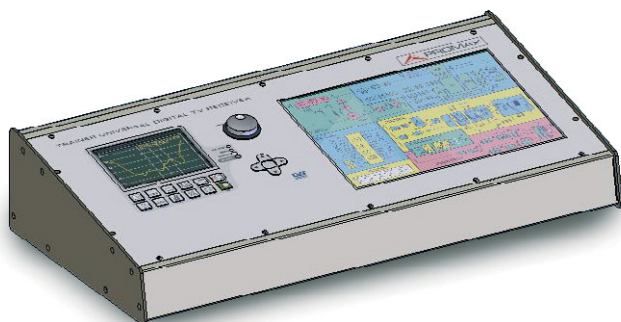


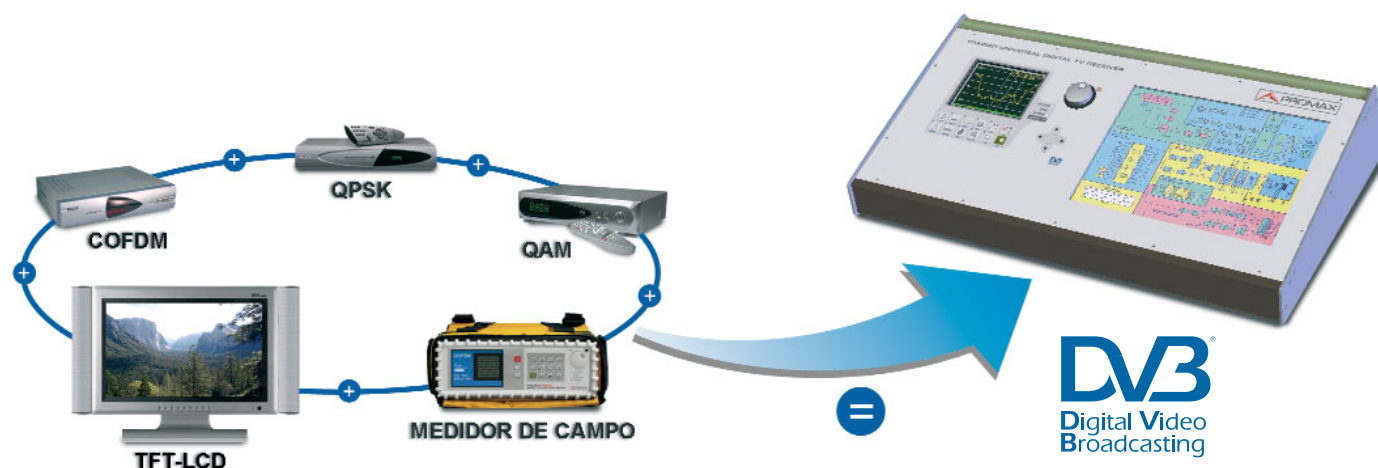
UNIVERSAL DIGITAL TV RECEIVER TRAINER



The Trainer Universal Digital TV Receiver **EU-850** is a didactic equipment oriented to the learning of the theoretical and practical contents about the operation of the digital television receivers (satellite, terrestrial and cable) as well as the basis and the processes related to the transmission, reception and distribution of the digital television (COFDM, QPSK and QAM).

In order to make easy the learning and understanding process, the trainer includes a block diagram which represents a generic structure of a modern digital television universal receiver, with an extensive set of test points that allow the analysis of the signals that take part in the different reception processes.

The equipment includes a 5"-TFT hi-res graphical display, that allows the visualisation of the digital channels tuned (and the analogue channels when terrestrial reception), and also offers all the features of a professional field strength meter.

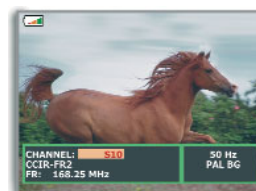
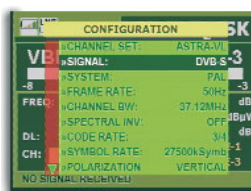
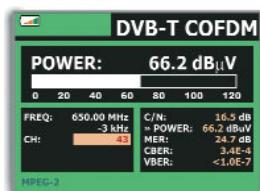
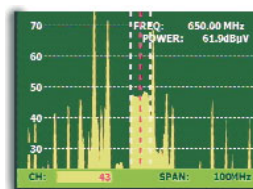
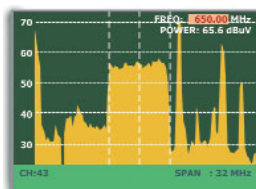
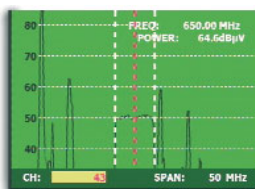


In the aspect of measures, highlights the spectrum dynamic exploration to detect all the transmissions existing in the explored band, the measurement of power level, the carrier/noise ratio (C/N), the digital signal error rate (BER) and the modulation error ratio (MER), as much for DVB-T (COFDM) signals as DVB-S (QPSK) and DVB-C (QAM) signals.

The trainer accepts the main world-wide TV standards (M, N, B, G, I, D, K and L) and any TV system (PAL, SECAM and NTSC). When being a multistandard equipment, it can efficiently be used in any country of the world.

A CD-ROM is included that contains the following documentation in PDF format:

- Training Manual
- Exercises Manual (Theoretical bases included)



UNIVERSAL DIGITAL TV RECEIVER TRAINER

SPECIFICATIONS

Tuning: from 45 to 865 and from 950 MHz to 2150 MHz

Digital reception:

Terrestrial (COFDM), Satellite (QPSK) and Cable (QAM)

Video: MPEG-2/DVB (MP@ML) format. Services decoding, service list and PIDs

Analogue reception:

Terrestrial (PAL, SECAM and NTSC systems and M, N, B, G, I, D, K and L standards)

Identification of Analogue and Digital signals. Automatically.

Screen: 5 " TFT-LCD Colour

Built-in loudspeaker

Scart connector

Active block diagram with Test Points

External units power supply, 22 kHz signal and DISEqC 1.2

Spectrum analyser

Digital signals measurements

DVB-T (COFDM): Power, CBER, VBER, MER, C/N

DVB-C (QAM): Power, BER, MER, C/N

DVB-S (QPSK): Power, CBER, VBER, MER, C/N

COFDM signal parameters

Carriers 2k/8k (Selectable by the user)

Guard interval of 1/4, 1/8, 1/16, 1/32 (Selectable by the user).

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

Modulation QPSK, 16-QAM, 64-QAM

Spectral inversion selectable: ON, OFF

Hierarchy: Hierarchic mode indication

QAM signal parameters

Demodulation 16/32/64/128/256 QAM

Symbol rate: 1000 to 7000 kbauds

Spectral inversion selectable: ON, OFF

QPSK signal parameters

Symbol rate: 2 to 45 Mbauds

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

Spectral inversion selectable: ON, OFF

Analogue Signals Measurements



Trade Mark of the DVB Digital Video Broadcasting Project (4029)