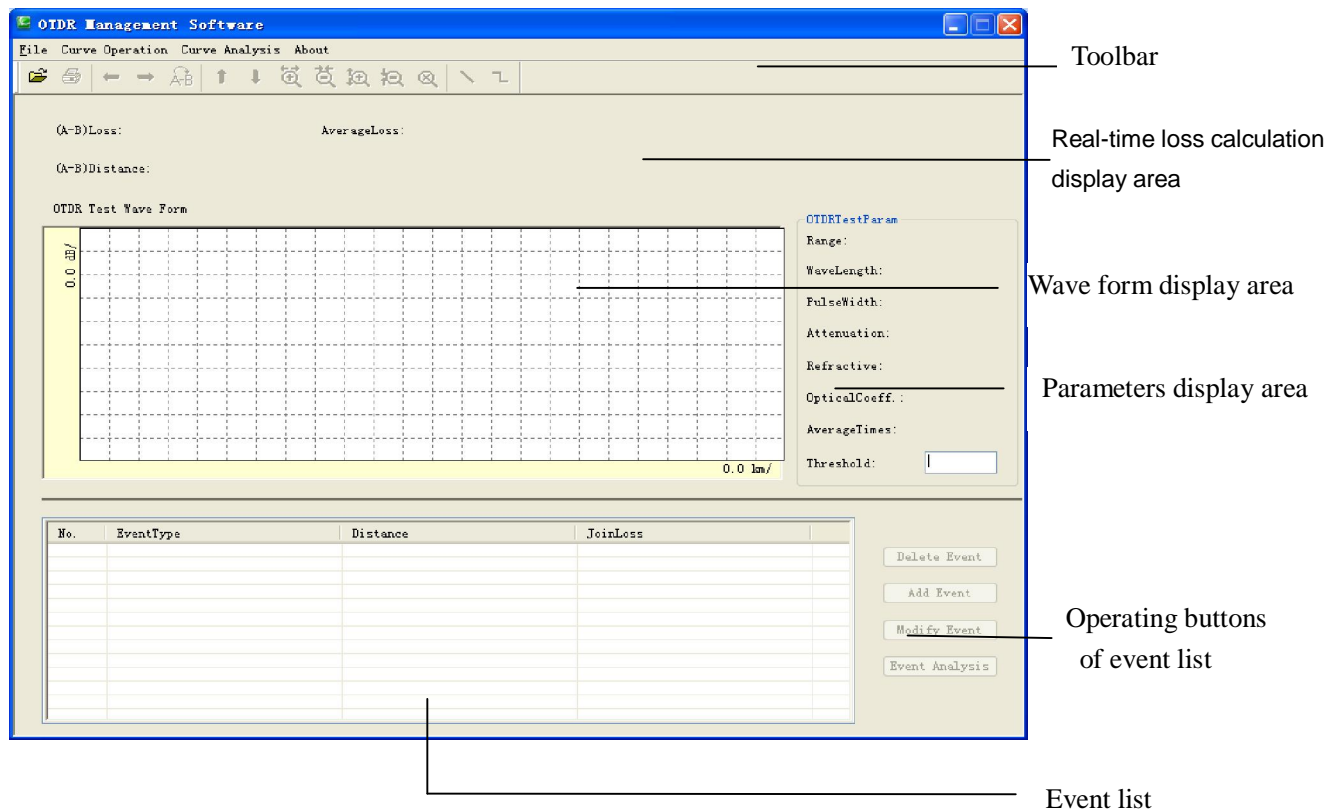# User Manual of OTDR Management Software

The OTDR management software offer the subscribers the functions of browse wave-form file, event analysis, event list operation, real time loss calculation , file print and other functions. The interface of management software is as the following picture shows:

1. Open the wave-form file

Click the [Open File] menu item in the [File] menu, or click the 📂 shortcut button to display the file-choosing dialog box. You only can open the OTDR wave-form file with the ".ST" suffix.

2. print the test report

Click the [Print] menu item in the [File] menu, or click the 🖨 shortcut button to display the print-choosing dialog box. You can choose the inline printer to print the test report.

3. Wave-form curve operation

3.1 Move the cursor and mark

There are two cursors in the windows of curve display(Note: There is only one cursor when you test the joint loss.). The present active cursor is red and another one is purple.

To click the mouse left in any position of the curve display windows and then the present active cursor will jump to the mouse clicked position.

To select the present active cursor by the mouse left clicking and drag the cursor to the required position.

Click the [Left Shift Cursor] or [Right Shift Cursor]menu item in the [Curve Oper.] menu,

or clcik the shortcut button ← or → , or the shortcut button in the menu item to move

the cursor.

When you need to move a certain mark, you can move the active cursor to the mark. So moving the active cursor is to move the mark.

3.2 Change the marks

Click the [Change Mark] menu item in the [Curve Oper.] menu, or clcik the ⟳A-B

shortcut button to change the active cursor to different marks.

When testing the joint loss, four marks will appear: a, A, B, b. And there will be one active cursor. When testing the average loss, there are only two marks A, B. And then there will be two cursors locate in the mark A and mark B. One is active cursor(movable), another is inavtive cursor.

3.3 Zoom the test curve

To click the relevant menu items in the [Curve Oper.] menu, you can realize the horizontal and vertical zoom as well as the function of initially displaying test curve.

You can also click the following shortcuts to complete the relevant functions.

⊕ (Horiz Zoom-in)   ⊖ (Horiz Zoom-out)   ⊕ (Vert. Zoom-in)

⊖ (Vert. Zoom-out)   ⊗ (Initialization)

3.4 Set the test items

Click the [Test Item] in the [OTDR] menu to choose the different test items: average loss and joint loss. You can also click the following shortcut buttons to choose different test items: ╲ test the average loss; ⌐ test joint loss.

[Note]:

1. When testing the average loss and reflective loss, there will be two marks(A,B) and two cursors   One of them is an active cursor).
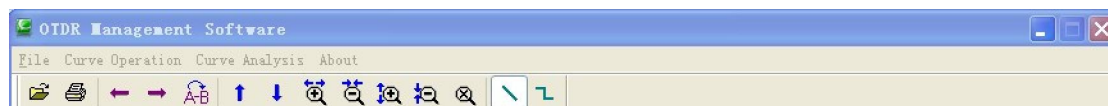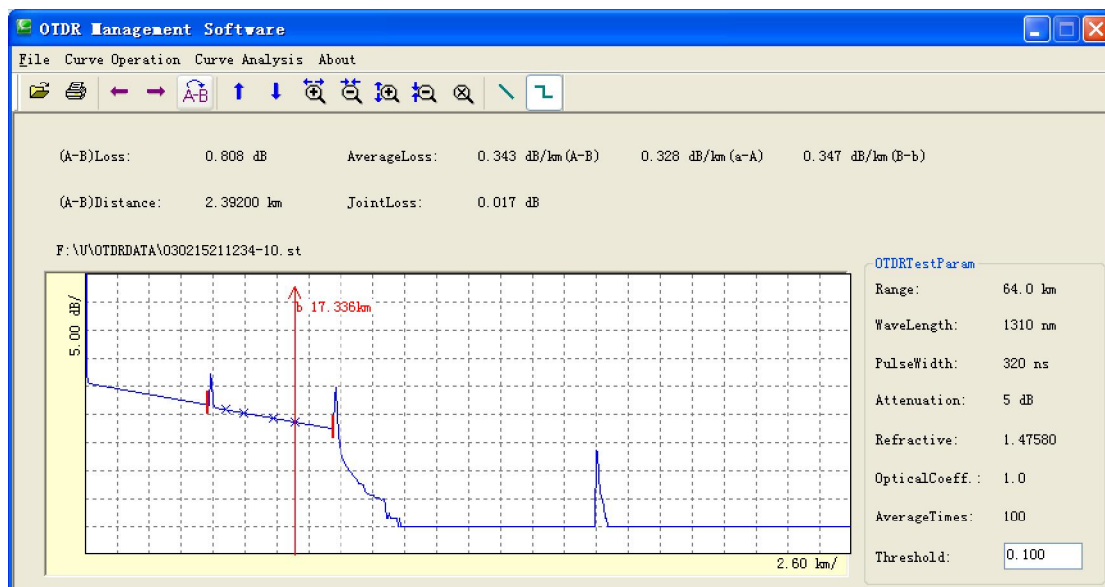

The"Test Average Loss" button is pressing
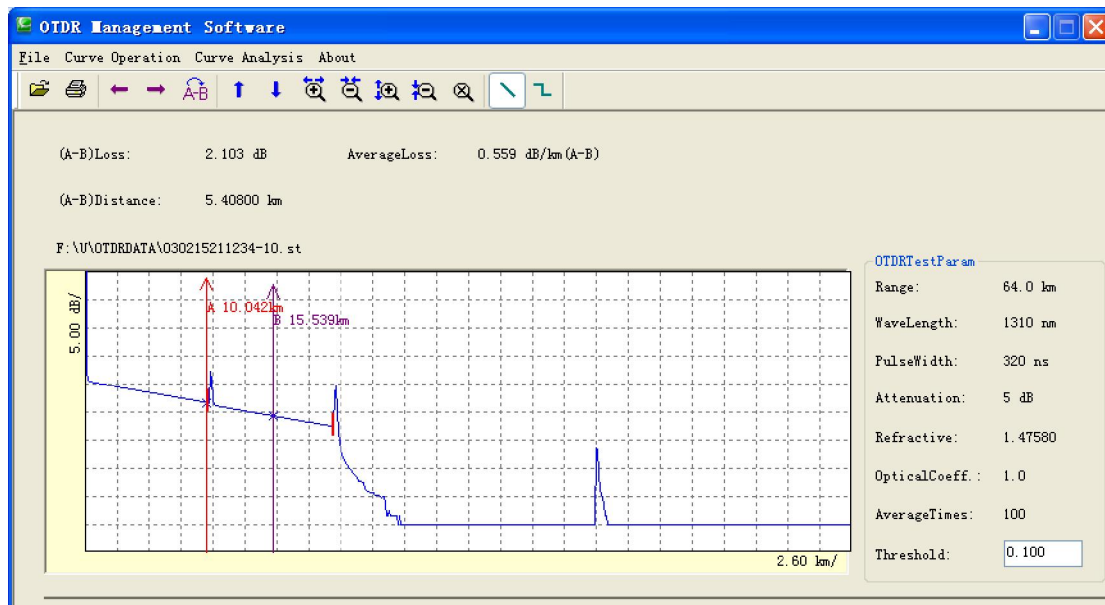
The real time loss and wave form display area when it is testing the average loss

2. When testing the joint loss, there will be four marks(a, A, B, b) and one active cursor.

The real time loss and wave form display area when it is testing the joint loss

4. Event analysis

4.1 How to realize the function of test curve event analysis

You can realize the test curve auto-analysis by the following several methods:

1. Click the [Event Analysis] in the [Curve Analysis] menu;
2. Click the [Event Analysis] button in the operating window.

After analizing the wave form, all the positions of event points and relevant loss information will be displayed in the event list. The accuracy of auto-analysis event will be changed by changing the "Threshold Value". The smaller threshold value is, the more accurate event analysis is.
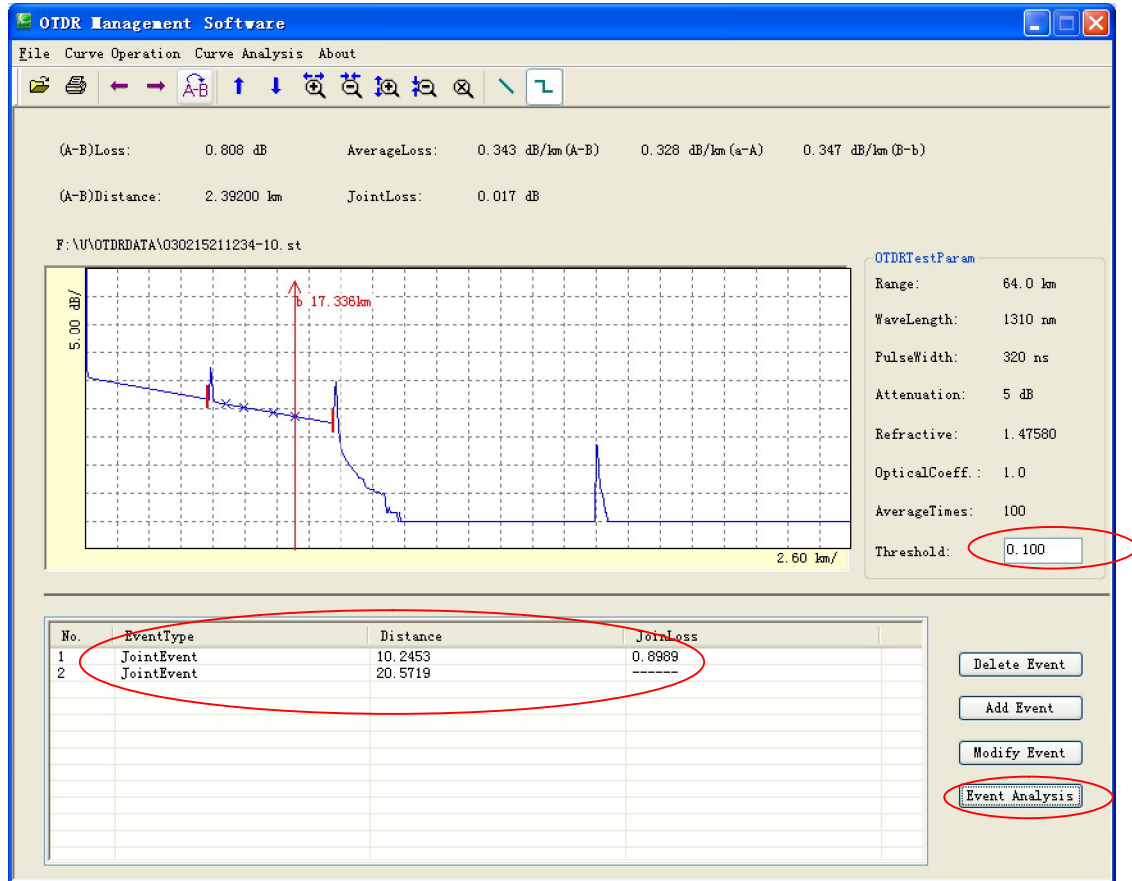
4.2 The relevant operation of the event list

After analizing the wave form, relevant event point information will be displayed in the event list. You can click the [Modify Event], [Add Event] and [Delete Event] in the operation windows to complete the locating modification.
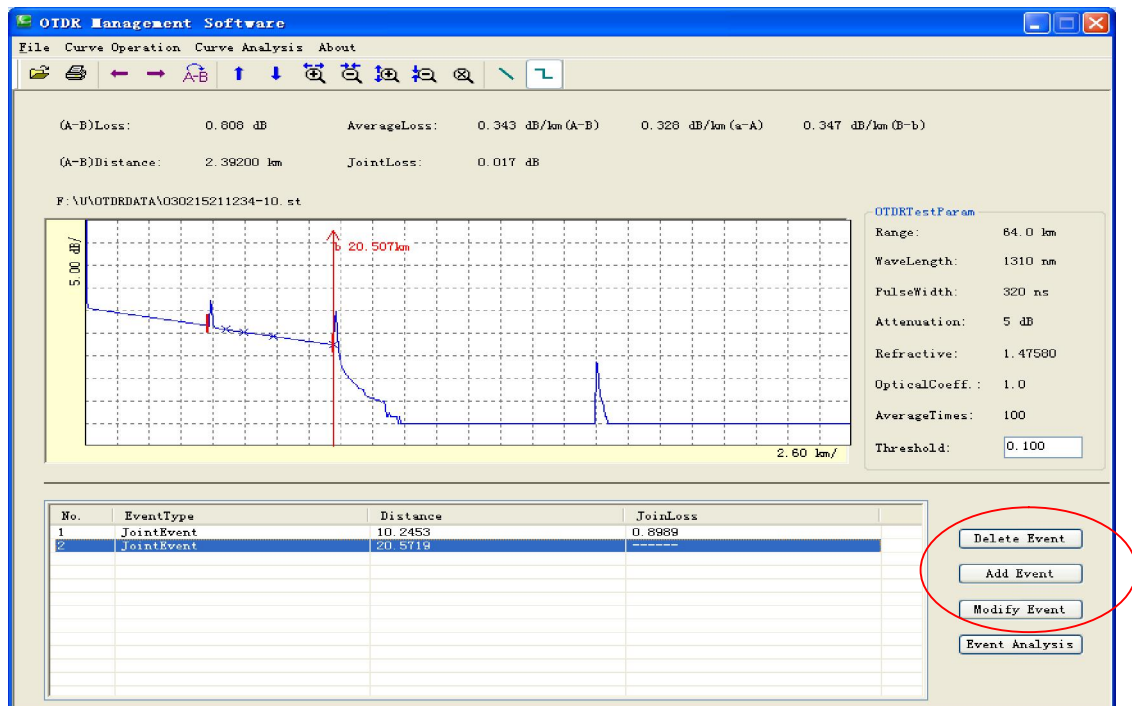
l   Delete Event: Move the cursor in the event list to the event point needed to delete., and then click [Delete Event] to delete the event point chosen by cursor bar.

l   Modify Event: It is used to modify the event point position, event type and joint loss chosen by cursor bar. The dialog box of modifying events is as the following picture:

[Note]:

1.   Modify the event type: to set by the drop-down box of the dialog box.

2.   Modify the event position: set the present cursor as the active cursor and click the target position on the wave-form curve by the mouse. The position must be loacted between the last event and next event of the dialog box.

3.   Modify the event point joint loss: After clicking the [Modify Event], the test item will become the test joint loss automatically. By changing the cursor, you can set the positions of cursor a, A, B, b individually between last event and the next event. And the position of cursor A is the event point new position. If it doesn't need to change the original event point, there will be no need to reset the position of cursor A. After seting the four cursors, the software will test the joint loss automatically according to the setting position.

4.   After setting, click "OK" to complete the modification of the chosen events.

Add Event: The dialog box of adding events is similar to the above picture. It can add new event point before the chosen event point by the cursor. The added event point must be located between the last event point and the next event point.