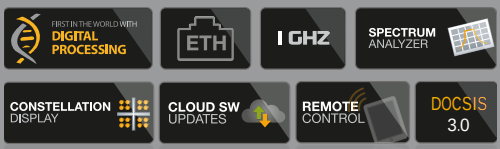
D3.0 > Measurements
08:27PM
CH 5
591.0000 MHz
DOWNSTREAM 1/2
QAM256 6.0MHz
5360 kSps
Power 19.5 dBmV
MER 47.4 dB
Pre-BER <1.0E-8
Post-BER <1.0E-8
UPSTREAM DOWNSTREAM
OK
H30 Series
BACK
HOME
SETUP
ON
BATT.
LOAD
Televes

Televes

Big features, small package

Your go to meter for installation, remote monitoring or troubleshooting. Rugged, light-weight and extremely easy to use. ***Install, maintain, and troubleshoot DOCSIS 3.0, digital and analog cable TV networks, onsite or remotely***



The H30 Series meters are light weight hand-held units, packed with all the features needed to install and troubleshoot **DOCSIS3.0 networks** and television systems using QAM digital modulation as well as NTSC analog signals.

This handy little meter is even inexpensive enough to leave in your headend and use its **unique in its class remote measurement and control capabilities** to provide long term monitoring or to trouble shoot those hard to find, intermittent problems.

Available for the first time in such a portable and affordable package, its real-time digital processing engine gives the installers the lab-precision measurements needed in today's fulfillment environment.

New from Televes, **a go-to meter designed with the needs of a Cable TV operator in mind.**

Purchase from: MULTICOM 800-423-2594 www.multicominc.com

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Remote Control & Measurements
In an affordable package

Control your meter and access your measurements from a smartphone, tablet, laptop or any other internet connected device. Ideal for extended signal tests over time in headends and broadband distribution networks. Leave your H30 connected to your headend or anywhere in your plant and **control the unit to measure signals and quality parameters remotely.** Once finished, export the results to your computer using your browser.

Rugged and Light Weight
Total reliability

A unique dual injected rubber and polycarbonate plastic housing ensures **the best protection and durability.** Weighing only one pound, **the H30 is comfortable to carry and use.** You can put it in your pocket or hang it from its sturdy built-in grommets using the provided shoulder strap... you will hardly know it's there!

Purchase from: MULTICOM

800-423-2594
www.multicominc.com

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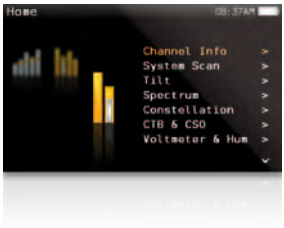
Intuitive User Interface
Reducing the learning curve



Easy to use **one-level menu structure with very intuitive functions** for increased usability, faster operation and maximum productivity. No function requires more than three successive button pushes to achieve the desired operation. It doesn't get any easier than this, you will **fly through the functions without ever reading the user manual.**

Comprehensive Functions
With pass/fail indicators

Complete set of CATV features such as Single Channel Measurements, System Scans, Tilt Function, Constellation, Spectrum Analyzer, Service Identification, Datalogs, Reverse Path Ingress Scan, Plan Learning… as well as **comprehensive DOCSIS 3.0 functionality** including Connection Status Information, Quality Parameters for every upstream/ downstream carrier, Throughput and Modem Emulation.

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Lab-quality Precision
Real-time digital processing

Designed from the ground up to **instantaneously obtain all the information in the signal in real time**, a true milestone in field testing. The H30 Series provides the accuracy and speed needed to detect the faintest transients, ingress, or spurious signals affecting your cable system. **Lab-quality precision available for the first time in such a portable and affordable package.**

100% Automatic
Signal detection

Q A.L.
QAM AUTO LOCK

Completely automatic, ITU-T J.83 Annex A/B/C and NTSC parameter detection and measurement with **no setup needed.** The H30 Series meters immediately detect if the input signal is analog or digital and determine its constellation, symbol rate, and other modulation parameters, providing **instantaneous readings with no user intervention.**

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Functionality?
H30 has you covered

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.

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.

Purchase from: MULTICOM 800-423-2594 www.multicominc.com

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TECHNICAL SPECIFICATIONS

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

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Televes®

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

Purchase from: MULTICOM® 800-423-2594 www.multicominc.com

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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

GENERAL SPECIFICATION

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	23º to 104ºF (-5ºC to 45ºC)
Communication Interface	Ethernet interface for remote control, measurements, datalog retrieval and automatic software updates
Storage	400 MB (internal) for measurements

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