www.tonercable.com

toner cable equipment, inc.

H30D3 Analog / Digital / DOCSIS 3.0 Spectrum Analyzer

Televés

H30D3

Remote Control & Measurements
In an affordable package

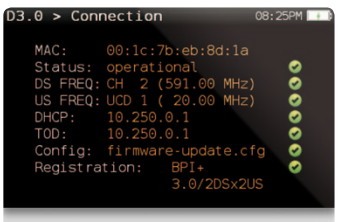
Complete set of **easy-to-use functions** to install and monitor analog and digital cable TV, and DOCSIS 3.0 networks **on-site or remotely.**

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.

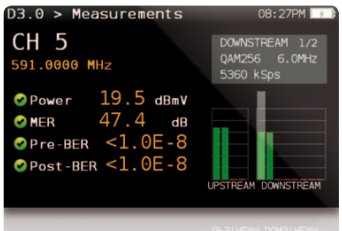
The H30 Series provides the complete portfolio of tools needed to assure the **quality of analog and digital television and DOCSIS 3.0 services** delivered over cable.

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.

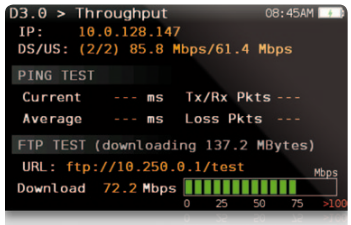
Complete DOCSIS 3.0 functionality, a full spectrum analyzer, all your analog and QAM measurements, tilt, scan & log, and more. All this with full remote control and measurements over the internet.



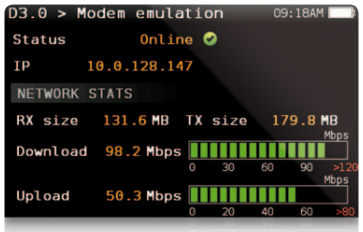
CONNECTION*
Step by step



MEASUREMENTS*
At a glance

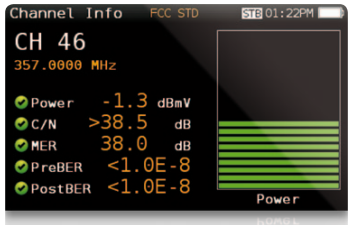


THROUGHPUT TEST*
Speedometer

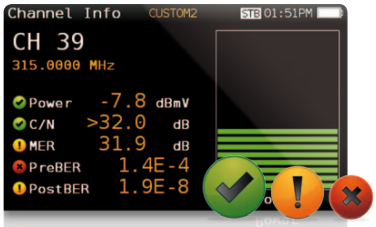


MODEM EMULATION*
Building a bridge

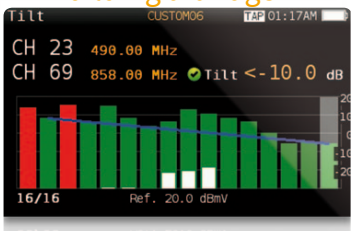
SPECTRUM ANALYZER
2.5MHz to full span



CHANNEL INFO
Less is more



PASS/FAIL INDICATORS
Improve decision making



TILT FUNCTION
Always in balance

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053 Fax: 215-675-7543 • info@tonercable.com

www.tonercable.com

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
	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
Constellation	Display: 16, 32, 64, 128 and 256 QAM
	Zoom capability
Equalizer	Graphical representation

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

Analog Measurements	Accuracy: +-2dB
	Resolution: 0.1 dB
	Level: -30 to +60 dBmV
	V/A: up to 30 dB
	C/N: up to 54 dB
	CSO and CTB
Learning Plan	Factory defaults: Standard CATV, Return (T-Channels), HRC, IRC, Broadcast, CCIR
	Custom: up to 20 user-generated channel plans
System Scan	Channels: User selectable zoom up to all channels (analog and or digital)
	Measurements: Level bar representation, C/N, and MER/BER of the selected channel
Tilt	1 to 16 or all channels (analog and/or digital)
	Selectable markers
Voltmeter	Range: 9 to 150V
	Accuracy: +-1%
Hum	Range: 2 to 5%
	Accuracy: +-1%
IP Test (Optional)	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

GENERAL QNCA6D6A?R6ML

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	LiIon 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

H30 Meter Options

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

Specifications Subject To Change Without Notice

Rev 11-20

969 Horsham Road • Horsham, Pennsylvania 19044 USA • Phone: 215-675-2053 Fax: 215-675-7543 • info@tonercable.com