

ORL500 Optical Reflection Locator

User Guide _ Version 1.0

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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: A



2. Introduction

Ascentac ORL 500 Series, Optical Reflection Locator, which is intended for testing immoderate reflections in optical cables uses the exclusive techniques to shorten the event dead-zone to 1 meter. Reflection caused by end-face contamination, poor connections and degraded or damaged fiber can be quickly pinpointed in installation or maintenance of fiber-optic networks. The high accuracy is assured as its less than or equal to -60 dBm return loss measurements plus the angled single-mode test port (APC).

Ascentac ORL 500 Series can be applied for a wide range of functions, including locating reflection point or visual fault, total return loss or insertion loss measurement, optical power measurement and light source output. Testing can be completed with ease by single instrument and will be less constrained whether clients are at home or not. It is all-featured and convenient for technicians at any level to intensify the work efficiency.



2.1 Features

- 5 fiber-optic test functions in one unit (ORL, Power meter, Light source, Insertion loss meter, VFL)
- Extremely short event dead-zone: 1m
- Widely applicable range of optical power: +10 to -60 dBm
- Storage capacity up to 500 records
- Automatic Pass/Fail analysis

2.2 Application

• Locating breaks, severe bends, high-loss splices, dirty connectors or potentially weak network cabling areas



3. Layout

3.1 Appearance

• Front



• Тор



• Back





3.2 Instruction

Button	tton Function		Function
Ø	Power on/off	1	Power
	Start or stop	2	USB
	🕘 : Enter	3	Ethernet
	:Up / Down	4	Reflection Locator
	: Left / Right	5	Optical Power Meter
	Menu or ESC	6	Visual Fault Locator
F1 to F4	Function keys	А	Battery
		В	Support stand

3.3 LED Indicator

lcon	LED Indicator	LED Status	Description
	lacor	Off	Laser Off
	Lasei	Red	Laser On
	Battery	Red	Low battery
		Orange	Charging
		Green	Normal



4. Display

4.1 Home



lcon	Function	Description
	Optical Reflection Locator	Measure total return loss, total loss, event return loss and the location in the optical cable
Ċ	Optical Power Meter	Measure optical power
*	Light Source	Output constant light source
0.52 dB	Insertion Loss Meter	Measure the insertion loss of fibers or components
	Visual Fault Locator	Output visual light
°	System Setup	Set parameter
6	System Info	System information



4.2 Function



lcon	Function		Description
	Battery status		Fully charged
			Low battery
			Insufficient power
		*	Charging
*	Brightness		The brightness of LCD display can be adjusted.
*	Laser On		Emitting optical light
tu 🔪	Alert	(((On
111	tone		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 select the desired function.





5.3 Optical Reflection Locator

Short press [] or [] key to select **Optical Reflection Locator**.

	▶ <u>滦</u> I2:02
	Optical Reflection Locator Measurement of total return loss, total loss, event return loss and its location in the optical cable.
E	K 🔤 🧭 🍋

Short press [] key to enter into the home screen of optical reflection locator.

Setting	Optical Reflection Locator	<u>×</u> 🗖 12:23
Setting	Testing Result	
	Event Table	Total Return Loss
Testing	Item Distance(m) T.H.V(40.0dB)	
Result		dB
Event	Please press 🕟	
Location		
	to get the testing result	
More		
1/2		



5.3.1 Setting Optical Reflection Locator

) 🖄 📥 12:30 **Optical Reflection Locator** Setting Setting Manual **Testing Mode** Testing **Distance Unit** meter Result 8000.0 meter Test Distance Event 1.4680 **Refractive Index** Location Average Continue Execute Mode More 1/2 1/2

Short press [F1] key to set parameters.



5.3.1.1 Setting Testing Mode

5.3.1.1.1 Auto Test

Short press [] or [] key to move to "Testing Mode", and then short press [] key to access mode setting.

Sotting	Optical Reflection Locator	🕨 🖄 📥 12:30
Setting	Setti	ing
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	

Sotting	Optical F	Reflection Locator) <u>*</u> 🗖	12:45
Setting		Setting		
	Testin	- Mada	Марца	I 🗌
Testing Result	Distar	Testing Mode		
	Test [🗖 Auto) meter
Event	Refrac	🛒 Manual)
Location	Avera	— Mariuar		
More	Execu			ue
1/2		1/2		



Short press [] or [] key to select "Auto".



Short press [] key to confirm the setting.

Setting	Optical Reflection Loc	ator	🕨 🏯 🚍 12:49
Setting		Setting	
Testing	Testing Mode		Auto
Result	Distance Unit		meter
	Test Distance		8000.0 meter
Event	Refractive Index		1.4680
Location	Average		5
More	Execute Mode		Continue
1/2		1/2	

Note

Auto Mode is an automated testing method. ORL500 will automatically set **Test Distance** based on the length if optical fiber.



Short press [) key to discard the setting and return to the setting display.

Sotting	Optical Reflection Locator	🕨 🗈 📥 🕨 🕨			
Setting	Settin	Setting			
Testing	Testing Mode	Auto			
Result	Distance Unit	meter			
	Test Distance	8000.0 meter			
Event	Refractive Index	1.4680			
Location	Average	5			
More	Execute Mode	Continue			
1/2	1/2				



5.3.1.1.2 Manual Test

Short press [] or [] key to move to "**Testing Mode**", and then short press [] key to access mode setting.

Setting	Optical Reflection Loc	ator) 🖄 📼 13:01		
Setting		Setting			
Testing	Testing Mode		Auto		
Result	Distance Unit		meter		
	Test Distance		8000.0 meter		
Event	Refractive Index		1.4680		
Location	Average		5		
More	Execute Mode		Continue		
1/2		1/2			





Short press [] or [] key to select "Manual".



Short press [] key to confirm the setting.

Setting	Optical Reflection Loc	cator	🕨 🖄 🚍 13:06		
Setting		Setting			
Testing	Testing Mode		Manual		
Result	Distance Unit		meter		
	Test Distance		8000.0 meter		
Event	Refractive Index		1.4680		
Location	Average		5		
More	Execute Mode		Continue		
1/2		1/2			

Note

Users need to set a proper **Testing Distance** under the **Manual Mode** for ORL500 to accurately detect reflection events in the optical fiber.



Short press [) key to discard the setting and return to the setting display.

Setting	Optical Reflection Locator) 🖄 📼 13:06
Setting	Se	tting
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	



5.3.1.2 Distance Unit

Short press [] or [] key to move to "Distance Unit", and then short press [] key to access unit setting.

Sotting	Optical Reflection Locator) 🖄 📼 13:29
Setting	Setting	
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	

Sotting	Optical Ref	flection Locator	🕨 🖄 🗖	13:30
Setting		Setting		
Testing	Testin	Made Lipit Sottin	Mapur	
Result	Distar	Unit Settin	g	
	Test [motor	▲) meter
Event	Refrac	meter	▼)
Location	Avera			
More	Execu			ue
1/2		1/2		



Short press [] or [] or [] key to select the desired unit.

Setting	Optical R	eflection Locator	<u>»</u>	📫 13:31
Setting		Setting		
Testing	Testin	Unit Settin	Ma	
Result	Distar	onit ootan		
	Test [mile) meter
Event Location	Refrac	mie	▼)
	Avera			
More	Execu	1/2		ue
1/2		1/2		

Short press [] key to confirm the setting.

Setting	Optical Reflection Loca	tor 🕨 🦄 📼 13:33			
Setting		Setting			
Testing	Testing Mode	Manual			
Result	Distance Unit	mile			
	Test Distance	5.0 mile			
Event	Refractive Index	1.4680			
Location	Average	5			
More	Execute Mode	Continue			
1/2		1/2			



Short press [] key to discard the setting and return to the setting display.

Setting	Optical Reflection Locator) 🖈 🛋 🕨 🕨 🕨
Setting	Settin	ig
Teeting	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	



5.3.1.3 Test Distance

Short press [] or [] key to move to "**Test Distance**", and then short press [] key to access distance setting.

Optical Reflection Locator	🕨 🖄 📼 13:35
Sett	ing
Testing Mode	Manual
Distance Unit	meter
Test Distance	8000.0 meter
Refractive Index	1.4680
Average	5
Execute Mode	Continue
1/2	
	Optical Reflection Locator Sett Testing Mode Distance Unit Test Distance Refractive Index Average Execute Mode 1/2

Sotting	Optical R	eflection Locator	<u>بة</u> (13:47
Setting		Setting		
Testing	Testin	Testing Le	M	
Result	Distar	Testing Lei	ngtn	
	Test [0000) meter
Event	Refrac	8000	▼	
Location	Avera			
More	Execu			ue
1 / 2				



Short press [] or [] or [] key to select the distance.

Sotting	Optical R	eflection Locator	Þ <u>*</u>	13:48
Setting		Setting	9	
Testing	Testin Distar	Testing Le	ngth	
Result	Test [16000	▲) meter
Event Location	Refrac	10000	▼)
More	Execu			ue
1/2		1/2		

Short press [] key to confirm the setting.

Setting	Optical Reflection Loc	ator	🕨 🖄 🚍 13:49
Setting		Setting	
Testing	Testing Mode		Manual
Result	Distance Unit		meter
	Test Distance		16000.0 meter
Event	Refractive Index		1.4680
Location	Average		5
More	Execute Mode		Continue
1/2		1/2	



Sotting	Optical Reflection Locator	🕨 🖄 📼 13:50
Setting	Setting	
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	



5.3.1.4 Refractive Index

Short press [] or [] key to move to "**Refractive Index**", and then short press [] key to access refractive index setting.

Setting	Optical Reflection Locate	or 🔰 🦄 📼 13:52
Setting	Setting	
Tasting	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1,	/2

Setting	Optical Re	flection Locator	🕨 🖄 🗖	13:54
Setting		Setting		
	Testin	Made	Мариа	1
Testing	Dictar	Refractive Inde	ex	
Result	Distai		•	
	Test I	1 1600		meter
Event	Refrac	1.4000	▼	
Location	Avera			
More	Execu			ue
1/2		1/2		



Short press [] or [] key to select the refractive index and modify the digits.

Sotting	Optical Re	flection Locator	🕨 🖄 📼 13:56
Setting		Setting	3
	Testin	Mada	Mapua
Testing Result	Distar	Refractive	Index
	Test [1 4 6	🔨 🔺 🔹) meter
Event	Refrac	1.46	U 🗸 🔰
Location	Avera		
More	Execu		ue
1/2		1/2	

Short press [] or [] key to adjust the value.

Setting	Optical R	eflection Locator	🕨 🏯 📼 13:57	
Setting	Setting			
	Testin	n Mada	Manua	
Testing	Distant	Refractive Inde	X	
Result	Distar			
	Test [1 4000	🔺 🔹 🔪 🔺	
Event	Refrac	1.4600	~)	
Location	Avera			
More	Execu		ue	
1/2		1/2		

Short press [] key to confirm the setting.

Setting	Optical Reflection Loc	ator) 🖄 📼 13:58
Setting		Setting	
Testing	Testing Mode		Manual
Result	Distance Unit		meter
	Test Distance		8000.0 meter
Event	Refractive Index		1.4600
Location	Average		5
More	Execute Mode		Continue
1/2		1/2	



Short press [) key to discard the setting and return to the setting display.

Sotting	Optical Reflection Locator	🕨 🎘 📥 13:59
Setting	Setting	
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	



5.3.1.5 Average

Short press [] or [] key to move to "Average", and then short press [] key to access average setting.

Setting	Optical Reflection Locator	🕨 🏯 📼 14:11
Setting	Settin	ng
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	
1/2	1/2	

Sotting	Optical Reflection Locator	🕨 🌬 📼 14:11
Setting	Setting	
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	



Short press [] or [] key to set average.

Sotting	Optical F	Reflection Lo	cator) 🖄 🗖	- 14:12
Setting		Setting			
	Testin	- Mada		Manur	
Testing Result	Distar		Average		
	Test [1) meter
Event	Refrac	1		▼)
Location	Avera				
More	Execu				ue
1/2			1/2		

Short press [] key to confirm the setting.

Sotting	Optical Reflection Locator	🕨 🏝 📼 14:13
Setting	Setting	g
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	1
More	Execute Mode	Continue
1/2	1/2	

Short press [] key to discard the setting and return to the setting display.

Setting	Optical Reflection Loc	ator) 🖄 📥 ۱۹:15
		Setting	
Testing Result Event Location	Testing Mode		Manual
	Distance Unit		meter
	Test Distance		8000.0 meter
	Refractive Index		1.4680
	Average		5
More 1 / 2	Execute Mode		Continue
		1/2	



5.3.1.6 Execute Mode

Short press [] or [] key to move to "**Execute Mode**", and then short press [] key to access mode setting.

Optical Reflection Locator	🕨 🦄 📥 🕨 🕨
Set	ting
Testing Mode	Manual
Distance Unit	meter
Test Distance	8000.0 meter
Refractive Index	1.4680
Average	5
Execute Mode	Continue
1/2	
	Optical Reflection Locator Set Testing Mode Distance Unit Test Distance Refractive Index Average Execute Mode 1/2

Setting	Optical R	eflection Locator) 🖄 🗖	14:58	
Setting	Setting				
Testing	Testin	Execute Mode	Manua		
Result	Distar				
Event	Test I	Single) meter	
Location	Avera	😴 Contin	ue		
	Execu			ue	
More 1/2		1/2			



Short press [] or [] or [] key to set the mode.

Setting	Optical Reflection Locator	🕨 🖄 🚍 14:59			
Setting	Setting				
Testing Result Event Location	Testin Mede Distar Test I Single Refrac Contin) meter			
More 1 / 2	Execu 1/2	ue			

Short press [] key to confirm the setting.

Setting	Optical Reflection Loc	ator	🕨 🖄 🚍 15:00
		Setting	
Testing Result	Testing Mode		Manual
	Distance Unit		meter
	Test Distance		8000.0 meter
Event Location	Refractive Index		1.4680
	Average		5
More 1 / 2	Execute Mode		Single
		1/2	


Short press [] key to discard the setting and return to the setting display.

Sotting	Optical Reflection Locato	j 🕨 🕨 15:02
Setting	Se	etting
Testing	Testing Mode	Manual
Result	Distance Unit	meter
	Test Distance	8000.0 meter
Event	Refractive Index	1.4680
Location	Average	5
More	Execute Mode	Continue
1/2	1/2	2

Note

Under "**Continue**" mode, ORL500 will stop the test if the threshold value is exceeded for two times.



5.3.1.7 Threshold of Total Return Loss

Short press [] or [] key to move to "**Threshold of Total Return Loss**".





5.3.1.7.1 Value Mode

Short press [] key to access the setting.



Short press [] or [] key to select the value mode.





Short press [\clubsuit] or [\bigstar] key to set the threshold.



Short press [] key to confirm the setting.







Note

Threshold of total return loss under the value mode:

- 1. When the total return loss is higher than the threshold of total return loss, the measured value will be in red.
- 2. When the total return loss is lower than the threshold of total return loss, the measured value will be in green.

Total Return Loss > Threshold of Total Return Loss



Total Return Loss < Threshold of Total Return Loss

Setting	Optica	I Reflection Lo	cator 🕨 🕨	🖄 📥 16:14
Setting		Т	esting Result	
		Event T	able	Total Return Loss
Testing	Item	Distance(m)	T.H.V(40.0dB)	
Result	1	11.2	50.09	50.74 dB
Event Location	Ĺ	11.2	39.90	
More 1 / 2				



5.3.1.7.2 Text Mode

Short press [] key to access the setting.



Short press [] or [] key to select the test mode.





Short press [] key to confirm the setting.



Short press [] key to discard the setting and return to the setting display.

Sotting	Optical Reflection Locator	<u>*</u> 🗖	16:09
Setting	Setting		
Testing	Threshold of Total Return Loss	40.0dB	Value
Result	Threshold of Event Return Loss	35.0dB	Value
Event Location			
More 1 / 2	2/2		



Note

Threshold of total return loss under the text mode:

- When the total return loss is higher than the threshold of total return loss, the measured value will be in red. "Fail" will show on the display.
- When the total return loss is lower than the threshold of total return loss, the measured value will be in green. "Pass" will show on the display.



Total Return Loss > Threshold of Total Return Loss

Total Return Loss < Threshold of Total Return Loss

Setting	Optica	I Reflection Lo	cator 🕨 🕨	<u>🖄 🚍</u> 16:15
Setting		Т	esting Result	
		Event T	able	Total Return Loss
Testing	Item	Distance(m)	T.H.V(40.0dB)	
Tresuit	1	11 2	59 98	Dees
Event Location		11.2	55.50	Pass
More 1 / 2				



5.3.2 Test

Short press [) key to start the test based on the parameters users set.

Cotting	Optica	I Reflection Lo	cator 🛛 卷 🕨	<u>🔆 🚍</u> 09:0
Setting		Т	esting Result	
		Event Ta	able	Total Return Loss
Testing	Item	Distance(m)	T.H.V(35.0dB)	
Event Location	1	11.2	15.58	14.82 dB
More 1 / 2				¢

• Testing completed

Setting	Optica	I Reflection Lo	cator 😽 🕨	<u>🖄 📥 09:01</u>
Octaing		Т	esting Result	
		Event T	able	Total Return Loss
Testing Result	Item	Distance(m)	T.H.V(35.0dB)	
result	1	11.2	15.58	14.82 dB
Event Location				
More 1 / 2				٢



• Test results displayed

Setting	Optica	I Reflection Lo	cator 🛛 🔆 🕨	<u>🖄 📥</u> 09:01
Octaing		Т	esting Result	
		Event T	able	Total Return Loss
Testing Result	Item	Distance(m)	T.H.V(35.0dB)	
Tresuit	1	11.2	15.58	14.82 dB
Event Location	-	1112		
More 1 / 2				Ċ



5.3.3 Test Results

Short press [${\bf F2}$] key to view the test results.

Setting	Optical I	Reflection Locat	or)	🖄 🚍 15:11
Setting		Tes	ting Resul	t
		Event Tab	e	Total Loss
Testing	Item	Distance(m)	R.L.(dB)	
Tresuit	1	1.0	20 52	1.50 dB
Event	1	1.0	20.52	Teta Determinant
Location				Total Return Loss
More 1 / 2				11.89 dB



5.3.4 Event Location

 Setting
 Optical Reflection Locator
 ▶ ▲ □ 09:31

 Testing Result
 Event Location

 Event Location
 □

 More 1 / 2
 □

Short press [F3] key to view the event location.

Short press [] key to zoom in and press [] key to zoom out.





Short pre	ess [🔹] or [🕽] key to move the green cursor.
Setting	Optical Reflection Locator
Setting	Event Location
Testing Result	
Event Location	1
More 1 / 2	Distance =7.1 m Return Loss =61.04dB

Note

- 1. Red cursor: Fixed.
- 2. Green cursor: Position can be moved at will.



5.3.5 Saving Data

Short press [F1] key to access the display of saving data. Short press [], [], [] or []] to input file name, and then short press [] key to confirm it. Select [] to save it.

Save	Optical Reflection Locator
Save	Save
	File Name : 8000101121041
Read	Storage Device : Host
	1 2 3 4 5 6 7 8 9 0 -
Delete	QWERTYUIOP
	ASDFGHJKL
More	
2/2	

Saving





• Saving completed



Note

USB supports FAT32 format but does not support NTFS format.



5.3.6 Reading Data

Short press [F2] key to read the saved data.

Short press [] or [] key to select the data, and then press [] key to confirm it.

Sava	Optical Reflection Locator	▶ <u>※</u>	15 :27
Save	File	Read	
	Path:\Host\B13051515	2408	
Read	File Name	Date	Time
	B130515152408	13/05/15	15:24:30
Delete			
More 2 / 2		Previous ▼ Nex	t 🚽 Confirm



Reading

Optical Reflection Locator) 🖄 📥 15:28
Save		File Read	
	Path:	Host\B130515152408	
Read		File Read	Time
	B130	Reading	5:24:30
Delete			
More			
2/2	Page U	p 🕨 Page Down 🔺 Previou	is 🔻 Next 🛛 Confirm

• Reading completed



• Testing result

Setting	Optical I	Reflection Locate	or	🖄 🚍 15:29
Setting		Tes	ting Resul	t
		Event Tabl	e	Total Loss
Testing	Item	Distance(m)	R.L.(dB)	
Event	1	5.1 288.5	25.19 20.81	0.46 dB
Location	3	764.9	21.10	Total Return Loss
More 2 / 2	4	1048.2	56.57	15.81 dB



5.3.6.1 Threshold of Event Return Loss

Short press [] or [] key to move to "**Threshold of Event Return Loss**".

Sotting	Optical Reflection Locator	<u>*</u> 🗖	16:49
Setting	Setting		
Testing	Threshold of Total Return Loss	35.0dB	Value
Result	Threshold of Event Return Loss	35.0dB	Value
Event Location			
More 1 / 2	2/2		



5.3.6.1.1 Value Mode

Short press [] key to access the setting.



Short press [] or [] key to select the value mode.





Short press [\clubsuit] or [\bigstar] key to set the threshold.



Short press [] key to confirm the setting.







Note

Threshold of total return loss under the value mode:

- 1. When the event return loss is higher than the threshold of event return loss, the measured value will be in red.
- 2. When the event return loss is lower than the threshold of event return loss, the measured value will be in green.

 Event Return Loss > Threshold of Event Return Loss

 Optical Reflection Locator



Event Return Loss < Threshold of Event Return Loss

Setting	Optica	I Reflection Lo	cator 🕨	🔆 📥 16:55
Setting		Т	esting Result	
		Event T	able	Total Return Loss
Testing Result	Item	Distance(m)	T.H.V(35.0dB)	
	1	11.2	45.30	43.61 dB
Event Location			10100	
More				
1/2				



5.3.6.1.2 Text Mode

Short press [-] key to access the setting.



Short press [] or [] key to select the text mode.





Short press [] key to confirm the setting.



Short press [) key to discard the setting and return to the setting display.





Note

Threshold of event return loss under the text mode:

- When the event return loss is higher than the threshold of event return loss, the measured value will be in red. "Fail" will show on the display.
- When the event return loss is lower than the threshold of event return loss, the measured value will be in green. "Pass" will show on the display.

Setting	Optica	I Reflection Lo	🖄 🚍 16:54	
Setting		Т	esting Result	
		Event T	able	Total Return Loss
Testing Result	Item	Distance(m)	T.H.V(35.0dB)	
Tresuit	1	11.2	Fail	14.78 dB
Event Location	-	11.2		
More 1 / 2				

Event Return Loss > Threshold of Event Return Loss

Event Return Loss < Threshold of Event Return Loss

Setting	Optica	I Reflection Lo	cator 🕨	<u>*</u> 📥 16:55
Setting		Т	esting Result	
		Event T	able	Total Return Loss
Testing Result	Item	Distance(m)	T.H.V(35.0dB)	
Result	1	11.2	Pass	43.61 dB
Event Location	-	11.2	1 435	
More 1 / 2				



5.3.7 Deleting Data

Short press [F3] key to access the display of deleting data.

5.3.7.1 Single Data

Short press [] or [] key to select the data you would like to delete, and then short press [] key to confirm the data.

Sava	Optical Reflection Locator	▶ <u> ※</u>	— 16:10
Save	File I	Delete	
	Path:\Host\B00010116	50622	
Read	File Name	Date	Time
	B000101160622	00/01/01	16:06:28
Delete	B000101160630 B000101160632 B000101160634	00/01/01 00/01/01 00/01/01	16:06:30 16:06:32 16:06:34
More 2 / 2	A Page Up ▶ Page Down ▲ Press	vious ▼ Next 싖	Confirm 🕜 All

Short press [] or [] key to confirm whether to delete or not.

Sava	Optical Re	flection Locator) 🖄 🗖	- 16:11		
Save		File Delete				
	Path:\H	oct/B00010116062) ว			
Read		File Delet	e	Time		
	B000	Delete ?		5:06:28		
Delete	B000: B000: B000:	B00010116062 ॼ Yes □	2 No	5:06:30 5:06:32 5:06:34		
More 2 / 2	Page Up)	Page Down ▲ Previous	▼ Next 싖 Cor	firm 💽 All		



Deleting

Sava	Optical R	Reflection Locator	▶ 淤 ⊑	- 16:11
Save		File Delete		
	Path:\	Host\B000101160622		
Read		File Delete		Time
	B000:	Deleting		5:06:28
	B000:	Deleting		5:06:30
Delete	B0001 B0001			5:06:32
More	d Deco Li	- Dago Daun A Davious - N		Erro 🔿 All
2/2	Trage U			

• Deletion completed

Sava	Optical Reflection Locator	▶ <u>☆</u>	16 :1		
Save	File	File Delete			
	Path:\Host\B00010116	50630			
Read	File Name	Date	Time		
	B000101160630	00/01/01	16:06:30		
Delete	B000101160632 B000101160634	00/01/01 00/01/01	16:06:32 16:06:34		
More 2 / 2	Page Up ▶Page Down ▲ Pres	vious 🔻 Next 괻	Confirm 💽 All		



5.3.7.2 All Data

Short press [🕜] key to execute to delete all data.

Sava	Optical F	Reflection Locator	<u> ☆</u> ⊏	- 16:11	
Save	File Delete				
	Path:\	Host\B000101160630			
Read		File Delete		Time	
	B000:			5:06:30	
	B000:	Delete ALL ?		6:06:32	
Delete	B000:	🗆 Yes 🕤 No		5:06:34	
More					
2/2	▲Page U	p ▶Page Down 🛦 Previous 🔻 Ne	xt 🕘 Con	ifim 💽 All	

Short press [] or [] key to confirm whether to delete all data or not.

Sava	Optical F	Reflection Locator	Þ <u> </u>	- 16:12		
Save		File Delete				
Read	Path:\	Host/B000101160630 File Delete		Time		
Houd	B000:	Delete ALL 2		5:06:30		
Delete	B000: B000:	🗹 Yes 🗆 N	١o	5:06:32 5:06:34		
More 2 / 2	■Page U	p ▶Page Down ▲ Previous ▼	V Next 🕘 Cor	nfirm 💽 All		



Deleting

Sava	Optical F	Reflection Locator	🕨 🖄 🗖	1 6:12
Save		File Delete		
	Path:	Host\8000101160630		
Pood	- uu	File Delete		Timo
Reau	B000:	Deleting		5:06:30
Delete	B000: B000:			5:06:32 5:06:34
More 2 / 2	⊲ Page U	lp ▶Page Down ▲ Previous ▼ N	lext 🕘 Cont	firm 💽 All

Deletion completed

Sava	Optical Reflection Locator	▶ <u>☆</u>	📥 16:12
Save	File Delete		
	Path:\Host\No File		
Read	File Name	Date	Time
Delete			
More 2 / 2	Page Up Page Down ▲ Pre	vious 🔻 Next 🕘	Confirm 👩 All



5.4 Optical Power Meter

Short press [] or [] key to select **Optical Power Meter**.

▶ 🖄 💶 12:04
Optical Power Meters Measurement of Optical Power
K 🔤 🦉 😳 🧑

Short press [] key to enter into the measured display of optical power meter.





5.4.1 Setting Optical Power Meter

SettingOptical Power MetersImage: 16:19SettingSettingTesting
ResultThreshold of Optical Poweroff
AverageAverage5Wavelength Setting1550 nm
Unit SettingUnit SettingdBm

Short press [F1] key to set parameters.



5.4.1.1 Threshold of Optical Power

Short press [] or [] key to move to "**Threshold of Optical Power**".

Setting	Optical Power Meters	🕨 🖄 🚍 16:19
	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	



5.4.1.1.1 Turn on the Threshold of Optical Power

Short press [-] key to access the setting.



Short press [] or [] key to enable the threshold of optical power to turn on.





Short press [] or [] key to set the value of threshold, and then short press [] key to confirm it.

Setting	Optical Power Meters	🕨 🖄 📼 16:20
	Setting	
	Threshold of Optical Power	-11.0dBm
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	

Setting	Optical Power Meters) 🖄 🚍 16:20
	Setting	
Testing	Threshold of Optical Power	-11.0dBm
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	



Note

Turn on the threshold of optical power:

- When the measured value of optical power is higher than the threshold of optical power, the measured value will be in red.
- 2. When the measured value of optical power is lower than the threshold of optical power, the measured value will be in green.



Measured Value > Threshold of Optical Power

Measured Value < Threshold of Optical Power





5.4.1.1.2 Turn off the Threshold of Optical Power

Optical Power Meters) 🖄 📼 16:20 Setting Setting Thres Threshold of Optical Power Testing Avera Result Wave nm 🗆 Off 🗹 On Unit S Reference -10.0 1/1

Short press [-] key to access the setting.

Short press [] or [] key to enable the threshold of optical power to turn off.





Short press [-] key to confirm the setting.

optical Power Meters	16:19
Setting	
Threshold of Optical Power	off
Average	5
Wavelength Setting	1550 nm
Unit Setting	dBm
1/1	
	Setting Threshold of Optical Power Average Wavelength Setting Unit Setting 1/1

Short press [] key to discard the setting and return to the setting display.

Setting	Optical Power Meters	🕨 🖄 📼 16:20
Setting	Setting	
Testing	Threshold of Optical Power	-11.0dBm
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	


5.4.1.2 Average

Short press [] or [] key to move to "Average", and then short press [] key to access average setting.

Setting	Optical Power Meters	🕨 🏯 🚍 16:31
	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	

Setting	Optica	Power Meter	S) 🖄 🗖	16:31
Setting		S	etting		
Testing	Thres	Av	/erage	off	
Result	Wave	F		▲	າຕາ
Reference	Unit S	3	•	•	
		1/	1		



Short press $[] \circ []$ key to set average.

Optical	Power Meters	🕨 🦄 📼 16	;: 3 1
	Setting		
Thres	Average	off	
Wave	10	🔺 nm	
Unit S	10	▼	
	1/1		
	Optical Thres Avera Wave Unit S	Optical Power Meters Setting Threshold of Optical Power Avera Wave Unit S 10 1/1	Optical Power Meters

Short press [] key to confirm the setting.

Setting	Optical Power Meters	🕨 🖄 🚍 16:31
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	10
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	

Note

The larger the value of average, the higher accuracy of the reflection event and the longer testing time it takes.



Setting	Optical Power Meters	🕨 🏯 📼 16:31
Setting	Setting	
Testing	Threshold of Optical Power	off
Testing Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	
	1/1	



5.4.1.3 Wavelength Setting

Short press [] or [] key to move to "Wavelength Setting", and then short press [] key to access wavelength setting.

Setting	Optical Power Meters) 🖄 🚍 08:25
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	

Sotting	Optical	Power Meters	🕨 🖄 🗖	08:25
Setting		Setting		
Testing	Thres	Wavelength Set	off ting	
Result	Avera Wave	1550		ım
Reference	Unit S	1550	▼	
		1/1		



Short press [] or [] or [] key to set wavelength.

Sotting	Optical	Power Meters) <u>×</u> 🗆	08:26
Setting		Setting		
Testing Result	Thres Avera Wave	Wavelength Set	ting	າເກ
Reference	Unit S	1625	•	
		1/1		

Short press [] key to confirm the setting.

Setting	Optical Power Meters) 🖄 🚍 08:26
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1625 nm
Reference	Unit Setting	dBm
	1/1	



Short press [) key to discard the setting and return to the setting display.

Setting	Optical Power Meters	🕨 🦄 🧰 08:26
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1625 nm
Reference	Unit Setting	dBm
	1/1	



5.4.1.4 Unit Setting

Short press [] or [] key to move to "**Unit Setting**", and then short press [] key to access unit setting.

Setting	Optical Power Meters) 🖄 🚍 08:28
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	dBm
	1/1	

Setting	Optical	Power Meters	<u>»</u>	08:28
Setting		Setting		
Testing Result Reference	Thres Avera Wave Unit S	Unit Setting	off	ım
		1/1		



Short press [] or [] key to set the displayed unit.

Sotting	Optical	Power Meters	🕨 🖄 🗖	08:58
Setting		Setting		
Testing	Thres	Unit Setting	off	
Result	Avera Wave			nm
Reference	Unit S	mW	•	
		1/1		

Short press [] key to confirm the setting.

Setting	Optical Power Meters	وع: 08 🚍 🖄
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	mW
	1/1	
	1/1	



Short press [) key to discard the setting and return to the setting display.

Setting	Optical Power Meters	🕨 🖄 📼 08:29
Setting	Setting	
Testing	Threshold of Optical Power	off
Result	Average	5
	Wavelength Setting	1550 nm
Reference	Unit Setting	mW
	1/1	



5.4.2 Test Results

Short press [F2] key to view the test results.





5.4.3 Reference Value

Short press [**F3**] key to set the currently measured value as the reference value.





5.5 Optical Light Source

Short press [] or [] key to select **Optical Light Source**.



Short press [] key to enter into the main display of optical light source.





5.5.1 Turn on/off Light Source



Short press [①] key to turn on the light source.

Short press [①] key to turn off the light source.





5.6 Insertion Loss Meter

Short press [] or [] key to select Insertion Loss Meter.

	▶ 🖄 💶 12:04
0.52 dB	Insertion Loss Meter Measures the Insertion Loss of Fibers or Components
	K 📴 🌠 😳 🧕

Short press [] key to enter into the measured display of insertion loss meter.





5.6.1 Insertion Loss

Short press [F1] key to enter into the measured display of insertion loss.



Short press [🕜] key to start the test.





Short press [•] key to stop the test.

Insertion	Insertion Loss Meter	🕨 🖄 📥 ۵۹:45
Loss		λ:1625 nm
Return		
to zero		,
	ae	5
	Press 💽 to	turn on
		rce



5.6.2 Calibration

Short press [F2] key to enter into the display of calibration.



Short press [🕜] key to start the calibration.

• Calibrating





Calibration completed



Back to the display of calibration.





5.7 Visual Fault Locator

Short press [] or [] key to select Visual Fault Locator.



Short press [] key to enter into the display of visual fault locator.





5.7.1 Turn on/off Visual Fault Locator



Short press [💽] key to turn on visual fault locator

Short press [🕜] key to turn off visual fault locator.





5.7.2 Modulation Output

Short press [**F1**] key to switch the modulation output (CW or FLASH).



• FLASH





5.8 System Setup

Short press [] or [] key to select **System Setup**.



Short press [] key to enter into the main display of system setup.

Setting	System Setup	🕨 🖄 🚍 10:00
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/02
	Time Setting	10:00:40
	Standby Time	Never Turn off
	Tone	Off
	1/2	



5.8.1 Brightness Adjustment

Short press [] or [] key to move to "**Brightness** Adjustment", and then short press [] key to access the setting.

Sotting	System	Setup	▶ 滋 □	1 0:01
Setting		Set	ting	
	Bright Brightness Adjustment		Adjustment	
	Date : Time	5	▲ ▼	/02 :40
	Stand Tone		·	Turn off
		1/2		

Setting	System S	Setup	Þ 🖄 🗖	10:01
		Setti	ing	
	Bright	Brightness /	۔ Adjustment	
	Date S Time	5	▲ ▼	/02 :40
	Stand Tone			Turn off
		1/2		



Short press [] or [] or [] key to adjust the brightness.



Short press [🕘] key to confirm it.

Setting	System Setup	🕨 🖄 🚍 10:00
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/02
	Time Setting	10:00:40
	Standby Time	Never Turn off
	Tone	Off
	1/2	



Sotting	System Setup	🕨 🖄 📼 10:00
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/02
	Time Setting	10:00:40
	Standby Time	Never Turn off
	Tone	Off
	1/2	



5.8.2 Storage Device

Short press [] or [] key to move to "Storage Device", and then short press [] key to access the setting.

Setting	System Setup	🕨 🦄 🚍 10:02
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/02
	Time Setting	10:02:45
	Standby Time	Never Turn off
	Tone	Off
	1/2	
	1/2	

Setting	System Setup	10:03
	Setting	
	Bright Storage Device Storage Device Date : Time USB Stand	′02 :45 Turn off
	1/2	



Short press [



Short press [🕘] key to confirm it.

Setting	System Setup	🕨 🦄 🚍 10:03
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	USB
	Date Setting	00/01/02
	Time Setting	10:03:35
	Standby Time	Never Turn off
	Tone	Off
	1/2	



Setting	System Setup	🕨 🆄 🚍 10:02
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/02
	Time Setting	10:02:45
	Standby Time	Never Turn off
	Tone	Off
	1/2	



5.8.3 Date Setting

Short press [] or [] key to move to "Date Setting", and then short press [] key to access the setting.

Setting	
Setting	
Brightness Adjustment 5	
Storage Device Host	
Date Setting 00/01/02	
Time Setting 10:03:53	
Standby Time Never Turn of	F
Tone Off	
1/2	

Setting	System	Setup	▶ <u> ×</u> ⊏	10:04
Setting		Setting		
	Bright	Date Setting	5	
	Storag Date S Time Stand Tone	2000 / 01 /	/ 02	'02 :53 Turn off
		1/2		



Short press [] or [] key to move to the desired position, and then short press [] or [] key to set the date.

Sotting	System Setup	Þ 📩 🛋 ا
Setting	Se	etting
	Brightmans Adjustme	Setting
	Storag Date :	02
	Time 2013	/ 05 / 15 ⁵³
	Tone	Turn on
	1/2	2

Short press [🕘] key to confirm it.

Setting	System Setup	🕨 🦄 🚍 10:05
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	13/05/15
	Time Setting	10:05:02
	Standby Time	Never Turn off
	Tone	Off
	1/2	



Short press [) key to discard the setting and return to the setting display.

Setting	System Setup	🕨 🆄 🚍 10:03
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/02
	Time Setting	10:03:53
	Standby Time	Never Turn off
	Tone	Off
	1/2	



5.8.4 Time Setting

Short press [] or [] key to move to "**Time Setting**", and then short press [] key to access the setting.

Setting	System Setup) 🖄 🚍 10:28
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/05
	Time Setting	10:28:00
	Standby Time	Never Turn off
	Tone	Off
	1/2	





Short press [] or [] key to move to the desired position, and then short press [] or [] key to set the time.

Setting Brightmass Adjustment 5	
Brightmann 5	
Time Setting	
Storag Date : 05 Time 12:28:29 Stand Tone	
1/2	

Short press [🕘] key to confirm it.

Setting	System Setup) 🖄 🚍 12:28
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/05
	Time Setting	12:28:29
	Standby Time	Never Turn off
	Tone	Off
	1/2	



Setting	System Setup) 🖄 📥 10:28
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	00/01/05
	Time Setting	10:28:00
	Standby Time	Never Turn off
	Tone	Off
	1/2	



5.8.5 Standby Time

Short press [] or [] key to move to "**Standby Time**", and then short press [] bey to access the setting.

Setting	System Setup	🕨 🏝 📥 10:08
Setting	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	13/05/15
	Time Setting	10:08:35
	Standby Time	5min.
	Tone	Off
	1/2	

Setting	System S	etup	▶ <u> ※</u>	10:06	
	Setting				
	Bright	Standb	y Time		
	Storag Date S Time	5	A	'15 :52	
	Stand Tone		·	Turn off	
		1/2			



Sotting	System Setup		<u>بة</u> (1 0:06	
Setting	Setting				
	Bright	Standby T	ime		
	Storag	Otanoby I	inte		
	Date S	10	▲	15	
	Time	10	▼	52	
	Stand			Turn off	
	Tone				
		1/2			

Short press [] or [] set the time.

Short press [🕘] key to confirm it.

Setting	System Setup) 🖄 🚍 10:08		
	Setting			
	Brightness Adjustment	5		
	Storage Device	Host		
	Date Setting	13/05/15		
	Time Setting	10:08:24		
	Standby Time	10min.		
	Tone	Off		
	1/2			

System Setup	▶ <u>क</u> 10:08			
Setting				
Brightness Adjustment	5			
Storage Device	Host			
Date Setting	13/05/15			
Time Setting	10:08:35			
Standby Time	5min.			
Tone	Off			
1/2				
	System Setup Setting Brightness Adjustment Storage Device Date Setting Time Setting Standby Time Tone 1/2			


5.8.6 Tone

Short press [] or [] key to move to "**Tone**", and then short press [] key to access the setting.

Setting	System Setup) 🖄 🚍 10:08
	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	13/05/15
	Time Setting	10:08:53
	Standby Time	Never Turn off
	Tone	Off
	1/2	

Setting	System Setup		🕨 🆄 📥 10:09	
Setting		Setting		
	Bright Storag Date S Time Stand Tone	A diverse out Tone □ ON ☆ OFF	ς	'15 :53 Turn off
		1/2		



Short press [] or [] key to turn on/off tone.



Short press [-] key to confirm it.

Setting	System Setup	🕪 🖄 🚍 10:09
	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	13/05/15
	Time Setting	10:09:24
	Standby Time	Never Turn off
	Tone	On
	1/2	



Short press [) key to discard the setting and return to the setting display.

Setting	System Setup	🕨 🖄 📥 10:08
	Setting	
	Brightness Adjustment	5
	Storage Device	Host
	Date Setting	13/05/15
	Time Setting 10:08:53	
	Standby Time Never Turn off	
	Tone	Off
	1/2	



5.8.7 Storage Space

Short press [] or [] key to move to "**Storage Space**", and then short press [] key to check the remaining space in the Host and USB device.







The display automatically returns to the setting display after 3 seconds.

Setting	System Setup	🕨 🖄 🚍 10:10
	Setting	
	Storage Space Default Factory Setting	
	2/2	



5.8.8 Default Factory Setting

Short press [] or [] key to move to "Default Factory Setting", and then short press [] key to access the setting.



Setting	System Setup) 🖄 📼 10:11
Setting	Settin	g
	Storage Concerning Default Factory Setting	
	Erase All Previous Setting ?	
	🗆 Yes 🖸	No
	2/2	



Short press [] or [] key to select "Yes".



Short press [🕘] key to confirm it.



Back to the setting display.





5.9 System Information

Short press [] or [] key to select System Information



Short press [-] key to enter into the display of system information.

System Information	۵9:56 📼 🖄 🕨
Model Number ORL500	Software/Firmware Version Software Version: V1.1 Firmware Version: V1.1
Serial Number	Hardware Version
T2001210003	Controller Version : V1.1