

S 22

DVB-S

QPSK Demodulation

NIT

► S 22

► S 22 Plus (NIT+ASL)



- Wide dot matrix 128x64 graphic display
- NIT (Network Identification Table)
- Quasi-Real Time spectrum display
- Real BER measurement in DVB-S
- Automatic SAT detection by means of the “ASL” function
- Advanced Data Logger
- Ni-MH Battery - RS-232 port - Antishock rubber holster

Full SAT frequency range coverage. Dynamic range: 25-120dB μ V.

Features: DCP, level.

Measurements: BER, RU, MER and CFO in QPSK. LNB 13-18V power supply and control up to 350mA
DiSEqC 1.1 and 1.2 (motorized dishes).

**S 22**

Specs subject to change without notice

SPECIFICATIONS**UNAOHM****INPUT**

- Level**
40 to 120 dB μ V from 920 to 2150 MHz: Analogue SAT, 1 MHz BW
44 to 124 dB μ V from 920 to 2150 MHz: 30 MHz BW digital signal
Aural tone proportional to signal level
- Unit of Measure**
dB μ V - dBmV - dBm
- Attenuator**
0 to 50 dB in 10 dB steps. Manually or autoranging
- Attenuator Accuracy**
 ± 2 dB
- Frequency Response Accuracy**
 ± 2 dB throughout the entire frequency range
- Measurement Bandwidth (RBW)**
5 Mhz
- Input Impedance**
75 Ohm unbalanced. (1)
- Input Connector**
Female "F" connector with a protective L-shaped adapter
- Maximum Applicable Voltage**
 ± 100 V DC and 5 Vpp RF
- LCD Indication**
-Numeric for level, four digit, 0.1 dB resolution
-Numeric for DCP, four digit, 0.1 dB resolution
-Analogue by means of a bargraph
-Analogue by means of a histogram

FREQUENCY

- Frequency range**
920 to 2150 MHz
- Tuning Selection**
-By frequency. Continuous PLL frequency synthesis in 125 kHz steps
-By program. Recall of any program out of those stored, up to 100 programs
- Frequency Reading**
Frequency reading is rounded off to the nearest 100 kHz in the 1st IF mode, to the nearest MHz in L.O. Mode

SPECTRUM

- Functions**
-Spectrum (full and expanded). 200, 100, 50, 20, 10 MHz expansion steps from 920 to 2150 MHz
-Histogram mode. Up to 28 user-defined-Program
-Hold max, Hold min, Freeze
- Marker**
-Two independent markers for frequency and level reading; reading of differences between markers on LCD readout

DATA LOGGER

- Approximately 1500 single program data-captures (acquisitions)

QPSK DISPLAY

- Parameter Setting**
-Symbol Rate: 1.45 to 36 MS/s
-Code Rate: Automatic
-Spectrum Polarity: Automatic
- Locking Indication**
"LOCKED", "UNLOCKED" indication on LCD readout
- CH BER Measurement**
0 to 1.2×10^{-7} Resolution
- CH BER Display**
-Numeric : in exponential notation
-Analog : via a bargraph (the longer the bar the better the BER)
- post Viterbi BER Measurement**
0 to 5×10^{-2} , 2×10^{-8} resolution. Numeric reading
- MER**
5 to 20 dB. Numeric reading
- RU count**
Counting of uncorrected errors past the Reed Solomon algorithm, up to 65535 max Count
- Power index**
LOW, OK, HIGH for low, correct, high level
- CFO**
Shows the offset from nominal centre frequency in MHz

AUXILIARY INPUTS & OUTPUTS

- Power to LNB**
-0; 13; 18 V ± 0.5 V. Selectable. 350 mA max current
-Overload warning indication and continuity of external circuit provided
- 22 kHz Tone**
22 kHz ± 1 kHz / 0.6 Vpp tone. Square wave
- DiSEqC Command**
DiSEqC 1.1 and 1.2 (for steerable dishes) protocols

NIT CARD (S22 option, Standard on Plus)

- Standard**
DVB compatible

ASL - Automatic Satellite Locator (Standard on Plus)

- Pass/No-pass function for fast satellite detection

LCD READOUT

- Type**
Dot matrix graphic LCD; 128 x 64; LCD retroilluminated. 71 x 39 mm(W x H)

OUTPUT

- Source of Power**
For remote control. Sourced from the RF IN connector: 0, 13, 24 V ± 0.5 V / 350 mA max; switchable. Overload and continuity indication of the external circuitry
- RS 232**
Female, 9 pole, "D" connector for data exchange with an external PC or printer

POWER SUPPLY

- Internal Vdc Power**
6 V / 3.8Ah Ni-MH rechargeable battery pack. 1½ hours continuous operational run (when current draw to LNB is 100 mA max.)
- External Vdc Power**
-7.5 to 8 V / 3 A max for operation and battery charge
-5.5 to 8 V / 3 A for operation only
- Mains**
100 to 240V AC through an external power supply/charger unit, provided
- Battery Charger**
Through external power supply/charger unit, provided. 8 hours charging time

MECHANICAL

- Dimensions and Weight**
200x105x45 (7.8"x4.1"x1.7") 0.9 kg with battery pack and holster included
- Finishing**
The unit comes with a sturdy antishock protective rubber holster

AMBIENT

- Operating Temperature**
5 °C to +40 °C
- Relative Humidity**
80 % for a temperature up to 31 °C (linear derating to 50 % @ 40 °C)
- Storing Temperature**
-10 °C to +60 °C

STANDARD ACCESSORIES

- L-shaped F/F input adapter
- Rubber holster
- Neck and transport strap
- Instruction Manual
- Power Supply/Charger Unit BCH 7.5/3.3
- 6 V / 3.8 Ah Ni-MH battery pack

OPTIONS

- NIT card (no for Plus version)
- Spare waistband-held battery pack BP6
- Nylon bag for transport C20
- STP 165 external printer

SPECIAL FEATURES

- (1) 50 Ohm input impedance