SmartOTDR GETTING STARTED MANUAL

SAFETY INFORMATION

Laser safety

The provisions contained in two standards define the safety procedures to be observed both by users and by manufacturers when utilizing laser products:

- EN 60825-1: 2001 - Safety of laser products – Part 1: Classification of products, requirements and user guidelines.
- FDA 21 CFR § 1040.10 - Performance standards for light-emitting products - Laser products.

Due to the range of possible wavelengths, power values and injection characteristics of a laser beam, the risks inherent in its usage vary. The laser classes form groups representing different safety thresholds.

- VFL option: Laser Class 2.

Due to the reduced dimensions of the optical modules, it is not possible to attach the required warning labels to them. In line with the provisions of Article 5.1 of the EN 60825-1 standard, the laser class identification labels are shown below:

Ref. standard	EN 60825-1, Edition 1.2, 2001-08	FDA21CFR§1040.10
Class 2	LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT	CAUTION LASER RADIATION - DO NOT STARE INTO BEAM CLASS II LASER PRODUCT

The user must take the necessary precautions concerning the optical outputs of the instrument and follow the manufacturer's instructions.

AC/DC power supply safety

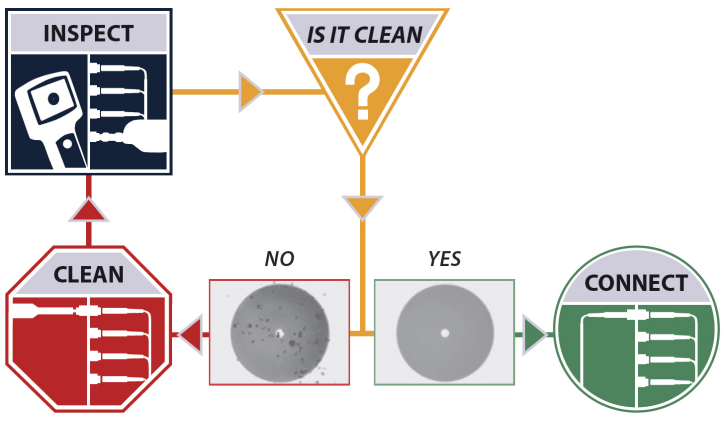
Always use the proper adaptable plug to connect the power supply to an electrical outlet. Viavi is not responsible for direct or indirect damage including damage to persons or property if the power supply is not use correctly. For assistance using one of the Viavi supplied adapters (your specific regional adapter may not be available) please refer to the user manual.

INSPECT BEFORE YOU CONNECT

Before connecting a fiber into a test module, inspect and clean the module bulkhead and the fiber jumper connectors.

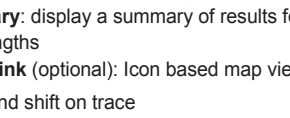
1. Use a video inspection scope (such as P5000i) to verify the connector quality. Follow this simple "INSPECT BEFORE YOU CONNECT" process
2. Use appropriate cleaning material (e.g. IBC™ cleaner, cotton swab, dust air sprays, etc...) and re-inspect to confirm.
3. Carefully align the connector and test port prior to mating both

Never force the connector ferrule or insert it with an angle into the test port adapter. Mechanical stress may permanently damage the ceramic sleeve of the adapter or the end face of the connector.

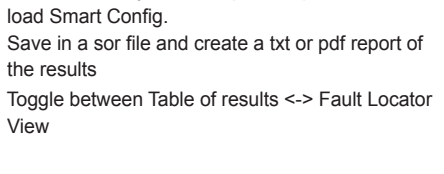


USING A MICROSCOPE WITH THE SmartOTDR

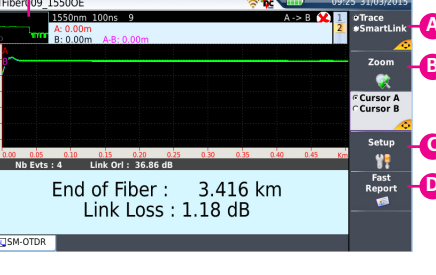
1. Connect the Microscope to the SmartOTDR USB port.



2. On the **Home** page, select the **Microscope** icon.



3. Use Focus control button on Microscope to adjust focus.



4. Configure the test of the connector.

5. Press RESULTS to return to Results page

6. Test

7. A summary of test results is displayed.
   Zones: A - Core / B - Cladding / C - Epoxy / D - Ferrule

SmartOTDR OVERVIEW

1. 5" HVT Capacitive Screen
2. Charge indicator
3. On indicator
4. File menu
5. Setup menu
6. Start/Stop
7. Testing indicator
8. On/Off
9. Home page
10. Cancel (switch off functions)
11. Direction & validation keys
12. Results page
13. Buzzer
14. AC/DC Input
15. Slave Mini USB port
16. VFL connector
17. USB ports (2)
18. OTDR port / continuous light source / power meter
19. OTDR live port (in-service test)
20. WIFI or Bluetooth options

CONFIGURING AND PERFORMING A TEST IN Smart Test MODE

1. On the **Home** page, select **Smart TEST** icon

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2. From the **Results** page, press SETUP.

3. START/STOP

Step1: connector check
Step2: acquisition in progress

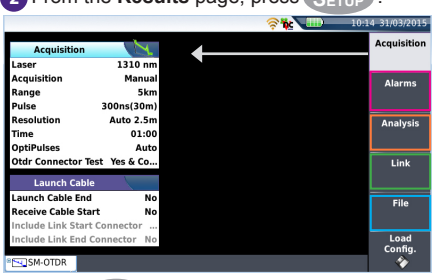
4. At the end of test, the results trace displays.

- **A** **Trace**: select the active trace (multi-traces analysis)
  Summary: display a summary of results for each wavelengths
  SmartLink (optional): Icon based map view
- **B** Zoom and shift on trace
- **C** Allows to modify some acquisition parameters and load Smart Config.
- **D** Save in a sor file and create a txt or pdf report of the results
- **E** Toggle between Table of results <-> Fault Locator View

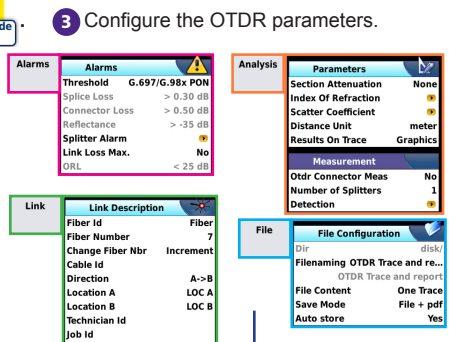
CONFIGURING A TEST / CREATING A Smart Config. IN EXPERT MODE

1 On the **Home** page, select **ExpertOTDR** (Singlemode OTDR).

2 From the **Results** page, press SETUP.

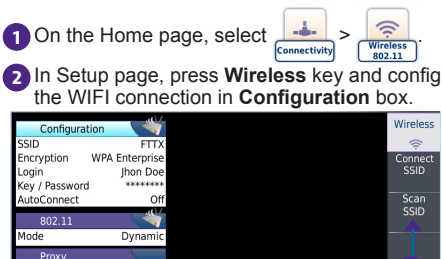


3 Configure the OTDR parameters.



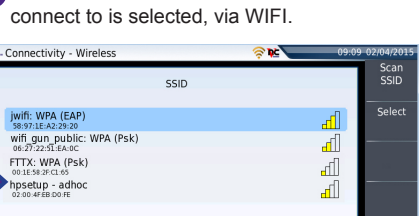
5 Press FILE to access the configuration file

summary of configuration parameters into the file



Enter

4 Select one parameter and press Save Config. to save the current configuration

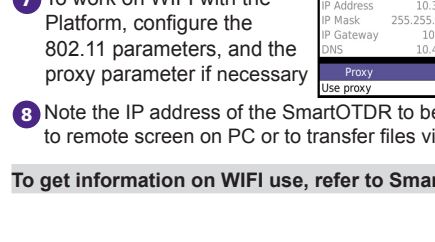


To perform acquisitions in Expert OTDR, see chapter “Launching a reflectometry test and displaying results” in Module User Manual.

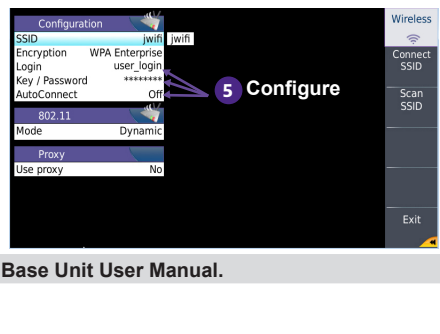
CREATING A DIRECTORY TO STORE OTDR RESULTS

1 Once results are displayed, press FILE to display the file Explorer.

2 Select the location where the directory must be created.



4 Enter a name for the new directory.

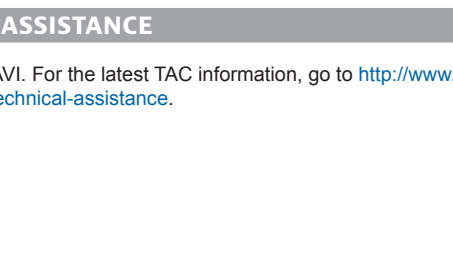


The files can be transferred, using **Edit** sub-menu:

- to USB folder if plugged
- to your remote device via Bluetooth
- to your preferred cloud storage server

To get more information on Connectivity and files transfer, refer to SmartOTDR Base Unit User Manual.

The traces acquired can be saved in the new directory.



SAVING THE OTDR RESULTS

1 In the Results screen, press **Fast Report** key.

Once saving is completed, the file(s) is/are displayed in the Explorer.

FILE

2 Select the **Save Mode** and , if necessay, modify the Fiber / Cable / Link parameters:

File Only: save exclusively the OTDR trace(s)
File + txt: save the OTDR trace(s) & generate a txt file
File + pdf: save the OTDR trace(s) & generate a pdf file
All: save the OTDR traces & generate a pdf and a txt file

4 In the edition keypad, enter the filename or press **Auto Filenaming** menu key.

5 Press to validate

WIFI CONNECTION

1 On the Home page, select Connectivity > Wireless 802.11.

2 In Setup page, press **Wireless** key and configure the WIFI connection in **Configuration** box.

4 Press **Select** once the desired network to connect to is selected, via WIFI.

In setup page, the SSID parameter is automatically configured with the one selected

6 Press Connect SSID to connect the configured SSID.

On the upper banner, the icon WIFI “inactive” *turns active* .

7 To work on WIFI with the Platform, configure the 802.11 parameters, and the proxy parameter if necessary

8 Note the IP address of the SmartOTDR to be able to remote screen on PC or to transfer files via WIFI

To get information on WIFI use, refer to SmartOTDR Base Unit User Manual.

TECHNICAL ASSISTANCE

If you require technical assistance, call 1-844-GO-VIAVI. For the latest TAC information, go to http://www.viavisolutions.com/en/services-and-support/support/technical-assistance.