



III A STEP AHEAD IN DIGITAL TELEVISION

PRESENTS:

DISCOVERY & SCOUT



ROBUST, STYLISH & LOW COST ANTENNA ANALYZERS Simply carried around your neck, it leaves both your hands free



DVB-S / ANALOG S.C.R. READY

LEVEL-POWER MFR-FVM-BFR **NOISE MARGIN QUALITY MEAS** MPEG DECODER NETWORK IDEN. Aud/Vid PID LIST SAT FINDER DATA LOGGER **DUAL LNB POINT** Transponder Navigation





DVB-T DVB-H & ANALOG

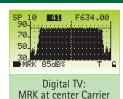
LEVEL-POWER MFR-SNR-BFR **NOISE MARGIN QUALITY MEAS CONSTELLATION** MPEG DECODER PROGR. SERVICE NETWORK IDEN. Aud/Vid PID LIST AUTOSCAN DATA LOGGER

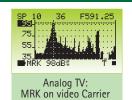
SHOOT OUT ALL YOUR DVB-T, DVB-H and ANALOG TV CHANNELS, YOUR METER WILL AUTOMATICALLY and INSTANTLY RECOGNISE THEM, BOTH IN MEASUREMENT and SPECTRUM

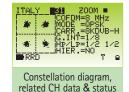


Digital MER-SNR Noise Margin & Quality Meas











Always a Step Ahead and at your Service with DISCOVERY & SCOUT



ADVANCED

The DISCOVERY family was specifically designed to meet the requirements of installers and operators, who have to rapidly adapt to all the new, emerging, digital technologies: DVB-S, DVB-T, DVB-C, DVB-H and also the new LNB's with S.C.R. (Single Cable Router) technologies.

POWERFUL

The DISCOVERY meter is the most powerful, compact and economical RADIO-TV-SAT analyzer existing on the market and it allows you to carry out any measurement, on both digital and analog signals, in terrestrial and satellite bands, with direct SAT TRANSPONDER navigation and dual LNB pointing.

MORE PERSONAL SAFETY

The meter's size and weight (only 2 Kg) facilitate transport and use. If carried around your neck, the meter allows perfect viewings and readings, keeping both hands free. This not only simplifies operation in normal working conditions, but also guarantees total personal safety even in the most critical situations (on roof tops, ladders, etc.).

FAST and AUTOMATIC

The DISCOVERY meter is the first of its kind to include a builtin, 32 bit, 100 MHz, ARM-7 microprocessor. This, together with a high capacity memory, enables you to identify, analyse and automatically and instantly store the digital and analog TV signals, according to the relative standard used in your country and the meter automatically supplies the measurements of the digital signal quality: FAIL-MARG-PASS.

MORE MEMORY

The high capacity FLASH memory allows you to memorize up to 200 plans, which accommodate many thousands of TV channels and pre–loaded satellite transponders.

USB PORT USB2

A USB-2 port permits PC control, using special and sophisticated software, which simplifies the meter's operation (special, prememorized channel plans, "Data Logger" downloads, implementation of new software releases via internet, etc.)

DUAL DISPLAY

Two displays, one graphic for spectrum/measurements and one 4" TFT color for pictures allow you to obtain, simultaneously and separately spectrum/measurements and full pictures. This guarantees perfect measurement vision both in full sunlight and in the dark.

FULL OPTIONAL ACCESSORIES

The meters are supplied with a built-in shoulder strap, useful hard case for transport, batteries with a 3 to 4 hour autonomy and a charger to charge the batteries from your vehicle or from mains etc.

COMPLETE AND SIMPLE NAVIGATION

In order to explain the simplicity of the meters' operation, we describe below how to navigate in TV and SAT bands.

NAVIGATION IN TV BAND

(including channel PLANS from all over the world).

These meters can operate in three ways:

a) NAVIGATION IN THE CHOSEN COUNTRY PLAN.

By navigating manually in the country's channel PLAN (for example, channels 21–22–23, etc.), the meter instantly recognises the type of signal (analog or digital) and immediately supplies all the various measurements (level, MER, SNR, BER, NOISE MARGIN, QUALITY) and spectrum analysis. It also supplies the network name, the bouquet name, the encryption system and, last but not least, the names of all the programs, services and audio and video PID's, contained in the bouquets, even if they are

encrypted. An interesting feature is the possibility of navigating in spectrum, using channels, and automatically obtain the level measurement and position the "marker" on the video carrier. In the same way power measurements are supplied for digital channels and the "marker" is positioned in the center of the channel.

The DISCOVERY is the only meter that automatically sets the REF LEVEL (level scale) on the spectrum.

- NAVIGATION IN THE CUSTOMER PLANS, stored manually using the meter, or preloaded using a PC, via the USB port.
 - AUTOSCAN (complete automatic auto-memorization function). Basically when connecting an antenna to the meter and after setting the minimum threshold at the required level, the meter automatically recognises, identifies and stores the various programs received in this location, generating an "AUTO" memory plan, which can be selected from N.1 to N.99,

NAVIGATION IN SAT BAND

(including the data of the main satellites in Europe/Asia/America and all their relative transponders).

 a) NAVIGATION IN THE CHOSEN SATELLITE TRANSPONDERS (for example ASTRA 19°, already pre-stored on board).

satellite name and relative orbital position have been selected, you can navigate directly using the number of transponders and/or relative frequency. The transponders are listed in increasing frequency values and have all the LNB parameters pre-stored: L.O. and band, DiSEqC and the new "SCR" LNB's for 4 or 8 users (Single Cable Routers),

as well as multi-switches with 4-8-12 or 18 cables. b) NAVIGATION IN THE MEMORY PLAN (for example PLAN 46, stored

for each installation or for each town.

manually by the user or using a PC). This allows you to navigate in the various programs from 1 to 199 according to the sequence and settings stored by the user.

In both cases the meters automatically supply all the power measurements for digital transponders, and the level for analog ones, as well as supplying MER, EVM, BER, NOISE MARGIN, QUALITY measurements and the network name, bouquet, the orbital position and encryption system. Last but not least, the meters supply the names of all the programs (services) and Audio and Video PID's contained in the bouquet, even if they are encrypted.

Another important feature: it is possible to navigate in spectrum mode, with transponders, memory programs or frequencies.

The meter automatically supplies the level

measurement for analog transponders and the power measurement for digital transponders, already correlated to the relative Symbol Rate value (without having to position the band marker), this, thanks to the quantity of pre-stored data in the meter and excellent calculation power. It is also the only meter that can automatically set the REF LEVEL (level scale) of the spectrum.

NOISE MARGIN QUALITY MEASUREMENT (unknown):

this is another exclusive ROVER measurement.

Pointing the antenna and/or satellite dish to the maximum level does not always mean the maximum signal quality. In fact, in the case of interferences with the analog TV signal, it is possible to carry out pointing for the best and clean picture and not always for the maximum level. With digital signals you should get used to measuring the NOISE MARGIN and increase it to the maximum value possible (minimum 2 dB for SAT and 6 dB for digital terrestrial) to guarantee a good and stable reception in time.





Measurement Examples TV 1/1/10

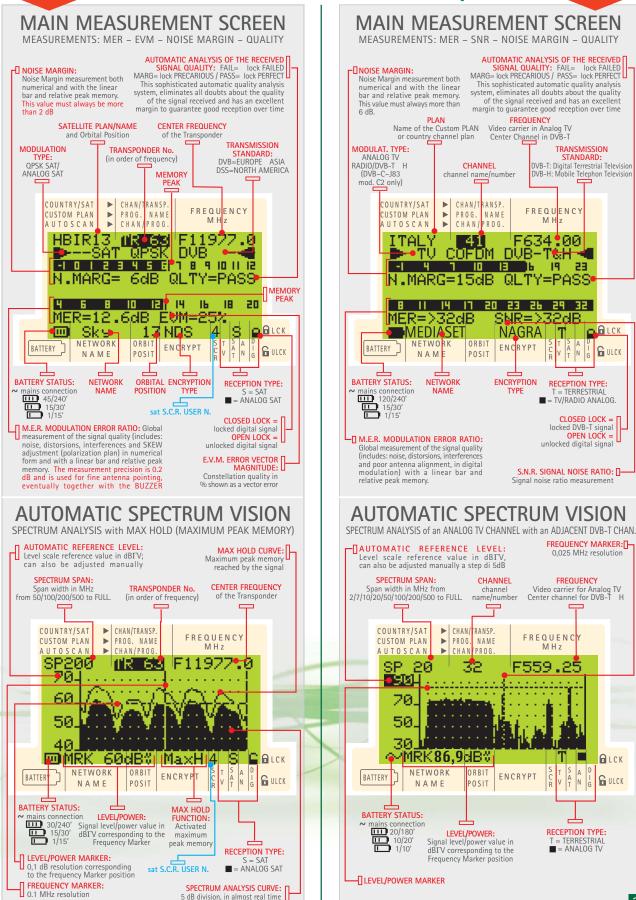


□ ∩ LCK

G B ULCK

∩ LCK

B ULCK





Measurement Examples





LEVEL/POWER & HOME MEASUREMENT

Level/power measurement in real time, represented numerically and by a linear bar with relative peak memory, resolution 0.1 dB. The HOME function allows you to go directly to this screen where all the reception settings are represented: satellite, transponder, frequency, modulation, standard, polarization, band, LNB 12/18V voltage, 22 KHz pulse, DISEQC a, b, c, d, LNB L.O., symbol rate, power, S.C.R. User, battery, etc.



BER MEASUREMENT

"bBER" to measure the BER value, before VITERBI error correction (Pre BER). "aBER" to measure the BER value, after VITERBI error correction (Post BER). Both measurements are represented numerically and by a linear bar and relative memory peak.



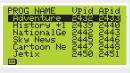
SPECTRUM ANALYSIS SPAN - 200 MHz

Spectrum (without "Max Hold" function), level/power 0.1 dB resolution, 5 dB/div. scale, refreshment speed almost in real time.



SPECTRUM ANALYSIS SPAN - 500 MHz

Spectrum (without "Max Hold" function), level/power 0.1 dB resolution, 5 dB/div. scale, refreshment speed almost in real time.



MPEG SERVICE and A/V PID LIST

Shows the names of the programs received and relative Audio and Video PIDs contained in the bouquet. Using the Scroll function it is possible to visualise up to 64 programs. The RADIO programs show only the Audio PID.



SAT POINTING with DUAL LNB

This special function allows you to point a satellite dish with two, or more LNB simultaneously (without having to change LNB or frequency). It also allows you to adjust the relative SKEW (polarization plan) with a total precision of 0.2 dB.



SATELLITE FINDER (1st screen)

This automatic function allows you to manually program up to 3 particular transponders on a specific satellite and, then, to find and identify the satellite required by simply moving he satellite dish in the direction of the satellite. Once the programmed satellite has been found it automatically goes to the 2nd screen for fine pointing (see below).



SATELLITE FINDER (2nd screen)

Once the programmed satellite has been found (see above) the instrument automatically goes to this screen for fine pointing and relative adjustment of the polarization plan (SKEW). In the lower part of the display you can also see the Network name and the orbital position of the satellite. The BUZZER, which inserts automatically, allows you to align the dish without looking at the display.



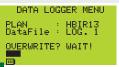
PLAN/SAT SELECTION MENU

The instrument allows you to select all the satellites and transponders worldwide (up to 99 satellites, 60000 transponders) and relative parameters, as shown in HOME (N.B. The meter is supplied pre-stored with all the most important satellites and their relative transponders)



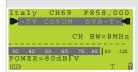
NETWORK IDENTIFICATION FUNCTION

This display allows you to see the network name, bouquet and data received, but also the FEC value (error correction Rate) used.



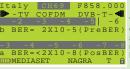
DATA LOGGER (measurement recording)

This function allows you to record all the measurements of the various transponders and then to download them and print them via the USB socket with the PC.



LEVEL/POWER & HOME MEASUREMENT

Level/power measurement in real time, represented numerically and by a linear bar with relative peak memory. The *IOM# function allows you to go directly to this screen where all the reception settings are represented: country canalization, channel, frequency, modulation, channel band width, power, battery, etc.



BER MEASUREMENT

"bBER" to measure the BER value, before VITERBI error correction (Pre BER). "aBER" to measure the BER value, after VITERBI error correction (Post BER). Both measurements are represented numerically and by a linear bar and relative memory peak.



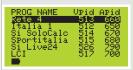
OAM FMIII ATED MEASUREMENT

This measurement, developped by ROVER, allows you to measure the digital signal quality using a series of analog measurements. The quality measurement is based on the C/N and FLATNESS and is similar to demodulated. The C2 model has a complete QAM demodulator, with constellation.



CONSTELLATION DIAGRAM and RELATED CHANNEL DATA and STATUS

Visualisation of the constellation and modulation parameters. It is possible to zoom and navigate in the channels. The following parameters are shown: plan, channel, zoom type, constellation, mode, no. of carriers, DVB—T or H, guard interval, hierarchy and priority, bouquet name, encryption system, etc.



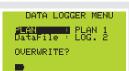
MPEG SERVICE and A/V PID LIST

Shows the names of the programs received and relative Audio and Video PIDs contained in the bouquet. Using the Scroll function it is possible to visualise up to 64 programs. The RADIO programs show only the Audio PID.



AUTO SEARCH and MEMORIZATION

This function automatically recognises both analog and digital TV channels and stores them in a plan. The scanning progress is shown during the search: the scanned channel, the channels found with digital modulation, the channels found with analog modulation. The AUTO plan automatically created can be easy used to carry out all the measurements.

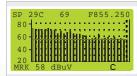


DATA LOGGER (measurement recording)

This function allows you to record all the measurements of the various channels and then to download them and print them via the USB socket with the







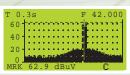
CHANNEL BARS SCAN UP TO 100 CHANS

BAR visualisation of the canalisation in a CATV network. It allows you to see the video carrier, audio carrier, power up to 100 channels to check, on one screen. The reference level is automatic and can also be adjusted manually. Selectable dB/div. Level marker, which navigates in the channels.



TILT MEASUREMENT

This function allows you to adjust the TILT in line extender amplifiers.BAR visualisation and measurement of the TILT with high speed refreshment. It allows you to see the carrier and the power of up to 9 specific preselected channels. The 2 level markers position automatically on the first and last channel and the difference in level is shown.



INGRESS SPECTRUM - MEASUR

Spectrum visualisation in the return band ("DOCSIS up stream") to measure disturbances (INGRESS). Selectable Start, Stop frequencies, level frequency marker can be positioned on all band. Max hold function can be activated. It allows you to check for disturbances including impulsive and ripetitive empairments



LEAKAGE MEASUREMENT

Electromagnetic field (leakage) irradiated from poor shielding in the CATV distribution network. Peak measurement in real time, with acoustic alarm threshold, possibility of selecting many types of antennas and different measurement distances.





S2 SCOUT S.C.R. READY

- Demodulated QPSK, SCPC and MCPC operation Interchangeable IN connector: "F" ("IEC" or "BNC" or "N" opt.)
- NET. ID. function (net name, orbital position, encryption svstem. date)
- MPEG Service/Program and Audio/Video PID list
- Up to 99 navigation memory plans:
 - SAT PLAN: pre-loaded, unchangeable satellite transponder PLAN (only modifiable using optional SMART PC SW)
- CUSTOM PLAN: Stored manually or through PC generated by the customer, including program name
- QPSK Real Average Power measurement: from 30 to 123 dBuV
- Measurements: aBER, bBER, MER, EVM, NOISE margin, average power
- Automatic quality analysis: PASS-FAIL-MARGINAL and Noise Margin measurements
- SAT FINDER: Simple to use and automatic highly efficient satellite identification function
- Easy "SAT point" spectrum function with buzzer and peak hold memory for fast and correct dish alignment
- Satellite fine alignment with Noise Margin measurement and relevant bar graph with peak memory for perfect dish pointing and SKEW adjust.
- Dual LNB dish alignment function
- Accurate spectrum analysis with max hold (peak) features, with variable SPAN: 50 MHz to full band with automatic and adjustable reference level
- USB PC interface for firmware up-grades through internet

SAT ANALOG and DIGITAL QPSK ANALYZER for EASY and PERFECT DISH ALIGNMENT and D.T.H. COMMUNITY SAT DISTRIBUTION SYSTEMS (930-2250 MHz) (30-123 dBTV) Level Accuracy 1 dB



- DIGITAL SAT QPSK
- **ANALOG SAT**
- DIGITAL and ANALOG SPECT
- **AUTO SAT FINDER**
- S.C.R. LNB
- DiSEqC MOTOR
- DiSEqC CONTROL A-B-C-D
- **NETWORK IDENTIFICATION**
- ✓ DATA LOGGER FUNCTION
- DUAL LNB POINTING
 A/V PID and MPEG PROGRAM LIST
- CUSTOM MEMORY PLAN
 ALL SATELLITES and TRANSPONDERS PREMEMORIZED ON BOARD
- LARGE BACK LIGHT DISPLAY
- HARD CARRY CASE SUPPLIED
- HIGH CAPACITY BATTERIES

T2 SCOUT DVB-H READY

- Demodulated COFDM, SFN and MFN operation
- Easy to use, in channel navigation, automatically selects the analog or digital TV modulation
- Interchangeable input connector: "F" ("IEC" or "BNC" or "N" optional)
- Network identification function (network name, bouquet and encryption system)
- Up to 99 navigation memory plans:
 - COUNTRY TV PLAN: pre-loaded, unchangeable TV canalization PLANS (only modifiable using optional
 - CUSTOM PLAN: Stored manually or PC generated by the customer, including program name
 - · AUTOSCAN: automatically recorded by the meter
- Modulation, Plan, Program Number, program name, Channel, Frequency selectable and storable from the keyboard or through PC
- AUTOSCAN auto-search and auto-memory function
- C/N, SNR, MER, BER, measurements
- Automatic Quality Analysis: FAIL- MARG-PASS and Noise Margin measurements
- Accurate spectrum analysis with max hold (peak) features, with variable SPAN: from 2 MHz to full band with automatic and adjustable reference level
- USB PC interface for firmware up-grades through internet

TV ANALOG and DIGITAL COFDM ANALYZER for INDIVIDUAL and COMMUNITY TV DISTRIBUTION SYSTEMS with FULLY AUTOMATIC A/D SELECTION in TV CHANNEL NAVIGATION (47-870 MHz) $(30-120 \text{ dB}\Gamma\text{V})$ Level Accuracy 1 dB



C2 SCOUT

- Demodulated QAM, annex A-B-C, 64-128-256, DOCSIS down stream
- Interchangeable input connector: "F" ("IEC" or "BNC" or "N" optional)
- Up to 99 Master and Custom programmable plans: stored manually in the meter or generated using the SMART PC software
- HELP function for frequency, constellation and symbol rate search
- AUTOSCAN to automatically create a custom plan and select the analog or digital TV modulation
- Power, C/N, SNR, MER, BER digital QAM measurements
- Level, A/V, CCN analog measurements
- BARS SCAN and TILT measurement with selectable bar, from 9 to 120 channels
- INGRESS spectrum 5-65 MHz
- LEAKAGE measurement fully programmable antenna, distance and threshold
- DATA LOGGER and AUTOTEST measurement recording function
- AC VOLTMETER triangular wave measurement
- Automatic Quality Analysis: FAIL- MARG-PASS and
- Noise Margin measurements Accurate spectrum analysis with max hold (peak) feature, with variable SPAN: from 2 MHz to full band with
- automatic and adjustable reference level Network identification function (network name, bouquet
- and encryption system and audio/video PID) BUZZER according to selected measurement
- USB PC interface for firmware up-grades through

CATV ANALOG & DIGITAL OAM ANALYZER for CABLE TV DISTRIBUTION SYSTEMS (5-870 MHz) (30-120 dBITV) Level Accuracy 1 dB



TV ANALOG & DIGITAL FULLY AUTOMATIC SELECTION (IN AUTOSCAN FUNCTION)

- ✓ DIGITAL TV QAM, DOCSIS D.S.
- ANALOG TV
- DIGITAL and ANALOG SPECT
- **NETWORK IDENTIFICATION**
- **AUTO SCAN MEMORY**
- ✓ BARSCAN and TILT
- ✓ INGRESS and LEAKAGE
- ✓ DATA LOGGER
- ✓ CUSTOM MEMORY PLAN
- ✓ A/V PID and MPEG PROGRAM LIST
- ✓ LARGE BACK LIGHT DISPLAY
- ✓ HARD CARRY CASE SUPPLIED
- ✓ HIGH CAPACITY BATTERIES

ST2 SCOUT DVB-H and S.C.R.

- Demodulated QPSK, SCPC and MCPC operation
- Demodulated COFDM, SFN and MFN operation
- MPEG Service/Program and A/V PID list
- Easy to use, in channel navigation, automatically selects the analog or digital TV modulation
- Up to 99 navigation memory plans:
 - COUNTRY TV PLAN: pre-loaded, unchangeable TV Canalization PLANS (only modifiable using optional SMART PC SW)
 - SAT PLAN: pre-loaded, unchangeable satellite transponder PLAN (only modifiable using optional SMART PC SW)
 - CUSTOM PLAN: Stored manually or through PC generated by the customer (including program name)
- Real Digital Average Power measurement: from 5-30 to 123 dBuV
- Measurements: aBER, bBER, MER, SNR, EVM, NOISE margin, average power
- SAT FINDER: Simple to use and automatic highly efficient satellite identification function
- Easy "SAT point" spectrum function with peak hold memory for fast and correct dish alignment
- Satellite fine alignment with Noise Margin measurement and relevant bar graph with peak memory for perfect pointing and SKEW adjust.
- Dual LNB dish alignment function
- TV AUTOSCAN: Auto-search and auto-memory function
- Accurate spectrum analysis with max hold (peak) features, with variable SPAN: from 2 MHz to full band with automatic and adjustable, reference level
- Modulation, Plan, Program No., Prog. name, Channel, Frequency, selectable and storable from the keyboard or
- Network identification function (network name, orbital position, bouquet, encryption system and date)
- Automatic Quality Analysis: FAIL- MARG-PASS and Noise Margin measurements
- Interchangeable input connector: "F" ("IEC" or "BNC" or "N" opt.)
- USB PC interface for firmware up-grades through internet

COMBINED SAT & TV ANALOG & DIGITAL QPSK & COFDM ANALYZER for D.T.H. COMMUNITY SMATV DISTRIBUTION SYSTEMS EASY and PERFECT DISH ALIGNMENT, FULLY AUTOMATIC ANALOG/DIGITAL TV SELECTION also in TV CH NAVIGATION (47-2250 MHz) (30-126 dBΓV) Level Accuracy 1 dB



SAT

- DIGITAL SAT QPSK
- ANALOG SAT
- S.C.R. LNB
- DiSEqC MOTOR
- DiSEaC CONTROL A-B-C-D
- AUTO SAT FINDER
- **DUAL LNB POINTING**
- **ALL SATELLITES & TRANSPONDERS** PREMEMORIZED ON BOARD

- DIGITAL TV COFDM
- ANALOG TV

BOTH

- ✓ CUSTOM MEMORY PLAN
- DIGITAL and ANALOG SPECT
- **NETWORK IDENTIFICATION**
- DATA LOGGER FUNCTION
- **AUTO SCAN MEMORY**
- ✓ MPEG PROGRAM LIST
- ✓ AUDIO/VIDEO PID LIST
- ✓ LARGE BACK LIGHT DISPLAY
- ✓ HARD CARRY CASE SUPPLIED
- ✓ HIGH CAPACITY BATTERIES



- Demodulated QPSK, SCPC and MCPC operation
- Demodulated COFDM, SFN and MFN operation
- MPEG picture decoder
- Easy to use in channel navigation, automatically selects the analog or digital TV modulation
- Up to 99 navigation memory plans:
 - COUNTRY TV PLAN: pre-loaded, unchangeable TV canalization PLANS (only modifiable using optional SMART PC SW)
 - SAT PLAN: pre-loaded, unchangeable satellite transponder PLAN (only modifiable using optional SMART PC SW)
 - CUSTOM PLAN: Stored manually or through PC generated by the customer, including program name
- Real Digital Average Power measurement: from 5-30 to 126 dBuV
- Measurements: aBER, bBER, MER, SNR, EVM, NOISE margin, average power
- SAT FINDER: Simple to use and automatic highly efficient satellite identification function
- Easy "SAT point" spectrum function with peak hold memory for fast and correct dish alignment
- Satellite fine alignment with Noise Margin measurement and relevant bar graph with peak memory for perfect pointing and SKEW adjust.
- Dual LNB dish alignment function
- TV AUTOSCAN: Auto-search and auto-memory function
- Accurate spectrum analysis with max hold (peak) features, with variable SPAN: from 2 MHz to full band with automatic and adjustable reference level
- Modulation, Plan, Program No., Program name, Channel, Frequency selectable and storable from the keyboard or through PC
- Fully programmable CUSTOM PLAN, manual or through PC (optional SMART PC SW)
- Network identification function (network name, orbital position, bouquet, encryption system and date)
- Automatic Quality Analysis: FAIL- MARG-PASS and Noise Margin measurements
- Dual LNB dish alignment function
- Interchangeable input connector: "F" ("IEC" or "BNC" or
- USB PC interface for firmware up-grades through internet

COMBINED SAT and TV ANALOG and DIGITAL QPSK and COFDM ANALYZER for D.T.H. COMMUNITY SMATV DISTRIBUTION SYSTEMS. (47-2250 MHz) (20-126 dBΓV) Level Accuracy 1 dB





SAT

- ✓ DIGITAL SAT QPSK
- ANALOG SAT
- S.C.R. LNB
- DiSEqC MOTOR
- DiSEqC CONTROL A-B-C-D
- **AUTO SAT FINDER**
- ✓ DUAL LNB POINTING
- ALL SATELLITES TRANSPONDERS PREMEMORIZED ON BOARD

- ✔ DIGITAL TV COFDM
- ANALOG TV

BOTH

- **CUSTOM MEMORY PLAN**
- DIGITAL ANALOG SPECTRUM NETWORK IDENTIFICATION
- DATA LOGGER FUNCTION
- **AUTO SCAN MEMORY**
- MPEG PROGRAM LIST
- AUDIO/VIDEO PID LIST
- LARGE BACK LIGHT DISPLAY
- HARD CARRY CASE SUPPLIED
- HIGH CAPACITY BATTERIES

Main Technical Specifications

80 x 225 x 215 80 x 225 x 215 80 x 225 x 215 SIZE (mm) 80 x 225 x 215 115 x 225 x 215 110 x 280 x 370 | 110 x 280 x 370 | 135 x 330 x 380 WEIGHT (kg) : \equiv 2 7 2 ABS Shock-Proof Hard Case FABRIC BAG and FABRIC BAG and FABRIC BAG and LIGHT-SHIELD LIGHT-SHIELD LIGHT-SHIELD 4 h 4 h 4 h **Battery Duration** 4 հ 4 h MAIN SPECIFICATIONS 7 (hours) 64 x 128 Graphics Display TV Picture Display TFT Solor 4.5" CRT B/W 5.5" TH color 4.5" CRT B/W 99 99 66 99 99 66 99 99 MEMORY PROGS for PLAN 99 99 99 99 99 199 99 99 PLANS 99 99 99 99 99 66 99 99 Chan / Freq / Prog (Meas / Spectrum) Chan / Freq / Prog Tuning Navigation Tran / Freq / Prog Chan / Freq / Prog (Meas / Spectrum) (Meas / Spectrum) (Meas / Spectrum) TV Sound 1.5 typ. SAT Accuracy (dB) 1.5 typ. 1.0 typ. 1.0 typ. 1.0 typ TV MEAS Dynamic Range (dBuV) 30-126 SAT 30-123 SAT 5-123 TV 30-126 SAT 5-126 TV 30-126 SAT 30-126 SAT 30-123 5-120 5-120 5-126 TV 5-126 TV 5-126 TV **USB Software** RS 232 RS 232 RS 232 NETWORK DATA & Service Progs only only **FUNCTIONS** TV PROGRAM • AUTO SCAN S.C.R. DRIVER MOTOR DISH DRIVER **DUAL LNB POINT** SPECIAL SAT FINDER DiSEqC **BARSCAN & TILT** INGRESS and LEAKAGE PICTURES DIGITAL MPEG2 Network Iden, PID SERVICES Network Iden, PID SERVICES Network Iden, PID SERVICES Network Iden, PID SERVICES **●** ≥ • ¥ SAT ← S **●** ≥ • ¥ DECODER ≥ ½ • ≥ \ • 🚽 ● 뒾 **ANALOG** SPECTRUM **ANALYSIS** MEASUREMENTS DIGITAL QUALITY ANALYSIS CONSTELLATION 8VSB opt. opt. DEMODULATED B.E.R./M.E.R./ NOISE MARGIN QAM • mul • mal opt. opt. COFDM **DPSK** 930 2150 MHz ₹ -74 870 MHz CATV 5-870 MHz DM12 DIGIMAX ST4 DISCOVERY SCOUT MODEL SCOUT SCOUT SCOUT THE FUNCTIONS, SPECIFICATIONS and ACCESSORIES MAY BE CHANGED WITHOUT NOTICE

