



## 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 troubleshoot 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 troubleshoot 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 fulfilment environment.



## Key Features

- **User friendly**, handheld QAM meter.
- **Remote measurements and control** in an affordable package.
- Complete portfolio of Analog/Digital measurements with easy-to-read **pass/fail indicators**.
- **Quick and easy to use interface** with features such as Channel measurements, System Scans, Tilt Function, Constellation Diagram, Spectrum Analyzer, Voltmeter, Hum, Service Identification (option 593210), Datalogger, and more.
- Rugged, light weight, fully automatic, fast, and accurate.
- **Automatic** through-the-cloud software updates.
- 100% automatic ITU-T J.83 Annex A/B/C parameter detection and measurement with **no setup needed**.
- **1 GHz spectrum range** with selectable span.
- **PASS/FAIL Indicators:** Icons indicate if a measurement is good, bad, or in the warning zone for quick and easy status checks. Reduce installer entry errors and improve decision making.
- **Control your H30 remotely and make measurements from any 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 and measure signals and quality parameters remotely. Once finished, export the results to your computer using the included **Remote Application** software.

## General Specification

<b>Display</b>	2.8" TFT 400 x 240 full colour
<b>Weight</b>	Ref. 593101&593102: 12.12lb (510g) Ref. 593103: 1.39lb (632.2g)
<b>Dimensions</b>	6.9 x 3.9 x 2 in / 175 x 100 x 52 mm (H x W x D)
<b>AC Adaptor</b>	Input: 100-240V~ 50-60Hz Output: 12VDC, 2A
<b>Battery</b>	Lilon smart battery (7.2VDC, 2300mAh)
<b>Operating Time</b>	Up to 4 hours
<b>Operating Temperature</b>	23°F to 104°F (-5°C to 45°C)
<b>Storage Temperature</b>	-4°F to 158°F (-20°C to 70°C)
<b>Humidity</b>	5% to 95% non-condensing
<b>Ruggedness</b>	Survives 1 m (3 ft) drop to concrete on all sides
<b>Communication Interfaces</b>	RJ45 10/100-T Ethernet interface for Remote Control, Measurements, Datalog Retrieval and Automatic Software Updates
<b>Storage</b>	400 MB (internal) for measurements
<b>Power up time</b>	< 10 seconds

## Technical Specifications

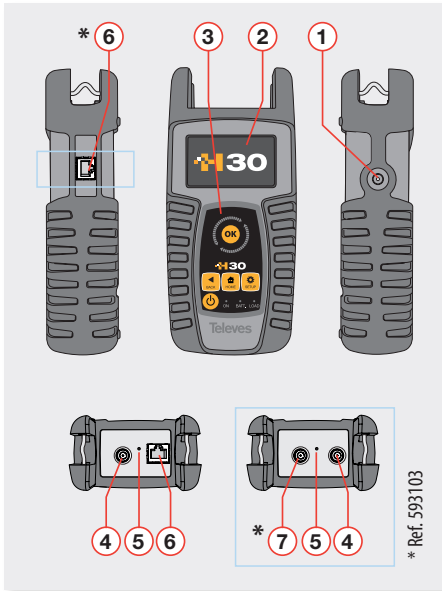
<b>Frequency</b>	
<b>Range</b>	5 MHz to 1002 MHz
<b>Resolution</b>	50 kHz
<b>Tuning</b>	Frequency or channel
<b>Input</b>	
<b>Impedance</b>	75Ω F-type connector
<b>Spectrum Analyzer</b>	
<b>Span</b>	2.5, 6.25, 12.5, 25, 62.5, 125, 250, 500 MHz and Full
<b>Scale</b>	5 and 10 dB/div
<b>Automatic and manual reference level</b>	✓
<b>Reverse Path Ingress Scan</b>	
<b>Range</b>	Selectable 5 to 42MHz, 5 to 68MHz, and 5 to 85MHz
<b>Mode</b>	Peak, Average, Min, and Real-time
<b>Digital Measurements</b>	
<b>Demodulation</b>	ITU-T J.83 Annex A/B/C standard
<b>Support</b>	16, 32, 64, 128 and 256 QAM, QPSK
<b>Symbol Rate</b>	2 to 6.9 MS/sec
<b>Q.A.L. Technology (QAM Auto Lock)</b>	Automatic detection of signal characteristics and modulation parameters
<b>DfE filter</b>	On / Off
<b>Power</b>	-30 to +60 dBmV
<b>C/N</b>	Up to 45 dB
<b>MER</b>	Up to 40 dB
<b>Accuracy</b>	±2 dB
<b>Resolution</b>	0.1 dB
<b>Pre-BER and Post-BER (Annex B)</b>	1.0E-3 to 1.0E-8
<b>BER (Annex A/C)</b>	1.0E-3 to 1.0E-8
<b>Constellation</b>	
<b>Display</b>	4, 16, 32, 64, 128 and 256 QAM
<b>Zoom Capability</b>	✓
<b>Channel Equalizer</b>	
<b>Graphical representation</b>	✓
<b>Analog Measurements</b>	
<b>Level measurement</b>	-30 to +60 dBmV

<b>V/A</b>	up to 30 dB
<b>C/N</b>	up to 54 dB
<b>Accuracy</b>	±2 dB
<b>Resolution</b>	0.1 dB
<b>CSO/CTB</b>	✓
<b>Channel Plans</b>	
<b>Factory channel plans</b>	Up to 24 with different world wide regions
<b>Custom channel plans (learning plan)</b>	Up to 16 channel plans
<b>System Scan</b>	
<b>Channels</b>	Up to 100 channels (analog and/or digital)
<b>Measurements</b>	Level bar representation and C/N BER/MER of the selected channel
<b>Tilt</b>	
<b>Channels</b>	Up to 100 channels (analog and/or digital)
<b>Selectable markers</b>	✓
<b>Pass/Fail Indicators</b>	
<b>Factory profiles</b>	Headend, Fiber Nod, Trunk, Bridge, Line Ext, Tap, End Line, Ground, Modem/STB, Off Air
<b>Custom profiles</b>	up to 10 profiles
<b>Voltmeter</b>	
<b>Range</b>	9V to 150V
<b>Accuracy</b>	±(0.5V +1%)
<b>Hum</b>	
<b>Range</b>	2 to 5%
<b>Accuracy</b>	±1%
<b>Speed Test <span style="float: right;">Option 593211</span></b>	
<b>Download and upload Speed</b>	Up to 20Mbps
<b>Ping times</b>	✓
<b>Service Info <span style="float: right;">Option 593210</span></b>	
<b>Channel parameters</b>	NIT, PAT, TSID, CBRT
<b>Service parameters</b>	SID, VID, AID, bitrate, encode type
<b>Cable Modem (593103)</b>	
<b>Modes</b>	Docsis3.0/2.0/1.1/1.0/BPI/BPI+
<b>Downstream</b>	Up to 8 channels (88-1002MHz)
<b>UpStream</b>	Up to 4 channels (5-42MHz)

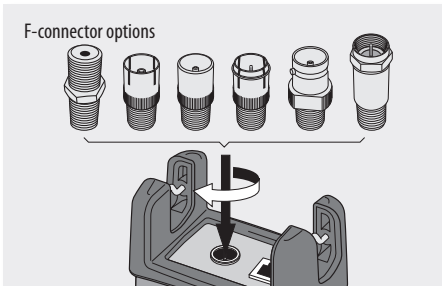
Specifications are subject to change without notice.

## Description of equipment components

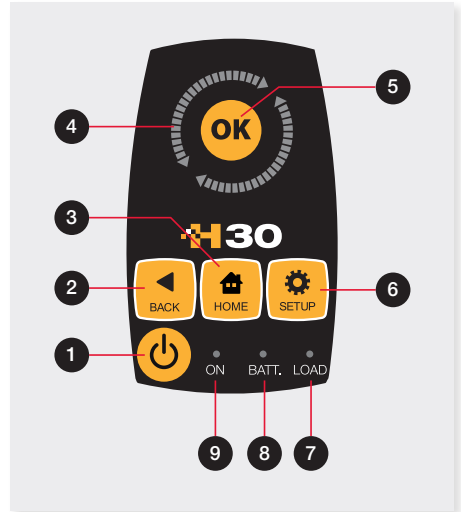
### Connectors and controls



1. External power connector (12VDC).
2. LCD display.
3. Keyboard and LED indicators
4. RF F-connector (see options below).
5. Reset.
6. Ethernet connector.
7. DOCSIS connector (ref. 593103).



### Keyboard



1. **Device On/Off button:** To turn the equipment off, press and hold for approximately 3 seconds.
2. **Back button:** Return to the previous menu or close a parameter entry window.
3. **Home button:** Return to the main menu.
4. **Rotating selector:** Used to scroll through options.
5. **OK Button:** To confirm selection.
6. **Setup button:** Parameter window for the current function.
7. **LED Load:** Indicates if the equipment is powering an external load.
8. **LED Charging Battery:** Indicates if the battery is charging.
9. **LED Power ON:** Illuminated when the equipment is on.