

Manual

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Install and Uninstall

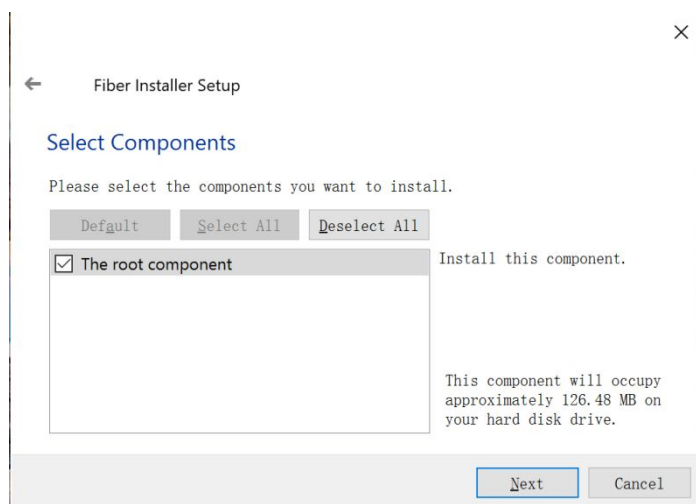
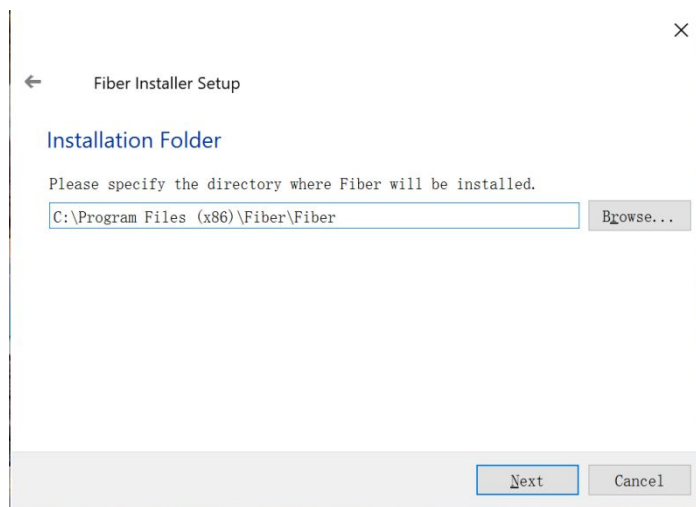
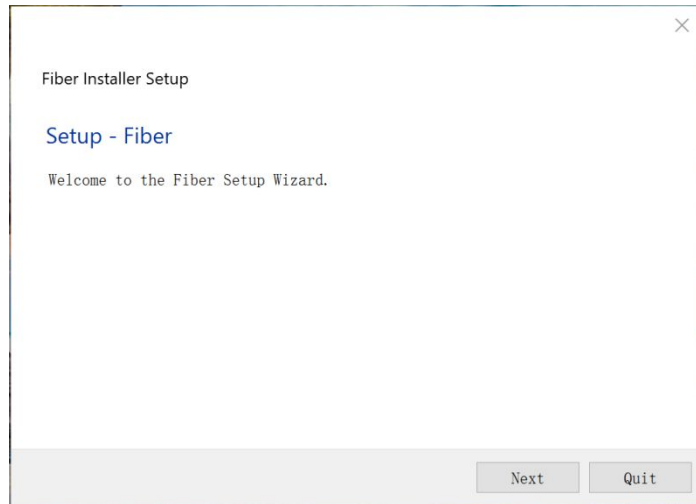
1. Operation Environment

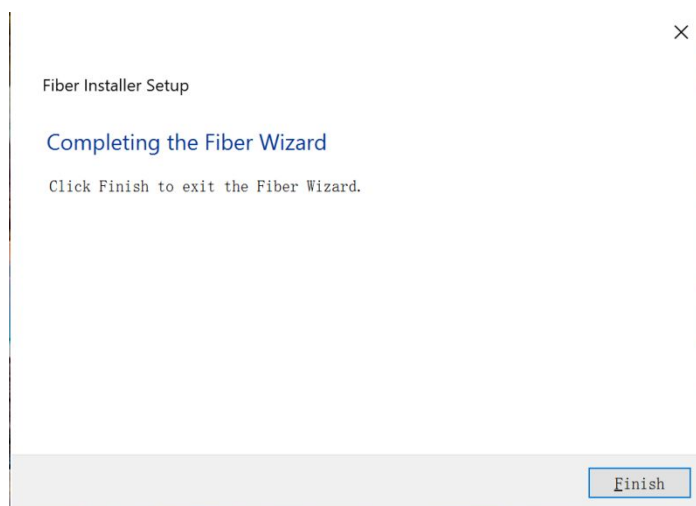
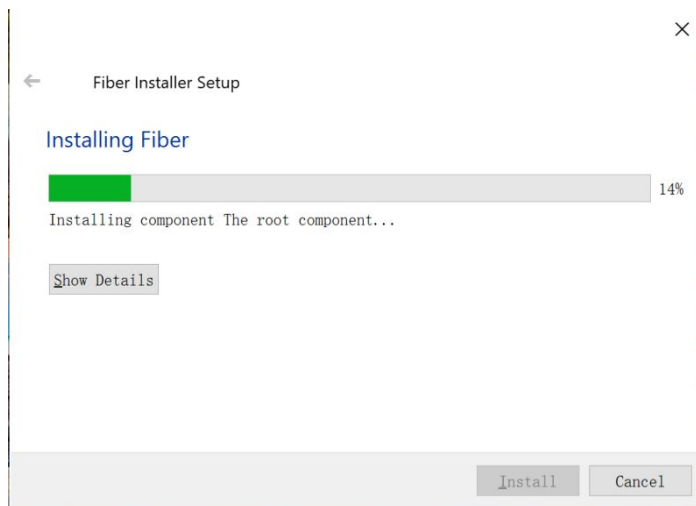
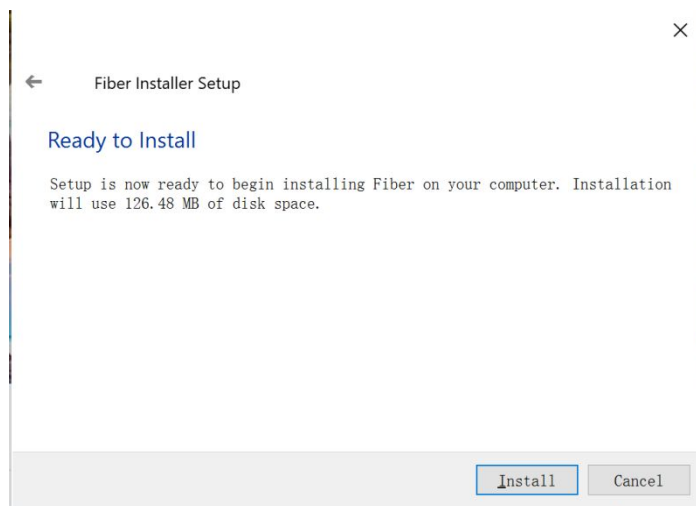
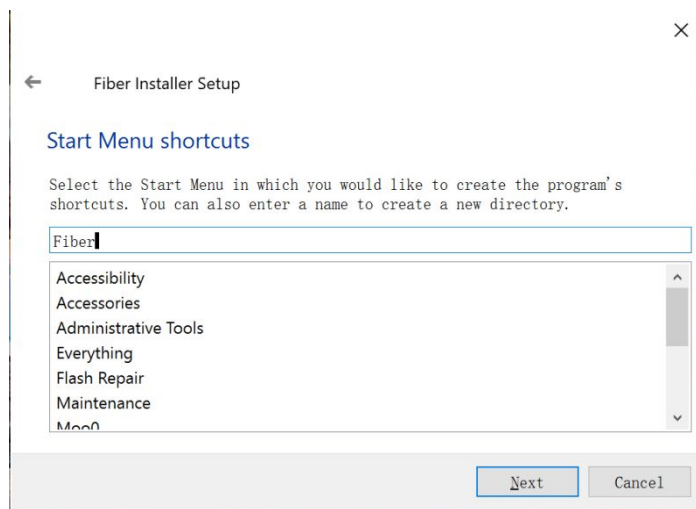
Operation System:

Windows 7 or Windows 10 (32 bit/64 bit)

2. Install

Double-click the Fiber Installer program installation package, the below interface will appear.





3. Uninstall

There are two methods to uninstall the software if it has been installed.

1)Startup—OTDR Assistant for PC—Uninstall OTDR Assistant for PC

2)Startup—Control Panel—Add/Remove Programs—Choose OTDR Assistant for PC—Click to delete

Start and Exit

1. Start

There are two methods to Start the software if it has been installed.

- 1) Desktop Shortcut
- 2) Startup—Programs—Fiber.exe

2. Exit

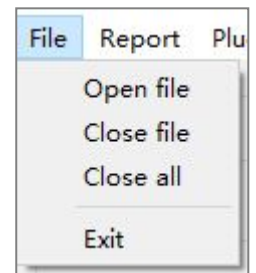
- 1) File—Close
- 2) Click on the (X) in the upper right corner of your screen

Interface Layout

1. Menu

1) File

- a) Open file (max. twenty traces in one interface)
 - i. File—Open file—Open the trace file (*.sor) .
 - ii. After selecting a file , hold down the left mouse button and drag the file into the main interface to open the file .
- b) Close file
Close the selected file
- c) Close all
Close all the working files
- d) Exit

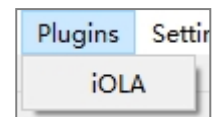


2) Report

Enter the report export interface

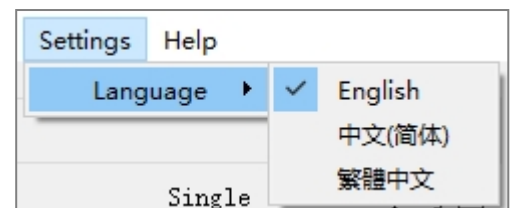
3) Plugins

- a) iOLA
Enter the iOLA interface



4) Settings

- a) Language
The language can be switched when the waveform file is not opened



5) Help

- a) Version
Check the software version

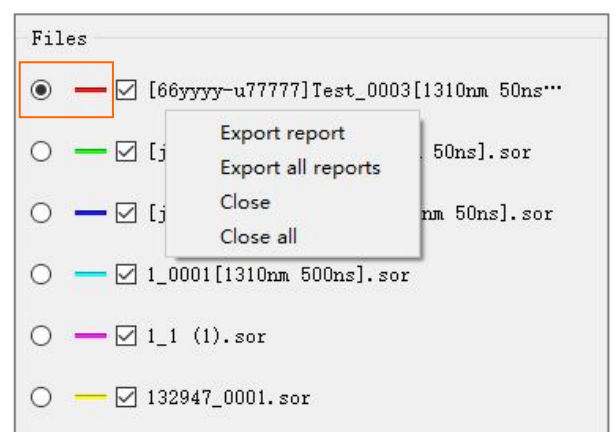
2. File List

1) Multi Trace

Present multiple traces in one interface.

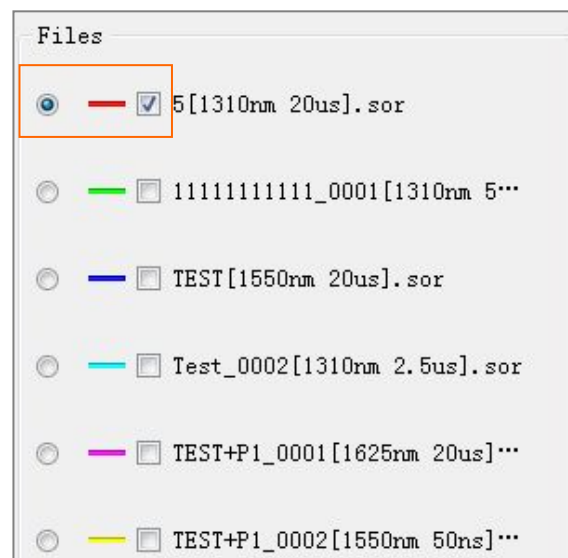
2) Selected Trace

- a) Left click to select trace
The trace info like Measurement Condition, Marker, Event List will appear when the trace is selected (left click on the red box) , and Marker A, Marker B, Marker a, Marker b will be connected.
- b) Right click to operate
 - i. Export report: Export the report of the selected trace file
 - ii. Export all report: Export report of all trace files
 - iii. Close: close the selected trace file
 - iv. Close All: close all the working files



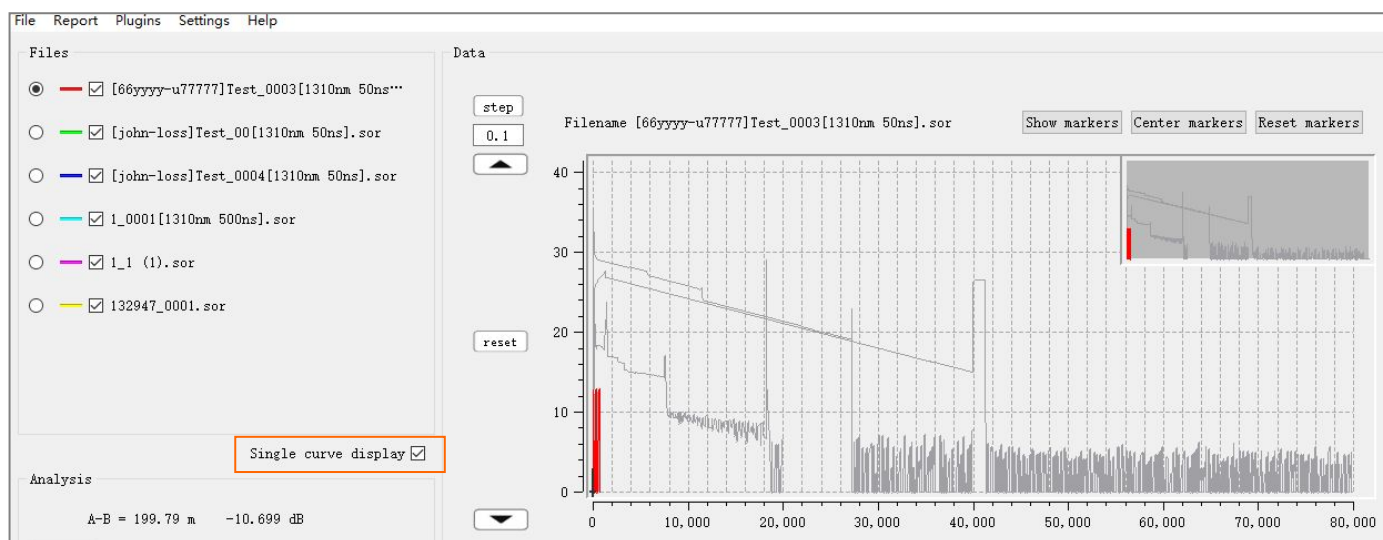
3) Single Trace Display

Present the selected one trace in the interface
(Waveform shown on checked , unchecked hidden)



4) Single Curve Display

Select single curve display, the selected waveform curve in the waveform area will be displayed in red, and the rest of the curves will be displayed in gray, as shown in the figure below.



3. Trace Analysis

The distance and attenuation between marker A and B.

Loss

4 points event loss: marker a , A , b and B in 4 points algorithm . Move the markers appropriately , the difference between the LSA value in " a , A " and " b , B " can be used to judge the loss more accurately.

A-B LSA loss: marker A and B in 2 points algorithm . Calculate the difference between A and B by the LSA slope.

Attenuation

2 points attenuation: calculate the real attenuation between marker A and B , then unitized to the loss per kilometer to show that the noise interference is greater.

A-B LSA attenuation: obtained after calculating the LSA slope between marker A and B, and after unitization, the attenuation is relatively stable.

Analysis	
A-B = 199.79 m	-10.699 dB

Loss	Atten.	Refl.	ORL
4 points event loss			0.000 dB
A-B LSA loss			-0.364 dB

Loss	Atten.	Refl.	ORL
2 points attenuation			-53.551 dB/km
A-B LSA attenuation			-1.824 dB/km

Reflectance: marker a, A and B in 3 points algorithm . Set " a , A " at the flat position before reflection, the starting reflectance is obtained after LSA average, and set B in the highest point of reflection to show the reflectance value.

Loss	Atten.	Refl.	ORL
Reflectance		-41.212 dB	

ORL

Total ORL: the ORL value in the entire circuit.

A-B ORL: the ORL value between marker A and B.

Loss	Atten.	Refl.	ORL
Total ORL		--.-- dB	
A-B ORL		0.000 dB	

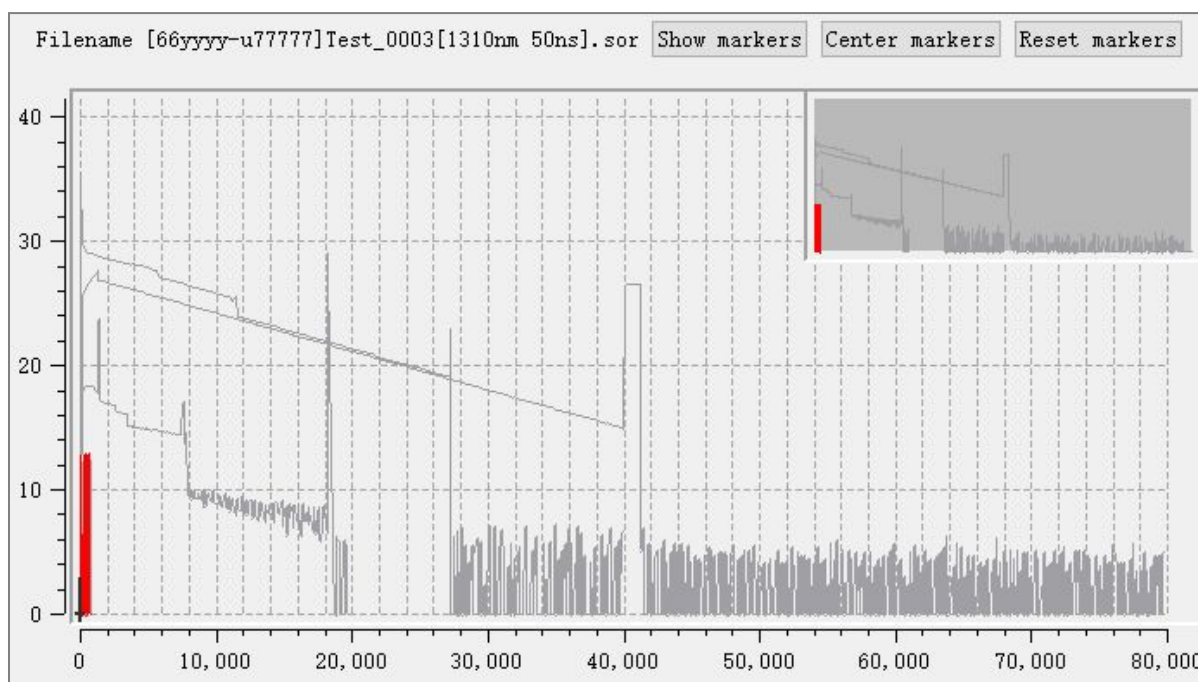
4. Data list

1) Marker

The marker distance is displayed left of the marker

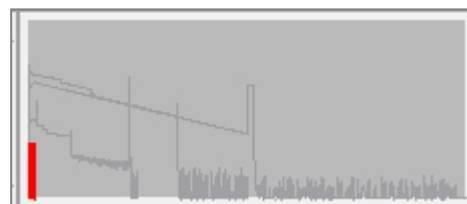
2) Buttons

- Show/Hide markers: Hide/show marker A , B , a and b.
- Center markers : Set Marker A , B , a and b in the center of the waveform.
- Reset markers: reset the marker A , B , a , b and place them at the beginning of the waveform.



3) Overall Trace

Display the overall trace



4) Step(Longitudinal movement amplitude of selected waveform)

- "Step" button: click to switch between 0.1 , 1 and 5
- Step input box: manual input step value, can set data range[0.05,10]
- Up/down button: the selected waveform moves up/down
- "reset" button: when the waveform is shifted, click to reset.



5. Event List Linear view











- The total distance is shown on the right side of the linear view.
- Click "◀" and "▶" on the left and right sides to view all event icons.
- Left click the event icon, locate Marker A , B , a and b of the selected event in Trace Graph , at the same time , select the current event in the event list .

6. Event List

1) Event

17 Event

Event	Parameters	Total info.	Env. info.	Mark info.			
No.	Type	Dist./Len.(km)	Loss(dB)	Ref.(dB)	Atten.(dB/km)	C.Loss(dB)	Sub-Event
1	 Start	0.00000	0.000	-44.729	--,--	0.000	
	 Section	(1.00045)	0.187	--,--	0.187	0.187	
2	 Attn	1.00045	0.414	--,--	--,--	0.601	
	 Section	(0.33178)	0.062	--,--	0.187	0.663	
3	 MShape	1.33223	0.667	--,--	--,--	1.330	
	 Section	(1.22249)	0.220	--,--	0.180	1.550	
4	 Attn	2.55472	0.539	--,--	--,--	2.089	

- Left/Right Click
Select the event line , locate Marker A , B , a and b of the selected event in Trace Graph , at the same time , select the current event in the event list linear view.
- Scroll mouse wheel
Select event : check all events
Click event title menu : toggle events menu
- When the event interval is very close, merge event (M-type) will be generated. Click the "⋮" icon, and the data of neutron event of merge event can also be viewed in the event list.

2) Parameters

Event	Parameters	Total info.	Env. info.	Mark info.
	Wavelength	1550nm		
	Pulse width	100ns		
	Avg. time	60s		
	Range	20km		
	Refractive rate	1.46832		
	Max reflection threshold	-75.0		
	Splice loss	0.05		
	End threshold	6.0		
	Backscatter Coefficient	-82.1		

3) Total info.

Event	Parameters	Total info.	Env. info.	Mark info.
	Total dist.	18.20720km		
	Total loss	10.729dB		
	Total ORL	35.019dB		
	Pass/Fail	--.---		
	SOR version	212		

4) Env. info.

Some parameters in the red box can be edited

Event	Parameters	Total info.	Env. info.	Mark info.
	Position A name			
	Position A operator			
	Position B name			
	Position B operator			
	Direction	B->A		
	Loc. tech.			
	Lon./Lat.			
	Temp./Hum.	--.---		

5) Mark info.

Some parameters in the red box can be edited

Event	Parameters	Total info.	Env. info.	Mark info.
	Company	sdcd		
	Customer			
	Cable ID			
	Fiber ID			
	Comments			

Event	Parameters	Total info.	Env. info.	Mark info.
	Company	sdcd		
	Customer			
	Cable ID			
	Fiber ID			
	Comments			

Note: For the parameters that can be edited , after selecting the edit box and entering the text , the upper right corner of the event list will display “v” and “x” , click “v” to pop up the prompt box of saving successfully , and click “x” to return to the status before editing.

✓

✗

Saved successfully!

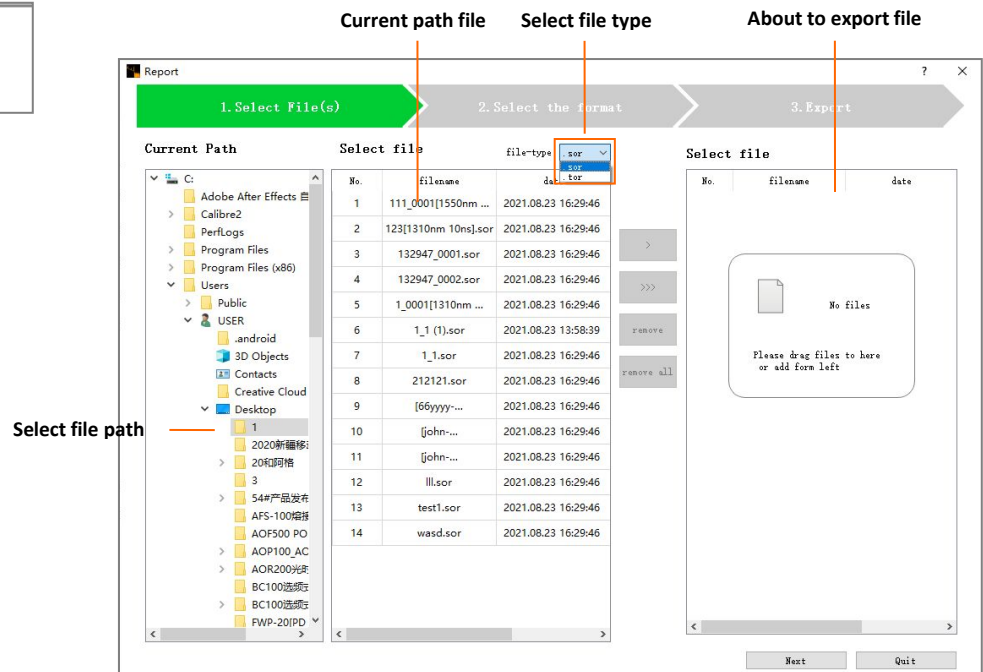
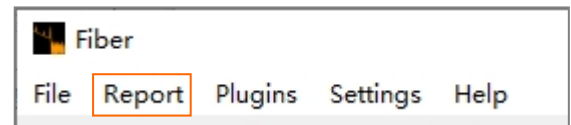
confirm

Report

1. Select Files

1) Enter the Select Files interface

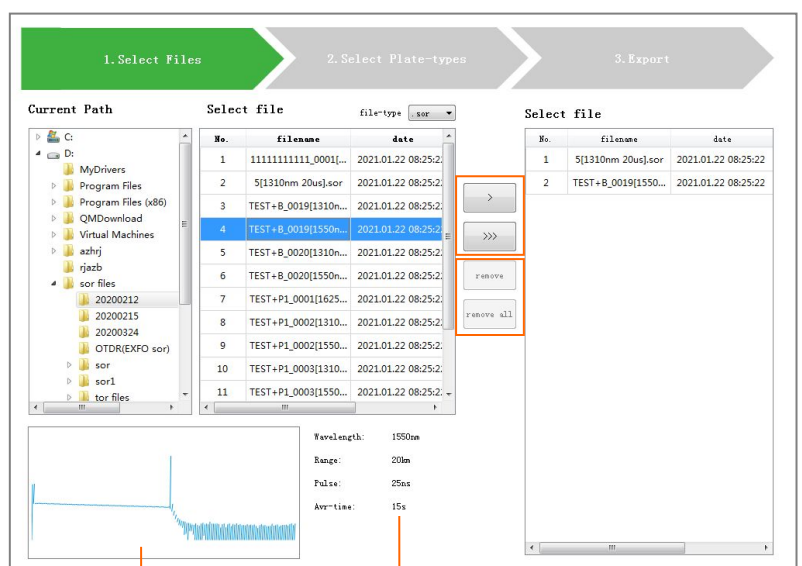
- OTDR Assistant for PC—Report—Enter the Select Files interface
- iOLA—Report—Enter the Select Files interface



2) Add export file

- When selecting files, hold down the Ctrl/Shift key to select multiple files, then the two arrow buttons in the figure below can be edited, you can add some or all of the files to the export list.
- When some files have been added to the export list, you can continue to add them after changing the file type, and can export sor and tor files at the same time.
- After selecting a file, hold down the left mouse button and drag to add files.

- When selecting files in the export list, hold down the Ctrl/Shift key to select multiple files, and then “remove” and “remove all” buttons to remove some or all of the files in the export list.



.sor file waveform preview
(.tor file cannot be previewed)

.sor file information
(.tor file cannot be displayed)

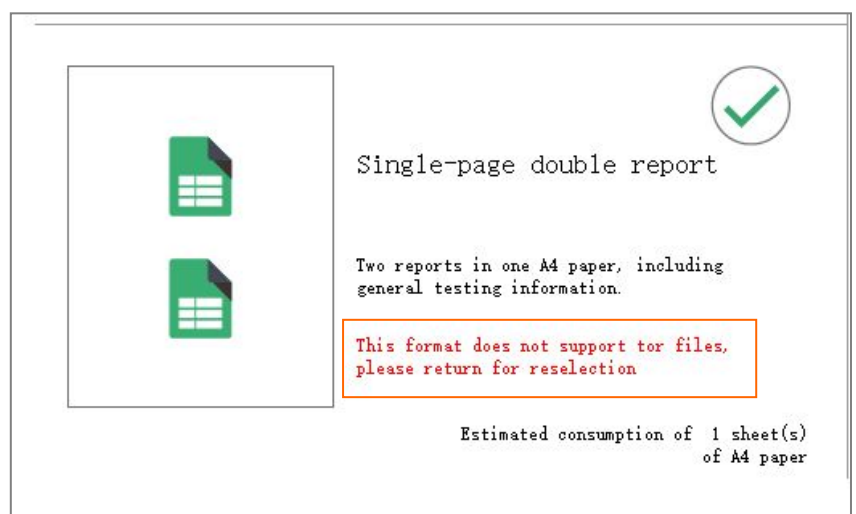
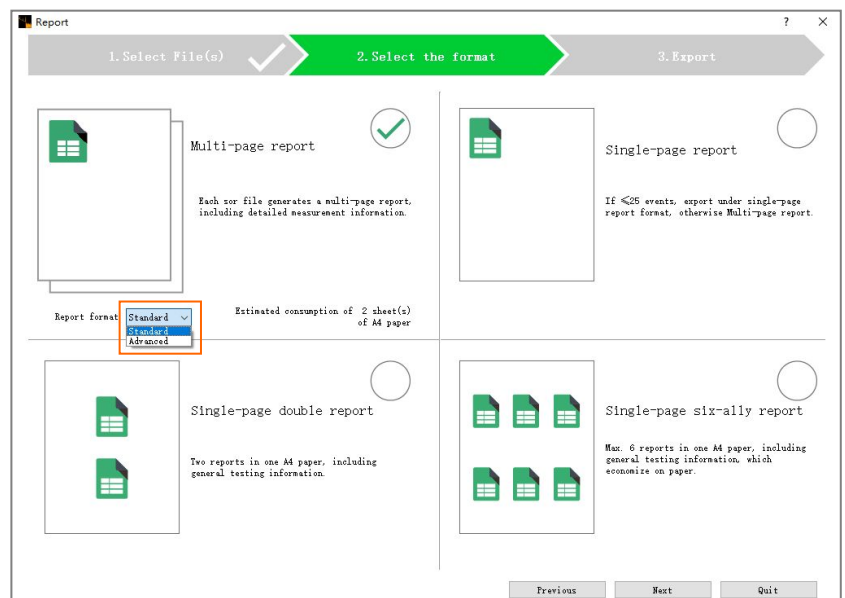
2. Select Plate-type

1) Enter Select Plate-type interface

- Select files interface and click next to enter
- OTDR Assistant for PCOpen the file right-click menu—Export report/Export all report to enter
- iOLA—Open the file right-click menu—Export report/Export all report to enter



- Export in Pdf and Xls format. Xls format includes single page, single page, double page and six pages.
- Xls format supports print preview, print, export functions. (ONLY SOR files are supported, TOR files are not supported).
- Multi-page report format available standard/advanced.



3. Export

1) Export interface

Select plate-types and click next to enter.

2) Customer information setting

- a) Use following information: Select and input information, this information will appear in all export/print reports.

If automatic accumulation is checked and the information is filled in as a number, The fiber ID in the export/print report will start to accumulate from this number. When filling in Chinese/English or blank, the optical fiber ID in the export/print report will start to accumulate from 0; If automatic accumulation is not checked, the optical fiber ID will be the actual filling content.

Fibre ID		<input checked="" type="checkbox"/> Auto accumulate	?
Fibre ID	sgfg	<input checked="" type="checkbox"/> Auto accumulate	?
Fibre ID	一号光纤	<input checked="" type="checkbox"/> Auto accumulate	?

1	0	5[1310nm 20us].sor
2	1	TEST+B_0019[1550nm 25ns].sor
3	2	TEST+B_0020[1310nm 10ns].sor
4	3	TEST+P1_0001[1625nm 20us].sor
5	4	TEST+P1_0002[1550nm 50ns].sor

Fibre ID	20	<input checked="" type="checkbox"/> Auto accumulate	?
----------	----	---	---

1	20	5[1310nm 20us].sor
2	21	TEST+B_0019[1550nm 25ns].sor
3	22	TEST+B_0020[1310nm 10ns].sor
4	23	TEST+P1_0001[1625nm 20us].sor
5	24	TEST+P1_0002[1550nm 50ns].sor

Fibre ID	ihdsz	<input type="checkbox"/> Auto accumulate	?
----------	-------	--	---

1	ihdsz	5[1310nm 20us].sor
2	ihdsz	TEST+B_0019[1550nm 25ns].sor
3	ihdsz	TEST+B_0020[1310nm 10ns].sor
4	ihdsz	TEST+P1_0001[1625nm 20us].sor
5	ihdsz	TEST+P1_0002[1550nm 50ns].sor

- b) Use the file's own information: The display information of the export/print report is the information of the original file.

3) Export option

- a) Export a file, the red box below is not shown.

Displayed when exporting multiple files

- b) When exporting multiple files and checking “Follow source file”, the report name is the same with the SOR file name; when no checking “Follow source file”, the report name is the first file name of the export list. Click the small triangle next to “Preview” to view the report name column of the preview export list.

Click to expand the list of exported files

No.	Fiber ID	filename	date	report name	export path
1		[66yyyy-u7777]Test_0003[1310nm 50ns]	2021.08.23 16.29.46	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1
2	t3标识	[john-loss]Test_00[1310nm ...	2021.08.23 16.29.46	[john-loss]Test_00[1310nm ...	C:/Users/USER/Desktop/1
3	t3	[john-loss]Test_0004[1310nm ...	2021.08.23 16.29.46	[john-loss]Test_0004[1310nm ...	C:/Users/USER/Desktop/1
4		1_0001[1310nm 500ns].sor	2021.08.23 16.29.46	1_0001[1310nm 500ns].pdf	C:/Users/USER/Desktop/1
5		1_1 (1).sor	2021.08.23 13.58.39	1_1 (1).pdf	C:/Users/USER/Desktop/1
6		132947_0001.sor	2021.08.23 16.29.46	132947_0001.pdf	C:/Users/USER/Desktop/1

No.	Fiber ID	filename	date	report name	export path
1		[66yyyy-u7777]Test_0003[1310nm ...	2021.08.23 16.29.46	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1
2	t3标识	[john-loss]Test_00[1310nm ...	2021.08.23 16.29.46	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1
3	t3	[john-loss]Test_0004[1310nm ...	2021.08.23 16.29.46	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1
4		1_0001[1310nm 500ns].sor	2021.08.23 16.29.46	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1
5		1_1 (1).sor	2021.08.23 13.58.39	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1
6		132947_0001.sor	2021.08.23 16.29.46	[66yyyy-u7777]Test_0003[1310nm ...	C:/Users/USER/Desktop/1

- c) When exporting multiple files and checking “Follow source file path”, the exported file will be stored in the location of the first sor/tor file in the file list by default; when no checking “Follow source file path”, the exported file will be stored in the location of the corresponding sor/tor file.
- d) The report format include .pdf and .xls, of which .xls format is not supported.



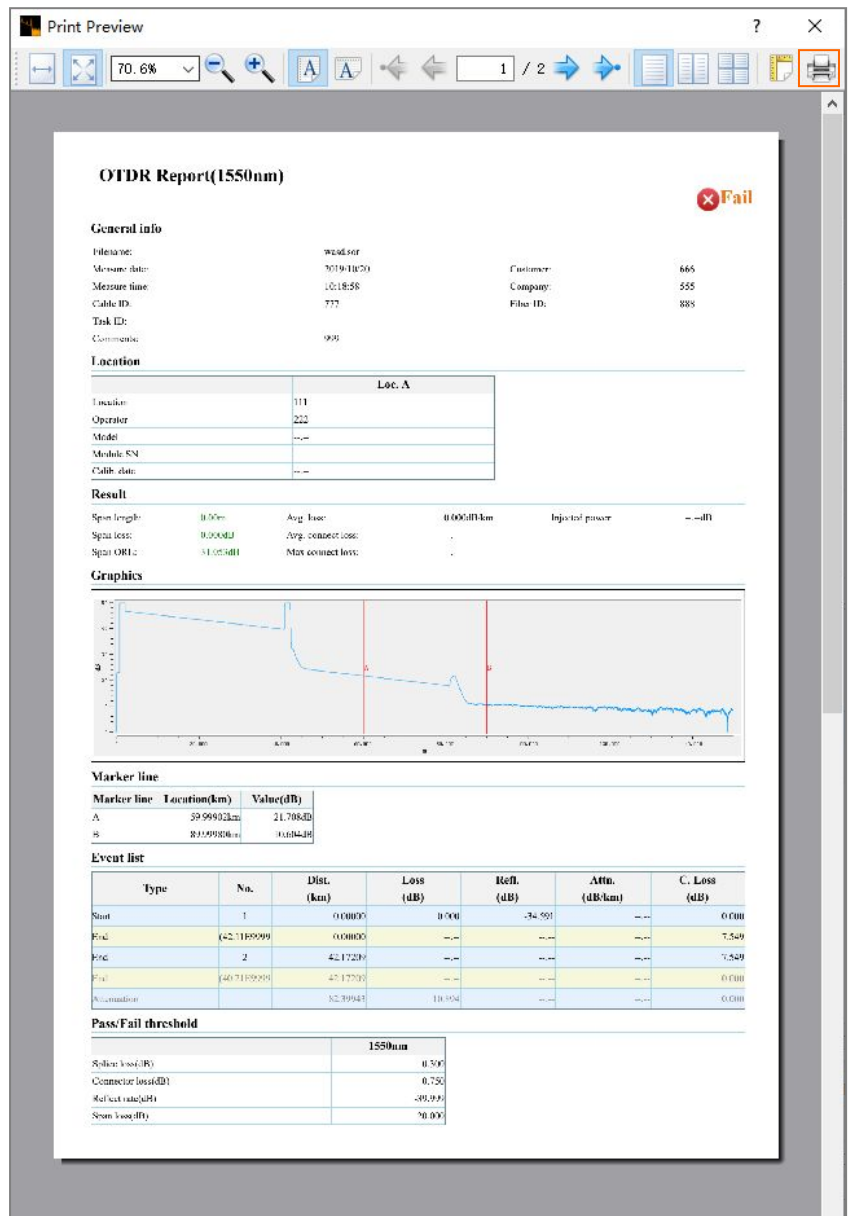
4) Export/Print report

- a) Print preview

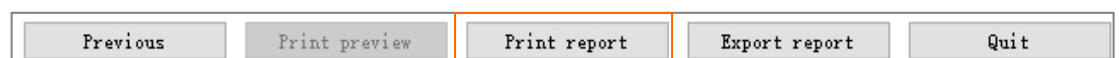
When selecting a file in the preview export list, click the print preview button to view OTDR report.

No.	Fiber ID	filename	date	report name	export path
1		III.sor	2021.08.23 16.29.46	III_0001.pdf	C:/Users/USER/Desktop/1
2		test1.sor	2021.08.23 16.29.46	III_0002.pdf	C:/Users/USER/Desktop/1
3	888	wasd.sor	2021.08.23 16.29.46	III_0003.pdf	C:/Users/USER/Desktop/1
4		132947_0001.sor	2021.08.23 16.29.46	III_0004.pdf	C:/Users/USER/Desktop/1
5		132947_0002.sor	2021.08.23 16.29.46	III_0005.pdf	C:/Users/USER/Desktop/1
6		212121.sor	2021.08.23 16.29.46	III_0006.pdf	C:/Users/USER/Desktop/1

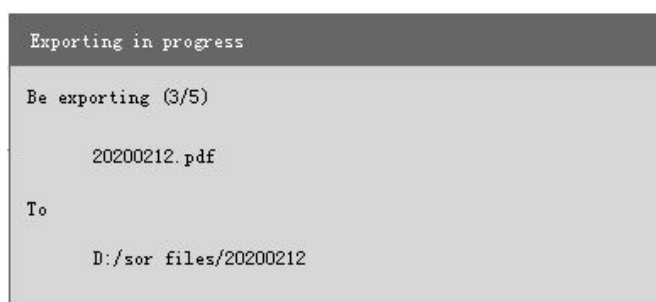
Previous
Print preview
Print report
Export report
Quit



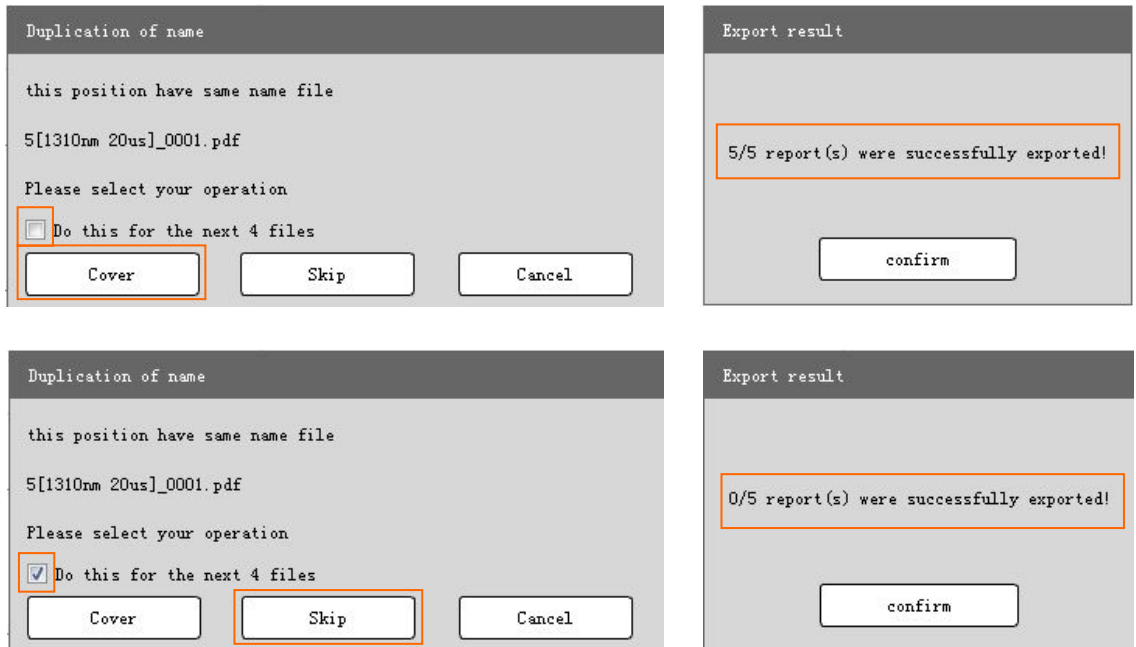
- b) Click "Print report" or the printer icon in the upper right corner of the print preview interface to print. At this time, all the file reports in the preview list will be printed by default.



- c) Click "Export report" to pop up the "exporting in progress" prompt box. After exporting, the "export result" prompt box will pop up to inform whether the file is exported successfully.



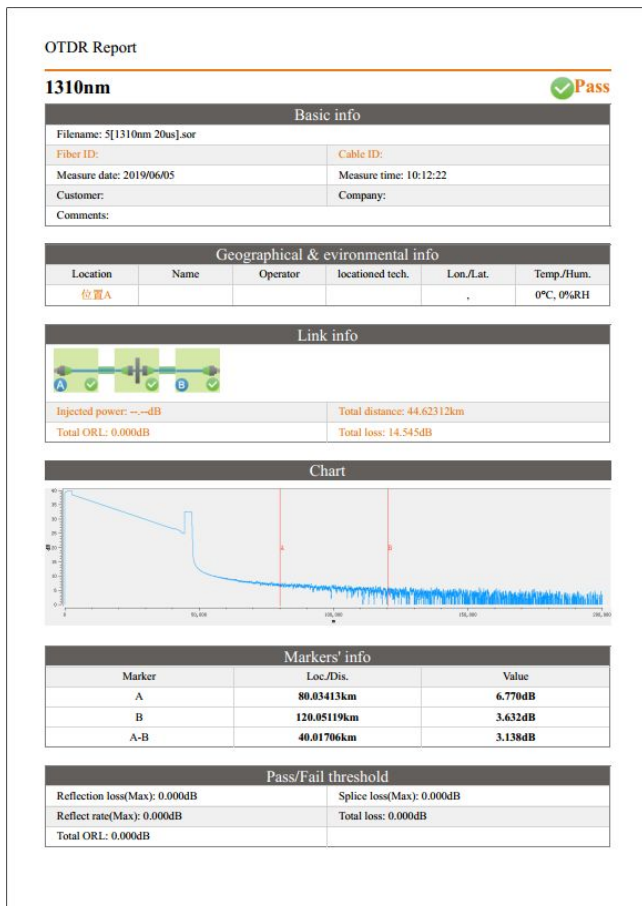
- d) When there are files with the same name in the report export path, click export report to pop up the rename dialog (when no selecting “Do this for the next n files”, and click “Skip”, a rename dialog will pop up for each exported file, which needs to be confirmed. If selected, all files will be exported without multiple confirmation). After exporting, the “export result” prompt box will pop up to check whether the file has been exported successfully.



4. Sample report

1) Sor file

- a) Multi-page report (* PDF export format only)
Advanced Report format



Measurement parameters						
Wavelength: 1310nm			Pulse width: 20.0µs			
Range: 200km			Avg. time: 180s			

Measurement settings						
Refractive rate: 1.46770			Loss threshold: 0.030dB			
Backscatter coefficient: -79.500dB			End threshold: 3.000dB			
Reflect rate(Max): -65.000dB						

Events' list						
No.	Type	Dist.(km)	Loss(dB)	Ref.(dB)	Attn.(dB/km)	C. Loss(dB)
1	Start	0.00000	0.000	-32.540	--	0.000
	Section	(40.63239)	12.921	--	0.318	12.921
2	Reflect	40.63239	1.624	-35.066	--	14.545
	Section	(3.99073)	0.000	--	0.000	14.545
3	End	44.62312	--	-18.728	--	14.545

Signature: _____ Date: 2020/09/01

Standard report format

OTDR Report(1310nm) Pass

Generic info

Filename: S\1310nm 2ba\ sor
 Measure date: 20190605
 Measure time: 10:12:22
 Cable ID:
 Assignment:
 Annotation:

Location

Location: Loc. A
 Operator:
 Model:
 Serial No.:
 Calib. date:

Result

Span length: 44.6212km Avg. loss: 0.325dB/km Injected power: ---dB
 Span loss: 14.545dB Avg. connect loss: ---
 Span ORL: 0.000dB Max connect loss: ---

Graphics



Marker line

Marker line	Location(km)	Value(dB)
A	40.63239	6.770dB
B	44.62119	3.632dB

Events' list

Type	No.	Dist. (km)	Loss (dB)	Refl. (dB)	Attn. (dB/km)	C. Loss (dB)
Start	1	0.00000	0.000	-32.540	---	0.000
Section		(40.63239)	12.921	---	0.318	12.921
Reflect	2	40.63239	1.624	-35.066	---	14.545
Section		(3.99073)	0.000	---	0.000	14.545
End	3	44.62312	---	-18.728	---	14.545

Pass/Fail threshold

	1310nm
Connect Loss(dB)	0.000
Connector loss(dB)	0.000
Reflect rate(dB)	0.000
Span loss(dB)	0.000

1310nm

Span ORL(dB) 0.000

Measurement parameters

Wavelength(nm)	1310
Range(km)	200.0
Pulse width(us)	20000
Time(s)	180

Measurement settings

Refractive rate	1.467700
Backscatter coefficient(dB)	-79.50
Connect loss threshold(dB)	0.030
Reflect rate(dB)	-45.0
End threshold(dB)	3.000

Signature: _____ Date: 20200901

b) Single page single link report (* only SUPPORTS XLS export format)

The number of 25 events(including the number of sub-events) will display two pages.

OTDR Report OTDR Assistant for PC V0.1.8.0

Filename: test1.sor
 Location: Operator: Measure time: 2020/02/28 09:49:00
 Fiber ID: Cable ID: Customer:
 Comments: Company: Module SN:

1 Link Info

TD: 852.52m Total loss: 4.283dB Total ORL: 36.744dB Event Number: 12

2 Chart



3 Measurement parameters

WL: 1625nm	Avg. time: 15s	Splice loss threshold: 0.050dB
Range: 1km	Refractive rate: 1.46870	Backscatter coefficient: -84.500dB
Pulse: 10ns	End threshold: 15.000dB	Reflection threshold(Max): -75.000dB

4 Event list

No.	Type	Dist(km)	Loss	Reflect	Attn	C.Loss
1	Start	0.00000	0.380	-55.522	---	0.380
2	Reflect	0.10094	0.301	-38.232	---	0.699
3	Reflect	0.15197	0.330	-63.358	---	1.086
4	Reflect	0.25228	0.383	-59.338	---	1.493
5	Reflect	0.30219	0.558	-57.130	---	2.120
6	Reflect	0.40250	0.287	-67.036	---	2.421
7	Reflect	0.45241	0.089	-65.814	---	2.557
8	Reflect	0.55240	0.380	-60.408	---	2.954
9	Reflect	0.60248	0.967	-59.300	---	3.930
10	Reflect	0.70262	0.106	-71.464	---	4.053
11	Reflect	0.75222	0.191	-47.112	---	4.260
12	End	0.85252	---	-56.228	---	4.283

Signature: _____ Page: 1/1 Total: 2/6 Print time: 2021/09/03 09:46:22

c) Single page double report (* XLS export format only supported)

OTDR Report				OTDR Assistant for PC V0.1.8.0			
Filename:	III.sor	No.	Type	Dist(km)	Loss	Reflect	Atten
Measure time:	2020/08/04 16:33:35	1	Start	0.00000	0.000	---	---
Location:	66www						
Operator:							
Customer:							
Company:							
Module SN:							
Comments:							
Fiber ID:		Cable ID:					
TD:	0.00m	Total loss:	0.000dB				
Event Number:	1	Total ORL:	0.000dB				
WL:	1310nm	Avg. time:	5s				
Range:	1km	Refractive rate:	1.46770				
Pulse:	50ns	Backscatter coefficient:	-79.600dB				
Filename:	test1.sor	No.	Type	Dist(km)	Loss	Reflect	Atten
Measure time:	2020/02/28 09:49:00	1	Start	0.00000	0.380	-55.522	---
Location:		2	Reflect	0.10094	0.301	-38.232	---
Operator:		3	Reflect	0.15197	0.330	-63.358	---
Customer:		4	Reflect	0.25228	0.383	-59.338	---
Company:		5	Reflect	0.30219	0.558	-57.130	---
Module SN:		6	Reflect	0.40250	0.287	-67.036	---
Comments:		7	Reflect	0.45241	0.089	-85.814	---
		8	Reflect	0.55240	0.380	-60.408	---
		9	Reflect	0.60248	0.967	-59.300	---
Fiber ID:		10	Reflect	0.70262	0.106	-71.464	---
TD:	852.52m	11	Reflect	0.75222	0.191	-47.112	---
Event Number:	12	12	End	0.85252	---	-56.228	---
Total loss:	4.283dB						
Total ORL:	36.744dB						
WL:	1625nm	Avg. time:	15s				
Range:	1km	Refractive rate:	1.46870				
Pulse:	10ns	Backscatter coefficient:	-84.500dB				
Signature:		Page 1 / 3		Print time:	2021/09/03 09:49:41		

d) Single-page six-page report (* supports XLS export format only)

OTDR Report				OTDR Assistant for PC V0.1.8.0			
Filename:	III.sor	No.	Type	Dist(km)	Loss	Reflect	Atten
Measure time:	2020/08/04 16:33:35	1	Start	0.00000	0.000	---	---
Location:	Menny						
Operator:							
Customer:							
Company:							
Module SN:							
Comments:							
Fiber ID:		Cable ID:					
WL:	1310nm	Range:	1km	Pulse:	50ns	Avg:	5s
Backscatter rate:	-79.600dB	Backscatter coefficient:	-79.600dB				
No.	Type	Dist(km)	Loss	Reflect	Atten	C.Loss	
1	Start	0.00000	0.000	---	---	0.000	
2	Reflect	0.10094	0.301	-38.232	---	0.699	
3	Reflect	0.15197	0.330	-63.358	---	1.086	
4	Reflect	0.25228	0.383	-59.338	---	1.493	
5	Reflect	0.30219	0.558	-57.130	---	2.120	
6	Reflect	0.40250	0.287	-67.036	---	2.421	
7	Reflect	0.45241	0.089	-85.814	---	2.557	
8	Reflect	0.55240	0.380	-60.408	---	2.954	
9	Reflect	0.60248	0.967	-59.300	---	3.990	
10	Reflect	0.70262	0.106	-71.464	---	4.053	
11	Reflect	0.75222	0.191	-47.112	---	4.260	
12	End	0.85252	---	-56.228	---	4.283	
Filename:	test1.sor	No.	Type	Dist(km)	Loss	Reflect	Atten
Measure time:	2020/02/28 09:49:00	1	Start	0.00000	0.380	-55.522	---
Location:		2	Reflect	0.10094	0.301	-38.232	---
Operator:		3	Reflect	0.15197	0.330	-63.358	---
Customer:		4	Reflect	0.25228	0.383	-59.338	---
Company:		5	Reflect	0.30219	0.558	-57.130	---
Module SN:		6	Reflect	0.40250	0.287	-67.036	---
Comments:		7	Reflect	0.45241	0.089	-85.814	---
		8	Reflect	0.55240	0.380	-60.408	---
		9	Reflect	0.60248	0.967	-59.300	---
Fiber ID:		10	Reflect	0.70262	0.106	-71.464	---
TD:	852.52m	11	Reflect	0.75222	0.191	-47.112	---
Event Number:	12	12	End	0.85252	---	-56.228	---
Total loss:	4.283dB						
Total ORL:	36.744dB						
WL:	1625nm	Range:	1km	Pulse:	10ns	Avg:	15s
Backscatter rate:	-84.500dB	Backscatter coefficient:	-84.500dB				
No.	Type	Dist(km)	Loss	Reflect	Atten	C.Loss	
1	Start	0.00000	0.380	-55.522	---	0.380	
2	Reflect	0.10094	0.301	-38.232	---	0.699	
3	Reflect	0.15197	0.330	-63.358	---	1.086	
4	Reflect	0.25228	0.383	-59.338	---	1.493	
5	Reflect	0.30219	0.558	-57.130	---	2.120	
6	Reflect	0.40250	0.287	-67.036	---	2.421	
7	Reflect	0.45241	0.089	-85.814	---	2.557	
8	Reflect	0.55240	0.380	-60.408	---	2.954	
9	Reflect	0.60248	0.967	-59.300	---	3.990	
10	Reflect	0.70262	0.106	-71.464	---	4.053	
11	Reflect	0.75222	0.191	-47.112	---	4.260	
12	End	0.85252	---	-56.228	---	4.283	
Filename:	test2.sor	No.	Type	Dist(km)	Loss	Reflect	Atten
Measure time:	2020/02/28 09:49:00	1	Start	0.00000	0.380	-55.522	---
Location:		2	Reflect	0.10094	0.301	-38.232	---
Operator:		3	Reflect	0.15197	0.330	-63.358	---
Customer:		4	Reflect	0.25228	0.383	-59.338	---
Company:		5	Reflect	0.30219	0.558	-57.130	---
Module SN:		6	Reflect	0.40250	0.287	-67.036	---
Comments:		7	Reflect	0.45241	0.089	-85.814	---
		8	Reflect	0.55240	0.380	-60.408	---
		9	Reflect	0.60248	0.967	-59.300	---
Fiber ID:		10	Reflect	0.70262	0.106	-71.464	---
TD:	852.52m	11	Reflect	0.75222	0.191	-47.112	---
Event Number:	12	12	End	0.85252	---	-56.228	---
Total loss:	4.283dB						
Total ORL:	36.744dB						
WL:	1625nm	Range:	1km	Pulse:	10ns	Avg:	15s
Backscatter rate:	-84.500dB	Backscatter coefficient:	-84.500dB				
No.	Type	Dist(km)	Loss	Reflect	Atten	C.Loss	
1	Start	0.00000	0.380	-55.522	---	0.380	
2	End	0.85252	---	-56.228	---	4.283	
Filename:	test3.sor	No.	Type	Dist(km)	Loss	Reflect	Atten
Measure time:	2020/02/28 09:49:00	1	Start	0.00000	0.380	-55.522	---
Location:		2	Reflect	0.10094	0.301	-38.232	---
Operator:		3	Reflect	0.15197	0.330	-63.358	---
Customer:		4	Reflect	0.25228	0.383	-59.338	---
Company:		5	Reflect	0.30219	0.558	-57.130	---
Module SN:		6	Reflect	0.40250	0.287	-67.036	---
Comments:		7	Reflect	0.45241	0.089	-85.814	---
		8	Reflect	0.55240	0.380	-60.408	---
		9	Reflect	0.60248	0.967	-59.300	---
Fiber ID:		10	Reflect	0.70262	0.106	-71.464	---
TD:	852.52m	11	Reflect	0.75222	0.191	-47.112	---
Event Number:	12	12	End	0.85252	---	-56.228	---
Total loss:	4.283dB						
Total ORL:	36.744dB						
WL:	1625nm	Range:	1km	Pulse:	10ns	Avg:	15s
Backscatter rate:	-84.500dB	Backscatter coefficient:	-84.500dB				
No.	Type	Dist(km)	Loss	Reflect	Atten	C.Loss	
1	Start	0.00000	0.380	-55.522	---	0.380	
2	End	0.85252	---	-56.228	---	4.283	
Signature:		Page 1 / 1		Print time:	2021/09/03 09:51:50		

2) Tor files

- Multi-page report (* PDF export format only)
Advanced Report format

Optical Link Report

Basic info					
Filename: TESTB_0010.tor					
Fibre ID:			Cable ID:		
Measure date: 2021/01/06			Measure time: 11:08:58		
Customer:			Company:		
Comments:					

Geographical & environmental info					
Location	Name	Operator	Located Tech.	Lon./Lat.	Temp./Hum.
Loc. A					---

Result			
Total length:	10.49642km		
Wavelength(nm)	Total loss(dB)	Total ORL(dB)	Avg.loss(dB/km)
1310nm	6.71100	---	0.26096

Link info

Chart

Events' list				
No.	Type	Dist.	Loss(dB)	Reflect(dB)
			1310nm	1310nm
1	Connector	0.00000	0.641	---
	Fiber	0.13213	---	---

Standard report format

Events' list				
No.	Type	Dist.	Loss(dB)	Reflect(dB)
			1310nm	1310nm
2	Connector	0.13213	0.665	---
2-1	Connector	0.13213	---	-55.388
2-2	Connector	0.13580	5.169	-58.484
	Fiber	0.02426	---	---
3	Connector	0.15639	0.751	-53.402
Connector is dirty Clean the connector and reconnect it if needed				
	Fiber	10.30650	---	---
4	Connector	10.46289	0.573	---
4-1	Connector	10.46289	---	-57.694
4-2	Connector	10.46656	10.182	-57.722
	Fiber	0.03353	---	---
5	Connector	10.49642	---	-15.834

Pass/Fail threshold	
Items	threshold(dB)
Reflect loss(Max)	0.75
Splice loss(Max)	0.30
Reflect threshold(Max)	-40.00
Link loss	20.00

Measurement settings	
Items	1310nm
Refractive rate	1.46770
Backscatter coefficient(dB)	-79.5
Splice loss threshold(dB)	0.05
Reflect threshold(dB)	-70.00
End threshold(dB)	5.00
Splitter setting	Point to Point

Signature: _____ Date: 2021/02/25

Optical Link Report

Generic info

Filename: TESTB_0010.tor
Measure date: 2021/01/06
Measure time: 11:08:58
Cable ID: ---
Task ID: ---
Annotation: ---

Customer: ---
Company: ---
Fiber ID: ---

Location

Loc. A	
Location:	
Operator	
Model	
Serial No.	
Cable date	

Result

Span length: 10.49642km

Wavelength(nm)	Span loss(dB)	Span ORL(dB)	Avg. loss(dB/km)
1310	6.711	---	0.26096

Graphics

Events' list

No.	Type	Dist. km	Loss(dB)	Reflect(dB)
			1310nm	1310nm
1	Connector	0.00000	0.641	---
	Fiber	0.13213	---	---
2	Connector	0.13213	0.665	---

No.	Type	Dist. km	Loss(dB)	Reflect(dB)
			1310nm	1310nm
2-1	Connector	0.13213	---	-55.388
2-2	Connector	0.13580	5.169	-58.484
	Fiber	0.02426	---	---
3	Connector	0.15639	0.751	-53.402
Connector is dirty Clean the connector and reconnect it if needed				
	Fiber	10.30650	---	---
4	Connector	10.46289	0.573	---
4-1	Connector	10.46289	---	-57.694
4-2	Connector	10.46656	10.182	-57.722
	Fiber	0.03353	---	---
5	Connector	10.49642	---	-15.834

Pass/Fail threshold

Splice loss(dB)	0.30
Connector loss(dB)	0.75
Reflect rate(dB)	-40.00
Span loss(dB)	20.00

Measure settings

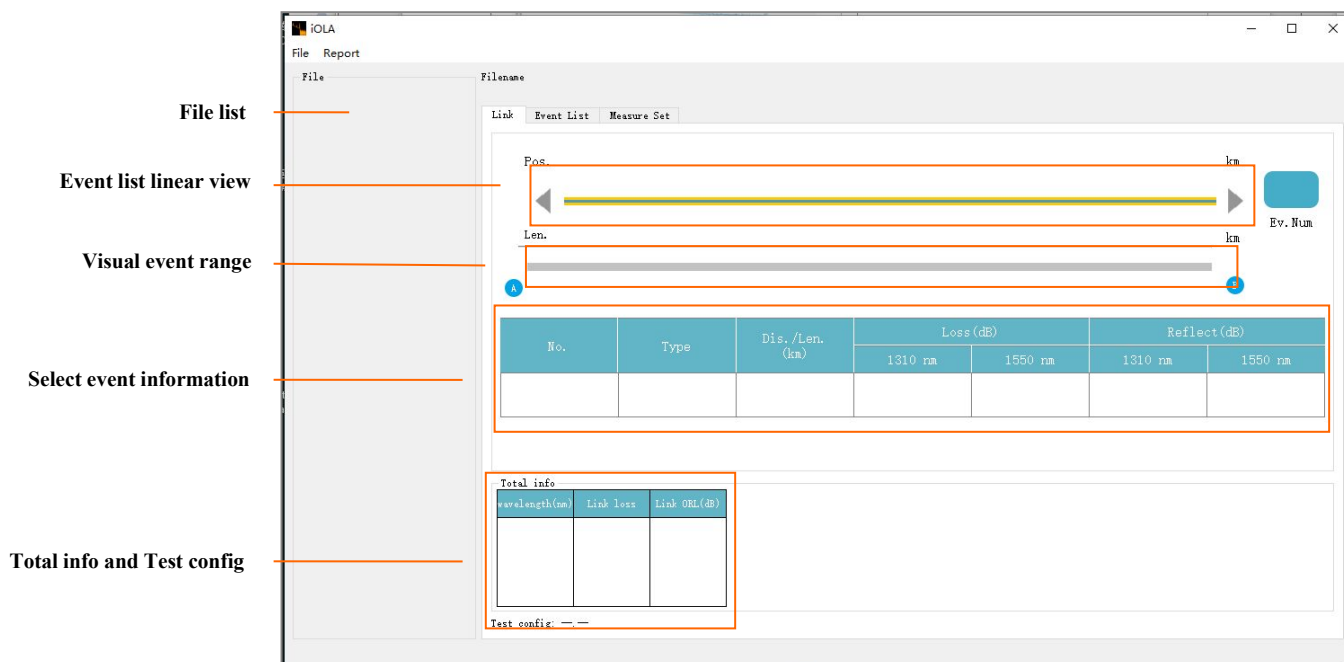
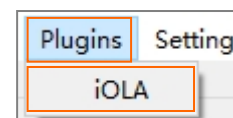
1310	
Refractive rate	1.46770
Backscatter coefficient(dB)	-79.5
Splice threshold(dB)	0.05
Reflect threshold(dB)	-70.00
End threshold(dB)	5.00
Splitter setting	Point to Point

Signature: _____ Date: 2021/02/25

iOLA

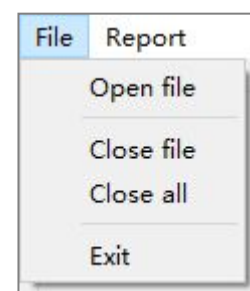
1. Main Interface

Select menu—Plugins—iOLA , enter main interface



2. File

- 1) Open file (max. ten traces in one interface)
 - i. File—Open file —Open the trace file (*.tor) .
 - ii. After selecting a file, hold down the left mouse button and drag the file into the main interface to open the file .
- 2) Close file
Close the selected file.
- 3) Close all
Close all the working files.
- 4) Exit
Exit the main interface of iOLA.

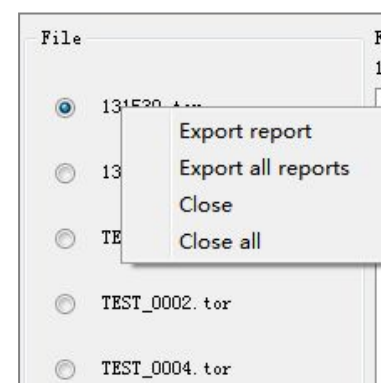


3. Report

Enter the report export interface.

4. File list

- 1) Right-click menu
 - a) Export the report of the selected file.
 - b) Export report of all files.
 - c) Close the selected trace file.
 - d) Close all the working files.



3. Link

- 1) Check event chart
- 2) Check the total number of events
- 3) Check event distance
- 4) Check selected event info
- 5) Check total info
- 6) Check test config



4. Event list

- 1) When the number of events exceeds the number that can be displayed on the interface, scroll the mouse wheel to check all the event information.
- 2) Select the event marked with red, and the abnormal cause analysis will be displayed at the bottom of the table.

Filename: 21事件.tor

Link Event List Measure Set

No.	Type	Dis./Len. (km)	Loss (dB)		Reflect (dB)	
			1310nm	1550nm	1310nm	1550nm
		0.10083	---	---	---	---
8		0.70263	0.035	0.027	-53.950	-56.054
		0.10147	---	---	---	---
9		0.80410	0.138	0.123	-49.314	-50.978
		0.09956	---	---	---	---
10		0.90366	0.285	0.282	-50.950	-51.758
		0.10083	---	---	---	---
11		1.00449	0.393	0.775	-58.384	-59.622
		0.10083	---	---	---	---

Connector is dirty
Clean the connector and reconnect it if needed

5. Measure set

- 1) Check Pass/fail threshold.
- 2) Check Fiber characteristics.
- 3) Check Measure set.

Filename: 21事件.tor

Link Event List Measure Set

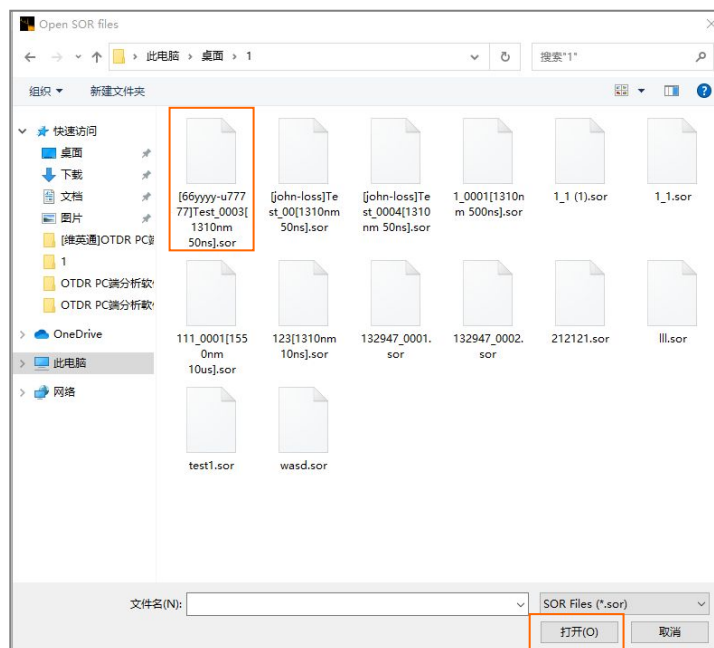
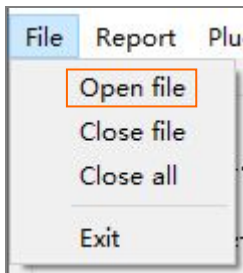
Pass/fail threshold			
Reflection loss(Max)	0.75dB	Splice loss(Max)	0.30dB
Reflect rate(Max)	-40.00dB	Total loss	20.00dB
Fiber characteristics			
Refractive rate	1310nm: 1.46770 1550nm: 1.46832	Scatter coefficient	1310nm: -79.5dB 1550nm: -82.0dB
Measure set			
Reflection threshold(Min)	-75.0dB	Splice loss(Min)	0.05dB
End threshold	15.0dB		

File Operation

1. Open file

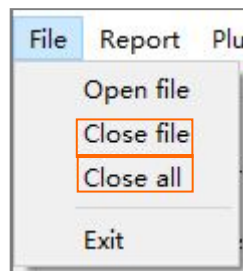
Max. 20 traces(.sor) are allowed to open in one interface, and max. 10 traces(.tor) are allowed.

- 1) File—Open file
- 2) After selecting a file , hold down the left mouse button and drag



2. Close file

- 1) Close
 - i. File—Close file
 - ii. Right click on selected file, click Close



- 2) Close all
Close all working trace files
 - i. File—Close All
 - ii. Right click on file—Close All

Trace Operation

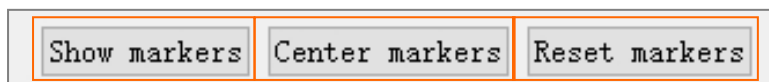
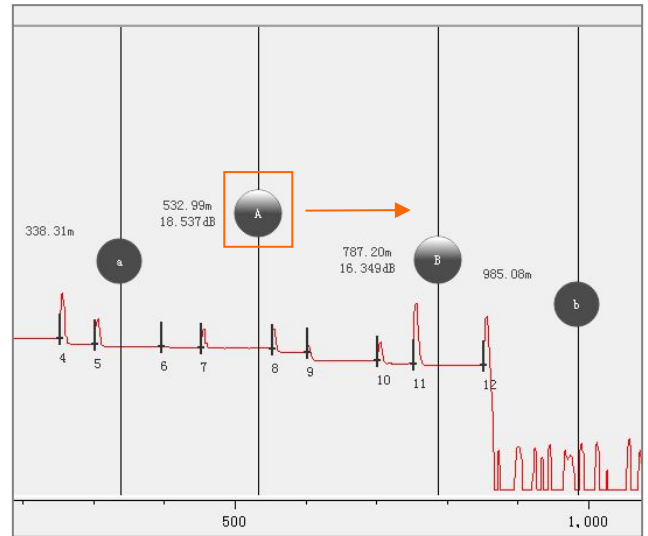
1. Marker Operation

1) Move

In the waveform area , the Mouse Cursor changes to a cross , move the Mouse Cursor to the Marker , left click and move the Marker.

2) Locate

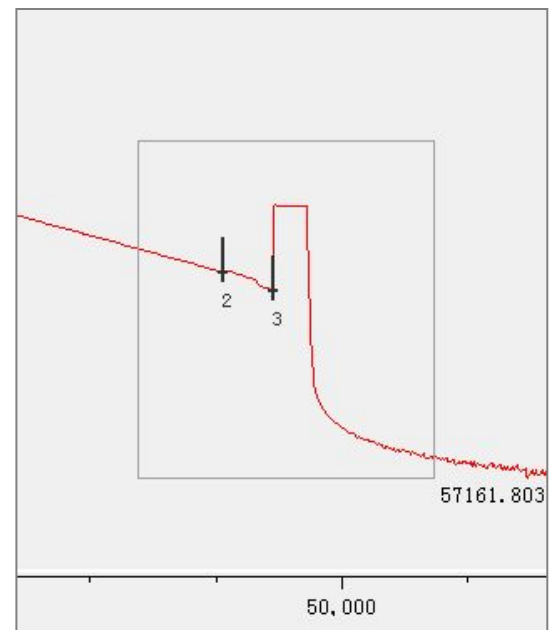
- Click the **Show markers** button to display the hidden A, B, a, b marker; When the marker is displayed, it becomes the Hide markers button. After clicking, the displayed A, B, a, b cursors are hidden.
- Click on **Center markers** button, Marker A, B, a and b to locate the marker in the center of the graph.
- Click on **Reset markers** button, and locate Marker A, B, a and B at the 0 position.



2. Zoom-in and Resize

1) Zoom-in

- Local Zoom-in**
Long right-click on the upper left corner of the target area and drag to the lower right corner, the selected square in the trace graph will be refreshed and zoomed in when mouse up.
- Whole Zoom-in**
Roll the mouse wheel in the waveform area to enlarge the waveform in the y-axis direction ; press and hold down "Ctrl" and scroll the mouse wheel to enlarge the waveform in the x-axis.



2) Resize

Double click the left /right mouse button in the waveform area to restore the original waveform size.

3. Horizontal / vertical Move and Resize

1) Horizontal / vertical Move

Place the mouse pointer in the waveform area, the mouse cursor turns into a cross, press the left mouse button, and drag the mouse in the waveform area to make the waveform move up, down, left and right.

2) Resize

Double click the left /right mouse button in the waveform area to restore the original waveform size.

3) Accurate longitudinal movement and reset, convenient for comparison between curves.

- a) "Step" button: click to switch between 0.1 , 1 and 5.
- b) Step input box: manual input value, can set range from 0.05 to 10.
- c) Up/down button: the selected waveform moves up/down.
- d) "reset" button: when the waveform is shifted, click to reset.

