

H30 Digital Processing Handheld QAM Meter

H30

Overview

Introducing the H30.

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

The H30 is a light weight, rugged unit, packed with all the features needed to install and trouble shoot a television system using QAM digital modulation as well as NTSC analog signals.

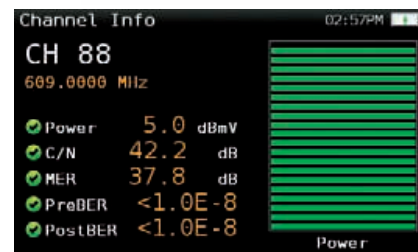
This handy little unit is even inexpensive enough to leave in your headend and use its unique in its class remote measurement and control capabilities to provide long term monitoring or to trouble shoot those hard to find, intermittent problems.

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.



Features & Benefits

- **Remote Control & Measurements** In an affordable package
- **Rugged and Light Weight** Total reliability
- **Intuitive User Interface** Reducing the learning curve
- **Ergonomic Handheld Design** Three buttons + thumbwheel
- **Long Battery Life** Over 5 hours on a full charge
- **Lab-quality Precision** Real-time digital processing
- **Comprehensive Functions** With pass/fail indicators
- **Automatic SW upgrades** Updated at all times
- **100% Automatic** Signal detection



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TECHNICAL SPECIFICATIONS

Display	2.8" TFT 400 x 240 full color
Weight	1.12 lb (510 g)
Dimensions	6.9 x 3.9 x 2 in / 175 x 100 x 52 mm (H x W x D)
AC Adaptor	Input: 100-240V~ 50-60Hz Output: 12VDC, 2A
Battery	Lilon smart battery (7.2VDC, 2300mAh)
Operating Time	> 5 hours
Operating Temperature	23°F to 104°F (-5°C to 45°C)
Storage Temperature	-4°F to 158°F (-20°C to 70°C)
Humidity	5% to 95% non-condensing
Ruggedness	Survives 1 m (3 ft) drop to concrete on all sides
Interfaces	USB 2.0, RJ45 10/100-T Ethernet interface for Remote Control,
Storage	400 MB (internal) for measurements
Power up time	< 10 seconds
Frequency Range	5 MHz to 1002 MHz
Frequency Resolution	50 kHz
Frequency Tuning	Frequency or channel
Input Impedance	75Ω F-type connector
Spectrum Analyzer Span	2.5, 6.25, 12.5, 25, 62.5, 125, 250, 500 MHz and Full
Spectrum Analyzer Scale	5 and 10 dB/div
Reverse Path Ingress Scan Range	Selectable 5 to 42 MHz, 5 to 68 MHz, and 5 to 85 MHz
Reverse Path Ingress Scan Mode	Peak, Average, Min, and Real-time
Digital Measurements	
DIGITAL	
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
DFE filter	On / Off
Dynamic Range	-30 to +60 dBmV
C/N	up to 45 dB
MER	up to 40 dB
Accuracy	±2 dB
Resolution	0.1 dB
Pre-BER and Post-BER (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
Constellation Zoom Capability	✓
Constellation Graphical Representation	✓
ANALOG	
Dynamic Range	-30 to +60 dBmV
V/A	up to 30 dB
C/N	up to 45 dB
Accuracy	±2 dB
Resolution	0.1 dB
CSO/CTB	✓
Channel Plans	
Factory Channel Plans	Standard CATV, Return, HRC, IRC, Broadcast, CCIR
Custom Channel Plans (Learning Plan)	up to 16 channel plans
System Scan Channels	up to 100 channels (analog and/or digital)
System Scan Measurements	Level bar representation and C/N BER/MER of the selected
Tilt Channels	up to 100 channels (analog and/or digital)
Tilt Selectable Markers	✓
Tilt Factory Profiles	Trunk, Tap, End of line, Ground Block, Modem Setup
Tilt Custom Profiles	up to 10 profiles
Voltmeter Range	9V to 150V
Voltmeter Accuracy	±1%
Hum Range	2 to 5%
Hum Accuracy	±1%

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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