

MW90010A Quick Start Guide

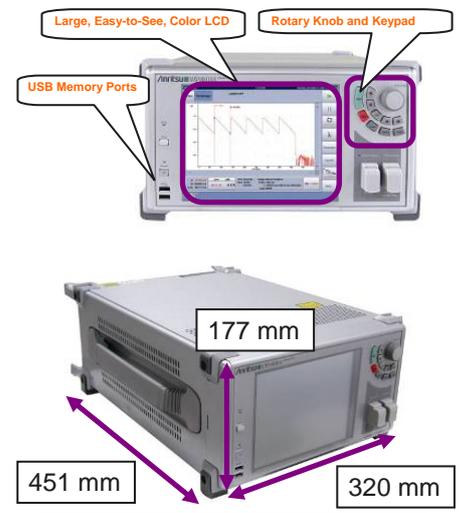
Choherent OTDR

A Quick Start Guide showing the simple steps on using the Anritsu C-OTDR

Overview,

The Anritsu C-OTDR is designed from the ground up to be simple to use for any operator. It was important to Anritsu to ensure the C-OTDR was extremely user friendly with the key areas listed below

- As access to a Submarine Cable System's is often very limited the engineers ability to use a C-OTDR is also very limited,
 - o No mater how well trained or documented a procedure is simplicity of design will minimize user error,
 - o By ensuring all set-up's are accessible from the base screen,
 - o A touch screen makes the unit more intuitive.
 - Push the section you wish to adjust,
 - Zoom in on the area you wish to see.
 - o Dedicated hard keys for scrolling along the trace, zooming in and out as well as setting etc.
- By minimizing required components there is less chance for equipment to be lost or configuration errors,
 - o Having a single unit with all required equipment internal offers a reduced size and simple management.

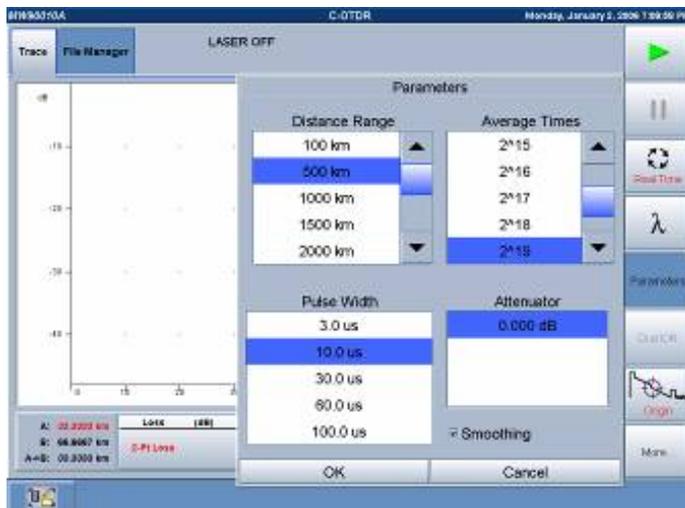


Making a Measurement,



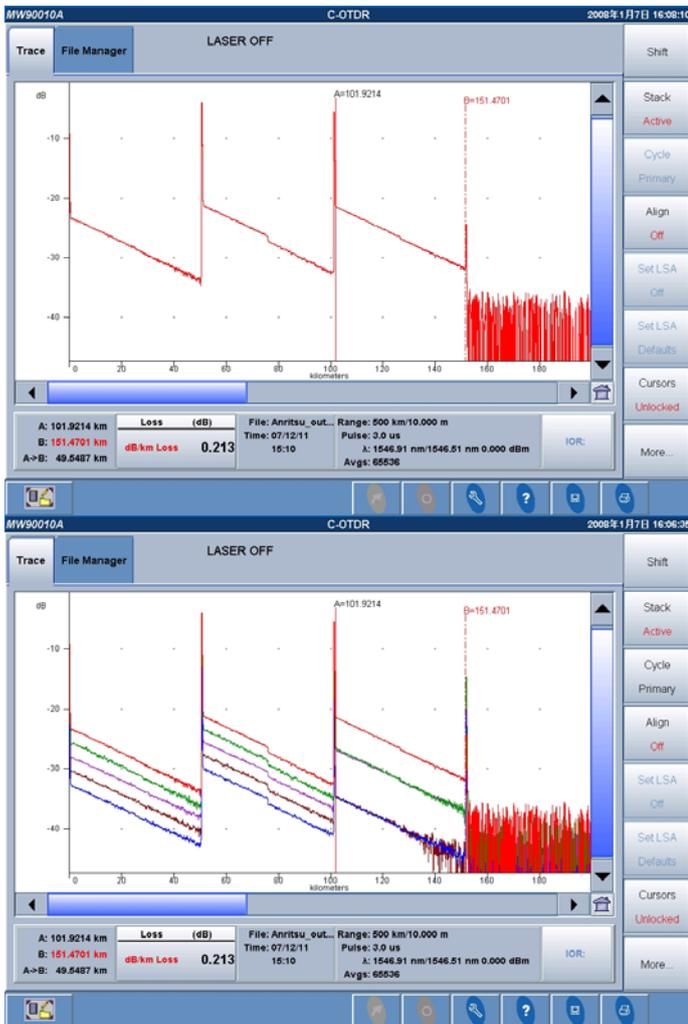
Select the "Wavelength button",

- This will open a daughter window which will allow you to select,
 - o Probe Light (Select),
 - Select the **test wavelength** from the list.
 - *Predefined ITU-T grid in 50Ghz spacing across the available wavelength.*
 - o Loading Light (Select),
 - This section allows you to select the channel above or below the "Probe Light".
 - *Loading Light is required to ensure the total input power to EDFA's remains constant.*
 - o Output power (Select),
 - Select from the pull down list.



Select the "Parameters" button,

- This will open a daughter window which will allow you to select,
 - o Distance Range (Select),
 - Select longer than your network under test.
 - o Average Times (Select),
 - The larger the number the smoother the trace.
 - o Pulse Width (Select),
 - Smaller number show more details but requires longer averaging times.
 - o Smoothing (On / Off),
 - Runs analysis over the trace to offer a cleaner trace view.
 - See Notes more technical details.



Push Start Button (or the “Play” Button),

- The C-OTDR will commence taking the trace,
- Updating the information in real time.
- Adjustment of the markers, zooming in and out and taking measurements can also be completed during trace acquisition.
 - o Allowing for real time measurement and fault location.

Compare traces,

- View up to 8 traces on the screen at any one time,
 - o Recall and old trace of the same link,
 - o Compare before and after repair work,
 - View the effect on total loss,
 - Extra length,
 - Amplifications values.
 - o Compare commissioning trace to today’s trace and look for changes in the network.
 - Stack traces (show to the left).
 - Overlay traces.

Special note’s,

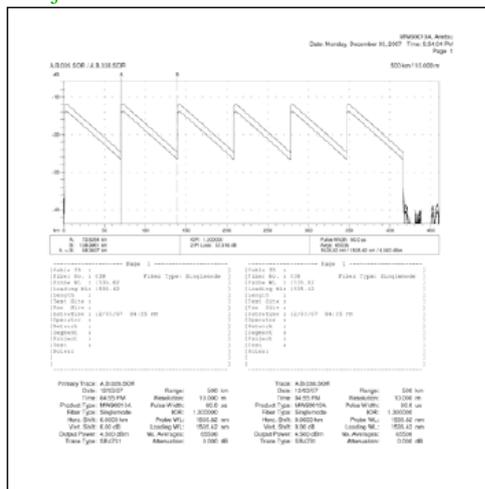
- Datapoint resolution is fixed to 10m,
 - o This gives the advantage of maintaining high accuracy over longer fiber runs.
 - o For short lengths testing time is reduced due to faster processing of the datapoint’s while ensuring the same resolution.
- Smoothing (Creating a cleaner trace),
 - o By averaging datapoints before and after a set point on a trace and moving this averaging method along the length enables the removal of any spurious inconsistencies. To ensure accuracy of trace data the “Smoothing” algorithm is stopped just before an event and started just after an event.

Create a Report or Save the data,

- All data can be saved (for later recall)
- Printed directly into a report.

Transferring Data,

- Once the data is saved you can open Explorer (just like windows but touch screen friendly),
 - o Cut, Copy and Paste Traces directly to USB,
 - o Cut, Copy and Paste Reports directly to USB,
- If you wish you can save data to USB directly.



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