

Quick Reference Guide

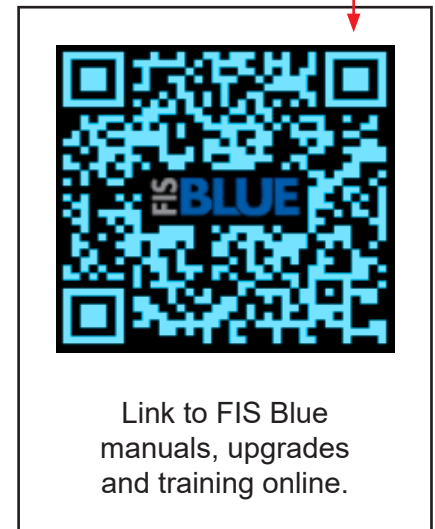
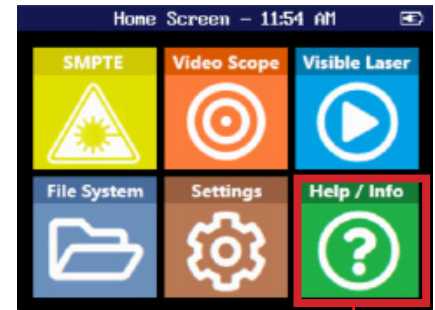
NUGEN V2 SMPTE Cable Test Set

Rev. A 7/2025

Power Up

Press the  button to power on the SMPTE Cable Tester, the home screen will be displayed.

The home screen offers direct access to the SMPTE 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 management screen to manipulate and transfer files saved in the Video Scope. The settings icon opens the settings page to set date and time and pass/fail threshold in the SMPTE tester. The Help icon offers the user a link to FIS Blue Inc., manuals, PC application software, equipment upgrades and training online.

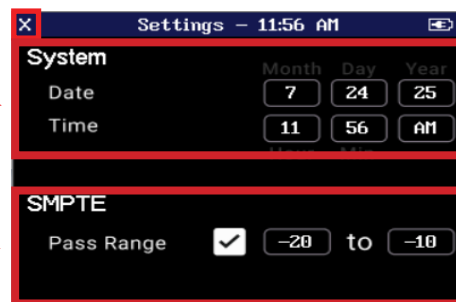


Setting Screen

Select the Settings icon to open the settings screen.

Date and Time Settings →

Power Threshold Settings →

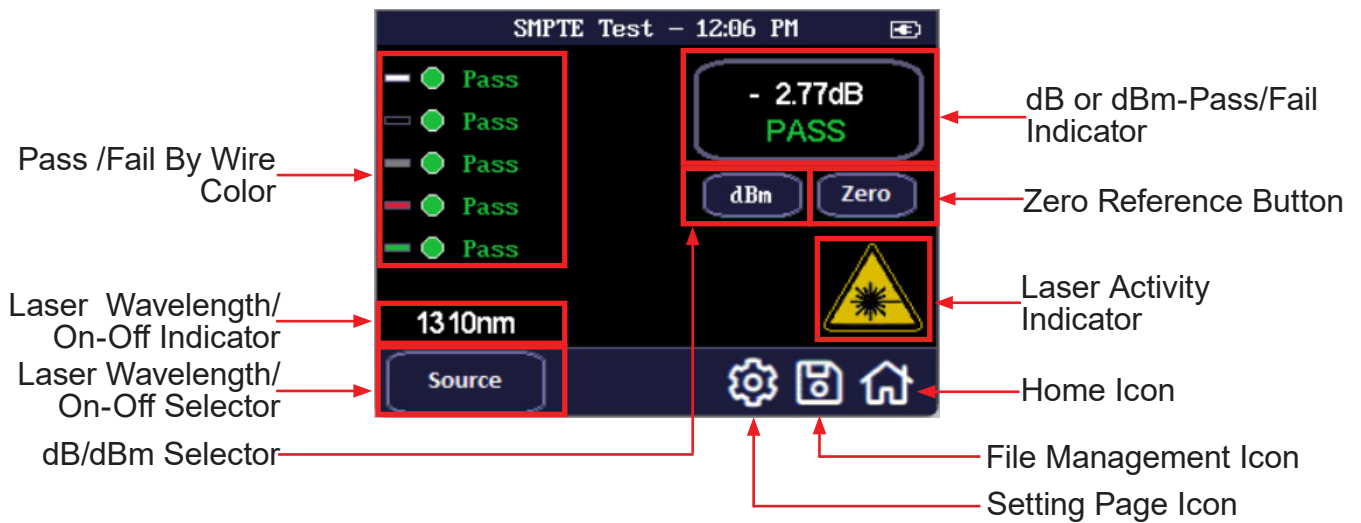


Setup

Follow the steps below for initial setup and periodic adjustments

- From the Home screen, select the Settings icon to enter the settings screen.
- Set the date and time for accurate time stamps on saved video scope files.
- The pass threshold range for the fiber conductors is also set in the setting screen. Use the check box to turn the threshold on or off on the fiber conductors. Long hold the value to cycle through available values. When finished, select the Exit icon in the top left of the display.

SMPTE Operation Screen



Menu Icon Functions

Settings Icon

Select to open the settings screen and access real time clock and threshold settings.

File Mgt. Icon

Select to open file management for video scope files.

Home Icon

Select the home icon to return to the home screen.

Zero Reference Remote Adapter Unit

- Connect the remote adapter unit with EDW connector to the NUGEN SMPTE Controller.

Note: The Fiber test includes results of both fibers simultaneously looped through the remote unit.

- Press the Power button to power on the SMPTE tester.
- Press the Source button to turn on the 1310nm laser, allow the source to warm up a few minutes then touch the Zero button to zero the 1310 reading. Press the source button again to activate the 1550nm, allow to warm a few minutes and touch the Zero button.



Remote Adapter Unit

Note: The zero reference is stored until a new zero reference is set or the unit is powered off.

Testing a Cable

- Find the male/plug FXW end of the cable to be evaluated and connect to the NUGEN SMPTE controller.
- Connect the Remote Unit to the female/socket EDW end of the cable.
- Using the Source button, cycle to 1310nm or 1550nm to test fiber at each wavelength. Observe the amount of signal loss on the control unit display to determine if the fiber is attenuated.

Note: The zero reference is stored until a new zero reference is set or the unit is powered off.

- The copper conductor tests is produce simultaneously and is presented by color code with a green (pass) or red (fail) indicator adjacent to each wire color. A successful test of the copper conductors will result in all copper indicators on the front of the control unit, displaying green (pass)

Video Microscope

Video Microscope Icons



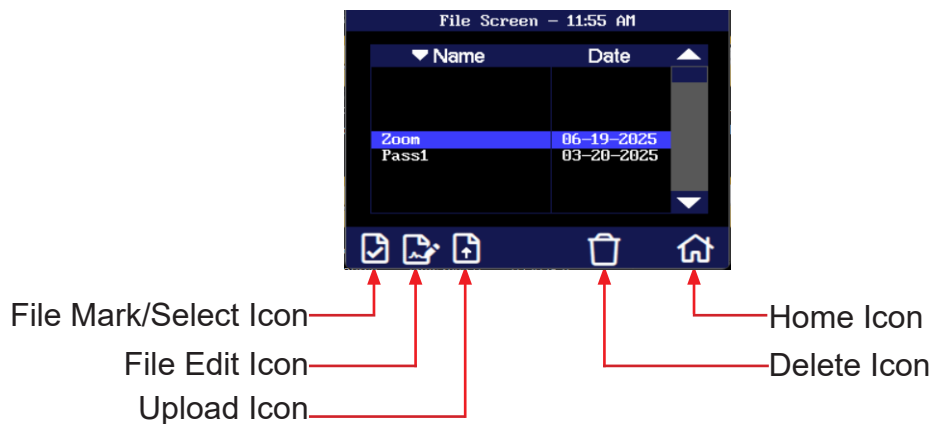
Video Scope Icon Function

- Live Icon Selecting the live icon turns on live or running mode. This is a real time reading of the connector face.
- Pause To freeze an image inspection, select the Pause icon. While in auto of the auto/pass/fail mode, pressing pause will also grade the connector end face and display calculated pass or fail.
- Zoom In Selecting Zoom In increases the image to 250x
- Zoom Out Selecting Zoom Out returns the image to 125X
- Save Icon Selecting the Save Icon opens the file save/naming screen with QWERTY keyboard

- Pass/Fail 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.)
- Brightness Selecting the brightness icon will cycle through the brightness levels available.
- Grading Rings 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.
- Edit Icon 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.
- Home Icon Select the home icon to return to the home screen.

File Management

File Management Screen/Icons



Icon Function/Use

- Mark/Select Selecting this will mark the highlighted file for uploading or deleting.
- File Edit When selected the highlighted file will open in with the QWERTY keyboard for editing.
- Upload Icon Selecting this will upload marked and highlighted files to the computer through FIS Blue Connect Software.
- Delete Icon This is a non-recoverable delete key, once selected the marked and highlighted files are erased immediately.
- Home Icon Select the home icon to return to the home screen