

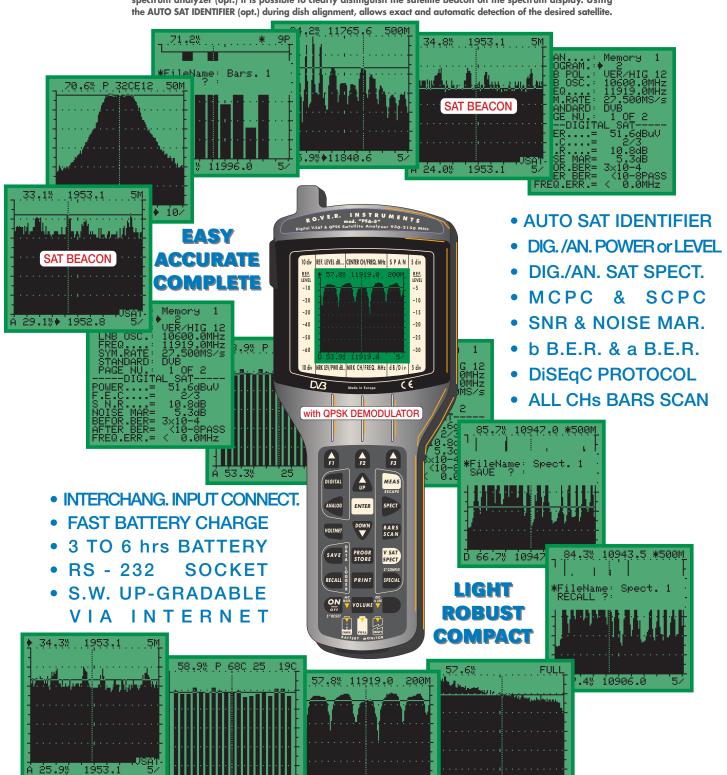
INTRODUCES: PSA - 5"

PROFESSIONAL **DIGITAL SATELLITE**"QPSK • V.SAT • DVB-S/DSS" PALM-TOP ANALYZERS

1 to

FREQUENCY: 930-2150 MHz • LEVEL/POWER: 15 to 110 dBµV (-45 to +50 dBmV)

Specially designed for V.SAT & DBS, Satellite V. SAT installations, thanks to its high sensitivy and high resolution spectrum analyzer (opt.) it is possible to clearly distinguish the satellite beacon on the spectrum display. Using the AUTO SAT IDENTIFIER (opt.) during dish alignment, allows exact and automatic detection of the desired satellite.



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MAIN TECHNICAL SPECIFICATIONS

ANALOG SAT

Frequency band:

930-2150 MHz

• Frequency/Program reading:

on graphics display

Frequency resolution: 0.1 MHz

• Input impedance: 75 Ω , interchangeable

"F" connector (BNC - IEC - N opt.)

· Measurement dynamic range at RF input:

from $25dB\mu V$ typ. (15 min.) to 105 dB μV typ. (110 max.) or -45 to +50 dBmV, or -93 to +2 dBm (selectable)

Measurement resolution: 0.1 dB

Level measurement accuracy at 20°C:

1.5 dB typ. (3 dB max.)

(with software correction after 5 minutes' warm up)

Measurement stability versus temperature from

- Ø to 50°C: 0.03 dB/°C

Program/frequency plan:

by frequency or storable memory and relative data logger, up to 300 memory positions

DIGITAL SAT DVB—& DSS with SCPC, MCPC, QPSK demodulator

Power measurement dynamic range at RF input:

from 25 to 110 dB μ V, from -35 to +50 dBmV, from -83 to +2 dBm (selectable)

QPSK Symbol Rate setting:

2,69/45 MS/s (with 1 KHz steps) (with automatic generation of the pre-memorized selection table)

• BER measurement before and after Viterbi: bBER up to 2 x 10^{-4} aBER up to 2 x 10^{-9}

• FEC, automatic selection and display: 1/2, 2/3, 3/4, 4/5, 5/6, 6/7, 7/8, 8/9

- Quality test: FAIL, MARGINAL, PASS (automatic)
- Noise margin measurement: from -2 to 12 dB
- Frequency error measurement: caused by the LNB or a tuning mistake (±3 MHz).
- Selectable LNB Oscillator Freq.: 0 to 12.500 MHz (with 10 MHz steps) with automatic generation of the pre-selection table or direct "L" band freq. reading.
- Digital satellite standard selection: DVB/DSS

AUTOMATIC OR MANUAL SPECTRUM ANALYSIS & BAR SCAN

Analog & Digital SAT

- The spectrum measurement is completely automatic or manual and can be selected by program or frequency.
- Simply passing from Measurement (MEAS) to Spectrum (SPECT) you can immediately see the spectrum of the prog./freq. received perfectly and automatically aligned to the reference level.
- These parameters are automatically set with the following values (in auto mode):
 - Reference level: at the top and with level/power value indication on the display
 - Span: 50 MHz (5 MHz in V.SAT SPECT)
 - dB/division: 5 dB
 - Frequency/level marker position is at the center carrier for all analog & digital SAT with level and frequency indication on the display, related to MRK position.
 - Analog or digital signal measurement indication is already correlated: "A/D" on display.
 - Indication of the selected program/freq.: on the display
- Obviously all the spectrum parameters can be selected and varied manually by simply navigation with the cursor on the display and, if you are in auto, each time you change from measurement to spectrum the meter automatically resets all the default spectrum parameters.
 - Frequency range: SAT 930-2150 MHz
 - Dynamic range: 25 dB typ. (30 dB max.)
 - Resolution bandwidth: 3 MHz /(150 KHz V. SAT opt.)
 - **Reference level:** from 10 dBμV to 110 dBμV, or –50 to +50 dBmV, or –98 to +2 dBm (selectable)
 - **Span:** 5-10-20-50-100-200-500- FULL
 - Marker frequency: 930-2150 MHz in frequency
 - Marker level: from 15 dBµV to 110 dBµV or dBmV, dBm
 - Marker analog level measurement: automatic when selecting ANALOG and with indication on display (A)
 - Marker digital power measurement: automatic when selecting DIGITAL and with indication on display (D)
 - Bar scan: from 9 to 120 channels (selectable)
 - Storable spect. & bar scan: up to 40 pictures.

OTHERS

LNB feed:

- Analog OFF +13V, +18V/22 KHz (0.25 A)
- "8 DiSEqC-1" and "8 DiSEqC-2", pre programmed in sequence, very easy to use and to memorize.
 They can drive any type of analog or DiSEqC, single & double feed LNB & any type of 4 or 8-way, analog or DiSEqC multiswitch.
- DiSEqC transmission via special menu, can control any type of DiSEqC devices.(opt.)
- Buzzer with selection of related parameter
- Master Copy function (optional via PC)
- Power supply:
 - Built-in NI-CD rechargeable batteries: 8 batt. 8Vx 2,1A
 - External power supply: 17 Vac or 20 Vdc (1A), (conn. Ø5.5 x 2.2 on power pack)
 - AC/AC adapter: 230 Vac (117 V opt.), 17 Vac output
- Battery duration at 25°C:

Up to 6 hours without LNB FEED From 2 to 4 hours with LNB (depending on LNB consumption and back light display)

- Low battery indicator: on the graphics display
- Fast batt. recharge time: 3 hrs approx. with electronic control and led monitor
- Instrument size: H 30 x W 11 X D 6 cm
- Instr. weight: 0,9 Kg with batteries
- Casing structure: plastic-(ABS)
- RS232 standard serial interface port available for:
 -downloading and/or printing stored data from PSA to PC
 - -the possibility of up-grading the PSA software via internet, which will lengthen the life of your meter.
- Back light graphic display:

128 x 128 pixel, 3" for measurement & spectrum

- Auto off timer: after 5 minutes without use (selectable)
- Auto test menu: to check the main digital circuit
- Temperature meter indication: in °C or °F
- Clock calendary indicatonBelt bracket

INCLUSIVE ACCESSORIES

N.1 mod. "TRASF-R142-230S" AC/AC Adapter

(mains transformer)

- input 230 or 117 Vcα,
- output 17 V, 1 A



N.1 mod. "BORSA-PDA"

Protective bag for instrument with pocket for small tools, shoulder strap for transport purposes



N.2 mod. "CNN-F-0150"

Interchangeable F-F double female input connector ------



RS 232 female/female (Null modem) cable to connect PSA to PC, for software upgrades via internet



OPTIONAL ACCESSORIES

- mod. "V.SAT SPECT" (150 KHz RBW)
 High resolution spectrum filter to display the SCPC and Telemetric Beacon Carrier. (Factory upgrade only, the instrument must be returned to RO.VE.R. Labs in order to add this optional functionality).
- mod. "AUTOMATIC SAT IDENTIFIER"
 A sophisticated FW that during dish pointing, allows exact and automatic detection of the desired satellite. (Factory upgrade only, the instrument must be returned to RO.VE.R. Labs in order to add this optional functionality).
- mod. "VCA-1224" DC/DC cigarette lighter charger adapter VIN=12V VOUT=24V for batterie recharge -



- mod. "TRA-FFEM-CEIFEM"
 Interchangeable "F" female /
 "IEC" female input connector
- mod. "TRA-BNFC-FFEM"
 Interchangeable "F" female /
 "BNC" female input connector -----
- mod. "ATT-F-6 or 10 or 20"
 RF attenuator, 6-10-20 dB
 interchangeable F-F double -----



