

THE PROFESSIONAL & ACCURATE TOUCH SCREEN ANALYZER



DVB-T2/C2/S2
UHD - 4K - HEVC*

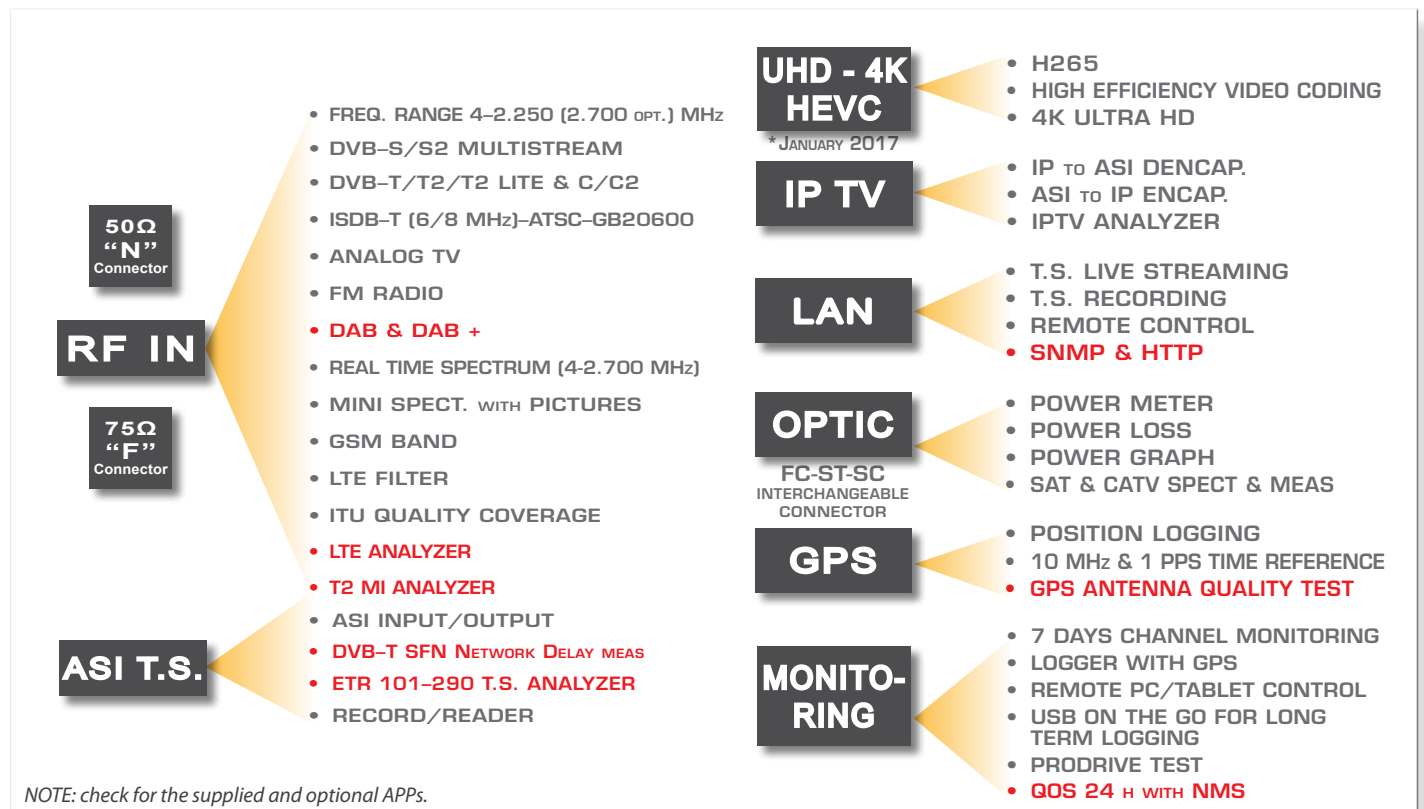
9" HIGH BRIGHTNESS
16:10 DISPLAY

AUTOMATIC, FAST & EASY-TO-USE

FULL TOUCH
Excludable

EXCLUSIVE DUAL
COMMANDS

MECHANICAL
Keys & Encoder



NOTE: check for the supplied and optional APPS.

MAIN FUNCTIONS

SPECIAL FUNCTIONS

- **ETR 101-290 T.S. Analyzer (opt.)**
- **Exclusive patented ROVER AUTODISCOVERY system:** auto-matically detects and selects analog and digital COFDM/QAM TV signals in both measurement and spectrum mode.
- **HELP function:** automatically identifies all the signals with digital modulation SAT, TV and CATV.
- **Automatic Assistant:** Signal Quality analysis, Channel Scan memorization.
- **Barscan TV & CATV function from 10 to 100 channels on one screen.**
- **Buzzer & Noise Margin real time graph for digital signals microinterruptions.**
- **Reflectometric measurements APP.**
- **PRODRIVE TEST:** Single or multiple CHs measurements acquisition with GPS logging and mapping (opt.)
- **REMOTE MONITORING and LOGGING:** TS, measurements, spectrum, thumbnails (opt.)
- **Optical Input signals (opt)**
- **SATELITE:** SAT SCR, DiSEqC, SCR & DCSS, Motorized antenna, Dual LNB, SAT FINDER, SAT EXPERT
- **Custom Channel Plans:** 25 (199 ch. per plan), Programmable TV, SAT (or combined TV/SAT) by PC or Local Keyboard.
- **Loggers:** TV, SAT & combined with stop & go function.
- **SAT Memory Plan:** More than 2.000 transponders prememorized for world wide Satellite.
- **Free SMART PC interface program and FW upgrades.**
- **AVAILABLE OPTIONAL APPs *:** GPS, PRODRIVE TEST, ETR 101-290 T.S. analyzer, DVB-T Network Delay measurement, LAN IPTV/ASI, OPTIC INPUTS, TV Minispectrum, LTE filter, DAB+, DVB-C2, ASI IN/OUT, Dolby +.

SPECIFICATIONS: MEASUREMENTS & SPECTRUM ANALYSIS

- **Frequency Range:** TV, CATV & and Radio: 4-1000 MHz; SAT: 950 2150 MHz"
- **Frequency Resolution:** TV & CATV 25 KHz; SAT: 5 or 1 MHz selectable"
- **Power range Meas.:** TV 28 to 130 dB_V, SAT 30 to 130 dB_V.
- **Digital Meas:** Digital Power, MER (32 to 42 dB depending on modulation), BER, PER, LDPC, PC, BCH, Noise Margin, MER versus CARRIER.
- **Analog Meas.:** Analog level, V/A ratio, Analog Pictures
- **Measurement Resolution:** 0.1 dB
- **Level Measurement Accuracy:** 1 dB typ. (2 dB max.)
- **Resolution Filter Bandwidth:** TV&CATV: 100 KHz @ -3 dB; SAT: 1 MHz or 5 MHz @ -3 dB selectable"
- **Constellation:** for TV and SAT signals.
- **Spectrum:** Real time, Max Hold and spectrum memorization with real time compare function,
- **Net-id on board:** Net-id, NID, TSID, LCN, SAT Orbit Position.
- **Echoes, Pre-echoes, Micro-echoes:** Representation in real Time.
- **Quality:** Digital Auto quality Test: PASS-MARGINAL-FAIL.
- **TS:** TR 101 290 v1.2.1 ANALYSIS, SI, PMT, bit rate, network delay, MPEG services and tables.
- **IPTV:** measurements and picture decoding (opt)

OPTICAL MEASUREMENTS

- **FC-ST-SC interchangeable input connectors**
- **Automatic loss calculation**
- **Wavelengths (nm):** 850,1310, 1490, 1550
- **Range:** -25 to 10 dBm
- **Resolution:** 0.1 dB
- **Accuracy:** +/- 0.5 dB
- **Optical to RF conversion**

* Some options must be requested when ordering the instrument.

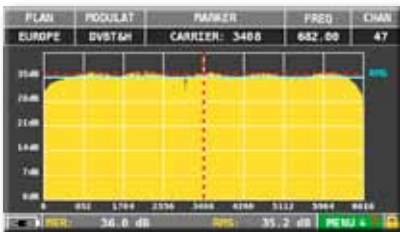
COMM. PORTS AND OUTPUTS

- **RF Input** : 75 ohm (interchangeable "F")
- **LAN**: RJ45 10/100 base Ethernet
- **USB 2.0**: Type B (PC Interface)
- **USB 2.0**: Type A (USB drive)
- **Digital Pictures**: MPEG2-4 SD & HD pictures with Program List, Audio Video PIDs, LCN, Video bit Rate all on one screen.
- **Audio**: AAC supplied, DOLBY opt.
- **Asynchronous Serial Interface (ASI)**: ASI input on 75Ω BNC connector, ASI output on 75Ω BNC connector (opt)
- **Audio / Video**: Composite A/V input, HDMI output
- **Common Interface**: PCMCIA slot for single/multi-service CAM modules

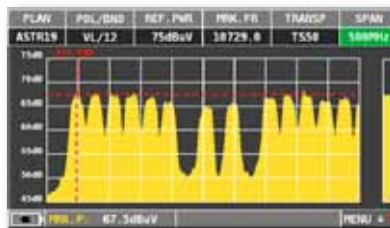
GENERAL SPECIFICATIONS

- **9" TFT TOUCH display**: 16:9 high resolution and high brightness
- **Power Supply**: Built in LiPoLi-ion battery with up to 6 hours duration & Battery Test function
- **DC voltage at RF input**: 5 - 12 - 18 - 24 V, DiSEqC, SCR.
- **PC Interface**: USB
- **Display**: Color LCD 9" (480px x 800px)
- **Front-Panel**: Alpha numeric keypad
- **Power Save**: TFT backlight timer, brightness adj.
- **PC Management**: SMART software
- **Weight**: only 2,6 Kg with batteries, Size: 323 mm x 175 mm x 60 mm
- **Housing**: Aluminium and Steel and padded bag.

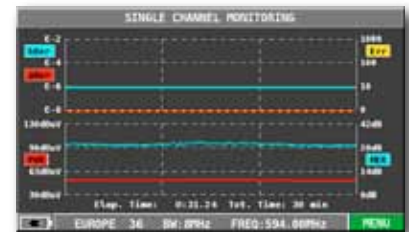
MEASUREMENT EXAMPLES



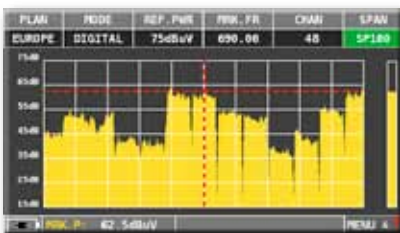
MER vs CARRIER: normal visualization



Spectrum SAT 400 MHz span



Single channel monitoring: 30 minutes



Spectrum TV 100 MHz span



DVB-T2 rotated Constellation 256 QAM mod., on the right relative modulation parameters & M-PLP



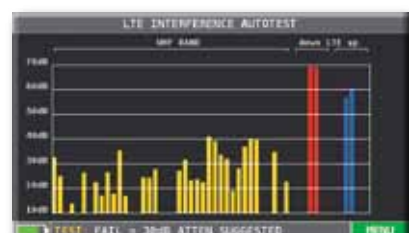
ECHO MEASUREMENT in SFN networks, with impulse response in real time, green area shows the guard interval



ETR 101290 Transport Stream Analyzer



GPS antenna Quality, constellation & Position.



LTE Interference Autotest (opt.)