

- Advanced Home Certification Capabilities Simplify Installation and Troubleshooting with Channel Plan Auto Discovery
- DOCSIS 3.1 Cable Modem & 1.25 GHz RF Measurement Range
- Intuitive, Color Touchscreen with Simple Pass/Fail Indicators Reduces Installer Entry Errors and Improves Decision Making
- Multiple Tests in a Single Autotest App Provide a Convenient way to Standardize Tech Processes & Procedures
- Powerful Troubleshooting Tools to Improve the Overall Health of the System
- High-Intensity LED Flashlight Designed for Working in Cramped, Dark Spaces



The precision and power of a field analyzer with an easy-to-use interface of a smart device

The Standardization Solution

Trilithic's 360 DSP is the first meter designed specifically to simplify Home Certifications. Built from the ground up, tailored specifically for the needs of fulfillment, this meter is ideal for standardizing processes and procedures for installation and service. The 360 DSP also includes a price point that makes it feasible for system operators to outfit their entire fleet.

Tailored for the challenges faced by installers, contractors, and service techs, this go-to next-gen meter comes equipped with all of the powerful troubleshooting tools for the advanced tech, yet helps simplify decision making and streamlines standard processes and procedures for the more novice tech. This improves tech efficiencies, the overall health of the entire system, and allows techs to grow with the meter.

Next-Gen Features

The 360 DSP features an intuitive, color touchscreen interface, simple pass/fail indicators, and autotest apps to streamline certification and make the installer's job easier.

Everything about this next-gen meter was built with the technician in mind—from the longest battery life and quickest charge time of any installation meter, to its unique, built-in LED flashlight and glow in the dark keypad for those dark, cramped spaces.

With its next-generation smart device technology, the 360 DSP is the easiest to use, most feature-rich, and best-performing meter available for installation and troubleshooting of residential customer accounts.

Comprehensive Testing

The 360 DSP makes Home Certification a breeze for technicians at all levels, including installation, service, and contractors. Techs will appreciate the advantages of a quick and efficient device at their disposal, featuring a flexible and easy-to-operate interface inspired by modern smart devices.

This next-gen fulfillment tool comes equipped with powerful troubleshooting tools and simplified autotest apps to perform triple-play tests, set Home Certifications standards, and measure both Analog and Digital signals. With its built-in DOCSIS 3.1 Modem, Ethernet, and Wi-Fi communications capabilities, all testing results can be easily forwarded to the ViewPoint management software in the back office for near real-time views of measurement data.

innovative technology to keep you a *step ahead*

AVAILABLE MODELS:

- 360 DSP Base Model
P/N 2010018200
- 360 DSP Advanced Model
P/N 2010018201
- 360 DSP Pro Model
P/N 2010018202

STANDARD INTERFACES:

- Dual RF Test Ports (F-Type)
- DOCSIS 3.1 modem (1/2.5 Gbps)
- RJ45 Management Port (10/100 Mbps)
- Cable Modem Thru RJ45
- 802.11 "b/g/n" 2.4/5 GHz Wi-Fi
- USB 2.0 Flash Drive Port

The 360 DSP supports a variety of functions, including:

- Auto discovery of channel plans
- Multi-user and multi-language support
- Create jobs right on the meter
- Built-in web browser, real-time data transmission
- Interactive home certification process

BASE MODEL TESTING FEATURES:

- Forward Spectrum Analysis (5 to 1250 MHz)
- Return Spectrum Analysis (4 to 205 MHz)
- Channel Plan Auto Discovery
- Channel Plan Scan
- Tilt Measurement
- Analog NTSC/PAL Channel Measurements
 - Video/Audio Level
 - Delta V/A
 - Carrier-to-Noise
 - HUM
- Digital QAM Channel Measurements
 - Level
 - Pre/Post BER
 - MER
 - Constellation
 - Equalizer
 - BER vs Time
 - Errored Seconds
 - Severely Errored Seconds
 - HUM
- Digital OFDM Channel Measurements
 - Average Level
 - Max P/V
 - In-Channel Tilt
 - PLC Constellation
 - PLC Level
 - PLC Pre/Post BER
 - PLC MER
 - Decoder Stress vs Time
 - Summary for Default Profile
- Cable Modem Statistics
 - Priority
 - Channel Frequency
 - Tx/Rx Level
 - Signal-to-Noise Ratio
 - Pre/Post BER/CWER
 - MER

BASE MODEL TESTING FEATURES (CONTINUED):

- Cable Modem OFDM Measurements
 - Summary for All Profiles
 - Advanced Profile Statistics
 - Multiple Profile Selection
 - Continuous Pilot Distributed MER
 - Subcarrier Measurement Details
- Net Tests
 - Ping
 - Trace Route
 - Throughput
 - VoIP
 - Modem Speed Test
- Wi-Fi Survey (2.4/5 GHz)

ADVANCED MODEL TESTING FEATURES:

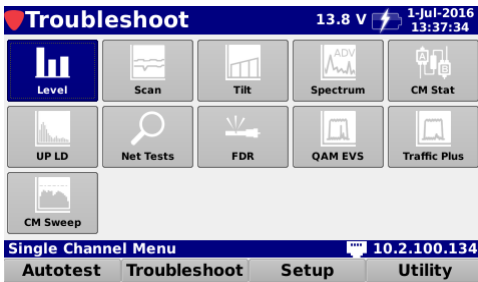
- Frequency Domain Reflectometer
- Source Generator (CW, QAM & OFDM)

PRO MODEL TESTING FEATURES:

- Upstream TrafficControl Plus
- Upstream Linear Distortions Measurement
- QAM Error Vector Spectrum Analysis

Simple Yet Powerful

Providing the widest range of functions for an installer available today (as standard options), the 360 DSP includes virtually all the testing options an installer or service technician needs to verify service quality and easily identify and fix problems in the field.



Autotest Apps

The 360 DSP features next-generation autotest applications that practically walk the technician through a job. By performing standardized measurement tests at various required locations on the job site using user set test plans, channel plans, and limit sets, the meter very clearly indicates (using color and symbols) what areas still need attention, before the technician leaves the job site.

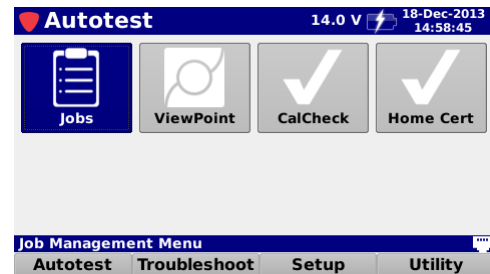


Multi-user support allows technicians that work in various territories to easily switch channel plans, standardized autotest apps, and test limits or login as a completely different user. Connecting to ViewPoint allows techs to upload job data in near real-time as well as transmit and receive channel plans, autotests, and firmware.

Leaving less room for entry error, this new simple user interface can translate into less training and more efficient time in the field for techs. The 360 DSP comes equipped with all of the required troubleshooting tools for the advanced technician. It also offers a higher comfort factor for novice technicians, reducing decision making in the field, which can ultimately result in more productive work days and more satisfied customers.

Justify ROI

Field operations managers can now easily verify that all of their technicians are performing the proper tests and are doing so at the right place and time—in near real-time. The potential benefits include identifying techs who need additional training, improving team performance, reducing truck rolls, and cutting operating costs.



At a higher level, ViewPoint can deliver simple, standardized, system-wide reports and dashboards that can help a director or VP of technical operations view the entire operation at a glance to gain information that can be used to reduce service and repeat trouble calls.

Essentially, this integrated system approach allows cable operators to see much more of their certification operations and use the information in practical ways. The insights can enable them to identify both localized problems and high-level system issues to make decisions based on a clearer understanding of their overall operations and the associated ROI.

viewpoint		Meter 360133722	Tech ID 9710
Receive (28)		Send (24)	
Channel Plans	4/4	Jobs	0
Limit Sets	6/6	Data Logs	14
Autotests	3/3	Screen Shots	10
Ethernet Limit Sets	1/1		
Ethernet Frames	6/6		
Ethernet Streams	8/8		
Ethernet Targets	0/0		
Settings	0/0		
Ready		Sync	

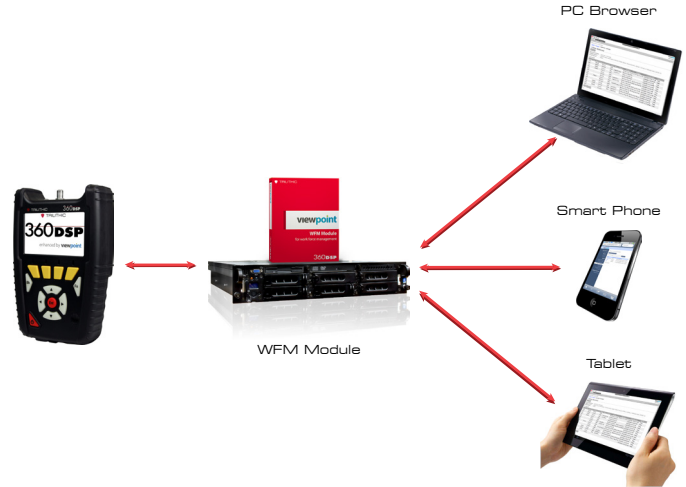
Combining 360 DSPs in the field with the new ViewPoint WFM Module in the back office, managers can view the health of their entire system—in near real-time, for total RF installation management.

TOTAL SYSTEM MANAGEMENT

Combining the 180 DSP, 360 DSP & 1G DSP meters in the field with the new ViewPoint Integrated Server in the back office, managers now have simplified access to intelligent management tools for monitoring, assessing and improving the efficiency of their total operation while making it even easier to obtain consistent, repeatable results that give supervisors that birds-eye view of the field for Total System Management.

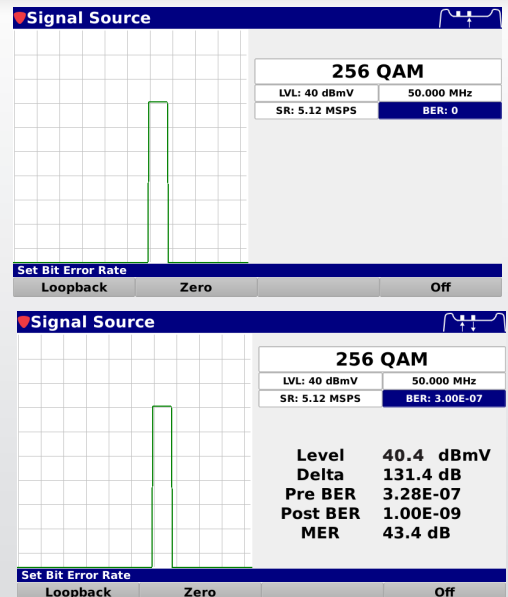
By unifying an entire MSO's field operations in one convenient dashboard, managers can easily verify compliance and quality throughout the entire plant, either by home, system, region, division, or any other attribute from a billing system.

This simple and completely customizable integrated system of field analysis and reporting tools allows managers to watch over their entire field operations in one dashboard, comparing each location in the system, analyzing the overall health of their entire organization, and addressing concerns in near real-time.



DUAL RF TEST PORTS & SOURCE GENERATOR

- The meter features two (2) built-in test ports (standard) for RF loopback testing that allow for the simultaneous transmission of a source signal from the TX Port and the measurement of the same signal using the TX/RX Port
- The optional Source Generator feature (Advanced Model) provides the ability to transmit continuous wave (CW), 16 to 256 QAM, or 4K/8K OFDM carriers within the return band from 5 to 85 MHz with user-adjustable bit error injection
- When combined, these features allow techs to use a single field analyzer to identify issues with active and passive devices, such as amplifiers, nodes, pads, and cables

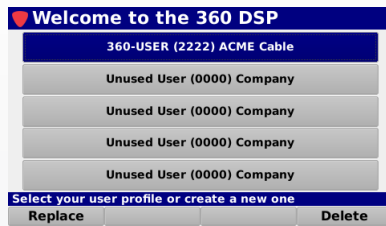


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BASIC OPERATIONAL FEATURES

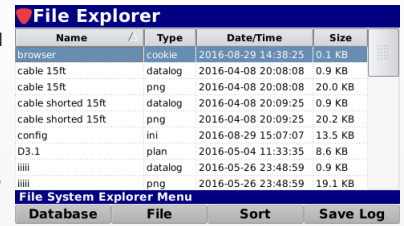
Multiple User Profiles

- Allows up to 5 technicians to share a 360 DSP
- Each technician has his or her own profile, which loads in completely different sets of channel plans, autotests, etc.



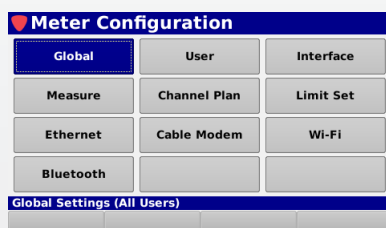
Intuitive File Management

- Intuitive File Explorer that displays the files that are stored in the meter
- View and sort files by: name, type, size, and date/time saved
- Export files to USB, delete files, database backup & restore, and save system logs



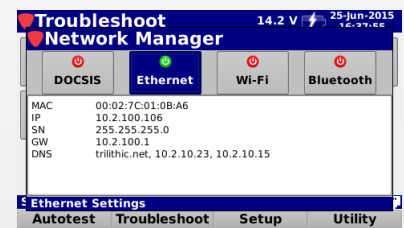
Easy Setup & Configuration

- Global configuration settings can be applied to all users of the device, while other settings can be tailored to suit each user
- Setting adjustments can be locked out using the ViewPoint software



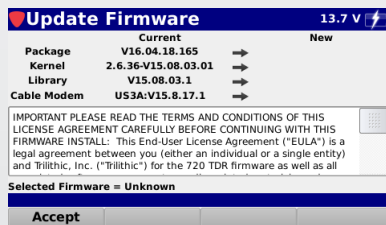
Simple Network Management

- Choose between Ethernet, Wi-Fi, or cable modem connection methods
- Provides connection details such as MAC, IP, gateway, and DNS



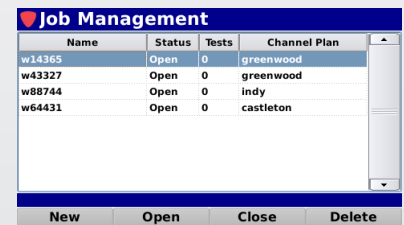
Convenient Firmware Updates

- Easily update the meter firmware through the web or via USB to ensure you always have the latest features



Job Management

- Create and close out your jobs from this screen
- Shows what channel plan and how many tests have been run on a particular job



Web Browser

- The web browser allows you to view your favorite websites
- The web browser displays a default home page which includes a list of six favorite websites. These favorites can be set to any IP address or URL using the ViewPoint WFM Module software



Remote Access

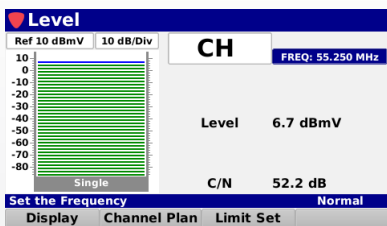
- Remotely access the meter using any active network connection
- Control and monitor almost any function of the meter from your PC, smart phone, or tablet



LEVEL MEASUREMENTS

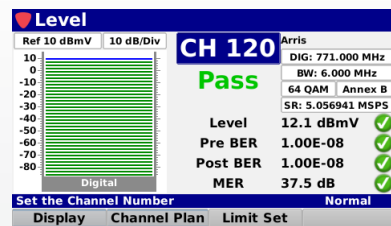
Single Frequency Pilot Carriers

- Shows a bar graph for the level of the selected single frequency carrier channel
- Provides Pass/Fail results for Level and Carrier-to-Noise measurements when compared against user-defined limit sets



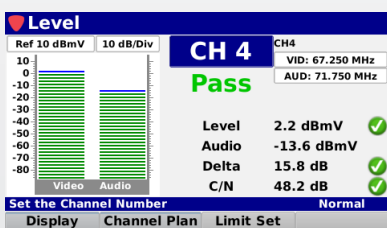
SQ-QAM Carriers

- Shows a bar graph for the level of the selected digital SC-QAM channel
- Provides Pass/Fail results for Level, Pre-BER, Post-BER, and MER measurements when compared against user-defined limit sets



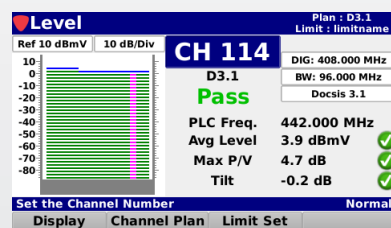
NTSC/PAL/SECAM Carriers

- Shows a bar graph for the video and audio levels of the selected analog channel
- Provides Pass/Fail results for Video Level, Audio Level, Delta V/A, and Carrier-to-Noise measurements when compared against user-defined limit sets



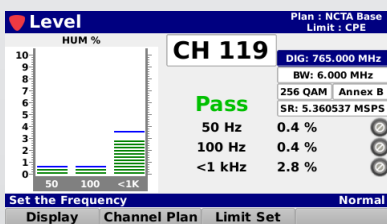
OFDM Carriers

- Shows the Physical Link Channel (PLC) frequency and a bar graph for the level of the selected digital OFDM channel
- Provides Pass/Fail results for Average Level, Max P/V, and Tilt measurements when compared against user-defined limit sets



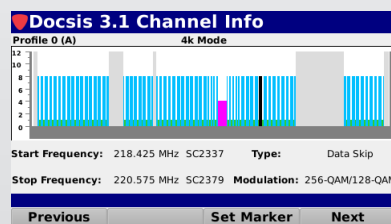
Analog & Digital HUM Measurement

- Measure the amplitude of 50/60 Hz, 100/120 Hz, and low frequency interference present on analog or digital channels
- Provides Pass/Fail results for limit sets



DOCSIS 3.1 Channel Information

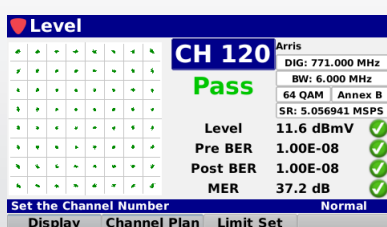
- Displays the PLC, BPSK Sub-Carriers, Blocks of QAM Sub-Carriers, and Exclusion Zones defined within Profile A of the DOCSIS 3.1 OFDM Channel
- Provides Markers for closer inspection of individual carriers, which include the start/stop frequency of the carrier as well as its type and modulation



CONSTELLATION MEASUREMENTS

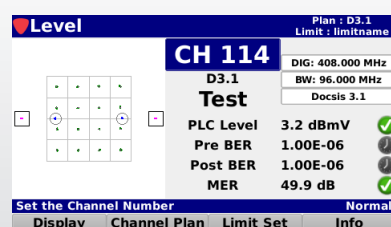
SC-QAM

- Shows the constellation diagram of the selected digital SC-QAM channel
- Provides Pass/Fail results for Level, Pre-BER, Post-BER, and MER measurements when compared against user-defined limit sets



OFDM Physical Link Channels (PLC)

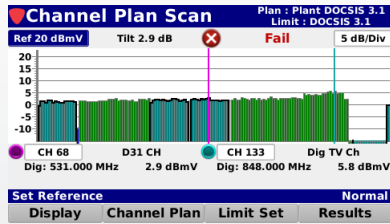
- Shows the constellation diagram for the PLC continuous pilots, BPSK symbols, and 16 QAM data of the selected digital OFDM channel
- Provides Pass/Fail results for PLC Level, Pre-BER, Post-BER, and MER measurements when compared against user-defined limit sets



MULTI-CHANNEL MEASUREMENTS

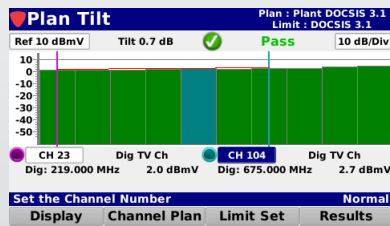
Channel Plan Scan

- Full channel plan scan displays the frequency response of the entire channel lineup
- Provides Pass/Fail results for limit sets and color-coded channels: blue for analog, green for SC-QAM digital, and aqua for OFDM digital



Tilt Measurement

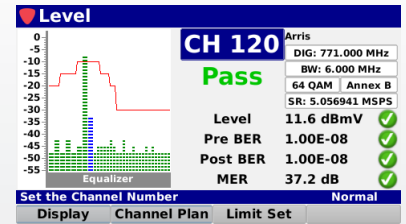
- Full channel plan scan displays the frequency response of the entire channel lineup
- Provides Pass/Fail results for limit sets and color-coded channels: green for digital and blue for analog
- Tilt shows the level difference between two selectable channels



DIGITAL TROUBLESHOOTING

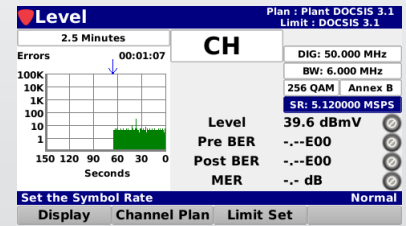
Equalizer Tap Display

- Shows the equalizer tap levels of the selected digital SC-QAM channel in comparison to the DOCSIS specification for allowable correction
- Easy identification with Pass/Fail results for RF issues and impairments related to group-delay and microreflections



BER-Over-Time Display

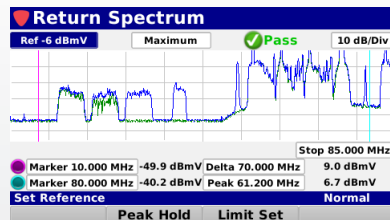
- Shows the BER measurement of the selected digital SC-QAM channel over a user-defined time period
- The graph displays green lines for Pre-BER and red lines for Post-BER and provides Pass/Fail results for Level, Pre-BER, Post-BER, and MER measurements when compared against user-defined limit sets



SPECTRUM MEASUREMENTS

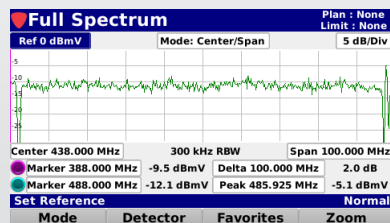
Return Spectrum Measurement

- Provides the ability to view raw return spectrum traces from 4 to 205 MHz
- Fast DSP spectrum snapshots give the user extreme speed to capture fast transients on the upstream



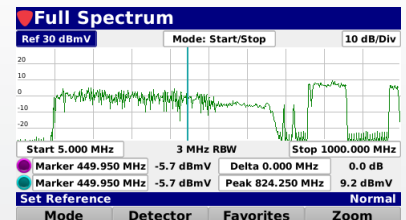
OFDM Channel Spectrum

- Provides the ability to view raw forward and return spectrum traces of full 24 to 192 MHz OFDM channels
- Fast DSP spectrum snapshots give the user extreme speed to capture fast transients on the upstream and downstream



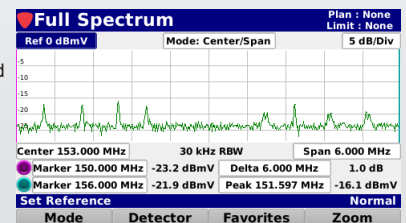
Full Spectrum Measurement

- Provides the ability to view raw forward spectrum traces from 5 to 1250 MHz
- Fast DSP spectrum snapshots give the user extreme speed to capture fast transients on the downstream



OFDM Physical Link Channels (PLC)

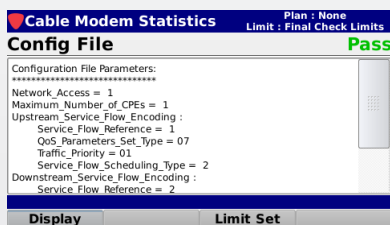
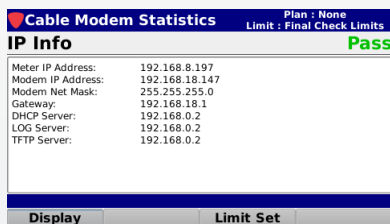
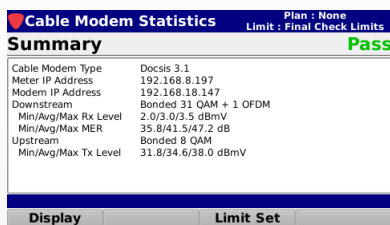
- Provides the ability to view raw spectrum traces of the continuous pilot carriers needed for locking onto an OFDM signal
- Identify locations of ingress or interference that could potentially affect the PLC



CABLE MODEM MEASUREMENTS

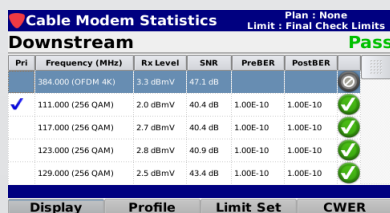
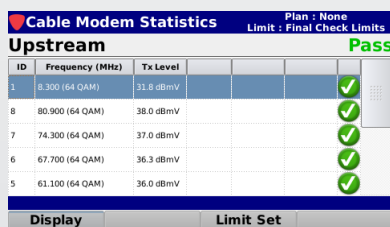
Cable Modem Network Connectivity & Status

- The Network Manager view allows users to quickly and easily use the internal cable modem for network connectivity and performance testing
- Upon connecting, the Network Manager displays the MAC address, IP address, subnet, gateway, and DNS information for the cable modem network connection
- The Cable Modem Statistics view provides a summary that displays the type of Cable Modem being used, meter IP address, and modem IP address
- This view also displays the current channel bonding along with the min/max/avg Rx Level & BER of the downstream channels and the min/max/avg Tx Level of the downstream channels



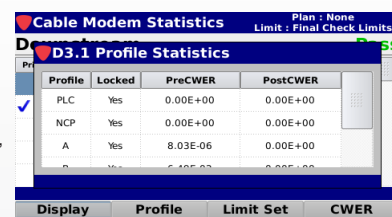
Upstream & Downstream Cable Modem Statistics

- Internal DOCSIS 3.1 modem that operates in both DOCSIS 3.0 (32x8) and DOCSIS 3.1 modes
- Measure up to eight (8) upstream SC-QAM channels
- Displays the ID, channel frequency, Tx Level, SNR, PreBER, and Post BER of each upstream channel
- Measure up to 32 downstream SC-QAM channels when operating in a DOCSIS 3.0 only environment
- Measure up to two (2) downstream OFDM channels and 30 downstream SC-QAM channels when operating in a mixed DOCSIS 3.0 & DOCSIS 3.1 environment
- Displays the primary status, channel frequency, Rx Level, SNR, PreBER, and Post BER of each downstream channel



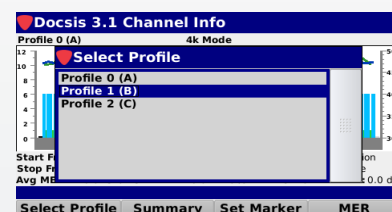
OFDM Profile Statistics

- Displays the performance statistics for all of the available OFDM profiles
- Displays the Profile Name, Locked Status, PreBER/CWER, and PostBER/CWER of each downstream DOCSIS 3.1 OFDM Channel



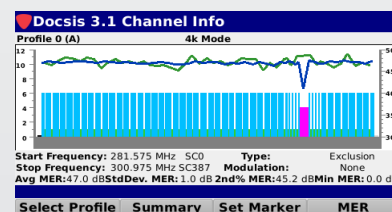
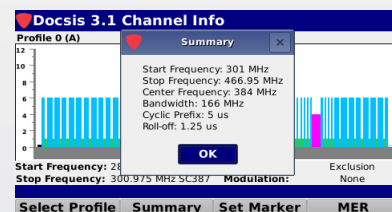
OFDM Multiple Profile Selection

- Capability to decode up to four (4) Profiles 0-3 (A-D)
- Allows for switching between the multiple profiles.



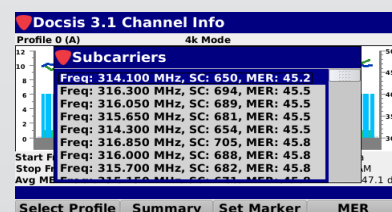
OFDM Profile Summary with Distributed MER

- Displays the PLC, BPSK Sub-Carriers, Blocks of QAM Sub-Carriers, and Exclusion Zones defined within each profile of the DOCSIS 3.1 OFDM Channel
- Provides Markers for closer inspection of individual carriers, which include the start/stop frequency of the carrier as well as its type and modulation.
- MER is measured on all continuous pilot carriers and is displayed as a plot of MER versus frequency. This view also displays the average, standard deviation, 2nd percentile, and minimum MER for the entire OFDM channel.



OFDM Subcarrier Measurement Details

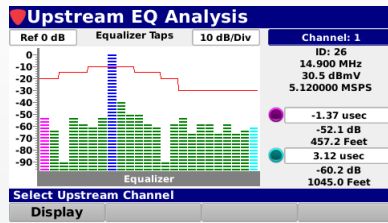
- Displays the performance statistics for all of the OFDM subcarriers
- Displays the Frequency, Subcarrier Number, and MER of each individual OFDM subcarrier



UPSTREAM LINEAR DISTORTIONS TESTING

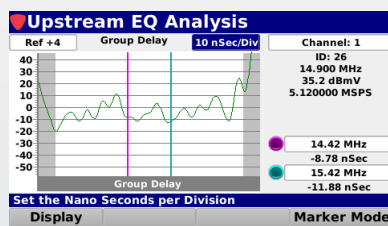
Equalizer Taps Measurement

- The optional *Upstream Linear Distortions* feature (Pro Model) is used to determine if equalization is hiding potential problems within the upstream
- View the pre-equalization of the upstream channel and the distance to the EQ taps



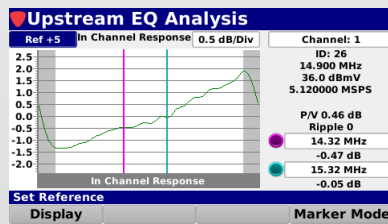
Group Delay Measurement

- The optional *Upstream Linear Distortions* feature (Pro Model) is used to determine if equalization is hiding potential problems within the upstream
- View the pre-equalization of the upstream channel and group delay



In-Channel Response Measurement

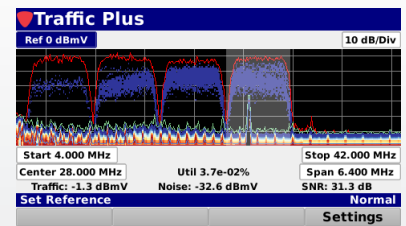
- The optional *Upstream Linear Distortions* feature (Pro Model) is used to determine if equalization is hiding potential problems within the upstream
- View the pre-equalization of the upstream channel and the in-channel frequency response



INGRESS UNDER CARRIER MEASUREMENTS

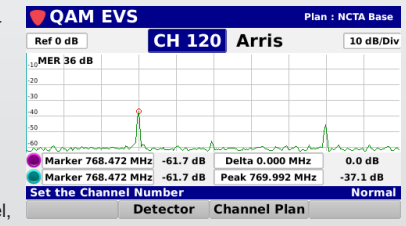
Upstream Traffic Control Plus

- The optional *Upstream TrafficControl Plus* feature (Pro Model) allows for a high-speed real-time view of ingress in the upstream
- Heat map allows for simplified view of ingress hotspots
- 100% coverage so technicians can see the shortest cable modem bursts and ingress even under the busiest upstream



Downstream QAM Error Vector Spectrum

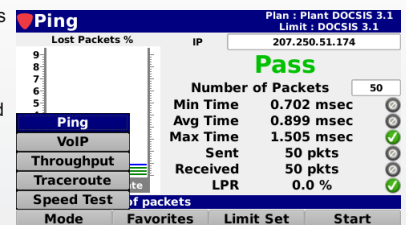
- The optional *QAM Error Vector Spectrum* feature (Pro Model) enables tuning to downstream QAM channels to display Error Vector Spectrum (EVS)
- Display the ingress that is present "underneath" an upstream cable modem channel, or any bursty signal



NETWORK CONNECTIVITY TESTING

Network Test Suite

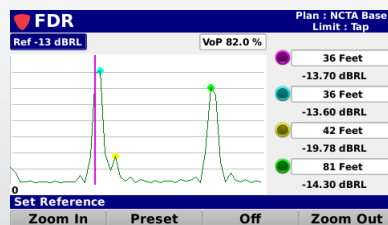
- The Network Test Suite includes Ping, VoIP, Throughput, and Traceroute tests
- These tests provide a quick and simple connectivity test to your favorite testing sites or to the Trilithic ACTS software



CABLE CONTINUITY TESTING

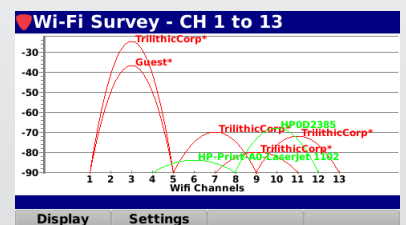
Frequency Domain Reflectometer

- The optional *Frequency Domain Reflectometer* feature (Advanced Model) is used to determine the distance to cable faults (opens, shorts, splitters, etc.)
- Events shown on a distance versus amplitude display
- Markers to identify the distance and loss at the source of the reflection



N-Speed Wi-Fi with Survey Test Mode

- Built-in 802.11 "b/g/n" 2.4/5 GHz wireless adapter
- Actively view live signal strengths of Wi-Fi networks in the area
- Provides Wi-Fi details such as SSID, channel, and power level



MEASUREMENT SPECIFICATIONS

Level Measurement

Channel Bandwidth	6 MHz and 8 MHz
Amplitude Range	-40 dBmV to +50 dBmV
Modulation Types	Analog: NTSC, PAL B/D/G/H/I/K/N & SECAM B/D/G/H/I/K Digital: 16/32/64/128/256 QAM Annex A, 64/256 QAM Annex B/C, OFDM 4K/8K
Analog Measurement Accuracy	±0.75 dB @ 77° F (25° C) ±2.0 dB from 0 to 122° F (-18 to 50° C)
Digital Measurement Accuracy	±0.75 dB @ 77° F (25° C) ±2.5 dB from 0 to 122° F (-18 to 50° C)
Resolution	0.1 dB

Spectrum Measurement

Frequency Range	Return Path: 4 to 205 MHz Forward Path: 5 to 1250 MHz
Dual Return Path Diplexers	42 MHz: 4 to 42 MHz 85 MHz: 4 to 85 MHz
Manually Adjustable Resolution Bandwidth	Return Path: 300 kHz Forward Path: 10, 30, 100, and 300 kHz 1 and 3 MHz
Auto Ranging Resolution Bandwidth	10 kHz: Span ≤ 3.5 MHz 30 kHz: Span ≤ 12.0 MHz 100 kHz: Span ≤ 35.9 MHz 300 kHz: Span ≤ 300 MHz 1 MHz: Span ≤ 259.2 MHz 3 MHz: Span ≥ 359.3 MHz
Display Spans	Return Path: 4 to 42 MHz, 4 to 65 MHz, 4 to 85 MHz or 4 to 205 MHz Forward Path: User-selectable in 1 kHz steps
Display Scale	1, 2, 5, or 10 dB/division
Display Range	8 vertical divisions (when marker bar is hidden)
Spurious Free Dynamic Range	60 dB @ 25° C (77° F) (+50 dBmV)
Sensitivity (terminated)	Return Path: -40 dBmV (4 to 205 MHz) Forward Path: -40 dBmV (5 to 1250 MHz)

Digital Channel Measurement

Deep Interleave Compatibility	Yes
Downstream MER	40 ±2 dB @ +6 dBmV RF Input Level 34 ±2 dB @ -6 dBmV RF Input Level
Downstream BER	Method: True BER, derived from code words not from MER Standard: ITU J.83 annex A, B, C Range: 1 E-7 to 1 E-9 @ -6 dBmV RF Input Level
Symbol Rates	≥ 2 msp/s; ≤ 6.952 msp/s

Cable Modem Measurement

Protocol Support	DOCSIS 1.1 / 2.0 / 3.0 / 3.1 SNMP V1, V2c, V3
Compliance Certificates	FCC
CM Diplexer	85 MHz: 5 to 85 MHz
Receiver Demodulation	Frequency (edge to edge): 108 to 1218 MHz Channel Bandwidth: 6 MHz Signal Level: -15 to 15 dBmV DOCSIS 3.0 Demodulation: 64 QAM, 256 QAM DOCSIS 3.0 Data Rate: Up to 1.2 Gbps with 32 downstream channel bonding (DOCSIS 32x8) DOCSIS 3.1 Demodulation: Multi-Carrier OFDM 16 to 4096 QAM DOCSIS 3.1 Data Rate: Up to 2.5 Gbps with 2 OFDM 196 MHz Downstream Channels
Transmitter Modulation	Frequency (edge to edge): 5 to 85 MHz Signal Level: Controlled by CMTS through power ranging function DOCSIS 3.0 Modulation: QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, and 128 QAM (SCDMA only) DOCSIS 3.0 Data Rate: Up to 320 Mbps with 8 upstream channels bonding DOCSIS 3.1 Modulation: Multi-Carrier OFDMA BPSK to 4096 QAM DOCSIS 3.1 Data Rate: Up to 1 Gbps with 2 OFDMA 96 MHz Upstream Channels

Carrier-to-Noise Measurement (In-service, non-scrambled standard channels only)

Minimum Input Level for Full Range	+10 dBmV
Dynamic Range	50 dB
Resolution	< 0.5 dB

Tilt Measurement

Max Number of Carriers	14 (dependent on favorite channel setup)
High/Low Delta Resolution	0.1 dB
Scan	Video, audio, pilot, and digital carriers

Analog & Digital HUM (In-service, non-scrambled standard channels only)

Minimum Input Level	0 dBmV
Range	0 to 5%
Resolution	0.1%
Accuracy	±0.5%

Frequency Domain Reflectometer (Advanced and Pro Models)

Velocity of Propagation	Adjustable from 60.0 to 99.0% in 0.1% increments
Working Distance	Minimum: 755 feet (230 meters) @ VoP of 60.0% Maximum: 1247 feet (380 meters) @ VoP of 99.0%
Amplitude Range	0 to -80 dBRL
Distance Accuracy	5 feet

Source Generator (Advanced and Pro Models)

Modulation	CW, 16 QAM, 32 QAM, 64 QAM, 128 QAM, 256 QAM, OFDM (4K/8K)
OFDM Subcarrier Modulation	16 to 4096 QAM, PLC Configurable
Frequency Range	5 to 85 MHz
Source Width	CW: 50 kHz QAM: 6 MHz OFDM: 6 to 24 MHz
Amplitude	CW: Adjustable from 10 to 55 dBmV QAM: Adjustable from 10 to 45 dBmV OFDM: Adjustable from 10 to 40 dBmV
QAM Symbol Rates	0.64, 1.28, 2.56, 5.12 MSPS
QAM Error Rates	BER: Adjustable from 0 to 1.00E-2 MER: > 38 dB
CW Source Accuracy	±2 dB

PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

Physical Specifications

Construction	Rubber overmolded plastic housing
Control	Glow in the dark keypad and LCD touchscreen and/or via a wireless connection to a mobile device such as a laptop, tablet, iPad® or iPhone®, or Android® handset
Display	Color LCD touchscreen 480 x 272 pixels (approx 4" x 2.25")
Annunciators	Audible annunciator for key strokes
Antenna	Internal Wi-Fi antenna, 2 dB gain
Flashlight	High-intensity LED (0.25W)
Dimensions w/o Case (H x W x D)	8.6 x 6.1 x 2.00 in (21.84 x 15.94 x 5.08 cm)
Dimensions w/ Case (H x W x D)	9.6 x 7.1 x 3.00 in (24.38 x 18.03 x 7.62 cm)
Weight w/o Case	2.9 lbs (1.32 Kg)
Weight w/ Case	3.9 lbs (1.79 Kg)

Available Interface Types

Tx Test Port	75 Ohm Replaceable F-Type Connector Source Generator Output Transmission Only
Tx/Rx Test Port	75 Ohm Replaceable F-Type Connector Upstream & Downstream RF Measurements DOCSIS 3.1 Modem
Ethernet	RJ45 Management Port (10/100 Mbps)
Wi-Fi	802.11 b/g/n 2.4/5 GHz Wi-Fi Adapter
USB	USB 2.0 Type-A Standard Port

Battery & Power Specifications

Operating Time	8 to 10 hours, dependent on use
Charge Time	4 hours
Battery	Two 2600 mAh @ 7.4V Li-Ion internal batteries, factory replaceable
Power Adapter	Input: 100 to 240 VAC ~ 47 to 63 Hz, 1.1A Max Output: 15 VDC, 3.3A

Environmental Specifications

Storage & Operating Temperature	-18° to +50° C (0° to 122° F)
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INCLUDES THE FOLLOWING:

360 DSP Meter
 Protective carrying case
 Shoulder strap
 AC to DC Power Adapter & Battery Charger
 AC Power Cable
 Touchscreen Stylus

SOFTWARE:

ViewPoint Express Configuration Software for the 360 DSP
P/N 0930215000
 ViewPoint Integrated Server with WFM Module for the 360 DSP
P/N 2011656002
 ACTS™ Software
P/N 0930144000

RELATED PRODUCTS:

Precision Test Cable (I/O-15)
P/N 2071527048
 I-Stop 1 GHz Test Probe
P/N 2011728000
 TLB-46 Return Measurement Low-Pass Filter
P/N 2011640000