

## THE MOST ADVANCED & ACCURATE **TABLET** ANALYZER



- DVB-C/C2 – DVB-T/T2 – PAL – SECAM – NTSC (Europe version)
- DVB-C – J83B – ATSC – NTSC (US version)
- **OPTICAL INPUT opt.**
- DOCSIS 3.0 opt. (4 x 4 or 8 x 8) channel bonding
- **LTE ANALYZER**
- LEAKAGE MEASUREMENT
- **FULL MPEG2 & 4 SD & HD**
- LAN & USB MANAGEMENT
- **4h LI-ION POL. BATTERIES**
- REAL TIME SPECTRUM with MAX HOLD
- **5 to 1250 FREQ RANGE for DOCSIS 3,1 ANALYSIS**
- INGRESS
- **HUM MEASUREMENT**
- ANALOG VIDEO WAVE FORM MONITORING
- **ANALOG SIGNAL/NOISE in QUITE LINE**

## MAIN FUNCTIONS

- Frequency range from 5 to 1250 MHz extended CATV and GSM telephone bands
- Digital RF measurements 5 MHz to 1,25 GHz including average power/level, pre/post BER, MER, Noise Margin, spectral analysis, and constellation
- INGRESS mode, LEAKAGE mode, BARS SCAN and TILT
- DOCSIS 3.0 upstream and downstream capabilities, 8 x 4 channel bonding with automatic lock to CMTS, for complete modem installation testing for both forward and return path analysis
- Ping report, Network IP configuration
- Lost Packet measurements, latency time and PER
- DOCSIS upstream tone generator 5–65 MHz
- OPTICAL POWER METER opt. with interchangeable FC-ST-SC connector for fiber optic testing (FTTH & FTTX) and troubleshooting
- User definable channel scan testing /logging with automatic quality analysis: FAIL-PASS-MARG
- Assisted navigation, memory plans and automatic channel scan
- Available with all world-wide channel plans
- Alpha/numeric keypad for direct chan/freq selection
- SMART software PC interface for meter upgrades, channel plans and AutoScan testing/logging management.
- Detects, measures and SHOWS pictures of MPEG 2 and 4 H264 HD High Definition programs
- Automemory, Manual memory & Datalogger functions
- Barscan TV & CATV function from 10 to 100 channels on one screen
- Audio, AAC supplied, DOLBY opt.
- 7" TFT TOUCH display, 16:9, high resolution
- Weighs only 1.6 kg, dim: H 14 x L 24 x D 4 cm
- LI-ION-POLIMER 4A battery with 4 hr battery capacity
- Battery test function, to regenerate and measure the batteries and calibrate the battery indicator
- Supplied with transport padded bag, accessories, mains and vehicle battery chargers
- Free basic SW upgradeable on-line

## MEASUREMENT EXAMPLES



VSB constellation, on the right relative modulation parameters



J83-B constellation, on the right relative modulation parameters



Single channel monitoring (for example 30 minutes)



VSB signal, all the measurements, picture and settings on one screen



J83-B signal, all the measurements, picture and settings on one screen



TV spectrum in real time, fast and super-fast with memory peak. Detects and memorizes all the details for you

## SPECIFICATIONS

### LEVEL MEASUREMENT & SPECTRUM ANALYSIS

- Frequency Range: TV, CATV & and Radio 5-1250 MHz
- Frequency Resolution: 25 KHz
- RF Input Impedance: 75  $\Omega$   
(interchangeable "F" connector)
- Dynamic Range: 1 dBuV to 125 dBuV  
or -59 to +65 dBmV  
or -112 to +16 dBm
- Measurement Resolution: 0.1 dB
- Level Measurement Accuracy: 1 dB typ. (2 dB max.)
- A/V Ratio: up to 22 dB, +/- 1.5 dB (2 dB max.)
- S/N Ratio: up to 45dB +/-1.5 dB Max; 45-50dB +/-2dB
- Resolution Filter Bandwidth: 100 KHz @ -3 dB
- Custom Channel Plans: 25 (199 ch. per plan)

### POWER & DIGITAL MEASUREMENTS

- Frequency Band: 5-1250 MHz
- Power Meas. Dynamic Range:  
25 to 125 dB $\mu$ V, -45 to 65 dBmV
- BER Measurement: (pre) bBER up to 1 x 10<sup>-9</sup>  
(post) aBER up to 1 x 10<sup>-9</sup>
- MER Measurement: up to 40 dB (1 dB typ., 2 dB max.)

### 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

### INGRESS & SPECTRUM MEASUREMENTS

- Ingress Scan Spectrum
- Frequency: 5 -65 MHz
- Level: 5 dBuV to 125 dBuV
- Accuracy: +/- 2dB
- BW: 100 KHz @ -3dB

### LEAKAGE MEASUREMENTS

- Frequency Range:
- 115-140 MHz (USA), 250-430 MHz (EUROPE)
- Resolution: 25 KHz
- Antenna type: selectable

### DOCSIS DOWNSTREAM MEASUREMENTS

- DOCSIS 3.0 Compliant Modem (8x4 CH BONDING)
- Frequency Band: 5-1000 MHz
- Input Impedance: 75  $\Omega$  (interchangeable "F" connector)
- Range: -45 to +65 dBmV
- Measurements Include: Level/Power, MER, Pre/Post BER, Lost Packet, Transmit Power, Transmitted Packets, Received Packets, PER, Latency Min/Max Avg, Channel Bonding Upstream Level and IP Status
- MAC Address: Default or user defined

### DOCSIS UPSTREAM & GENERATOR/TESTING

- Tone Generator Frequency: 5-65 MHz
- Modulation: QPSK, QAM, 8,16,32,64
- Typical Range: 8 to 53 dBmV (1 dB typ., 2 dB max.)
- Channel Bonding: Up to 4 upstream channels bonding supported ingress scan spectrum
- Frequency range: 5-65MHz

### COMM. PORTS

- DOCSIS 3.0 and RF: F - Female
- LAN: RJ45 10/100 Ethernet
- USB 2.0: Type B (PC Interface)
- USB 2.0: Type A (USB drive)

### GENERAL SPECIFICATIONS

- Power Supply: Built in NiMH rechargeable battery,  
  
external power supply 12 VDC 1A
- Battery Duration at 25°C: 4 hours
- Size: H 140 x W 240 x D 50 mm (meter only)
- PC Interface: USB
- Display: Color LCD 7" (480px x 800px)
- Front-Panel: Alpha numeric keypad
- Power Save: TFT backlight timer, brightness adj.
- PC Management: SMART software
- Standard Accessories:
  - Soft carry case and strap
  - USB 2.0 cable
  - AC adapter
  - 12V automotive charging cable
  - RF & optical interchangeable connectors
  - SMART software

### WARRANTY

- According to your country's laws (12 to 24 months)
- All electronic parts, except batteries, bag and damage

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<b>RECEPTION STANDARD</b>				
Freq. Range MHz	4 – 2250	4 – 2250	4 – 2250	5 – 1250
DVB-T2 / S2 / C	•	•	•	•
DVB-T2 LITE	opt.	opt.	opt.	•
DVB-C2	opt.	opt.	opt.	opt.
DAB / DAB+	opt.	opt.	opt.	–
DOLBY audio AC3–DD+	•	•	opt.	opt.
ISDB-T	opt.	opt.	opt.	–
ATSC	opt.	opt.	opt.	•
GB20600 DTMB	opt.	opt.	opt.	–
MPEG & AAC audio	•	•	•	•
<b>MEASUREMENTS</b>				
ANALOG TV PICTURE & VIDEO INPUT	•	•	•	•
MPEG 4 HD Picture or AVS	•	•	•	•
Analog Level and Digital Power	•	•	•	•
Analog C/N (Carrier to Noise)	•	•	•	•
Analog V/A (Video/Audio Ratio)	•	•	•	•
Full Spectrum: SAT-TV-CABLE	•	•	•	TV & CABLE
100 CHs TV Barscan	•	•	•	•
MER - BER - PER - SCR	•	•	•	•
Constellation	•	•	•	•
Noise Margin	•	•	•	•
AUTO Quality test	•	•	•	•
<b>ADVANCED FUNCTIONS</b>				
GPS Receiver	opt.	opt.	–	–
Prodrive Test SW	opt.	opt.	–	–
ETR 101-290 T.S. Analyzer	opt.	opt.	–	–
Network Delay Measurement	opt.	opt.	–	–
LAN IPTV/ASI	opt.	opt.	–	–
Optic Input	opt.	opt.	opt.	opt.
TV Minispectrum	opt.	opt.	–	–
LTE Filter	opt.	opt.	opt.	–
2.700 MHz SAT Extension	opt.	–	–	–
Video Waveform Monitor	opt.	–	–	•
Advanced "FFT" Spectrum Analysis	opt.	–	–	–
SAT Expert Function	•	•	opt.	–
Coaxial Cable Reflectometer	opt.	opt.	opt.	–
<b>OTHERS</b>				
Display Color TFT Touchscreen	10.2"	9"	7"	7"
Data Logger	•	•	•	•
Auto Discovery	•	•	•	•
Auto Memory	•	•	•	•
Manu Memory	•	•	•	•
Battery type	LI-PO >6 hr	LI-PO >4 hr	LI-PO >4 hr	LI-PO >4 hr
Bag & Shoulder Strap	•	•	•	•
Hard Suitcase	•	–	–	–

N.B. = Options are only available for quantities to be agreed and must be specified when ordering. All technical features are subject to change without notice