

DIGITAL TERRESTRIAL TELEVISION HUNTER

TVHUNTER+: Aligning antennas fast and easily



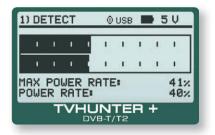
The **TVHUNTER+** is a small handheld easy to use meter, that has been designed for the installation of Digital Terrestrial Television for both DVB-T and **DVB-T2** systems. The **TVHUNTER** has become a widely popular tool for DVB-T antenna alignment. The key factors have been its small pocket size and ease of use, still offering proper measurements. As a natural evolution, **TVHUNTER+** is now available allowing full compatibility with **DVB-T2** standard for the High Definition digital terrestrial TV broadcasting.

Easy to use



1.- Detection

It detects signals from any analogue or digital terrestrial broadcast with the built-in wide band detector. In this mode the meter shows information about the received signal power in the form of two graphic bars with two different time constants and an audible indicator to help align the aerial to the optimum detection.



SCAN.- The **TVHUNTER+** allows a broadcast search in DVB-T and **DVB-T2**.





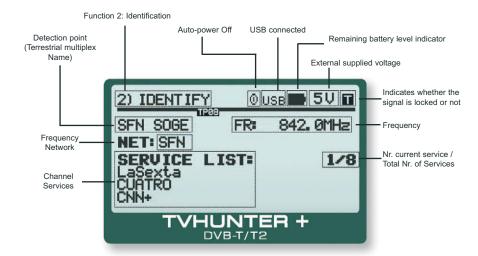
External antenna power

The meter includes a power supply for external active antennas or preamplifiers. It is possible to select 5 V, 12 V, 18 V or 24 V depending on the requirements of the external device.



2.- Identification

In this mode the **TVHUNTER+** shows information about the received digital channel and programmes included in the service list as well.





3.- Adjustment

It allows fine pointing the reception antenna, to optimise the digital measurements such as channel power, MER, VBER and CBER on preselected channels. All information is displayed on the screen in a very convenient way so that optimising the aerial alignment becomes really easy. MER in particular is shown numerically and through a graphic bar as well. VBER and CBER can be shown together or graphically.







SPECIFICATIONS TVHUNTER+

TUNING

Frequency range 170 MHz to 858 MHz (UHF)

Measurement points 50 maximum

RF INPUT

Impedance 75Ω

Connector Universal, including BNC, DIN and F interchangeable adapter

Level range $40 \text{ dB}\mu\text{V}$ to $100 \text{ dB}\mu\text{V}$ Maximum signal levelDC to 100 Hz 30 Vrms

170 MHz to 858 MHz 120 dB μV

DIGITAL SIGNALS MEASUREMENTS

DVB-T (COFDM) MEASUREMENTS

 $\begin{array}{lll} \text{Power} & 40 \text{ to } 100 \text{ dB}\mu\text{V} \\ \text{MER} & 0 \text{ to } 35 \text{ dB} \\ \text{CBER} & 1\text{E-6 to } 1\text{E-1} \\ \text{VBER} & 1\text{E-8 to } 1\text{E-1} \end{array}$

Link Margin In dB (Range depends on signal parameters)

DVB-T SIGNAL PARAMETERS

Carriers 2k / 8k

 Guard Interval
 1/4, 1/8, 1/16, 1/32

 Code Rate
 1/2, 2/3, 3/4, 5/6, 7/8

 Modulation
 QPSK, 16-QAM, 64-QAM

Bandwidth 6,7 and 8 MHz Spectral inversion ON, OFF, (AUTO)

Displayed information Multiplex name and its first 48 services, if it is detected

Visual indication of DVB-T locked signal

Configuration of test points By means of USB 2.0 connection to PC. (Cable and software included)

DVB-T2 (COFDM) MEASUREMENTS

 Power
 40 to 100 dBμV

 MER
 0 to 35 dB

 CBER
 1E-6 to 1E-1

 LBER
 1E-8 to 1E-1

Link Margin In dB (Range depends on signal parameters)

DVB-T2 SIGNAL PARAMETERS

Carriers 1k, 2k, 4k, 8k, 8k+ EXT, 16k, 16k+ EXT, 32k, 32k+ EXT

Guard Interval 1/4, 19/256, 1/8, 19/128, 1/16, 1/32, 1/128

Bandwidth5, 6, 7 and 8 MHzSpectral InversionON, OFF (AUTO)Pilot PatternPP1-PP8

 Code Rate PLP
 1/2, 3/5, 2/3, 3/4, 4/5, 5/6

 PLP Constellation
 QPSK, 16QAM, 64QAM, 256QAM

PLP Constellation Rotation ON / OFF (AUTO)

PLP ID 0-255

EXTERNAL UNITS POWER SUPPLY Through the RF input connector

Output voltage5 V, 12 V, 15 V, 24 V \pm 1 VMaximum external output power5 W (2.5 W for +5 V)

BACK-LIGHT DISPLAY Automatic



TVHUNTER+

POWER SUPPLY

Battery 7.4 V 2.2 Ah Li-Ion battery

Low battery indication

Acoustic indication and message on the display
Built-in. It disconnects power supply when charging process ends Charger

Autonomy 6 hours typically, without powering any amplifier through the external power supply Charging time 90 min. approx. starting from a complete discharge (instrument off), within the

margin of tolerated temperatures

Mains adapter 90 - 250 V / 50-60 Hz (included), 12 V DC, 20 W

MECHANICAL FEATURES

Dimensions 180 mm (W) x 95 mm (H) x 50 mm (D)

480 g Weight

ACCESSORIES

Mains power adapter, F to BNC/DIN/F adapters, Mains cord, Car lighter adapter, TVHUNTER+ carrying suitcase, TVHUNTER+ carrying belt, USB 2.0 connector cable, TVHUNTER+ Quick Reference Guide

