

- 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  
P/N 2011756XXX

**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

**STANDARD TESTING FEATURES:**

- Level Measurement
- C/N Measurement
- QAM Measurement (MER/BER/Constellation/EQ)
- Complete Channel Plan Scan with Tilt Measurement
- Return Spectrum Analysis (4 to 110 MHz)
- Cable Modem Statistics
- Ping, Trace Route, VoIP & Throughput Measurements

**OPTIONAL TESTING FEATURES:**

- Analog & Digital HUM Measurement
- Forward Spectrum Analysis (5 to 1250 MHz)
- Bluetooth Communications Adapter
- Frequency Domain Reflectometer
- Upstream Linear Distortions Measurement
- QAM Error Vector Spectrum Analysis
- Source Generator (CW, QAM & OFDM)
- Upstream TrafficControl Plus
- Cable Modem Sweep

## 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.



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.

# 360DSP with Docsis 3.1

Installation & Service Meter

## TOTAL SYSTEM MANAGEMENT

Combining the 180 DSP, 360 DSP, 720 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.

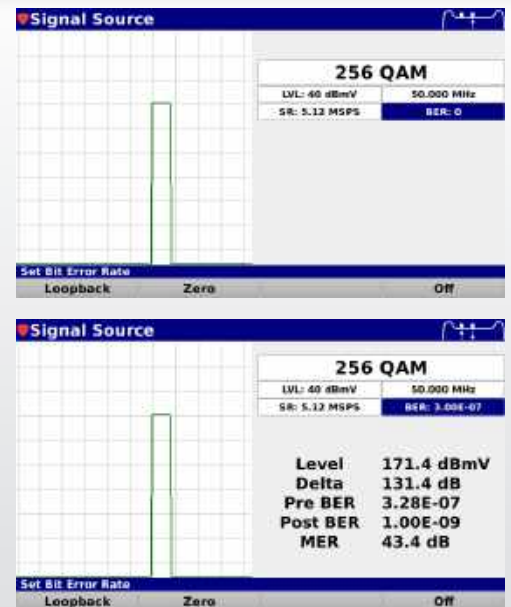
By unifying an entire MSO's field operations in one convenient dashboard, managers can easily verify compliance and quality throughout the entire plant, either by home, system, region, division, or any other attribute from a billing system.

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 (OPTIONAL)

- 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 Source Generator Option 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 maintenance 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

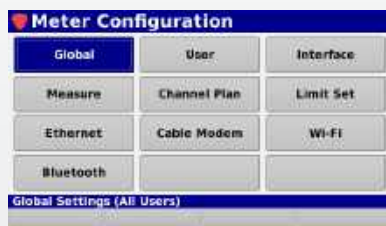
### Multiple User Profiles

- 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.



### 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



### Convenient Firmware Updates

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



### Bluetooth Communications Adapter (OPTIONAL)

- Remote control of the meter via a Class II Mini Bluetooth Adapter (v2.1) with a 10 meter range
- Connect to an iPad that has device tethering enabled by the service provider



### 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



### Simple Network Management

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



### 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



### Remote Access

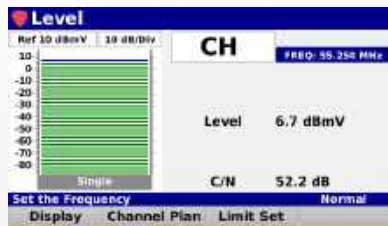
- Remotely access the meter using any active network connection
- Control and monitor almost any function of the meter from your PC, smart phone, or tablet



LEVEL MEASUREMENTS

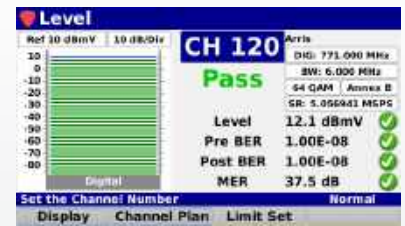
Single Frequency Pilot Carriers

- 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



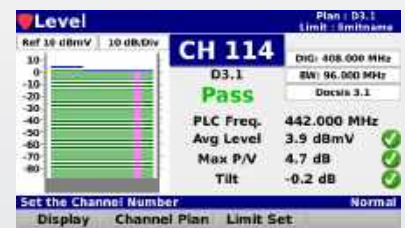
NTSC/PAL/SECAM Carriers

- 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



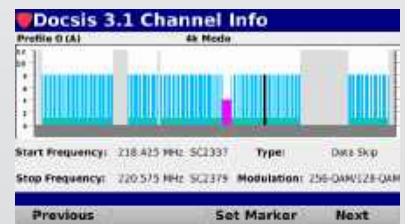
Analog & Digital HUM Measurement

- 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

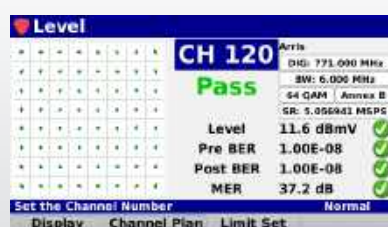
- Displays the PLC, BPSK Sub-Carriers, Blocks of QAM Sub-Carriers, and Exclusion Zones defined within Profile A of the DOCSIS 3.1 OFDM Channel
- Provides Markers for closer inspection of individual carriers, which include the start/stop frequency of the carrier as well as its type and modulation



CONSTELLATION MEASUREMENTS

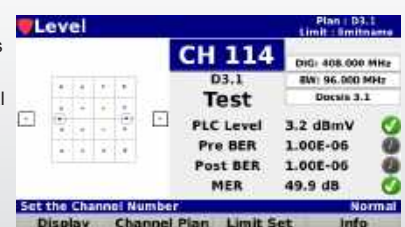
SC-QAM

- 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)

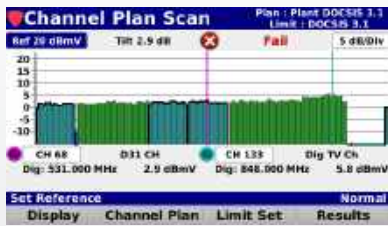
- Shows the constellation diagram for the PLC continuous pilots, BPSK symbols, and 16 QAM data of the selected digital OFDM channel
- Provides Pass/Fail results for PLC Level, Pre-BER, Post-BER, and MER measurements when compared against user-defined limit sets



## MULTI-CHANNEL MEASUREMENTS

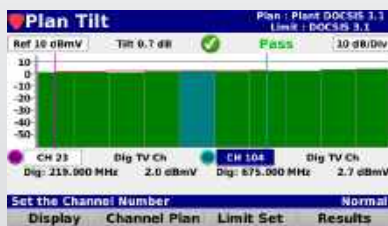
### Channel Plan Scan

- 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

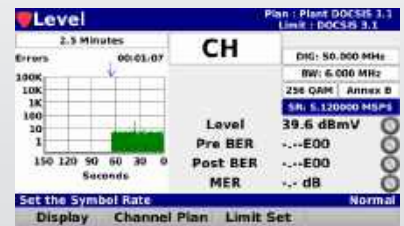
### Equalizer Tap Display

- 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

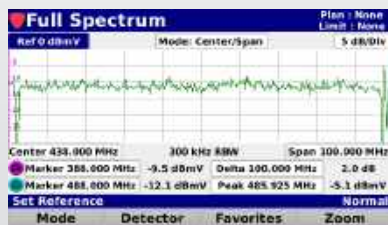
### Return Spectrum Measurement

- Provides the ability to view raw return spectrum traces from 4 to 110 MHz
- Fast DSP spectrum snapshots give the user extreme speed to capture fast transients on the upstream



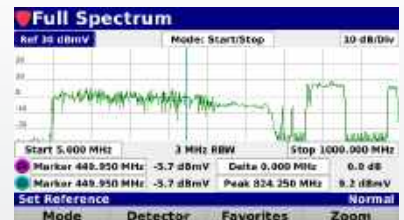
### OFDM Channel Spectrum

- 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



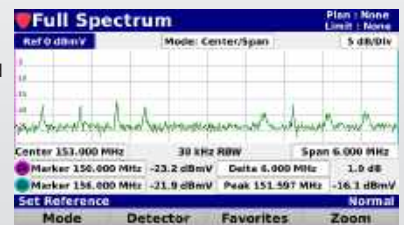
### Full Spectrum Measurement (OPTIONAL)

- 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)

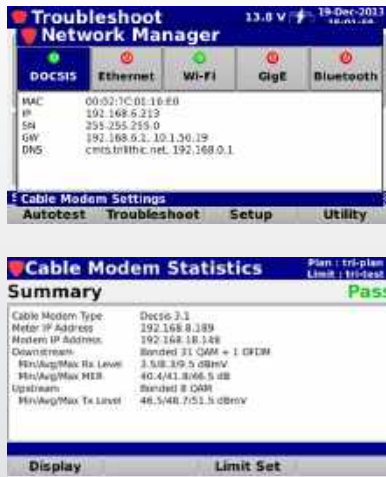
- Provides the ability to view raw spectrum traces of the continuous pilot carriers needed for locking onto an OFDM signal
- Identify locations of ingress or interference that could potentially affect the PLC



## 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

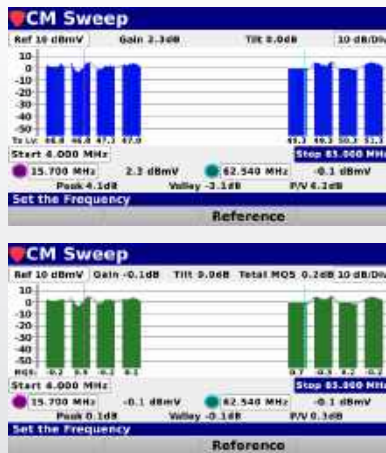
- Internal DOCSIS 3.1 modem that operates in both DOCSIS 3.0 (32x8) and DOCSIS 3.1 modes
- Measure up to eight (8) upstream SC-QAM channels
- Displays the ID, channel frequency, Tx Level, SNR, PreBER, and Post BER of each upstream channel
- Measure up to 32 downstream SC-QAM channels when operating in 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



## IN-BAND RETURN SWEEP (OPTIONAL)

### Cable Modem (CM) Sweep

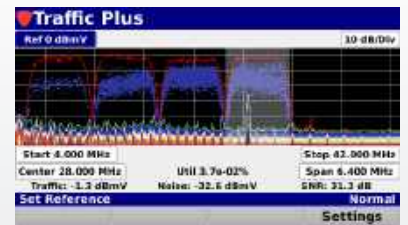
- The *CM Sweep Option* is a first of its kind, patent pending sweep that uses the cable modem built into the meter to perform in-band sweeps within your modem carriers
- This feature not only allows operators to balance the upstream, but also allows them to see the percentage of pre-equalizer effort and isolate problems between active components without causing any issues with upstream modem performance
- When this function is selected, the meter injects up to four upstream modem carriers to talk back to the CMTS and use the pre-equalized data for each of the upstream carriers to plot a frequency response of what your upstream sweep would look like with injected carriers
- This feature doesn't require any expensive headend sweep gear and works with any DOCSIS 3.0 or DOCSIS 3.1 compatible CMTS with pre-EQ enabled



## INGRESS UNDER CARRIER MEASUREMENTS

### Upstream Traffic Control Plus (OPTIONAL)

- 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 even the shortest cable modem bursts and ingress even under the busiest upstream



### Downstream QAM Error Vector Spectrum (OPTIONAL)

- Tune 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

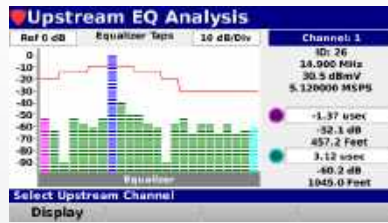




**UPSTREAM LINEAR DISTORTIONS TESTING (OPTIONAL)**

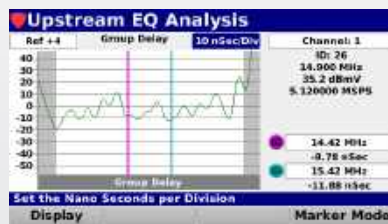
**Equalizer Taps Measurement**

- This optional measurement 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



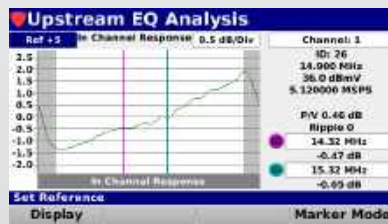
**Group Delay Measurement**

- This optional measurement 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**

- This optional measurement 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



**NETWORK CONNECTIVITY TESTING**

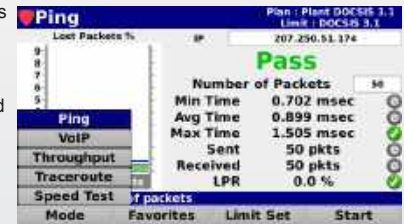
**Web Browser**

- 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



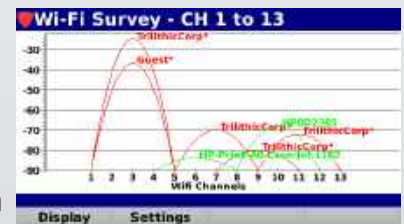
**Network Test Suite**

- 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



**N-Speed Wi-Fi with Survey Test Mode**

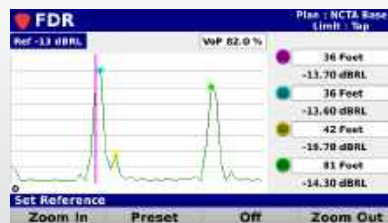
- Built-in 802.11 "b/g/n" 2.4/5 GHz wireless adapter
- Actively view live signal strengths of Wi-Fi networks in the area
- Provides Wi-Fi details such as SSID, channel, and power level



**CABLE CONTINUITY TESTING**

**Frequency Domain Reflectometer (OPTIONAL)**

- 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



**MEASUREMENT SPECIFICATIONS**
**Level Measurement**

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

**Spectrum Measurement**

<b>Frequency Range</b>	<b>Return Path:</b> 4 to 110 MHz <b>Forward Path (Optional):</b> 5 to 1250 MHz
<b>Dual Return Path Diplexers</b>	<b>42 MHz:</b> 4 to 42 MHz <b>85 MHz:</b> 4 to 85 MHz
<b>Manually Adjustable Resolution Bandwidth</b>	<b>Return Path:</b> 300 kHz <b>Forward Path (Optional):</b> 10, 30, 100, and 300 kHz 1 and 3 MHz
<b>Auto Ranging Resolution Bandwidth</b>	<b>10 kHz:</b> Span ≤ 3.5 MHz <b>30 kHz:</b> Span ≤ 12.0 MHz <b>100 kHz:</b> Span ≤ 35.9 MHz <b>300 kHz:</b> Span ≤ 300 MHz <b>1 MHz:</b> Span ≤ 259.2 MHz <b>3 MHz:</b> Span ≥ 359.3 MHz
<b>Display Spans</b>	<b>Return Path:</b> 4 to 42 MHz, 4 to 65 MHz, 4 to 85 MHz or 4 to 110 MHz <b>Forward Path (Optional):</b> User-selectable in 1 kHz steps
<b>Display Scale</b>	1, 2, 5, or 10 dB/division
<b>Display Range</b>	8 vertical divisions (when marker bar is hidden)
<b>Spurious Free Dynamic Range</b>	60 dB @ 25° C (77° F) (+50 dBmV)
<b>Sensitivity</b>	<b>Return Path:</b> -30 dBmV (4 MHz to 110 MHz) <b>Forward Path (Optional):</b> -40 dBmV (50 MHz to 1 GHz)

**Digital Channel Measurement**

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

**Cable Modem Measurement**

<b>Protocol Support</b>	DOCSIS 1.1 / 2.0 / 3.0 / 3.1 SNMP V1, V2c, V3
<b>Compliance Certificates</b>	FCC
<b>Dual CM Diplexers</b>	<b>85 MHz:</b> 5 to 85 MHz <b>200 MHz:</b> 5 to 200 MHz
<b>Receiver Demodulation</b>	<b>Frequency (edge to edge):</b> 108 to 1002 MHz <b>Channel Bandwidth:</b> 6 MHz <b>Signal Level:</b> -15 to 15 dBmV <b>DOCSIS 3.0 Demodulation:</b> 64 QAM, 256 QAM <b>DOCSIS 3.0 Data Rate:</b> Up to 1.2 Gbps with 32 downstream channel bonding (DOCSIS 32x8) <b>DOCSIS 3.1 Demodulation:</b> Multi-Carrier OFDM 16 to 4096 QAM <b>DOCSIS 3.1 Data Rate:</b> Up to 2.5 Gbps with 2 OFDM 196 MHz Downstream Channels
<b>Transmitter Modulation</b>	<b>Frequency (edge to edge):</b> 5 to 85 MHz <b>Signal Level:</b> Controlled by CMTS through power ranging function <b>DOCSIS 3.0 Modulation:</b> QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, and 128 QAM (SCDMA only) <b>DOCSIS 3.0 Data Rate:</b> Up to 320 Mbps with 8 upstream channels bonding <b>DOCSIS 3.1 Modulation:</b> Multi-Carrier OFDMA BPSK to 4096 QAM <b>DOCSIS 3.1 Data Rate:</b> Up to 1 Gbps with 2 OFDMA 96 MHz Upstream Channels

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

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

**Tilt Measurement**

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

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

<b>Minimum Input Level</b>	0 dBmV
<b>Range</b>	0 to 5%
<b>Resolution</b>	0.1%
<b>Accuracy</b>	±0.5%

**Frequency Domain Reflectometer (Optional)**

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

**Source Generator (Optional)**

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

## PHYSICAL & ENVIRONMENTAL SPECIFICATIONS

### Physical Specifications

<b>Construction</b>	Rubber overmolded plastic housing
<b>Control</b>	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
<b>Display</b>	Color LCD touchscreen 480 x 272 pixels (approx 4" x 2.25")
<b>Annunciators</b>	Audible annunciator for key strokes
<b>Antenna</b>	Internal Wi-Fi antenna, 2 dB gain
<b>Flashlight</b>	High intensity LED (0.25W)
<b>Dimensions w/o Case (H x W x D)</b>	8.6 x 6.1 x 2.00 in (21.84 x 15.94 x 5.08 cm)
<b>Dimensions w/ Case (H x W x D)</b>	9.6 x 7.1 x 3.00 in (24.38 x 18.03 x 7.62 cm)
<b>Weight w/o Case</b>	2.9 lbs (1.32 Kg)
<b>Weight w/ Case</b>	3.9 lbs (1.79 Kg)

### Available Interface Types

<b>Tx Test Port</b>	75 Ohm Replaceable F-Type Connector Source Generator Output Transmission Only
<b>Tx/Rx Test Port</b>	75 Ohm Replaceable F-Type Connector Upstream & Downstream RF Measurements DOCSIS 3.1 Modem
<b>Ethernet</b>	RJ45 Management Port (10/100 Mbps) RJ45 Electrical Test Port (10/100/1000Base-T) SFP Optical Test Port (100/1000Base-X)
<b>Wi-Fi</b>	802.11 b/g/n 2.4/5 GHz Wi-Fi Adapter
<b>USB</b>	USB 2.0 Type-A Standard Port
<b>Bluetooth (Optional)</b>	Class II Mini Bluetooth USB Adapter (v2.1) with a 10 meter range for speeds up to 3 Mbps

### Battery & Power Specifications

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

### Environmental Specifications

<b>Storage &amp; Operating Temperature</b>	-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**