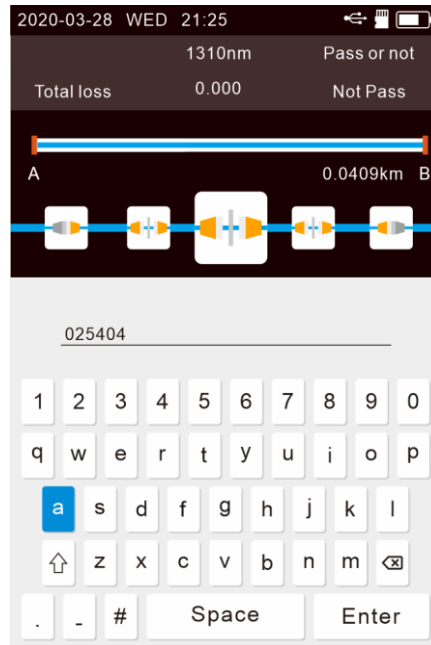
Event Map ----- File Review

Press the SAVE/FILE button to enter the file list. Select file by using ⊕ &. ⊖ and press ENTER to review the file, or press the ⊕ to delete/rename the file.
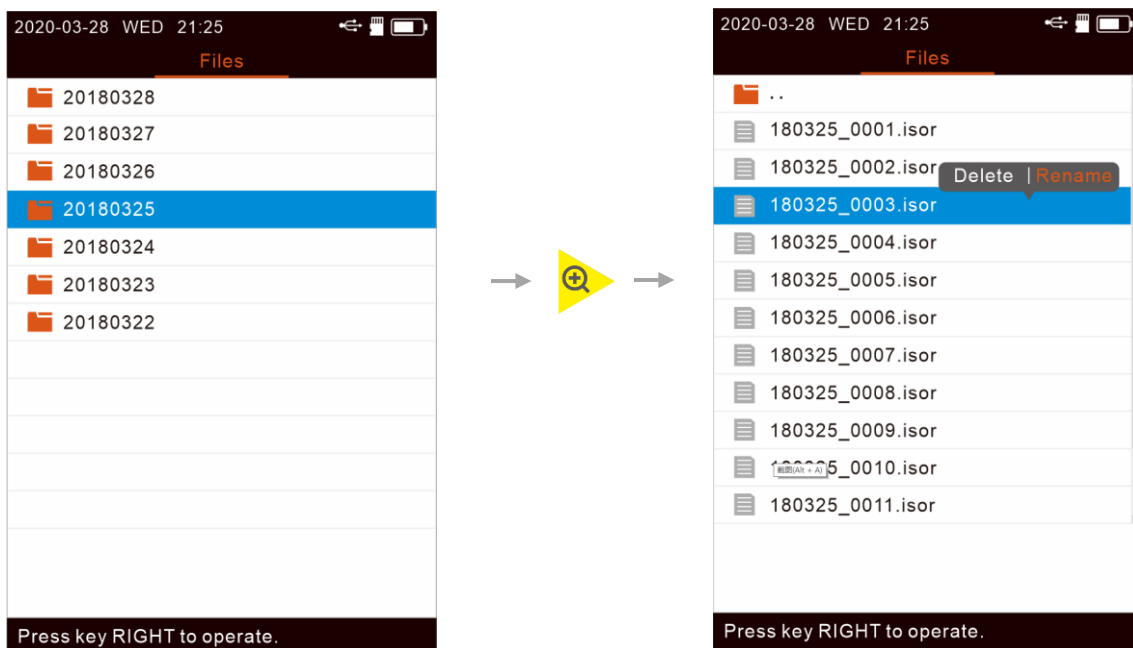
OPM/VFL Mode

Select OPM/VFL in the main menu, and press [ENTER] to enter the OPM/VFL mode. Press [⊕] to turn on/off the VFL. Press [⊖] to set ref. figure. Press [⊕] to review current ref. figure. Press [⊖] to switch the testing wavelengths*. Press [SETTING] to enter OPM setup.

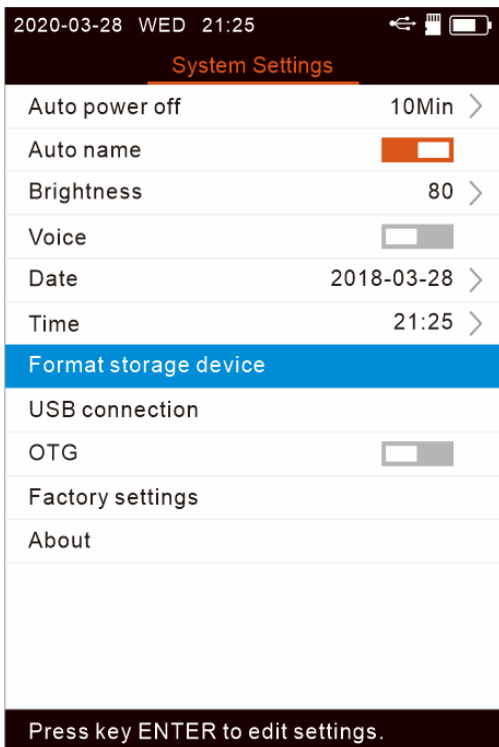*If "Auto λ" is activated, the wavelength cannot be switched by pressing [⊖] key.*

OLS Mode

Select OLS in the main menu, and press [ENTER] to enter the OLS mode. Press [⊕] to turn on/off the OLS. Press [⊖] to switch the wavelength between 1310 &. 1550nm. Press [⊕] to switch CW/270Hz/1KHz/2KHz.

System

Select "setting" in the main menu, and press ENTER to enter the system setup mode.

2020-03-28 WED 21:25	
System Settings	
Auto power off	10Min >	Set or cancel auto power off function.
Auto name		Name automatically when file is saving, can cancel this function.
Brightness	80 >	Adjust the brightness of LCD.
Voice		Turn on/off the key beep.
Date	2018-03-28 >	Set year, month, day.
Time	21:25 >	Set hour, minute.
Format storage device		Delete all files in the current TF card.
USB connection		Connect the OTDR to PC via USB cable to view files in TF card or internal storage.
OTG		Connect USB status settings to view TF card files or not.
Factory settings		Reset to default settings, and has no effect on the set time and stored data.
About		View the device hardware/software version number, CPU number and Language.

Press key ENTER to edit settings.

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