



Quick Reference Guide

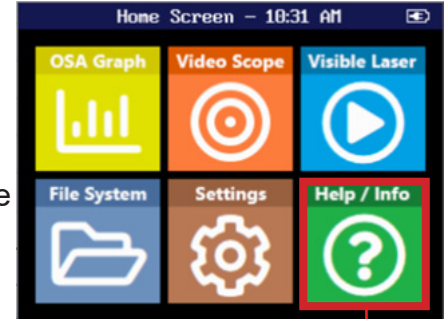
OV350-DW96 / Mini OSA

Rev. A 3/2025

Power Up

Press the  button to power on the OV350-DW96, the home screen will be displayed.

The home screen offers direct access to the OSA and video scope modules. The visible laser is operated directly from the home screen, simply touch the Visible Laser icon and toggle through CW, modulated and off. File management icon opens file full management screen to manipulate and transfer files saved in the OSA and video scope modules. As shown below the settings icon opens the settings page. The Help icon offers the user a link to Fiber Instrument Sales manuals, upgrades and training online.



Select the Settings icon to open the settings screen.

Setting Screen

Exit icon →

Date and Time Settings →

Pass Range Setting →

Power and Port Setting

Bandwidth Mode Setting

Link to FIS manuals, upgrades and training online.

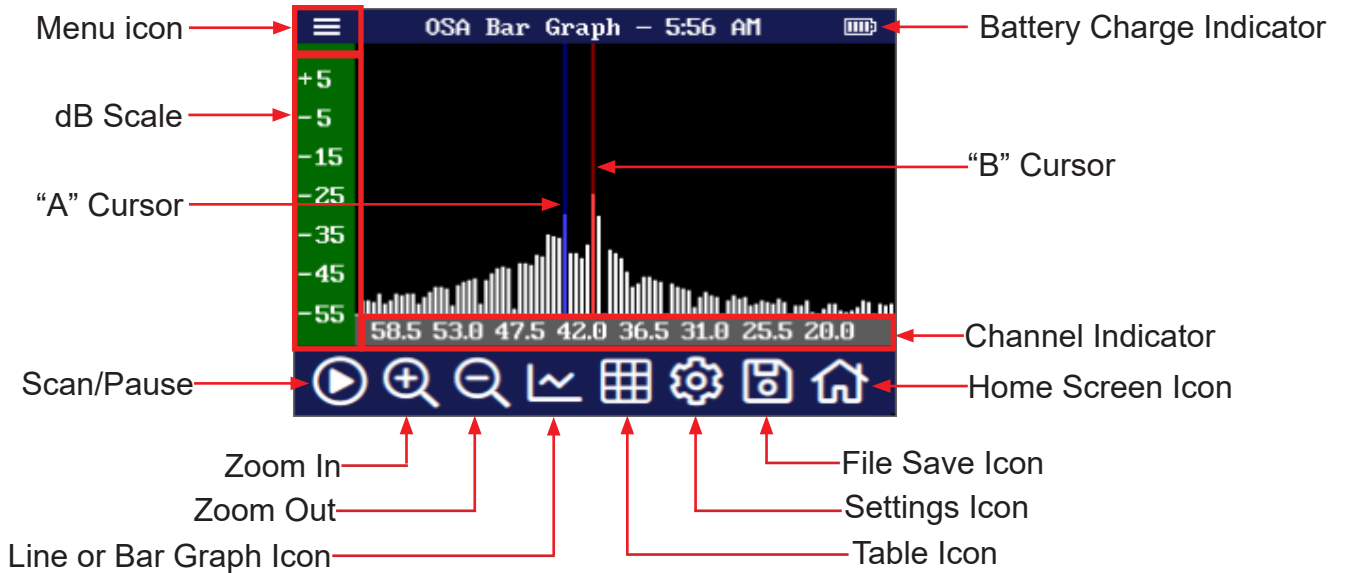
Setup

Follow the steps below for initial setup and periodic adjustments

- From the Home screen or the OSA menu screen, select the Settings icon to enter the settings screen.
- Set the date and time for accurate time stamps on saved files.
- Set the power port to low (max channel power, -10dBm) or to high (max channel power, +10dBm). Select the Power Port value to toggle between the two. ***If the expected power levels are unknown, it is best to start on the high power port setting.***
- Set the pass range by long touching the low and high pass range limit values to scroll to desired setting. Use the check box to turn on or off the pass zone indicator. (This is a green shaded area on the graph screen.)
- Set the bandwidth resolution by touching the value to cycle through available settings of 50 Ghz, 100Ghz-A and 100Ghz-B. ***The “A” channels are the full step channels and “B” Channels are the half step or (.5) numbered channels.***
- When finished, select the Exit icon in the top left of the display.

OSA

OSA Bar Graph Screen with Menu Screen/Icons



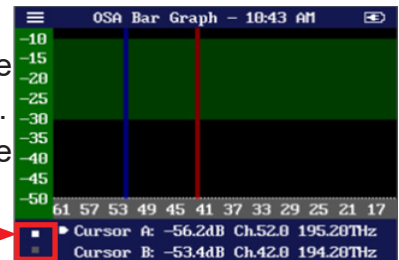
OSA Menu Screen Icon Functions

<u>Menu</u>	The menu icon cycles on and off the OSA menu bar
<u>Scan</u>	The Scan icon starts a live scan of the fiber under test. The icon is replaced with a pause icon when scanning, press the pause icon to cancel scanning.
<u>Zoom In</u>	Selecting Zoom In will increase the zoom factor to 2x or 4x.
<u>Zoom Out</u>	Selecting Zoom Out will decrease the zoom factor to 2x or 1x.
<u>line Graph</u>	Selecting the line graph icon will open the 6GHz line graph screen. When the line graph is active the icon is replaced with a bar graph icon.
<u>Table</u>	Selecting the table icon to open the table mode.
<u>Settings</u>	Opens the settings screen as describe on the previous page.
<u>File Save</u>	Opens the file save screen.
<u>Home Icon</u>	Select the home icon to return to the home screen.

OSA Screen with Cursor Data

The arrow indicator next to the cursor indicates the active cursor when moving the cursors on the display. The data associated with the current channel is also listed. Click on the text of "Cursor A:" or "Cursor : B" to select which cursor should be the active cursor when interfacing with the scan.

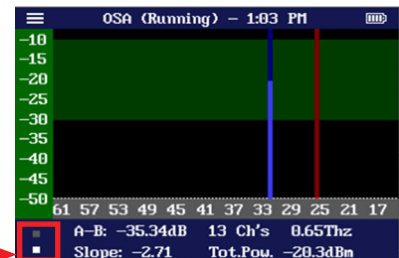
Select Top Box for Cursor Data →



OSA Screen with Scan data

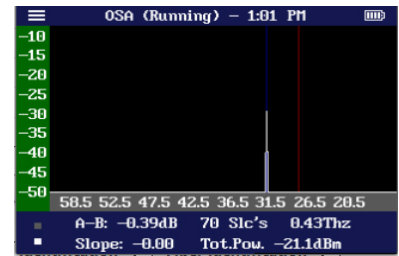
Scan data indicates the deviation in dB, number of channels and THz value between the two cursors. It also indicates the slope and total power of the scan.

Select Bottom Box for Scan Data →



OSA Line Graph

Selecting the Line Graph icon when in bar graph operation will display the 6GHz line graph with 8 high resolution slices per 50GHz bar to examine laser centering and drift. Below the graph, is the same cursor data that is available in the bar graph mode, however, the scan graph mode presents the high resolution slice deviation between cursors instead of channels.



OSA Table Mode

Select the Table icon while the menu is displayed in the bar or line graph Screens. There are four columns of information in the table mode. Column one indicates the channel number. Column two indicates the frequency or wavelength which is toggled by selecting the column header label. Column three displays the real time power level or the power at the time the scanning was paused. Column four displays the min, max or avg power measured during the scan, again selecting the column header will cycle through the available data. The upper left menu icon will make available the bottom of the screen menu icons to navigate to other screens.

Chan.	Frequency	Power	Min
62.8	196.28	-59.96	27.67
61.5	196.15	-58.53	27.67
61.0	196.10	-58.92	27.67
60.5	196.05	-58.88	27.67
60.0	196.00	-58.28	27.67
59.5	195.95	-53.97	27.67
59.0	195.90	-59.96	27.67
58.5	195.85	-59.96	27.67
58.0	195.80	-59.96	27.67
57.5	195.75	-59.96	27.67

OSA Operation

Basic Operating Procedures

- Plug fiber to be tested into the proper port. Noting -10dBm or +10dBm indicators on the top of the OSA.
- If not already accomplished, set the power port, pass range and bandwidth mode
- With the unit in menu mode, select the Scan icon.
- Zoom in or out as necessary with the zoom in or zoom out icons. Zoom will center the active cursor.
- Select the Menu icon in the top left of the screen to display the cursor and scan data.
- Toggle between cursor and scan data with the two boxes in the lower left of the display.
- Toggle between active cursors by touching the appropriate line when in cursor screen.
- Touch the display to snap the cursor to that location or touch and hold the cursor to drag it into position.
- To save a scan to file, select the Menu icon and select the File Save icon enter file name and select the green check mark to store the scan. There is a maximum of 15 characters available for file names.

Video Microscope

Video Microscope Icons

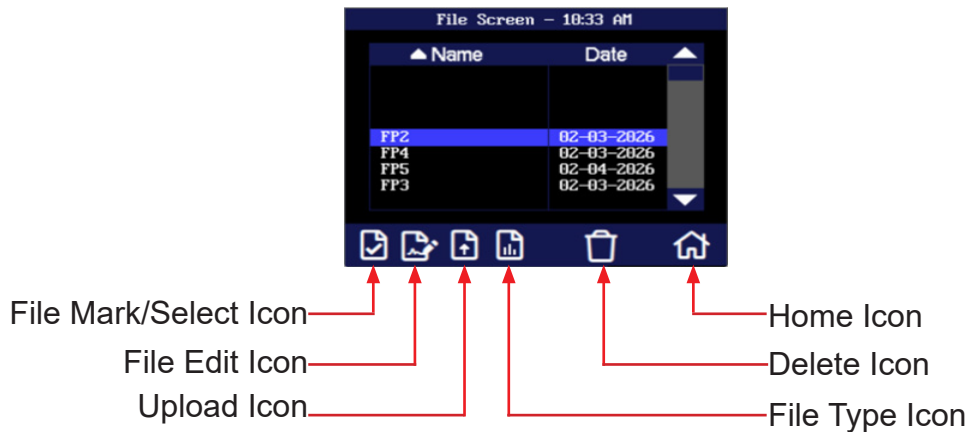


Video Scope Icon Function

<u>Live Icon</u>	Selecting the live icon turns on live or running mode. This is a real time reading of the connector face.
<u>Pause</u>	To freeze an image for inspection, select the Pause icon. While in auto of the auto/pass/fail mode, pressing pause will grade the connector end face and display calculated pass/fail.
<u>Zoom In</u>	Selecting Zoom In increases the image to 250x
<u>Zoom Out</u>	Selecting Zoom Out returns the image to 125X
<u>Save Icon</u>	Selecting the Save Icon opens the file save/naming screen with QWERTY keyboard
<u>Pass/Fail</u>	Selecting the set pass/fail icon while in the live mode will toggle through fail, pass and auto grading markers (Auto will be accomplished by the unit when entering the pause mode.)
<u>Brightness</u>	Selecting the brightness icon will cycle through the brightness levels available.
<u>Grading Rings</u>	Selecting this icon will toggle the grading rings off and on. These pass/fail grading rings are used to assist with manually grading a connector. The rings represent 25um, 120um, 130um and 250um.
<u>Edit Icon</u>	This is used to mark the points of contamination and is accomplished in the paused mode. Available markers will be displayed at the top of the screen. Pick up the marker by using the stylus and touching the contamination sample size that is required. Touch the image where the marker is to be placed. The marker may be fine-tuned with the stylus to cover the contamination point. Once positioned properly, touch the statement "Place marker on image then touch here" to lock marker in place. Repeat this as necessary to mark all the points that need to be indicated for the pass/fail status. At this point the image should be saved as the marks are removed upon returning to live mode.
<u>Home Icon</u>	Select the home icon to return to the home screen.

File Management

File Management Screen/Icons



Icon Function/Use

<u>Mark/Select</u>	Selecting this will mark the highlighted file for uploading or deleting.
<u>File Edit</u>	When selected the highlighted file will open in with the QWERTY keyboard for editing.
<u>Upload Icon</u>	Selecting this will upload Marked and highlighted files to the computer through FIS Connect software.
<u>File Type</u>	This is a toggle and will display OSA files or video microscope files. Note that the image changes from a bar graph or scope target inset.
<u>Delete Icon</u>	This is a non-recoverable delete key, once selected the marked and highlighted files are erased immediately.
<u>Home Icon</u>	Select the home icon to return to the home screen