

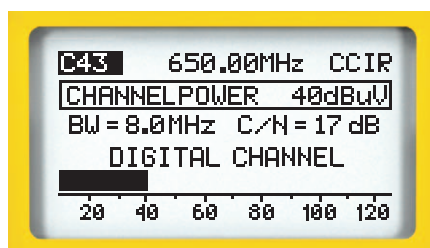
## PROMAX-12

- \* FROM 5 TO 1005 MHz
- \* BER & MER ON QAM DIGITAL SIGNALS
- \* MULTISTANDARD:  
16/32/64/256 QAM ANNEX A/B/C QPSK
- \* ANALOGUE CHANNELS
- \* DIGITAL CHANNELS
- \* BROADBAND POWER DETECTION
- \* SCAN
- \* C/N, CSO, CTB, VAC VOLTAGE, HUM
- \* MAX AND MIN HOLD
- \* CHANNEL POWER BY INTEGRATION
- \* TILT
- \* DATALOGGER
- \* PRINTING
- \* CONNECTION TO PC



### Digital channel power

Just pressing a button, the channel power measurement, carrier/noise, BER and MER can be carried out. MER is an essential measurement, because it is useful to determine the digital signal quality.



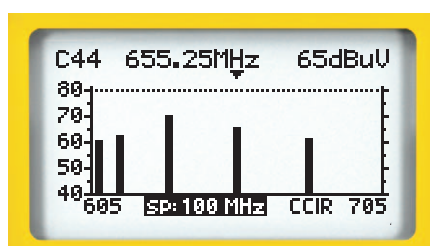
### Data Logger

The PROMAX-12 can acquire and internally store the required measurements for a later review. It also can print them or transfer the measurements to a PC.

### Scan

In this mode we can see all the channels of the selected channel plan graphically represented with their associated signal levels. A MARKER can be placed on any of the channels displayed on the screen in order to find their frequency or their signal level.

The SPAN and the REFERENCE LEVEL can be changed in order to adapt the presentation to the users test requirements.

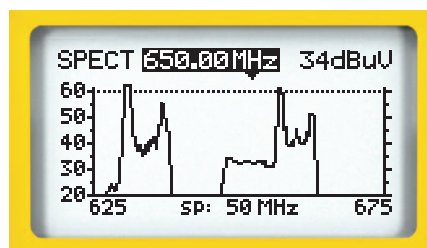


### Constellation

The constellation diagram allows to evaluate graphically the received signal quality, the aspect of the on screen diagram will depend on the digital transmission characteristics.

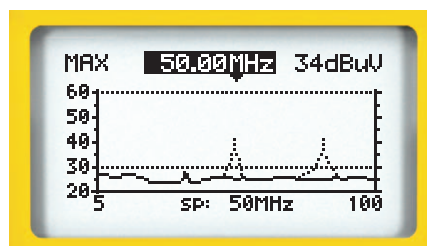
### Spectrum Analyser

It can be essential to solve cable modem related problems and very helpful for interference and noise troubleshooting both in the forward and return bands. The HOLD function maintains MAX and MIN values: this is of great value for identifying interfering signals, for example, in the return band.



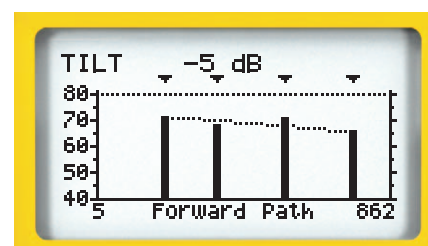
### Return path

It also includes return path spectrum analyser with max hold function for testing of the cable modem transmission at the subscriber premises, allowing to test the upstream generator of the subscriber cable modem.



### Tilt

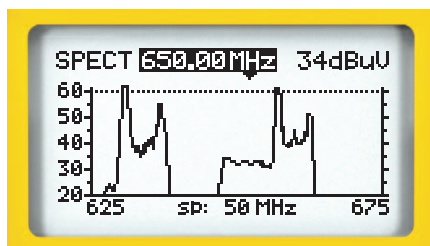
The Tilt function provides a graphic and numeric representation of the absolute level of any 4 defined pilot frequencies and the difference between two of them. An interesting application is found in the return path where the PROMAX-12 together with the RP-110 Pilot Generator will permit to evaluate the frequency response in a graphical and comfortable mode.



## PROMAX-12

### Intermodulation (CTB/CSO)

The Composite Triple Beat (CTB) and Composite Second Order (CSO) are an indication of the level of interference in the television channel generated by intermodulation of signals from other channels. Usually, other channels from the same system. Over certain level CTB and / or CSO the interference becomes visible on the television signal.



### Language

It can be selected among English, French, German and Spanish.



### included accessories

Mains Power Adapter, Mains cable, Soft Carrying bag, F/F Connector Adapter, Rubber Shock Protector.

### optional accessories

F/BNC connector adapter, F/IEC connector adapter, Hard transport case, F/F RF cable, PC / printer communication cable, Car lighter adapter.

SPECIFICATIONS	PROMAX-12	Digital measurements	
<b>TUNING</b> Tuning range Tuning mode Channel plan Resolution Indication	From 5 to 1005 MHz. By channels or by frequency Selectable 10 kHz Graphic display with backlight	<b>MER (Modulation Error Rate)</b> Measurement range Accuracy <b>BER (Bit error rate)</b> Measured before RS decoding (PreBER) Measurement range Measured after RS decoding (PosBER) Measurement range Constellation Diagram Lock range Symbol rate Measurement Datalogger	26 dB to 40 dB ± 2 dB 10 E-2 to 10 E-8 (low resolution) E-9 (High resolution), E-10 in Continuous mode 10 E-2 to 10 E-8 (low resolution) E-9 (High resolution), E-10 in Continuous mode DVB-QAM signals (Annex A/B/C) & DOCSIS / Euro-DOCSIS 50 dBµV to 120 dBµV (-10 dBmV to 60 dBmV) 1000 to 7000 Ksym/s for 16/64/256 QAM For each digital channel, the level and the MER can be stored. (BER for data dumping to printer or transfer to PC) QAM 16/32/64/128/256 ITU J83 annex A/C, QAM 64/256 ITU J83 annex B y QPSK 8 MHz 62.5 kHz
<b>LEVEL MEASUREMENT</b> Measurement Analogue Channels Digital Channels Measurement range Analogue channels Digital channels Maximum input level From 5 to 863 MHz DC to 60 Hz Reading Accuracy Analogue Channels Digital Channels	Signal level measurement on video carrier Channel power measurement by integration through channel bandwidth From 25 to 120 dBµV (-35 dBmV to 60 dBmV). From 35 to 120 dBµV (-25 dBmV to 60 dBmV) (channels of 8 MHz). 120 dBµV (60 dBmV) 60 V DC or RMS Digital in dBµV, dBmV or dBm and analogue by Graphic display with backlight. 1 dB resolution. ± 2 dB (0 to 40 °C) Negative video modulation ± 3 dB (0 to 40 °C) For 8 MHz channel bandwidth	Modulation type Bandwidth Frequency tuner <b>MECHANICAL FEATURES</b> Dimensions Weight	W. 70 (90 at display) x H. 218 x D. 50 mm 825 g.

DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT PRIOR NOTICE. 04/15