VIAVI Solutions

Product Brief

VIAVI
DSP Series
1G DSP with TDR

Maintain the health of your plant with one instrument, including everything needed for systemwide testing. Eliminate the need for multiple instruments – the 1G DSP with TDR conveniently combines CATV, DOCSIS 3.1 Cable Modem, and cable TDR testing.

Designed to meet maintenance technician challenges, this meter has powerful troubleshooting tools for experienced techs, yet simplifies decision making and streamlines standard processes and procedures for the more novice tech. This results in more efficient technicians, greater overall system health, and allows techs to continue using the same meter as they become more experienced.

Time Domain Reflectometer (TDR) Testing

Maintenance techs often run into a variety of issues that may require "shooting" the cable with a TDR. In many cases this means they need to bring a separate instrument along for the test. This can be costly, as another instrument is involved, and the troubleshooting process is lengthened as the tech must return to the vehicle (at least) to get the application specific instrument for the test.

A high quality, accurate, precise TDR can be included with the tech's work horse meter, the 1G DSP. When a TDR test is needed, the tech can switch to an alternate test mode on the meter instead of going back to the truck (or office) to get an application specific instrument (TDR).

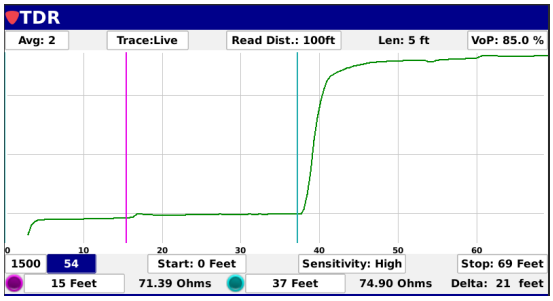
Benefits

- Provides cable installers and field technicians a full complement of RF measurement functions
- Color touch screen reduces installer entry errors and improves decision making
- Multiple tests in a single autotest app provide a convenient way to standardize tech processes and procedures
- Powerful troubleshooting tools to improve overall system health
- A high quality, accurate, precise TDR included in 1G DSP
- When TDR test is needed, tech simply switches to an alternate test mode on meter
- No need to return to truck (or office) to get a TDR

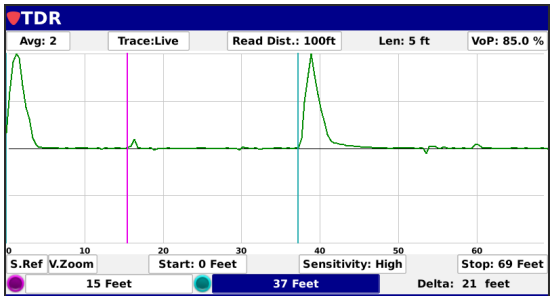
The step-type TDR has a measurement range of over 4000 meters with a zero dead zone and an accuracy of less than one foot for cables at any length. This meter is ideal for technicians who need to identify and locate impairments in coaxial cable, such as poor splices, water intrusion, pinched coax, poor quality cables, impedance mismatches, and bridged taps, or to determine how much cable is left on a reel.

Advantages of Step-Type TDR vs. Pulse-Type

- No Dead Zone – Pulse TDRs have various Dead Zone lengths depending on the pulse width selected.
- No pulse width selection required prior to measurement – techs don't have to guess the correct pulse width for an unknown length of cable.
- No gain adjustment required – the Step waveform provides high levels of returned signal strength at all ranges. Pulse TDRs require the operator to set gain levels for different cable lengths.
- Automatic cable impedance match – no operator selection required.



1G TDR raw display



1G TDR events view (traditional view)

Ordering Information

Description	Part Number
1G DSP PRO - TDR with FSA-HUM-FDR-SRC-TCP-LDT-EVS	TRI-DSP-1G-D31-TDR-PRO
1G DSP SWEEPLESS - TDR with FWD/REV Sweepless Sweep	TRI-DSP-1G-D31-TDR-SWPLS
1G DSP SWEEP - TDR with FWD/REV Sweepless-Active Sweep	TRI-DSP-1G-D31-TDR-SWEEP

VIAVI Solutions

Contact Us **+1 844 GO VIAVI**
(+1 844 468 4284)

To reach the VIAVI office nearest you,
visit viavisolutions.com/contact

dspseries-pb-cab-nse-ae
30187458 900 0918