

2022 CATALOGUE

MEASUREMENT INSTRUMENTS



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NEW GENERATION





DOCSIS CATV

75Ω "F" CONNECTOR

 50Ω "N"

CONNECTOR











OF INSTRUMENTS







ASI T.S. ANALYZER T2 MI ANALYZER IPTV ANALYZER OPTIC ST/SC/FC



DOLBY.
APPROVED



AVIONIC ALUMINIUM BODY



REMOTE CONTROL



& TOTAL CONNECTIVITY







NEW NAVIGATION ICON MENU

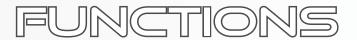
A new user interface very intuitive. It allow the fast selection of the function and of the measure you need with one click.



WI-FI ANALYSIS

Analyze all the wi-fi networks in the building and than check the power of the signal.







WIDE BAND RECEPTION



Compatible with the new systems WIDE BAND LNB, our equipments are able to measure the full band from 230 to 2610 MHz.

SATELLITE FAST TEST



Thanks to this function the user can check up to 4 satellite transponders quality at the same time. Also usefull to check the correct function of the LNB in all the polarities.







NETWORK DELAY

The Network Delay measurement is indispensable when operating in DVB-T SFN networks. It measures the Transport Stream Network Delay and checks that it does not exceed the TS MIP packet maximum value.



ETR 101-290 T.S. ANALYZER

The meter has a built-in TS analyzer that provides complete ETR101-290 priority 1–2–3 alarms monitoring. It analyses the transport streams, either demodulated from one of the RF inputs, injected via the ASI input connector or received via the GbE interface.

FUNCTIONS



GPS



The meter has an internal GPS receiver.

It allows you to carry out the analysis of a GPS reception antenna quality. It also provides time reference for the Network Delay function and location data when performing on-field measurement loggers when driving in a car or standing on.

This is practical for Network Operators because it allows signal verification coverage in specific areas and simulaneous comparison of several signals.

BARSCAN LEVEL GRAPH

Simultaneously check the level/power of all analog & digital channels. In TV standard canalization the meter displays the level/power of all channels as a bar graph. In AUTOMEMORY or MANUMEMORY PLAN the meter displays only the memorized channels and distinguishes Analog and Digital signals using two different colours (shows audio level).



PLAN MODULAT MARKER FREQ CHAN EUROPE DVBT&H CARRIER: 3408 682.00 47 35dB 28dB 21dB 14dB 7dB 6 852 1764 2556 3408 4260 5112 5964 6816 6 852 1764 2556 3408 4260 5112 5964 6816 WER: 36.0 dB RNS: 35.2 dB PENU CARRIER: 36.0 dB RNS: 35.2 dB

MER VS CARRIER

The MER measurement, performed for every single carrier in a DVB-T & T2 COFDM mux, is an indispensable tool to spot the impairments on the received digital signal.



MER vs CARRIER Reverse visualization.

Looking for HOTBIRD 13°



Found HOTBIRD 13°

SAT EXPERT FUNCTION

The "SATEXPERT SW" function, is a valuable aid for a fast satellite antenna pointing to a wanted satellite.

Through text messages, which appear from time to time on the screen, the measuring instrument will indicate in which direction to move the satellite dish, to the east or to the west, until you reach the wanted satellite.

Example pointing Hot Bird 13 ° East The tool informs you that the dish is oriented on the correct satellite via the message HBIR13 FOUND!

FUNCTIONS







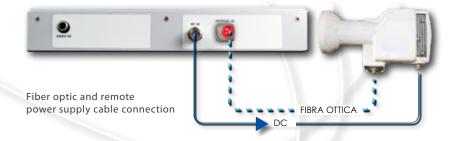
The meter has an internal optical to RF converter.

Can measures the OPTICAL POWER and OPTICAL

ATTENUATION, carries out RF measurements

(from the optical input), decodes the services and

visualizes the spectrum.





Measurements and pictures



Spectrum visualization



LONG TERM CHANNEL LOGGER OR QoS

Record the Quality of Service (QoS) using the WEEKLY CHANNEL LOGGER SW application (supplied with the ROVER HD Series).

This useful tool monitors and records the trend of the main parameters of a digital signal over time (from 30 minutes to 7 days): TV, Cable, Satellite, Radio or FM (DAB option available for specific models).

It is excellent for reception problems that occur occasionally.

The application allows you to measure, store and display (locally or remotely*) the parameters of the digital signals under test: DVB-S/T/C = Power, MER, ERROR, bBer, aBer; DVB-S2/T2/C2 = Power, MER, ERROR, aBer, Lber, PER, Ldcp. Each recorded parameter is graphically represented on the display using different colors for easy identification.



CROSS REFERENCE

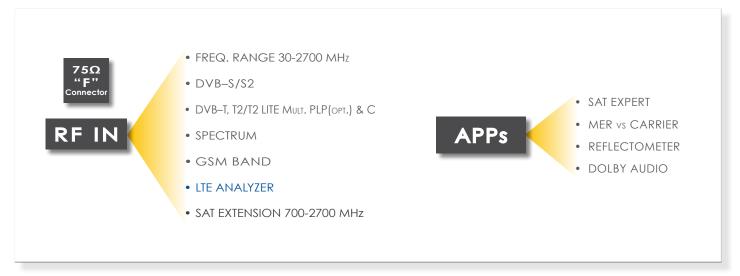
	HD TAB 9 Plus	HD TAB 900 Plus	TAB 7 Ulba	HD TAB 5 WBa	HD TAB 5 Lite	HD TAB 5 Sar
NB: The MENU (texts & graphics) can change, without advice, from model to model and related with the SW version.	3	H393	NEW NEW N	- Sugar	FACT I	SERT.
FREQ. RANGE	4 - 2450 MHz	5 - 2610 MHz	5 - 2610 MHz	30 - 2700 MHz	30 - 2700 MHz	700 - 2700 MHz
LEVEL RANGE	28 - 130 dBµV	28 - 130 dBµV	28 - 130 dBµV	35 - 115 dBµV	35 - 115 dBµV	35 - 115 dBµV
STANDARD DVB-T/S/S2/C	•	•	•	•	•	S-S2
STANDARD DVB-T2/T2 LITE	•	•	•	•	•	•
STANDARD DVB-S2 MULTISTREAM	•	•	•	ı	ı	•
WIDE BAND IN	ı	•	•	1	1	-
SAT EXTENSION up to 2.610 MHz	opt.	•	•	ı	ı	ı
DAB & DAB+	opt.	opt.	opt.	ı	1	ı
CAM C.I.	•	1	ı	1	1	ı
LTEANALYSIS	•	•	•	•	•	ı
OPTICAL INPUT	•	•	opt.	opt.	ı	opt.
H265 HEVC	opt.	opt.	opt.	opt.	ı	opt.
SAT EXPERT	•	•	•	•	•	•
TS ANALYZER ETR 101 290	•	ı	ı	ı	ı	ı
TS RECORDER	opt.	opt.	opt.	1	1	•
MER VS CARRIER	•	•	•	•	•	ı
MER	•	•	•	•	•	•
CONSTELLATION	•	•	•	•	•	•
DISEqC - dCSS - SCR	•	•	•	•	•	•
REFLECTOMETER	•	•	•	opt.	opt.	I
MINISPECTRUM	•	ı	,	ı	ı	
ECHOES ANALY SIS	•	•	•	•	•	ı
ANALOG TV	MEAS & PICT	MEAS & PICT	MEAS (PICT opt.)	MEAS only	MEAS only	
WI-FI	ı	opt.	opt.	opt.	1	opt.
GPS	opt.	ı	ı	ı	1	ı
NOISE MARGIN GRAPH	•	•	•	•	•	•
IPTV	opt.	opt.	opt.	ı	1	
ASI IN-OUT	•	ı	ı	ı	ı	I
LAN	•	•	•	1	1	
REMOTE MONITORING	•	•	•	1	1	ı
DRIVE TEST	opt.	ı	ı	1	1	ı
DOLBY AC3DD +	opt.	opt.	opt.	opt.	opt.	opt.
VIDEO IN RCA (CVBS)	•	•	•	•	•	ı
HDMI OUT	•	•	•	1	1	1
USB	A+B	A+B	A+B	В	В	В
TFT	" ດ	" ດ	7 " High Brightness	υ,"	2 "	υ, "Ω
TOUCH SCREEN DISPLAY	•	•	•	•	•	•
WEIGHT & DIMENSIONS	2,6 Kg / 29,0 x 17,0 x 5,5 cm	1,8 Kg / 15,5 x 27,0 x 4,0 cm	1,8 Kg / 27,0 x 15,5 x 4,0 cm	1,4 Kg / 13,0 x 25,5 x 4,0 cm	1,4 Kg / 13,0 x 25,5 x 4,0 cm	$1,4 \text{ Kg} / 13,0 \times 25,5 \times 4,0 \text{ cm}$
BATTERY CAPACITY	from 2 to 4 hours					
BAG	RUGGED BAG	RUGGED BAG	RUGGED BAG	EASY BAG	EASY BAG	EASY BAG
DOCSIS	DOWN STREAM	DOWN STREAM	DOWN STREAM	DOWN STREAM		ı





EASY & COMBINED FIELD METER









MAIN FUNCTIONS

SPECIAL FUNCTIONS

- Exclusive patented ROVER AUTODISCOVERY system: auto-matically detects and selects analog and digital COFDM/QAM TV signals in both measurement and spectrum mode.
- 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 (opt.).
- SATELITE: DiSEqC, SCR, dCSS & Motorized antenna commands, 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.
- **OPTIONS*:** check the Cross reference on page 12.

SPECIFICATIONS: MEASUREMENTS, SPECTRUM ANALYSIS & PICTURES

- Frequency Range: TV, CATV & Radio: 30-1000 MHz; SAT: 700-2700 MHz.
- Frequency Resolution: TV & CATV 25 KHz; SAT: 5 MHZ.
- Power range Meas.: TV 35 to 115 dBµV, SAT 5 to 105 dBµV.
- Digital Meas: Digital Power, MER (36 to 40 dB max depending on modulation), BER, PER, LDPC, BCH, Noise Margin, MER versus CARRIER.
- Measurement Resolution: 0.1 dB.
- **Level Measurement Accuracy:** 1 dB typ. (2 dB max.)
- Resolution Filter Bandwidth: TV & CATV: 100 KHz @ -3 dB; SAT: 5 MHz @ -3 dB.
- Constellation: for TV/CATV and SAT signals.
- **Spectrum:** Fast spectrum, 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.
- Digital Pictures: MPEG2-4 SD & HD, pictures with Program List, Audio Video PIDs, LCN, Video bit Rate all on one screen.



ISDB-T - ATSC - GB20600



COMM. PORTS AND OUTPUTS

- **RF Input:** 75 ohm (interchangeable "F").
- **USB 2.0:** Type B (PC Interface).
- **Audio:** AAC supplied, DOLBY (opt.).
- Video: Composite Video input.

GENERAL SPECIFICATIONS

- 5" TFT TOUCH display: 16:9 high resolution and high brightness.
- Power Supply: Built in LiPo battery with 2 to 4 hours duration (depending on the function) & Battery Test function.
- DC voltage at RF input: 5 12 18 24 V, DC DiSEqC, SCR & dCSS commands.
- PC Interface: USB-B.
- Front-Panel: Alpha numeric keypad.
- Power Save: TFT backlight timer, brightness adj.
- PC Management: SMART software.
- Weight: only 1,4 Kg with batteries.
- **Size:** H 13,0 x W 25,5 x D 4 cm.
- Housing: Aluminium and Steel and Light bag. (Elite bag with extra pdding Optional.)

NOTE: Some options must be requested when ordering the instrument.

Visit WWW.ROVERSHOP.IT to check the available accessories.

Features and functions may change without notice.

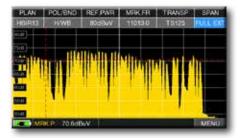
MEASUREMENT EXAMPLES



New Icon Navigation Menu



New Meas. & Pict. Super fast



SAT Spectrum



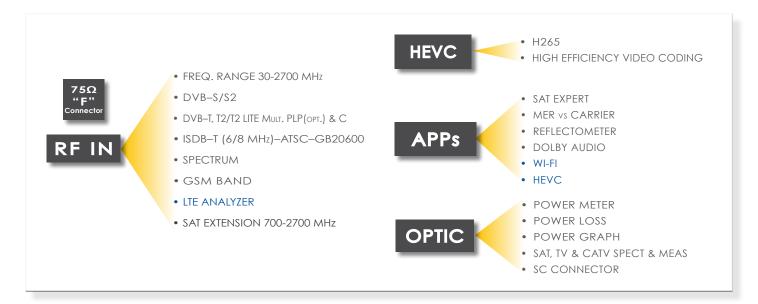
SAT FINDER



TAB 5 ULTRA

THE MOST EASY & COMBINED FIELD METER WITH HEVO







ISDB-T - ATSC - GB20600



MAIN FUNCTIONS

SPECIAL FUNCTIONS

- Exclusive patented ROVER AUTODISCOVERY system: auto-matically detects and selects analog and digital COFDM/QAM TV signals in both measurement and spectrum mode.
- 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 (opt.).
- Optical Input (opt.).
- WI-FI analyzer (opt.).
- HEVC H265 decoder (opt.).
- SATELITE: DiSEaC, SCR, dCSS & Motorized antenna commands, 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.
- **OPTIONS*:** check the Cross reference on page 12.

SPECIFICATIONS: MEASUREMENTS, SPECTRUM ANALYSIS & PICTURES

- Frequency Range: TV, CATV & Radio: 30-1000 MHz; SAT: 700-2700 MHz.
- Frequency Resolution: TV & CATV 25 KHz; SAT: 5 MHZ.
- Power range Meas.: TV 35 to 115 dB μ V, SAT 5 to 105 dB μ V.
- **Digital Meas:** Digital Power, MER (36 to 40 dB max depending on modulation), BER, PER, LDPC, BCH, Noise Margin, MER versus CARRIER.
- Measurement Resolution: 0.1 dB.
- Level Measurement Accuracy: 1 dB typ. (2 dB max.)
- Resolution Filter Bandwidth: TV & CATV: 100 KHz @ -3 dB; SAT: 5 MHz @ -3 dB.
- Constellation: for TV/CATV and SAT signals.
- Spectrum: Fast spectrum, 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.
- **Digital Pictures:** MPEG2-4 SD & HD, HEVC (opt.) pictures with Program List, Audio Video PIDs, LCN, Video bit Rate all on one screen.

OPTICAL MEASUREMENTS

- SC input connector.
- Automatic loss calculation.
- Wavelengths (nm): 1310, 1490, 1550.
- **Range:** -25 to +6 dBm.
- Resolution: 0.1 dB.
- **Accuracy:** +/- 0.5 dB.
- Optical to RF conversion.

COMM. PORTS AND OUTPUTS

- RF Input: 75 ohm (interchangeable "F").
- USB 2.0: Type B (PC Interface).
- Audio: AAC supplied, DOLBY (opt.).
- Video: Composite Video input.





GENERAL SPECIFICATIONS

- 5" TFT TOUCH display: 16:9 high resolution and high brightness.
- Power Supply: Built in LiPo battery with 2 to 4 hours duration (depending on the function) & Battery Test function.
- DC voltage at RF input: 5 12 18 24 V, DC DiSEqC, SCR & dCSS commands.
- PC Interface: USB-B.
- Front-Panel: Alpha numeric keypad.
- Power Save: TFT backlight timer, brightness adj.
- PC Management: SMART software.
- **Weight:** only 1,4 Kg with batteries.
- **Size:** H 13,0 x W 25,5 x D 4 cm.
- Housing: Aluminium and Steel and padded bag.

OPTIONS

- Optic Ingress
- Decoding HEVC H265 images
- Wi-Fi analyzer
- Dolby Audio AC3 DD+
- Elite bag with extra padding

NOTE: Some options must be requested when ordering the instrument.

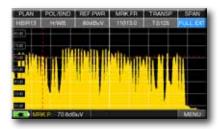
Visit WWW.ROVERSHOP.IT to check the available accessories.

Features and functions may change without notice.

MEASUREMENT EXAMPLES



New Icon Navigation Menu



SAT Spectrum



Wi-Fi Analyzer



New Meas. & Pict. Super fast



New constellation diagram



SAT FINDER

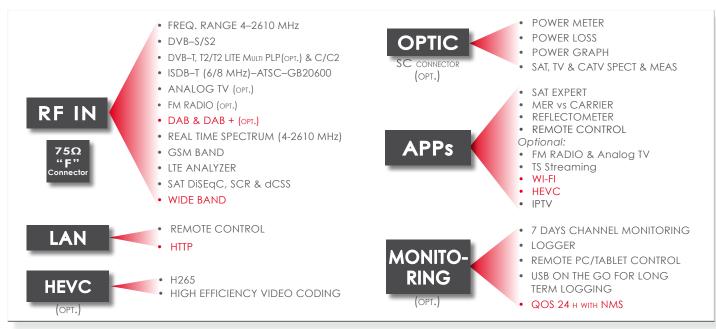


TAB 7 ULTRA



THE MOST INNOVATIVE TABLET FIELD METER COMBINED WITH HEVC









MAIN FUNCTIONS

SPECIAL FUNCTIONS

- NEW Intuitive navigation system with direct access to functions.
- Exclusive patented ROVER AUTODISCOVERY system: auto-matically detects and selects analog and digital COFDM/QAM TV signals in both measurement and spectrum mode.
- · 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.
- Optical Input (opt.).
- WI-FI analyzer (opt.).
- HEVC H265 decoder (opt.).
- SATELITE: DiSEqC, SCR & dCSS, SAT FINDER & SAT EXPERT Functions.
- 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.

SPECIFICATIONS: MEASUREMENTS, SPECTRUM ANALYSIS & PICTURES

- **Frequency Range:** TV Tuner & CATV extended band 4-1250 MHz; SAT TUNER extended band 930-2610 MHz; GSM extended band 860-1000 MHz for telephone repeater installations.
- Wide Band: 230-2610 MHz
- Frequency Resolution: TV & CATV: 25 KHz; SAT: 5 MHz.
- Power Range Meas.: TV 35 to 115 dBµV, SAT 5 to 105 dBµV.
- **Digital Meas:** Digital Power, MER (36 to 40 dB max depending on modulation), BER, PER, LDPC, BCH, Noise Margin, MER versus CARRIER.
- 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 @ -3 dB.
- Constellation: for TV/CATV and SAT signals.
- Spectrum: Fast spectrum, 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.
- **Digital Pictures:** MPEG2-4 SD & HD, HEVC (opt.) pictures with Program List, Audio Video PIDs, LCN, Video bit Rate all on one screen.
- Audio: AAC supplied, DOLBY AC3 DD+ (opt.).

OPTICAL MEASUREMENTS

- Maximum Ingress Power: 5 dBm.
- SC input connector.
- Automatic loss calculation.
- Wavelengths (nm): 1310, 1490, 1550.
- Range: -25 to +6 dBm.
- Resolution: 0.1 dB.
- Accuracy: +/- 0.5 dB.
- Optical to RF conversion: SAT, TV & CATV Measurements and Spectrum.



ISDB-T - ATSC - GB20600



COMM. PORTS AND OUTPUTS

- **RF Input:** 75 ohm (interchangeable "F").
- **SC optic ingress** (opz.)
- **USB 2.0:** Type B (PC Interface), Type B (for Memory stick).
- Composite Video input.
- **HDMI:** Images output & OSD
- LAN: ETHERNET Gbit
- WIFI: 2,4 & 5,0 GHz Analyzer

GENERAL SPECIFICATIONS

- 7" TFT TOUCH display: 16:9 high resolution and high brightness.
- DC voltage at RF input: 5 12 18 24 V, DC DiSEqC, SCR & dCSS commands.
- PC Interface: USB-B.
- Front-Panel: Alpha numeric keypad + Multifunction Encoder.
- Power Save: TFT backlight timer, brightness adj.
- PC Management: SMART software.
- Power Supply: Built in LiPo battery with 2 to 4 hours duration (depending on the function) & Battery Test function.
- Battery: Integrated lithium polymers from 2 to 4 hours of duration (depending on the function) and BATTERY TEST function.
- Battery door: removable battery door for quick and easy replacement without the need for assistance
- Weight: only 1,8 Kg.
- **Size:** H 27,0 x W 15,5 x D 4,0 cm (meter only).
- Aluminium and Steel Housing.
- Elite bag with extra padding and storage pocket.

OPTIONS

- DAB & DAB+ (HW).
- Optic Ingress (HW).
- Decoding HEVC H265 images (HW).
- WI-FI Analyzer (HW).
- Radio FM & TV Analogico (HW).
- Dolby Audio AC3 DD+ (SW).
- IPTV (SW).
- TS STREAMING (SW).

Visit WWW.ROVERSHOP.IT

to check the available accessories.

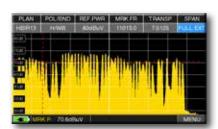
NOTE: Some options must be requested when ordering the instrument.

Features and functions may change without notice.

MEASUREMENT EXAMPLES



New Icon Navigation Menu



SAT Spectrum



Wi-Fi Analyzer



New Measures & Pictures Super fast



New constellation diagram



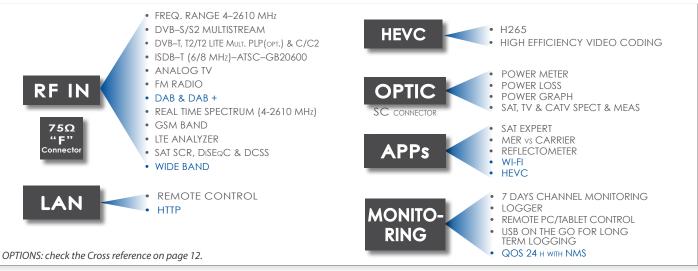
DVB-T2 HEVC Measurements and Pictures



HD TAB 900 Plus

THE NEW GENERATION OF TABLET ANALYZERS





SPECIAL FUNCTIONS

- Exclusive patented ROVER AUTODISCOVERY system: automatically detects and selects analog and digital COFDM/QAM TV signals in both measurement and spectrum mode.
- NEW: Exclusive Easy navigation menu.
- 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.
- Exclusive included APP: SAT Expert.
- MER versus CARRIER

- Reflectometric measurements APP
- LAN Interface: for remote web browser internet Monitoring with opt. APP.



ISDB-T - ATSC - GB20600



MAIN FUNCTIONS

MEASUREMENTS & SPECTRUM ANALYSIS

- **Freq. Range:** TV and CATV TUNER, extended band, 4-1250 MHz; SAT TUNER, extended band, 930-2610 MHz; GSM extended band, 860-1000 MHz for telephone repeater installation.
- Input Impedance: 75 ohm (interchangeable "F" connector).
- Digital Meas: Digital Power, MER, BER, PER, LDPC, BCH, Noise Margin, MER versus CARRIER.
- Analog Meas & Picture: Analog level, V/A ratio.
- Power range Meas.: TV 28 to 130 dBμV, SAT 30 to 130 dBμV.
- Net-id on board: Net-id, NID, TSID, LCN, SAT Orbit Position.
- Fast spectrum with MAX HOLD: full spect. capabilities with memory peak, variable span and automatic reference level.
- Constellation: for TV/CATV and SAT signals.
- Echoes, Pre-echoes, Micro-echoes: Representation in real Time.
- Quality: Digital Auto quality Test: PASS-MARGINAL-FAIL.
- **Digital Pictures:** MPEG2-4 SD & HD pictures with Program List, Audio Video PIDs, LCN, Video bit Rate all on one screen.
- TV Memory plan: World Wide countries with related channels plans pre-memorized.
- SAT Memory Plan: More than 2.000 transponders prememorized for world wide Satellite.
- Manual Memory Plan: Programmable TV, SAT (or combined TV/SAT) by PC or Local Keyboard.
- Loggers: TV, SAT & combined with stop & go function.
- Audio: AAC supplied, DOLBY (opt.).
- Optical Power meter: with SC connector for fiber optic testing (FTTH & FTTX).
- Free SMART PC interface program and FW upgrades.
- OPTIONS*: check the Cross reference on page 12.

GENERAL SPECIFICATIONS

- 9" TFT TOUCH display: 16:9 high resolution.
- DC voltage at RF input: 5 12 18 24 V, DiSEqC, SCR, dCSS.
- Battery: Li-Po battery pack, 3 h duration & Battery Test function
- Power supply & Battery charger: 12 Vdc, 2A.
- USB PC Interface: For SW upgrade on-line and memory plan management.
- **USB PC Interface:** For storage memory stick.
- Housing: Metal box and bag elite. Padded bag optional.
- Weight: only 1,8 Kg. Size: H 27,0 x W 15,5 x D 4,0 cm (meter only).
- * Some options must be requested when ordering the instrument.

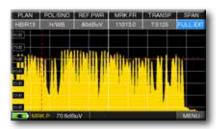
Visit
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accessories.

Features and functions may change without notice.

ICON MENU



New Icon Navigation Menu



Wide Band Measure & spectrum



Wi-Fi Analyzer



New Meas. & Pict. Super fast



New constellation diagram



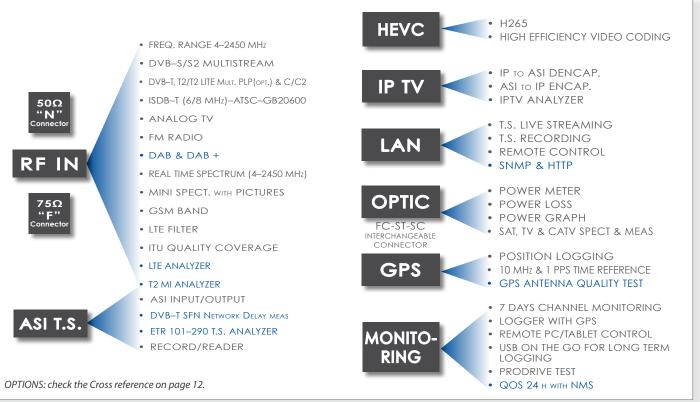
SAT FINDER



HD TAB 9 Plus

THE PROFESSIONAL & ACCURATE TOUCH SCREEN ANALYZER







ISDB-T - ATSC - GB20600



MAIN FUNCTIONS

SPECIAL FUNCTIONS

- ETR 101-290 T.S. Analyzer.
- 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: REMOTE MONITORING and LOGGING: TS, measurements, spectrum, thumbnails.
- Optical Input signals.
- SATELITE: SAT SCR, DiSEGC, 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.
- **OPTIONS*:** check the Cross reference on page 12.

SPECIFICATIONS: MEASUREMENTS & SPECTRUM ANALYSIS

- Frequency Range: TV, CATV & Radio: 4-1250 MHz (TAB 9 PLUS); SAT: 950-2450 MHz.
- Frequency Resolution: TV & CATV 25 KHz; SAT: 5 or 1 MHZ selectable.
- **Power range Meas.:** TV 28 to 130 dB μ V, SAT 30 to 130 dB μ V.
- Digital Meas: Digital Power, MER (32 to 42 dB depending on modulation), BER, PER, LDPC, BCH, Noise Margin, MER versus CARRIER.
- Analog Meas & Picture: Analog level, V/A ratio.
- 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/CATV 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.

OPTICAL MEASUREMENTS

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





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.
- 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 LiPo battery with up to 6 hours duration & Battery Test function.
- DC voltage at RF input: 5 12 18 24 V, DiSEqC, SCR, dCSS.
- PC Interface: USB.
- Front-Panel: Alpha numeric keypad.
- Power Save: TFT backlight timer, brightness adj.
- PC Management: SMART software.
- Weight: only 2,6 Kg with batteries.
- **Size:** H 29,0 x W 17,0 x D 5,5 cm.
- Housing: Aluminium and Steel and padded bag.

* Some options must be requested when ordering the instrument.

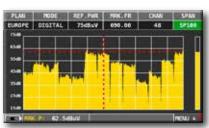
Visit WWW.ROVERSHOP.IT to check the available accessories.

Features and functions may change without notice.

MEASUREMENT EXAMPLES



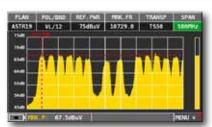
MER vs CARRIER: normal visualization



Spectrum TV 100 MHz span



ETR 101290 Transport Stream Analyzer



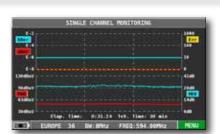
Spectrum SAT 500 MHz span



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



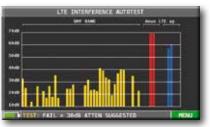
GPS antenna Quality, constellation & Position.



Single channel monitoring: 30 minutes



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



LTE Interference Autotest



CATV OR SAT INSTRUMENTS





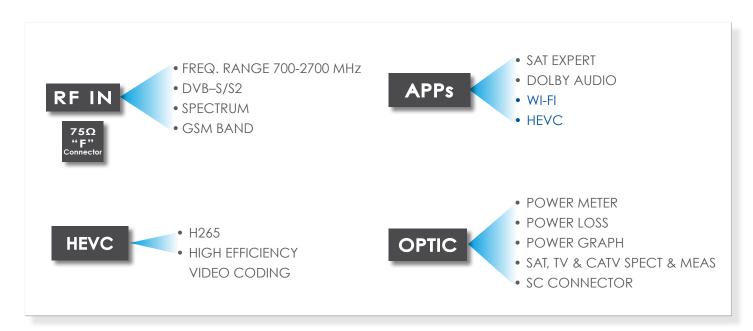


TAB 5 SAT



THE MOST COMPLETE SATELLITE METER









MAIN FUNCTIONS

SPECIAL FUNCTIONS

- Automatically identifies all the signals with digital modulation DVB-S & DVB-S2.
- Automatic Assistant: Signal Quality analysis, Channel Scan memorization.
- Buzzer & Noise Margin real time graph for digital signals microinterruptions.
- Optical Input (opt.).
- WI-FI analyzer (opt.).
- HEVC H265 decoder (opt.).
- SATELITE: DiSEqC, SCR, dCSS & Motorized antenna commands, SAT FINDER & SAT EXPERT
- Custom Channel Plans: 25 (199 ch. per plan), Programmable SAT by PC or Local Keyboard.
- Loggers: 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.

SPECIFICATIONS: MEASUREMENTS, SPECTRUM ANALYSIS & PICTURES

- Frequency Range: 700–2700 MHz.
- Frequency Resolution: 5 MHZ.
- Power range Meas.: 5 to 105 dBµV.
- **Digital Meas:** Digital Power, MER (20 dB max depending on modulation), BER, PER, LDPC, BCH, Noise Margin.
- Measurement Resolution: 0.1 dB.
- Level Measurement Accuracy: 1 dB typ. (2 dB max.)
- Resolution Filter Bandwidth: 5 MHz @ -3 dB.
- Constellation: Yes.
- Spectrum: Fast spectrum, Max Hold and spectrum memorization with real time compare function.
- Net-id on board: Net-id, NID, TSID, SAT Orbit Position.
- Quality: Digital Auto quality Test: PASS-MARGINAL-FAIL.
- **Digital Pictures:** MPEG2-4 SD & HD, HEVC (opt.) pictures with Program List, Audio Video PIDs, Video bit Rate all on one screen.

OPTICAL MEASUREMENTS

- SC input connector.
- Automatic loss calculation.
- Wavelengths (nm): 1310, 1490, 1550.
- Range: -25 to +6 dBm.
- **Resolution:** 0.1 dB.
- Accuracy: +/- 0.5 dB.
- Optical to RF conversion.

COMM. PORTS AND OUTPUTS

- **RF Input:** 75 ohm (interchangeable "F").
- USB 2.0: Type B (PC Interface).
- Audio: AAC supplied, DOLBY (opt.).
- Video: Composite Video input.





GENERAL SPECIFICATIONS

- 5" TFT TOUCH display: 16:9 high resolution and high brightness.
- **Power Supply:** Built in LiPo battery with 2 to 4 hours duration (depending on the function) & Battery Test function.
- DC voltage at RF input: 12 18 V, DC DiSEqC, SCR & dCSS commands.
- PC Interface: USB-B.
- Front-Panel: Alpha numeric keypad.
- Power Save: TFT backlight timer, brightness adj.
- PC Management: SMART software.
- **Weight:** only 1,4 Kg with batteries.
- **Size:** H 13,0 x W 25,5 x D 4 cm.
- Housing: Aluminium and Steel, bag.

OPTIONS

- Optic Ingress
- Decoding HEVC H265 images
- Wi-Fi analyzer
- Dolby Audio AC3 DD+
- · Elite bag with extra padding

NOTE: Some options must be requested when ordering the instrument.

Visit WWW.ROVERSHOP.IT to check the available accessories.

Features and functions may change without notice.

MEASUREMENT EXAMPLES



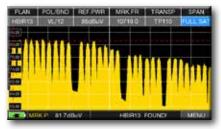
New Icon Navigation Menu



Wi-Fi Analyzer



New constellation diagram



SAT Spectrum



New Meas. & Pict. Super fast



SAT FINDER



MASTER SATEVO

THE NEW FRONTIER: WIDE BAND LNB 230-2340 MHz











Features and functions may change without notice.

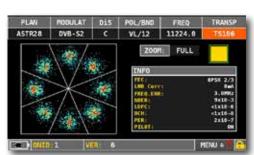
- WIDE BAND 230 2340 MHz with dSCR (dCSS), SCR & DiSEqC
- Drives standard & wideband LNBs
- Orbit position & programme listing & data
- MPEG 2-4 with SD-HD Picture
- Spectrum with MAX HOLD for precise dish alignment
- Full Logging capabilities
- SAT EXPERT: the fastest SAT identification APP
- PC Interface for free updates
- WiFi Network test (optional)
- Free basic SW upgradeable on-line

MEASUREMENT EXAMPLES

Z



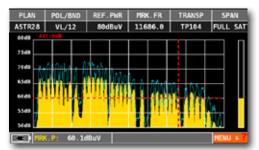
Main measurements and live picture



8PSK Constellation



Navigate to the picture to zoom, enter to return to measurements



Fast spectrum with peak memory "MAX H" for perfect dish alignment





MAIN FUNCTIONS

DVB-S/S2 (Demodulation)

- **Frequency band:** 230–2340 MHz for standard and Wide Band LNBs.
- Interchangeable input connector: "F type".
- Power Supply at RF input: OFF, +13, +18 V, 22 kHz (0.3 A), DiSEqC, dSCR/SCR, WIDE-BAND I NB.
- Digital power measurement dynamic range at RF input: from 30 to 115 typ. dBuV.
- Noise Margin Measurements.
- DVB-S/S2 Symbol Rate setting: 2–45 MS/s, in 1 kS/s steps.
- Measurement Parameters:
 - bBER up to 2x10-6 (before Viterbi)
 - aBER up to 2x10-8 (after Viterbi)
 - MER 2-25 dB resolution 0.1 dB
 - PER 10-2 to 10-7 (DVB S2)
 - BCH 10-2 to 10-8 (DVB S2)
 - LDCP 10-2 to 10-8 (DVB S2)
- **FEC:** DVB-S: 1/2, 2/3, 3/4, 5/6, 7/8; DVB-S2: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10.
- Automatic quality test: FAIL, MARGINAL, PASS.
- Noise Margin Measurements: from –1 to 12 dB with built in FEC compensation.
- **NET. ID.** Shows bouquet and transponder names, the encryption system, orbital position and date.

AUDIO & VIDEO OUTPUT

- **4,3" color TFT** 16:9 high resolution monitor with Auto-Off timer: after 5 or 10 min without use.
- MPEG2 & MPEG4 SD & HD.
- Audio decoding: AC3 EC3 (Dolby Digital -Dolby Digital Plus) opt.; AAC - HEAAC opt.

SAT SPECTRUM ANALYSIS

- Frequency band: 230–2340 MHz.
- Span: 50–100–200–500–FULL WIDEBAND-LOW BAND-HIGH BAND.
- **dB/div:** 5.
- **Display dynamic range:** >30 dB.
- Marker measurement resolution: 0.1 dB.
- Measurement filter bandwidth: 5 MHz at -3 dB.
- **Reference level:** from 30 to 120 dBµV, from -60 dBmV to +60 dBmV.
- Reference level settings: automatic and manual adjustable.
- MAX HOLD (peak hold).

SOFTWARE and FIRMWARE:

 "SMART" PC interface program for SOFTWARE (FW-Firmware) and MEM plan editing is available free of charge on Rover Instruments web site.

- SOFTWARE (FW) upgrades are available free of charge. Check periodically Rover Instruments web site.
- MEM: Satellite transponder list file (MEM PLAN)
 upgrades are available free of charge.
 Check periodically Rover Instruments web site.

MEMORY:

99 available Memory Plans & Datalogger function.

POWER SUPPLY:

- External power supply 12 V 1A.
- **Battery** 7,2 V 4,3 Ah.
- Built in rechargeable batteries with option for field serviceable module for battery replacement.
- **Li battery technology**, where user serviceable module supported instrument to be supplied with two battery modules as standard.
- Battery duration at 25°C:
 - 3 hours in satellite alignment mode
 - >4 hours in Wi-Fi mode where supported
- Low Battery indicator: with acoustic signaling and visual indication on graphic display.
- Automatic power management features
 - Back panel illumination has user adjustable time out
 - Indication of battery status charge
- **Battery re-charge time:** 1 hour for approx. 50% capacity, <6 hours for full charge.
- On-board battery recondition cycle and condition reporting (battery test).
- Meter power off automatically after 5, 10 minutes user selectable, option for user selectable always on.

DIMENSIONS AND WEIGHT

- H 8,0 x W 22,5 x D 21,5 cm.
- 1.3 kg with batteries, bag and accessories.
- ABS plastic housing rain, dust & shockproof.

WI-FI (optional)

• WI-FI network testing: 2.4 GHz and 5 GHz.

ACCESSORIES

- Carrying protective bag with side pocket bag and shoulder strap.
- TRASF-12V-1A0-G-UK: AC/DC adapter: 100V-240V/12 VDC, 1A.
- **CNN-F-0153**: interchangeable F F double female input connector.

Some options must be requested when ordering the instrument.



QAM EXPERT

IT HAS NEVER BEEN SO SIMPLE, ACCURATE & COMPLETE



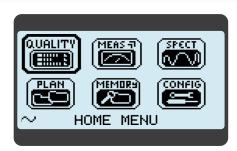
A well job done in 3 seconds!

Connect the
CATV socket and
automatically SCAN
the Power and Quality
up-to 140 channels in
blocks of 8 channels.

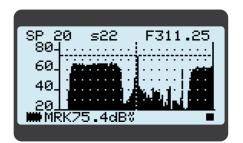
- EASY TO USE FULLY AUTOMATIC
- SIMULTANEOUS ANALYSIS
 IN BLOCKS OF 8 DIGITAL
 AND/OR ANALOG CHANNELS
- FULLY AUTOMATIC MEASUREMENTS
- FAST QUALITY MEASUREMENTS

- WORLDWIDE TV STANDARDS
- LI-PO LONG BATTERY DURATION
- ROBUST METAL HOUSING
- RAIN PROOF BAG

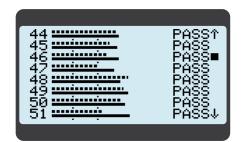
MEASUREMENT EXAMPLES



Icon menu



Spectrum with Memory Peak



8 digital channels block analysis



DVB-C Measurements





MAIN FUNCTIONS

MEASUREMENTS & SPECTRUM ANALYSIS

- Frequency Range: 5 MHz to 1000 MHz.
- Input Impedance: 75 ohm (interchangeable "F" connector).
- Power range MEAS.: 10 to 100 dBµV (-50 dBmV to 60 dBmV) 120 dBµV with ext. attenuator.
- Fast spectrum with MAX HOLD: Full spect, capabilities with peak memory, variable span and automatic reference level.
- Meas: All digital and analog measurements, see table below.
- Quality FAIL MARGINAL PASS: Measuring the quality and the power up-to 140 CHs in blocks of 8
 Digital or Analog channels simultaneously.
- Barscan: TV analog and digital bars scan form 10 to 100 channels.
- Memory plan: World Wide countries with related channels plans are pre-memorized.
- Free basic SW upgradeable on-line.

Features and functions may change without notice.

SPECIFICATIONS

LEVEL MEASUREMENT & SPECTRUM ANALYSIS

• Frequency Range: TV, CATV and Radio 5-1000 MHz

Frequency Resolution: 25 KHz
 RF Input Impedance: 75 Ω (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: 5-1000 MHz

Power Meas. Dynamic Range:
 25 to 125 dBµV, -45 to 65 dBmV

• BER Measurement: (pre) bBER up to 1 x 10-9

(post) aBER up to 1 x 10-9

• MER Measurement: up to 40 dB

(1 dB typ., 2 dB max.)

INGRESS 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), 250-490 MHz (EUROPE)

• Resolution: 25 KHz

• Antenna type: selectable

GENERAL SPECIFICATIONS

• DC voltage at RF input: 5Vdc.

• Battery: Rechargeable Li-Po battery pack, 5 hour duration.

 USB Micro: For battery charge and PC interface for SW up-grade and memory plan management.

Housing: Metal box and rain proof bag.

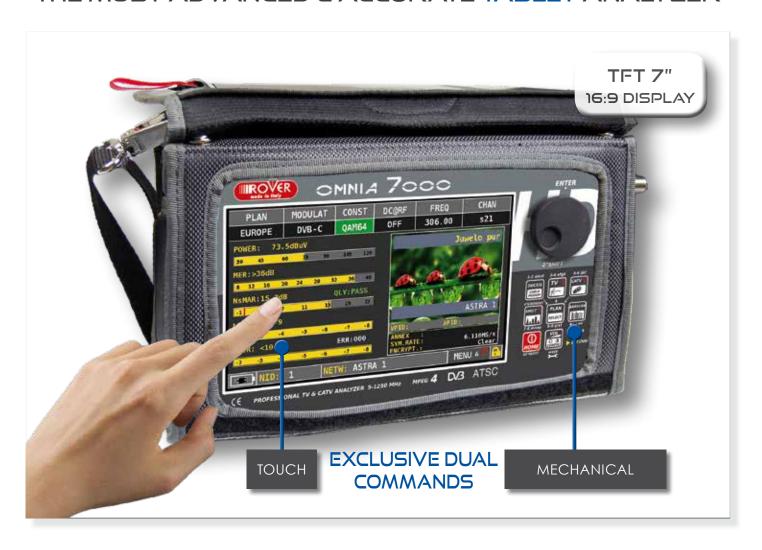
• Size: H 95 x W 160 x D 34 mm (meter only).

• Weight: 500 gr.



OMNIA 7000

THE MOST ADVANCED & ACCURATE TABLET ANALYZER





- FREQ. RANGE 5–1250 MHz
- DVB-C J83B ATSC NTSC (US VERSION)
- OPTICAL INPUT
- DVB-T, T2/T2 LITE MULT. PLP(OPT.) & C/C2
- ANALOG TV
- FM RADIO
- DAB & DAB +
- REAL TIME SPECTRUM (5-1250 MHz)
- GSM BAND
- LTE ANALYZER
- INGRESS
- HUM MEASUREMENTS
- ANALOG SIGNAL/NOISE IN QUITELINE
- LEAKAGE MEASUREMENTS



- T.S. LIVE STREAMING
- T.S. RECORDING
- REMOTE CONTROL
- SNMP & HTTP

 ${\it OPTIONS: check the Cross reference on page 12.}$



- DOCSIS 3.0 (4 x 4 or 8 x 4) CHANNEL BONDING
- 5 to 1250 MHz FREQ. RANGE FOR DOCSIS 3,1 ANALYSIS
- DOCSIS UPSTREAM TONE GENERATOR 5-65 MHz



- POWER METER
- POWER LOSS
- POWER GRAPH
- CATV SPECT & MEAS
- OPTIC TO RF CONVERTER



- 7 DAYS CHANNEL MONITORING
- LOGGER
- REMOTE PC/TABLET CONTROL
- USB ON THE GO
 FOR LONG TERM LOGGING
- QOS 24 H WITH NMS







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 versus CARRIER (opt.), 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 (opt.).
- · Ping report, Network IP configuration.
- Lost Packet measurements, latency time and PER.
- DOCSIS upstream tone generator 5-65 MHz.
- OPTICAL POWER METER with interchangeable FC-ST-SC connector for fiber optic testing (FTTH & FTTX) and troubleshooting (opt.).
- 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/freg 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-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 SMART PC interface program and FW upgrades.

Features and functions may change without notice.

MEASUREMENT EXAMPLES



VSB constellation, on the right relative modulation parameters



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



J83-B constellation, on the right relative modulation parameters



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



Single channel monitoring (for example 30 minutes)



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 Ω (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 dBμV, -45 to 65 dBmV
- BER Measurement: (pre) bBER up to 1 x 10-9 (post) aBER up to 1 x 10-9
- 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 Ω (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: 5-65 MHz

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 LiPo 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
- AVAILABLE OPTIONAL APPs: DVB-T/T2, DOCSIS 3.0 Cable Modem (4X4 or 8X4), Optic Input, HD DOLBY, HD MER Vs CARRIER, HD COAX Cable Reflectometer, HD Remote Control, DVB-C2.

WARRANTY

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

Visit WWW.ROVERSHOP.IT to check the available accessories.

Some options must be requested when ordering the instrument.



& MORE

MOD. ONG 70 USB HIGH POWER WHITE NOISE SOURCE 4-2500 MHZ



SPECIFICATIONS:

Freq. Range: 4 – 2500 MHz
 Noise type: White Gaussian
 ENR: 70 dB 75 Ω 25°C
 Output power: – 56 dBm (Mesured at

100 KHz spectrum RBW)

Flatness: 1,5 dB typ. 2 max
 Impedance: 75 Ω, SMB, (50 Ω opt.)
 PSU: USB, 5 Vdc, 80 mA

Size: USB stick

Turn your Commercial Spectrum Analyzer into a Scalar Network Analyzer to measure:

ACTIVE DEVICES

- GAIN
- FLATNESS
- BW
- WSWR*

PASSIVE DEVICES

- LOSS
- FLATNESS
- RW
- VSWR *

COAX CABLE/REFLECTOMETER

- LOSS
- LENGTH
- SHORT-CIRCUIT DISTANCE **
- OPEN CIRCUIT DISTANCE **
- IMPEDANCE MISMATCH

* With RF Bridge. ** With simple slide ruler, depending on Cable type

VERY HIGH POWER CALIBRATED & MODULATED NOISE GENERATOR



SPECIFICATIONS:

RF Noise Signal : White GaussianFreq. Range : 4-2150 MHz

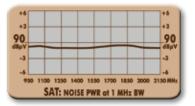
• CH Power out : 97 dB μ V \pm 2 @ 8MHz BW • TV Power out : 83 dB μ V \pm 2 @ 100KHz BW • SAT Power out : 88 dB μ V \pm 2 @ 1MHz BW • Noise Modulation : 50 Hz Flat (ON/OFF)

• RF Attenuator: 20 dB Flat

• Battery Capacity: 6-8 hours with low battery indication

The CNG 90 is the most powerful hand held noise generator currently available, in the frequency range from 4 to 2250 MHz, it allows passive coaxial cable networks testing, also of large size.

+3 80 dByV -3 -5 5 125 250 375 500 625 750 875 1000 NHz TV: NOISE PWR of 100 KHz BW



With 50 Hz modulation it is possible to measure the network C/N, without switching off the generator. A built in 20 dB RF flat attenuator also allows you to analyze and measure amplifiers or active coaxial CATV networks. The CNG 90 can be used in conjunction with any meter or spectrum analyzer, even from other brands.

MOD. MOS 4

MULTIPLE OPTICAL LASER SOURCE



SPECIFICATIONS:

• 1th wave length: 1310 n.m.

2th wave length: 1490 n.m. (1625 for USA)

3th wave length: 1550 n.m.
 4th red Light: 650 n.m.

Optical Connector: interchangeable FC-ST-SC

• Optical Power: 0 dBm Typ

• AWC : Automatic Wave Detection

Battery Capacity: 4 - 6 hours with low Battery Indicator

The Multiple Optic laser Source "MOS 4" is suitable for any optical network, PON & FTTHx; Used in combination with ROVER analyzers (fitted with the optical option), and thanks to the AWD, it allows you to automatically and accurately check the losses for various wavelengths.

Furthermore, thanks to the red laser, the "MOS 4" will also allow the identification of any breaks in the optical fiber.

Features and functions may change without notice.

MOD. HD PROBE & NMS

Highly reliable, easy Network Management System to check 24 h Quality of Service for Radio, TV & SAT signals through multiple HD ROVER meters/probe placed in your distribution network.



HOW TO FIND US:

in Sirmione, Lake Garda, Italy.

Situated in one of the most beautiful tourist locations in Italy, on Lake Garda, ROVER can be easily reached from Milan, Bergamo, Verona and Venice airports.

Lake Garda is in the north of Italy, near the borders of Austria, Switzerland and Germany and is in the foothills of the Alps.

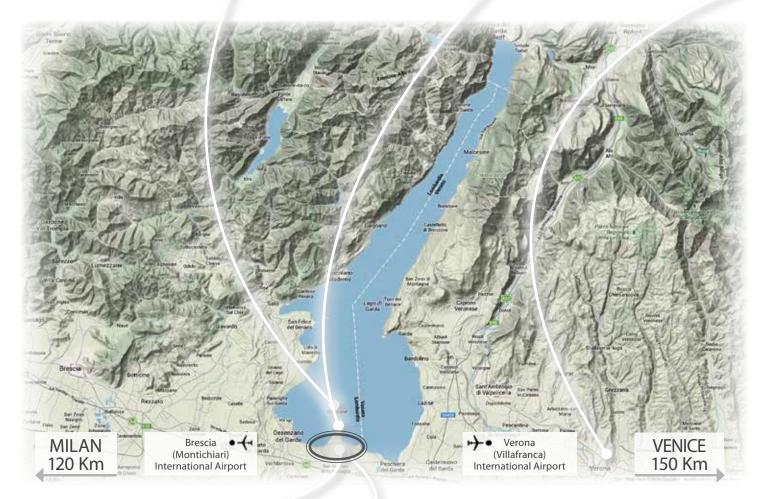
Lake Garda has a micro-climate, tropical in summer and temperate in winter, and where palms, olives, lemons, oranges, bouganville and even banana trees can grow.

Exploited by the Romans as long ago as 350 a.C., it is now one of the most important lakeside, spa and tourist resorts in Europe. Please find below photographs of some of the most important tourist attractions in the area.









GPS COORDINATES: 45° 27′ 47″N, 10° 36′ 24″ E





