

# **OTDR700**

# Optical Time Domain Reflectometer

User Guide \_ Version 1.0

#### Ascentac Inc.

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If you have any questions or need any assistance, please contact our service center.

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Please prepare below information before you contact us and describe the problems.

- Product model and S/N
- Warranty information

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# 1. Safety Information

Read all safety information carefully before using this product to ensure personal safety and proper use.

- Assure the power supply conforming to the specification of this product and qualified for the country of use.
- Use batteries that meet the specifications of this product.
- Do not use damaged power cords, accessories or other peripheral equipment.
- Make sure the product is operated on the permitted ambient conditions.
- Never directly look into the optical outputs interface.
- Dangerous laser radiation:





#### 2. Introduction

Ascentac OTDR700 Series, Optical Time Domain Reflectometer, is an advanced instrument for troubleshooting, measuring and recording status of fiber-optic networks. The high resolution and narrow event dead-zone enable fiber-optic status in installation, operation and maintenance to be analyzed comprehensively and precisely. The feature of power meter, light source, loss meter and VFL makes it a truly multipurpose and ideal instrument for fiber-optic related measurement.

Ascentac OTDR700 Series utilizes one-touch automatic measurement which can avoid test setup errors and smart view in the linear way which simplifies results interpretation. The distance of each event, total loss, total return loss and Pass/Fail result will be directly indicated. These test results can also be stored and converted to PC for copy and saving as the record for future reference.

Ascentac OTDR700 Series offers on-site technicians the most outstanding performance and incredible experience.



#### 2.1 Features

- 5 fiber-optic test functions in one unit (OTDR, Power meter, Light source, Loss meter, VFL)
- Event dead zone less than 1.5m & Attenuation dead zone less than 4.5m
- Up to 256000 sampling points
- Multiple-wavelength for single-mode
- One-button operation
- Automatic Pass/Fail analysis

# 2.2 Application

- Construction, deployment and maintenance of FTTH
- CATV network testing
- Metro network testing



# 3. Layout

# 3.1 Appearance

Front



Тор



Back





# 3.2 Instruction

Button	Function	Item	Function
0	Power on/off	1	Power
•	Start or stop	2	USB
	: Enter	3	Ethernet
	: Up / Down	4	Optical Time  Domain Reflectometer
	: Left / Right	5	Optical Power Meter
	Menu or ESC	6	Visual Fault Locator
F1 to F4	Function keys	Α	Battery
		В	Support stand

# 3.3 LED Indicator

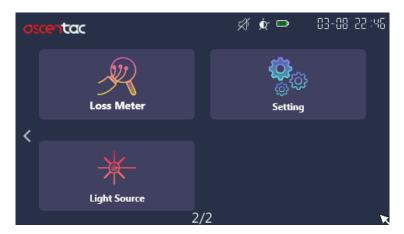
Icon	LED Indicator	LED Status	Description
*	Laser	Off	Laser Off
*		Red	Laser On
	Battery	Red	Low battery
		Green	Normal



# 4. Display

# 4.1 Home





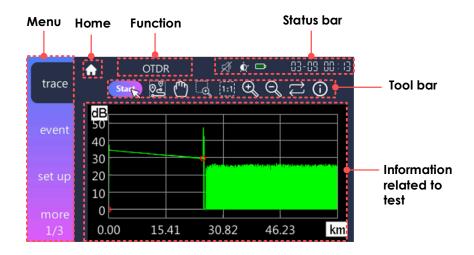


Icon	Function	Description
<u> </u>	Optical Time Domain	Measuring the state on the
OTDR	Reflectometer	optical fiber
<b>├</b>	Smart View	Automatic measurement
Smart View		and analysis of line status
	Power Meter	Optical power
Power Meter		measurement
	Visual Fault Locator	Troubleshooting: Red
VFL		illumination indicating fiber
		damages, bends or breaks
	Loss Meter	Measuring the loss of fiber
Loss Meter		optic line or passive
		components
Light Source	Light Source	Outputting stable light
Setting	Setting	Device settings

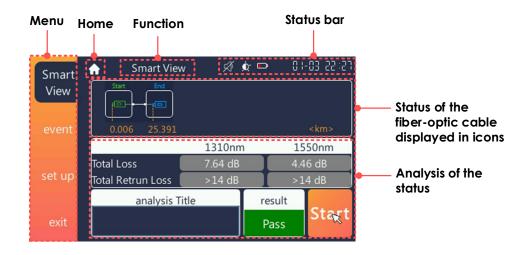


#### 4.2 Function

#### 4.2.1 Optical Time Domain Reflectometer (OTDR)

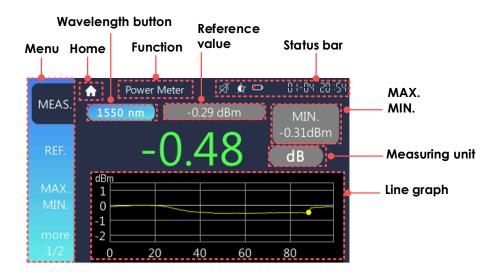


#### 4.2.2 SmartView

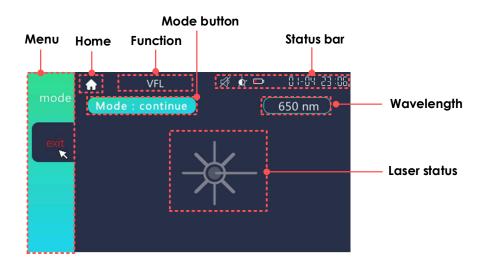




#### 4.2.3 Power Meter

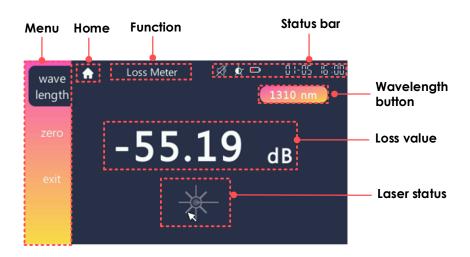


#### 4.2.4 Visual Fault Locator

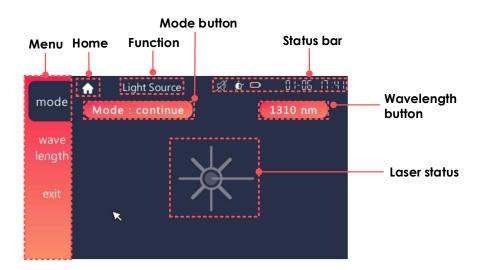




#### 4.2.5 Loss Meter

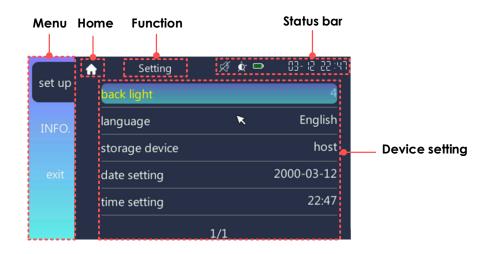


# 4.2.6 Light Source





# 4.2.7 Setting



#### 4.2.8 Others

Icon	Function		Description
	Battery status		Fully charged
			Low battery
<b></b>			Insufficient power
		\$	Charging
Ď	Brightness		The brightness of LCD display can be adjusted.
	Alert tone	$\hat{\nabla}$	On
Ì		Ø	Off



# 5. Operation

#### 5.1 Power-on

Long Press [ 😈 ] key for two seconds to turn on the equipment and enter into startup screen.



#### 5.2 Home Screen

Short press [ ], [ ] or [ ] key to move to the desired the function or directly tap the function icon on the screen to enter into it.

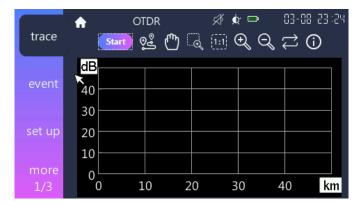




# 5.3 Optical Time Domain Reflectometer

Short press [  $\bigcirc$  ], [  $\bigcirc$  ] or [  $\bigcirc$  ] key to move to **OTDR**, and domain reflectometer or directly tap [ \_\_\_\_\_ ] on the screen to enter into it.







#### 5.3.1 Set up

Short press [ F3 ] key or directly tap [ set up ] on the screen to enter into the home screen of parameter setting.





#### 5.3.1.1 Wavelength

] key to move to **Wavelength**, and then short press [ ] key to enter into the home screen of wavelength setting or directly tap [ Wavelength ] on the screen to enter into it.



Short press [ ♠ ], [ ♦ ], [ ◀ 2. 1 key to ] or [ select the desired wavelength, and then short press the setting.

Directly tap the desired wavelength options on the screen, and then tap [OK] to confirm it. Tap [CANCEL] to discard the setting.





#### 5.3.1.2 Pulse Width

1. Short press [ ], [ ], [ ] or [ ] key to move to **Pulse Width**, and then short press [ ] key to enter into the home screen of pulse width setting or directly tap [ **Pulse Width** ] on the screen to enter into it.



2. Short press [ ], [ ], [ ] or [ ] key to select the desired pulse width, and then short press [ ] key to confirm it. Short press [ ] key to discard the setting.

Directly tap the desired pulse width options on the screen, and then tap [ **OK** ] to confirm it. Tap [ **CANCEL** ] to discard the setting.





#### 5.3.1.3 Measure Range

1. Short press [ ], [ ], [ ] or [ ] key to move to **Measure Range**, and then short press [ ] key to enter into the home screen of range setting or directly tap [ **Measure Range** ] on the screen to enter into it.



2. Short press [ ], [ ], [ ] or [ ] key to select the desired distance, and then short press [ ] key to confirm it. Short press [ ] key to discard the setting.

Directly tap the desired distance options on the screen, and then tap [ **OK** ] to confirm it. Tap [ **CANCEL** ] to discard the setting.





#### 5.3.1.4 Measure Time

1. Short press [ ], [ ], [ ] or [ ] key to move to **Measure Time**, and then short press [ ] key to enter into the home screen of measuring time setting or directly tap [ **Measure Time** ] on the screen to enter into it.



2. Short press [ ], [ ], [ ] or [ ] key to select the desired measuring time, and then short press [ ] key to confirm it. Short press [ ] key to discard the setting.

Directly tap the desired measuring time options on the screen, and then tap [OK] to confirm it. Tap [CANCEL] to discard the setting.





#### 5.3.1.5 Refractive Index

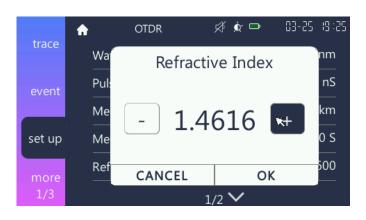
move to **Refractive Index**, and then short press [ to enter into the home screen of its setting or directly tap [ **Refractive Index** ] on the screen to enter into it.





2. Short press [ ], [ ], [ ] or [ ] key to set the value, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap [+] or [-] on the screen to set the value, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the setting.







#### 5.3.1.6 Distance Unit

Short press [ ], [ ], [ ] or [ ] key to move to **Distance Unit**, and then short press [ ] key to enter into the home screen of its setting or directly tap [ **Distance Unit** ] on the screen to enter into it.



Short press [ ], [ ], [ ] or [ ] key to select the unit, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.
 Directly tap the unit options on the screen, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the setting.





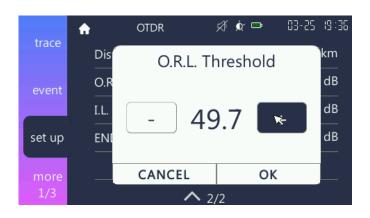
#### 5.3.1.7 O.R.L. Threshold

1. Short press [ ], [ ], [ ] or [ ] key to move to **O.R.L. Threshold**, and then short press [ ] key to enter into the home screen of its setting or directly tap [ **O.R.L. Threshold** ] on the screen to enter into it.





Short press [ ♠ ], [ ♠ ], [ ♠ ] or [ ▶ ] key to set 2. the value, and then short press [ e ] to confirm it. Short Directly tap [+] or [-] on the screen to set the value, and then tap [OK] to confirm it. Tap [CANCEL] to discard the



setting.





#### 5.3.1.8 I.L. Threshold

enter into the home screen of its setting or directly tap [ I.L. **Threshold**] on the screen to enter into it.





2. Short press [ ], [ ], [ ] or [ ] key to set the value, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap [+] or [-] on the screen to set the value, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the



setting.





#### 5.3.1.9 End Threshold

] key to move to **End Threshold**, and then short press [ • ] key to enter into the home screen of its setting or directly tap [ End Threshold ] on the screen to enter into it.

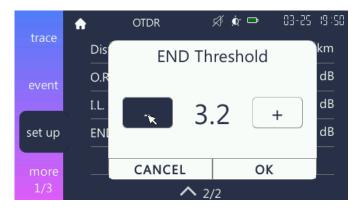




2. Short press [ ], [ ], [ ] or [ ] key to set the value, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap [+] or [-] on the screen to set the value, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the setting.

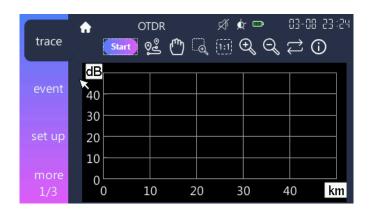


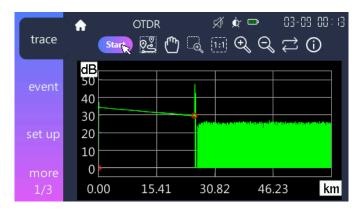




#### 5.3.2 Measurement & Trace

Short press [F1] key or directly tap [trace] on the screen to enter into the home screen of measurement, and then short press [ 1 or [ ] key or directly tap [ start ] on the screen to start the measurement based on the parameters set.







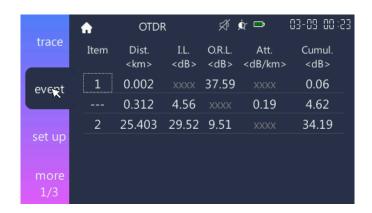
## Note

14010	
Icon	Function
Start	Start the measurement
0 0	Measure the distance of trace
్థిడ్	from point A to point B
(11)	Move the trace
.⊕	Enlarge the regional trace
(1:1)	1:1 full view
$\oplus$	Zoom in
Q	Zoom out
$\downarrow \downarrow$	Delete the reference trace
(i)	OTDR trace information



## **5.3.3 Event**

Short press [ F2 ] key or directly tap [ event ] on the screen to enter into the home screen of event.

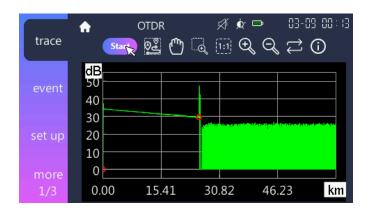


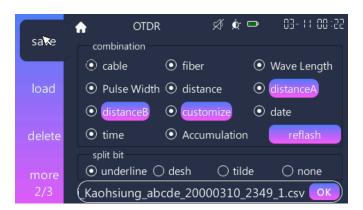
Note		
Item	Event number	
Dist.	Event distance	
<km></km>		
I.L.	Event loss	
<db></db>		
O.R.L.	Event reflection loss	
<db></db>		
Att.	Attenuation loss	
<db km=""></db>	Loss between two events	
Cumul.	Cumulative attenuation	
<db></db>	The total attenuation loss of the current event	



## 5.3.4 Save

1. After the measurement is done, short press [ F4 ] key and then short press [F1] key to enter into the home screen of saving or directly tap [more 1/3] on the screen first and then tap [save] on the screen.

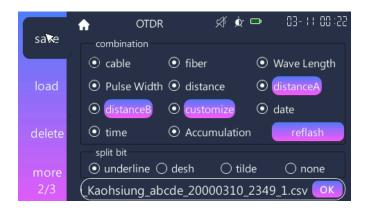






2. Directly tap [ O ] on the screen to select the desired information to be shown on the file name. [ • ] on the screen refers to selected information.

The selected information will be displayed in [



Tap the button with colors like [distance] to edit the content.

Tap any key on-screen keyboard first, short press [ 🗭 ], [ 🖝 ], ] key to move to the desired content to be ] or [ [ key to discard the setting.

Directly tap any key on-screen keyboard and then tap [ Esc ] on the screen to finish the setting. Tap [Return] on the screen to discard the setting.





Tap [ reflash ] to update the content in  $\subset$ 



3. Tap [OK] on the screen to finish saving.



## 5.3.5 Load

1. Short press [ **F2** ] key or directly tap [ **load** ] on the screen to enter into the home screen of loading.



2. Directly tap [ main / reference ] on the screen to select main trace or reference trace and then short press [ • ] key or directly tap [Location] to select the saved trace. Directly tap [OK] to open it or [CANCEL] to cancel it.





loading.

Directly tap [OK] on the screen to load the trace or [CANCEL] to discard the loading.





## 5.3.6 Delete

1. Short press [F3] key or directly tap [delete] on the screen to enter into the home screen of deleting.



] or [ ] key to move to the files to be deleted, and then short press [ - ] key to delete it. Directly tap the files to be deleted on the screen and then tap delete ] on the screen to delete it.





### 5.4 Smart View

Short press [ ], [ ] or [ ] key to move to **Smart View**, view or directly tap [ ] on the screen to enter into it.







## 5.4.1 Set up

Short press [ F3 ] key or directly tap [ set up ] on the screen to enter into the home screen of parameter setting.





#### **Bending Threshold** 5.4.1.1

Short press [ ♠ ], [ ♠ ], [ ♠ ] or [ ▶ ] key to move to **Bending Threshold**, and then short press [ key to enter into the home screen of setting of bending threshold or directly tap [ Bending Threshold ] on the screen to enter into it.





2. Short press [ ], [ ], [ ] or [ ] key to set the value, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap [+] or [-] on the screen to set the value, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the



setting.





# 5.4.1.2 Split-4 Threshold

to enter into the home screen of threshold setting or directly tap [ Split-4 Threshold ] on the screen to enter into it.



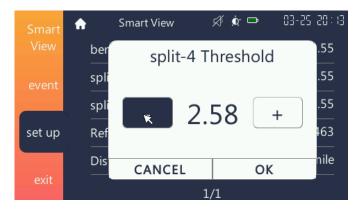


2. Short press [ ], [ ], [ ] or [ ] key to set the value, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap [+] or [-] on the screen to set the value, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the



setting.





# 5.4.1.3 Split-8 Threshold

1. Short press [ ], [ ], [ ] or [ ] key to move to **Split-8 Threshold**, and then short press [ ] key to enter into the home screen of threshold setting or directly tap [ **Split-8 Threshold** ] on the screen to enter into it.





2. Short press [ ], [ ], [ ] or [ ] key to set the value, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap [+] or [-] on the screen to set the value, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the



setting.





## 5.4.1.4 Refractive Index

1. Short press [ ], [ ], [ ] or [ ] key to move to **Refractive Index**, and then short press [ ] key to enter into the home screen of its setting or directly tap [ **Refractive Index** ] on the screen to enter into it.

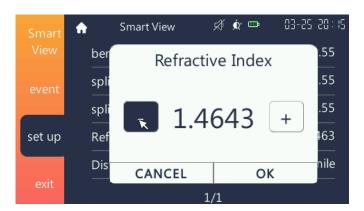




Short press [ ♠ ], [ ♠ ], [ ♠ ] or [ ▶ ] key to set 2. Directly tap [+] or [-] on the screen to set the value, and then tap [OK] to confirm it. Tap [CANCEL] to discard the



setting.





## 5.4.1.5 Distance Unit

1. Short press [ ], [ ], [ ] or [ ] key to move to **Distance Unit**, and then short press [ ] key to enter into the home screen of its setting or directly tap [ **Distance Unit** ] on the screen to enter into it.





Short press [ ], [ ], [ ] or [ ] key to select the unit, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.
 Directly tap the unit options on the screen, and then tap [OK] to confirm it. Tap [ CANCEL ] to discard the setting.

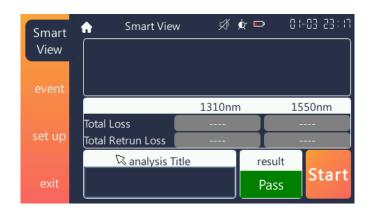






## 5.4.2 Measurement & Smart View

Short press [F1] key or directly tap [Smart View] on the screen to enter into the home screen of measurement, and then short press measurement based on the parameters set.

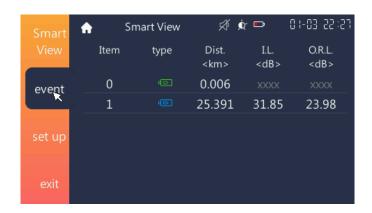






## **5.4.3 Event**

Short press [ **F2** ] key or directly tap [ **event** ] on the screen to enter into the home screen of event.



Note		
Item	Event number	
Туре	Event type	
Dist.	Event distance	
<km></km>		
I.L.	Eventless	
<db></db>	Event loss	
O.R.L.	Event reflection loss	
<db></db>	Everii reiieciiori 1033	



## 5.5 Power Meter

Short press [ ], [ ] or [ ] key to move to **Power** Meter, and then short press [ ) key to enter into the home screen of power meter or directly tap [ \_\_\_\_\_\_] on the screen to enter into it.







## 5.5.1 Wavelength

Short press [ ], [ ] or [ ] key until a white dashed box appears in the wavelength display block and then short the screen to switch the wavelength.

Wavelength: 1310 nm  $\rightarrow$  1490 nm  $\rightarrow$  1550 nm  $\rightarrow$  1625nm





## 5.5.2 Measuring Unit

Short press [ 🖚 ], [ 🚺 ] or [ 👂 ] key until a white dashed box appears in the unit display block and then short press to switch the unit.

Unit: dBm → mW (uW)





#### 5.5.3 Measurement

Connected to the optical fiber or line under test with laser source, the value displayed on the screen is the current value of optical power.



#### Note

- 1. The measured value of optical power > +10dBm: ++++ will be displayed on the screen.
- 2. The measured value of optical power < -65dBm: ---- will be displayed on the screen.
- 3. X-axis in the line graph refers to the time loop.



#### 5.5.4 Reference Value

Short press [F2] key or directly tap [REF.] on the screen to enter into the home screen of reference value.

The value of optical power originally measured will be the reference value based on dBm and be displayed in

on the screen.



Connected to another optical fiber to be tested with light source, 2. the value displayed in the middle of the screen is the difference between the current measured optical power value and the reference value.

#### Note

- 1. screen to switch the wavelength.
- 2. Measured value
  - · White: The threshold setting is turned off.
  - · Green: The threshold setting is turned on and the measured value is less than the threshold.
  - Red: The threshold setting is turned on and the measured value is higher than the threshold.



## 5.5.5 MAX. MIN.

1. Short press [F3] key or directly tap [MAX. MIN.] on the screen to enter into the below screen.



] on the screen can be switched by short 2. The value in [ pressing [ F3 ] key or directly tap [ MAX. MIN. ] on the screen.  $MIN. \rightarrow MAX. \rightarrow MAX.-MIN.$ 



#### 5.5.6 Threshold

1. Short press [F1] key or directly tap [Threshold] on the screen to enter into the home screen of the threshold setting.



2. Short press [ ], [ ], [ ] or [ ] key to move the white dashed box to OFF or ON, and then short press [ ] key to confirm it or directly tap [ OFF ] or [ ON ] on the screen.

Short press [ ], [ ], [ ] or [ ] key to move the white dashed box to + or -, set the value, and then short press [ ] to discard the setting.

Directly tap [+] or [-] on the screen to set the value and then tap [OK] to confirm it. Tap [CANCEL] to discard the setting.

#### Note

Measured value

- White: The threshold setting is turned off.
- Green: The threshold setting is turned on and the measured value is less than the threshold.
- Red: The threshold setting is turned on and the measured value is higher than the threshold.



## 5.5.7 Save

After the measurement is done, short press [ F4 ] key and then short press [F2] key to save the value or directly tap [more 1/2] on the screen first and then tap [ save ] to save the value.



## Note

The saved value only can be viewed by our software.

### 5.5.8 Exit

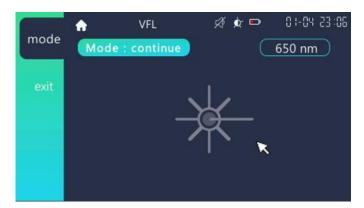
Short press [F3] or [ ] key or directly tap [exit] or [ ] on the screen to return to the home screen of all functions.



## 5.6 Visual Fault Locator

Short press [ ], [ ] or [ ] key to move to **VFL**, and then short press [ ] key to enter into the home screen of visual fault locator or directly tap [ \_\_\_\_\_\_ ] on the screen to enter into it.



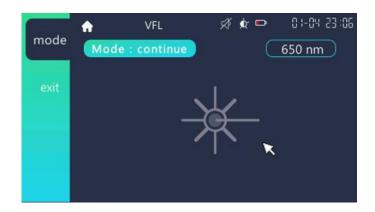




## 5.6.1 Mode

Short press [ F1 ] key or directly tap [ mode ] or [ Mode: continue ] on the screen to select the desired mode.

Mode: continue  $\rightarrow$  0.5 s  $\rightarrow$  1 s  $\rightarrow$  2 s





## 5.6.2 Laser-on

Short press [ lacktriangle ] key or directly tap [  $\divideontimes$  ] on the screen to turn on laser.



Laser-on



The LED indicator of laser on the equipment will be red when the laser is turned on.



## 5.6.3 Laser-off

Short press [  $\bigcirc$  ] key or directly tap [  $\bigstar$  ] on the screen to turn off laser.



Laser-off



# 5.6.4 Exit

the screen to return to the home screen of all functions.

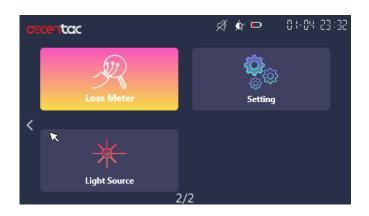
### Note

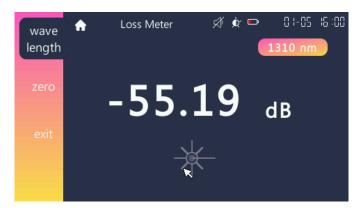
The equipment can be turned off by short pressing [F4] key.



## 5.7 Loss Meter

Short press [ ], [ ] or [ ] key to move to **Loss Meter**, and then short press [ ] key to enter into the home screen of loss 



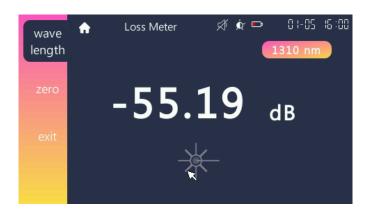




# 5.7.1 Wavelength

Short press [F1] key or directly tap [wavelength] or [1310 nm] on the screen to select the desired wavelength.

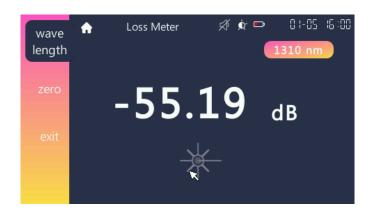
Wavelength: Same with the OTDR specification selected when purchasing.

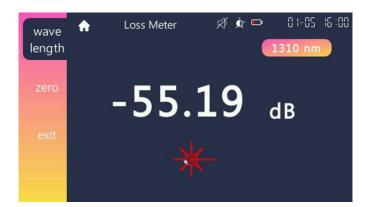




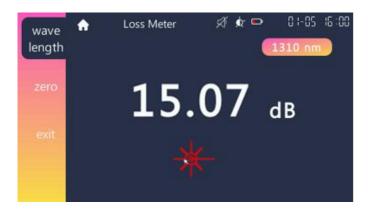
#### 5.7.2 Measurement

1. Connect one end of the patch cord to OTDR's optical interface and the other end to OPM's optical interface, and then short press [  $\bigcirc$  ] or [ **F4** ] key or directly tap [ + ] on the screen to turn on the laser.





2. The value displayed on the screen is the loss value of optical fiber.





#### 5.7.3 Zero

Short press [ F2 ] key or directly tap [ zero ] on the screen, follow tap [ CANCEL ] to discard the setting.





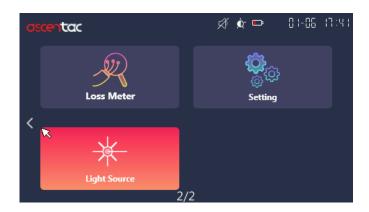
### 5.7.4 Exit

Short press [F3] or [ ] key or directly tap [exit] or [ ] on the screen to return to the home screen of all functions.



# 5.8 Light Source

Short press [ ], [ ] or [ ] key to move to **Light Source**, and then short press [ ] key to enter into the home screen of 







## 5.8.1 Mode

Short press [F1] key or directly tap [mode] or [Mode: continue] on the screen to select the desired mode.

Mode: continue → 270 Hz → 1K Hz → 2K Hz





# 5.8.2 Wavelength

Short press [F2] key or directly tap [wavelength] or [1310 nm] on the screen to select the desired wavelength.

Wavelength: Same with the OTDR specification selected when purchasing.





## 5.8.3 Laser-on

Short press [  $\bigcirc$  ] or [ **F4** ] key or directly tap [  $\Rightarrow$  ] on the screen to turn on laser.



Laser-on



### Note

The LED indicator of laser on the equipment will be red when the laser is turned on.

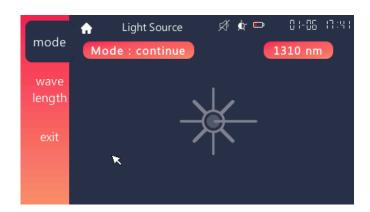


## 5.8.4 Laser-off

Short press [  $\bigcirc$  ] or [ **F4** ] key or directly tap [  $\bigstar$  ] on the screen to turn off laser.



Laser-off



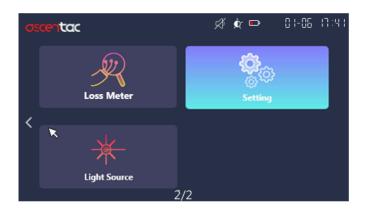
### 5.8.5 Exit

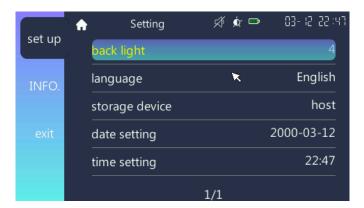
Short press [F3] or [ ] key or directly tap [exit] or [ ] on the screen to return to the home screen of all functions.



## 5.9 Setting

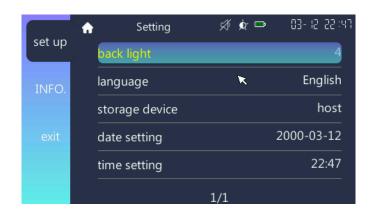
Short press [ ], [ ] or [ ] key to move to **Setting**, and then short press [ ] key to enter into the home screen of setting or directly tap [ ] on the screen to enter into it.







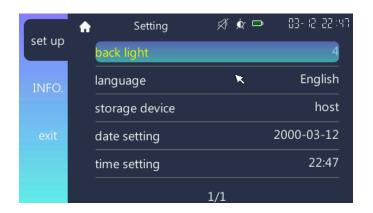
# 5.9.1 Set up





# 5.9.1.1 Backlight

1. Short press [ ], [ ], [ ] or [ ] key to move to **backlight**, and then short press [ ] key to enter into the home screen of backlight setting or directly tap [ **backlight** ] on the screen to enter into it.





2. Short press [ ], [ ], [ ] or [ ] key to select the desired brightness, and then short press [ ] key to confirm it. Short press [ ] key to discard the setting.

Directly tap the desired brightness options on the screen, and then tap [ **OK** ] to confirm it. Tap [ **CANCEL** ] to discard the setting.

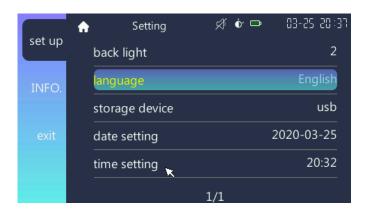






# 5.9.1.2 Language

enter into the home screen of language setting or directly tap [language] on the screen to enter into it.





2. Short press [ ], [ ], [ ] or [ ] key to select the desired language, and then short press [ ] key to confirm it. Short press [ ] key to discard the setting.

Directly tap the desired language options on the screen, and then tap [ **OK** ] to confirm it. Tap [ **CANCEL** ] to discard the setting.

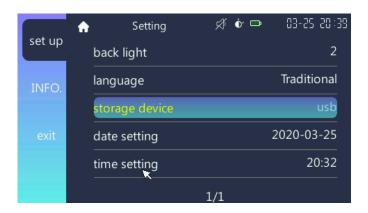






# 5.9.1.3 Storage Device

1. Short press [ ], [ ], [ ] or [ ] key to move to **storage device**, and then short press [ ] key to enter into the home screen of storage device or directly tap [ **storage device** ] on the screen to enter into it.





Short press [ ], [ ], [ ] or [ ] key to select the device, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.
 Directly tap the [ Host ] or [ USB ] on the screen, and then tap [ OK ] to confirm it. Tap [ CANCEL ] to discard the setting.

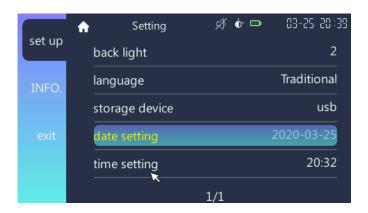






# 5.9.1.4 Date Setting

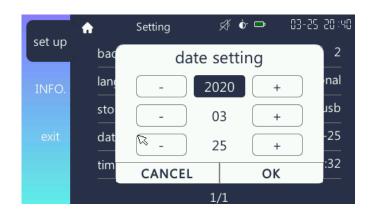
Short press [ ♠ ], [ ♠ ], [ ♠ ] or [ ▶ ] key to move to date setting, and then short press [ - ] key to enter into the home screen of date setting or directly tap [ date setting ] on the screen to enter into it.





2. or date, short press [ a ] or [ b ] to set it, and then short press [ ] to confirm it. Short press [ ] key to discard the setting.

Directly tap the [ **number** ], [ + ] or [ - ] on the screen to set them, and then tap [OK] to confirm it. Tap [CANCEL] to discard the setting.

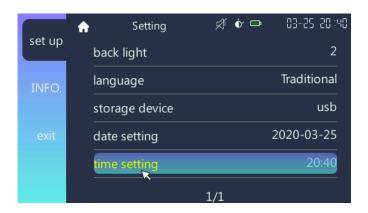






# 5.9.1.5 Time Setting

enter into the home screen of time setting or directly tap [ time setting ] on the screen to enter into it.





2. discard the setting.

Directly tap the [ **number** ], [ + ] or [ - ] on the screen to set them, and then tap [OK] to confirm it. Tap [CANCEL] to discard the setting.







#### 5.9.2 INFO.

Short press [F2] key or directly tap [INFO.] on the screen to enter into the home screen of the system information.



### 5.9.3 Exit

Short press [F3] or [ ] key or directly tap [exit] or [ ] on the screen to return to the home screen of all functions.

#### Note

The equipment can be turned off by short pressing [F4] key.