

H30D3 Analog / Digital / DOCSIS 3.0 Spectrum Analyzer

Remote Control & Measurements
In an affordable package

Complete set of **easy-to-use functions** to install and monitor analog and digital cable TV, and DOCSIS 3.0 networks **on-site or remotely**.

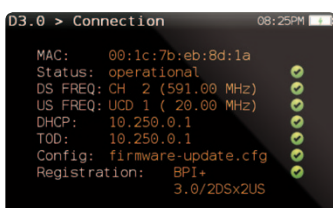
Troubleshoot those hard to find, intermittent problems using its unique in its class remote measurement and control capabilities to provide long term monitoring. With the H30 Series meters you can ensure quality at all times, while you are on site and while you are away.

The H30 Series provides the complete portfolio of tools needed to assure the **quality of analog and digital television and DOCSIS 3.0 services** delivered over cable.

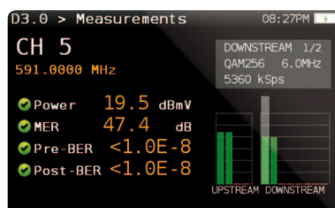
Combined with our **powerful real-time advanced techniques** and unparalleled ease-of-use, the H30 is the ideal tool for engineers and technicians installing and maintaining next-generation cable systems.



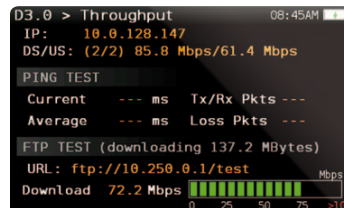
Complete DOCSIS 3.0 functionality, a full spectrum analyzer, all your analog and QAM measurements, tilt, scan & log, and more. All this with full remote control and measurements over the internet.



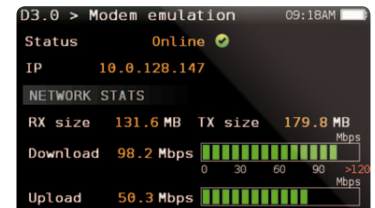
CONNECTION*
Step by step



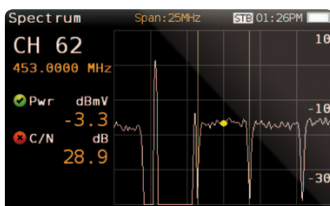
MEASUREMENTS*
At a glance



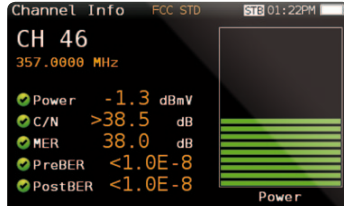
THROUGHPUT TEST*
Speedometer



MODEM EMULATION*
Building a bridge



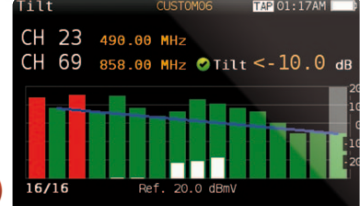
SPECTRUM ANALYZER
2.5MHz to full span



CHANNEL INFO
Less is more



PASS/FAIL INDICATORS
Improve decision making



TILT FUNCTION
Always in balance

H30D3 Analog / Digital / DOCSIS 3.0 Spectrum Analyzer

| | |
|---------------------------|---|
| Frequency | Range: 5 MHz to 1002 MHz Resolution: 10 kHz Tuning: Frequency or Channel |
| Input | Impedance: 75Ω F-type connector |
| Profiles | 10 factory profiles and up to 20 user generated profiles |
| Spectrum Analyzer | Span: 2.5, 6.25, 12.5, 25, 62.25, 126, 250, 500 MHz and Full Span Scale: 5 and 10 dB/div Automatic and manual reference level |
| Reverse Path Ingress Scan | Range: Selectable 5 to 42, 5 to 68, and 5 to 85 MHz Mode: Peak, Average, Min and Real-time |
| Digital Measurements | Demodulation: ITU-T J.83 Annex A/B/C standard |
| | Support: 16/32/64/128 and 256 QAM, QPSK |
| | Symbol Rate: 2 to 6.9 MS/sec |
| | QAM Auto-Lock: Automatic detection of signal characteristics and modulation parameters |
| | DFE filter On/off |
| | Accuracy: +-2dB |
| | Resolution: 0.1 dB |
| Constellation | Power measurement: -30 to +60 dBmV |
| | C/N: up to 45 dB |
| | MER: up to 40 dB |
| | PreBER and PostBER (Annex B): 1.0E-3 to 1.0E-8 |
| | BER (Annex A/C): 1.0E-3 to 1.0E-8 |
| Equalizer | Display: 16, 32, 64, 128 and 256 QAM Zoom capability |
| | Graphical representation |

| | |
|-------------------------|---|
| Analog Measurements | Accuracy: +-2dB |
| | Resolution: 0.1 dB |
| | Level: -30 to +60 dBmV |
| | V/A: up to 30 dB |
| Learning Plan | C/N: up to 54 dB |
| | CSO and CTB |
| | Factory defaults: Standard CATV, Return (T-Channels), HRC, IRC, Broadcast, CCIR |
| System Scan | Custom: up to 20 user-generated channel plans |
| | Channels: User selectable zoom up to all channels (analog and or digital) |
| Tilt | Measurements: Level bar representation, C/N, and MER/BER of the selected channel |
| | 1 to 16 or all channels (analog and/or digital) |
| Voltmeter | Selectable markers |
| | Range: 9 to 150V |
| Hum | Accuracy: +-1% |
| | Range: 2 to 5% |
| IP Test (Optional) | Accuracy: +-1% |
| | DCHP Status, connection status, ping, lost packets, DS/US speeds |
| Service Info (Optional) | NIT, PAT, TS ID, Number of services, Service name, SID, PID, Encode type, Resolution, Audio and Video rates, and DOCSIS |

: % ? V W d A b f [a ` e

593210 – H30 MPEG Service Info Option (Upgradeable)
Gives the service information of the QAM carrier (number of services, call letters, virtual channels)

593211 – H30 IP Connectivity Test Option (Upgradeable)
Allows one to perform a speed test over the Ethernet port

593212 – H30 Advanced API Option (Upgradeable)
Provides remote calls to all the functions in the meter for back end integration

593213 – H30 Bluetooth Option (Non-Upgradeable) **Meter needs to be ordered with this**
Allows remote access to the meter over a Bluetooth wireless connection

593214 – H30 Long Term Monitoring Option (Upgradeable)
Allows to record measurements over time, to check sporadic issues

GENERAL EB75;853F;A@

| | |
|--------------------------|---|
| Cable modem (H30D3 only) | Modes: DOCSIS 3.0/2.0/1.1/1.0/BPI/BPI+ |
| | DS: up to 8 channels / US: up to 4 channels |
| | Connect Status: DS and US frequency, DHCP, TOD, configuration name, security level, DOCSIS version |
| | Measurements: Power bar representation of DS and UP channels and Power, MER, PreBER and PostBER of the selected channel |
| | Throughput Test: Modem IP, DS and US maximum speed, current ping and average delay, lost packets, transfer speed |
| | Modem Emulation: Modem connection status, instantaneous speed and size of the data sent through the modem |

| | |
|-------------------------|---|
| Display | 2.8" TFT 400x240 full color |
| Weight | Ref. 593101 & Ref. 599102: 1.12lb (510g) / Ref. 599103: 1.3lb (632g) |
| Dimensions | 6.9x3.9x2 in / 175x100x52 mm (HxWxD) |
| AC Adaptor | Input: 100-240 VAC 50-60Hz / Output: 12 VDC, 2A |
| Battery | Lilon smart battery (7.2VDC, 2300mAh) |
| Operating time | Up to 4.5 hours (modem OFF) / Up to 2 hours (modem ON) |
| Storage Temperature | 23° to 104°F (-5°C to 45°C) |
| Communication Interface | Ethernet interface for remote control, measurements, datalog retrieval and automatic software updates |
| Storage | 400 MB (internal) for measurements |