UNAOHM START S.p.A.

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RB23 Specs subject to change without notice

RB23

BER Estimation for DVB-T/S/C

Real Time Spectrum

ith an overall 320 x 115 x 250 mm size (W x H x D) for this brand new analyser, the measuring world of UNAOHM is getting smaller, and lighter too, the unit weighing approximately 5 kg with a lead-acid battery fitted. So much for the shrinkage.

As to performance, we have taken

the opposite path expanding it to include easy access to the battery compartment.

As to pricing, this unit is bound to redefine the concept of price-toquality ratio the market has come to expect of digital, entry-level analysers. A true price-to-quality breakthrough. Have a look at the following features to start feeling what the unit can do for you:

- Analogue & digital Satellite, Terrestrial & Cable frequency range coverage.
- 5-65 MHz Return Path coverage, optional*.
- Estimated BER reading for digital Terrestrial, Satellite and Cable signals.
- Effective digital package for digital Terrestrial, Satellite and Cable signals consisting of: DCP (Digital Channel Power) measurement, C/N ratio, BER estimation.
- L.O., Local Oscillator feature.
- 100 program storage capabilities.
- Scart socket, optional*.
- RS232 port.
- DiSEqC 1.1.
- 12 V/3.3 Ah lead-acid battery.
- Sturdy bag with safety straps.
- Optional Ni-MH battery for over $\frac{1}{2}$ kg saving in weight.



Local UNAOHM Dealer

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SPECIFICATIONS

Demodulator

AUDIO

Level

-VHF/UHF/SAT from 20 to 130 dBµV (-90...20dBm)

of Measure dB for ratios, dBuV, dBmV, dBm on 75 Ù, V for power and level measurements.

INPUT

0 to 80 dB in 10 dB steps. Manual or autoranging.

± 1.0 dB VHF/UHF. ± 1.5 dB SAT.

urement Technique Switchable between peak and average. Reading to rms value for a CW sine carrier. urement Bandwidth (@-3 dB Measure and Spectrum) 100 kHz or 1 MHz, switchable. VHF/UHF/SAT

edance

75 ohm, unbalanced. See (1) under special features. Vdc component block.

nput Connection

BNC. **num Applicable Voltage** ±100 Vdc. 5Vrms RF.

ation

- -Numeric via OSD, 0.1 dB resolution. -Analogue for level and DCP by means of a bargraph against a 30 dB calibrated scale.
- Aural Indication

-Aural tone with pitch proportional to signal strength.

FREQUENCY

- Frequency Range -45 to 900 MHz for VHF/UHF. -900 to 2150 MHz for satellite band

text text for the second secon

Tuning Selection Frequency. Continuous PLL frequency synthesis shaft encoder or direct frequency keying via keypad (50 kHz step resolution for terrestrial bands, 125 kHz steps for satellite. -Channel. VHF/UHF/CATV channel recall to TV-standard of the country selected. -Program. Recall of any program out of those stored, up to 100. Capacity 100 program. Storage C

SPECTRUM ANALYSER

Level

-VHF/UHF/SAT from 20 to 130 dBµV (-90...20dBm).

tation Frequency on Y (vertical) axis, level on X (horizontal) axis. Real time.

ency Range

 wange
 5 to
 65 MHz.

 C
 5 to
 65 MHz.

 45 to
 2150 MHz in the following bands:

 L
 45 to
 156 MHz.

 M
 156 to
 454 to
 900 MHz.

 H
 454 to
 900 MHz.
 900 MHz.
 SAT 900 to 2150 MHz. analysis trun

-Full panoramic spectrum of the band selected (L, M, H, SAT). -8 step expansion of a portion of the band spectrum from 1% minimum to 1 to 5 carriers according to band selected. RBW: N (Narrow) & W (Wide). iltro Video

Switchable video filter

Frequency Marker

Selectable throughout the entire frequency range, for frequency or level reading.

BER ESTIMATION

BER is estimated from C/N in strict correlation to response curves of DVB publications, for signals within the satellite, terrestrial and CATV ranges

MONITOR

41/2 " black & white CRT with brightness and contrast controls TV-Standard

PAL BG. See (2) under special features. unction

-OSD against a black background, transparent, disengaged

-USD against a black background, transparent, disengaged. Measurement: DCP (Digital Channel Power), level, C/N, V/A. -TV-picture, full screen, for analogue signals. -Display of a portion of an analogue TV-picture+level as a relative bargraph. -Display of a portion of an analogue TV-picture + horizontal TV sync-pulse. -Full spectrum with marker. -Expanded (SPAN) spectrum with marker.

-Teletext.

-Video monitor (via optional SCART socket).

-AM/FM for VHF/UHF/CATV.

-FM for SAT Subcarrier Frequency

-Automatically selected in VHF/UHF/CATV bands to the TV-standard set. -Adjustable from 5 to 9.99 MHz in 10 kHz PLL tuning steps for SAT. Selectable deemphasis (Flat, J17, 50) s. 75) s).

AUXILIARY INPUTS & OUTPUTS

DiSEqC* 1.1 protocol

22 kHz Tone

0.6 Vpp on 18 **Ù**, 22 kHz ± 1kHz, square wave. Power to LNB

13 or 18 V / 500 mA max sourced out from input connector. Self-protected.

SCART Socket (optional)*

Video/audio input (1 V-75 Ù); video/audio output (0.3 V-600 Ù).

POWER SUPPLY

Internal Vdc Power 12 V / 3.3 Ah sealed, rechargeable lead-acid battery (provided), or an optional 12 V / 3.8 Ah sealed, rechargeable Ni-MH battery pack. 1.5 hrs continuous run, typical. External Vdc Power

External Power Supply/Charger-Adapter unit provided. Battery Charger

External Power Supply/Charger-Adapter unit provided. Charging time:10 to 14 hrs.

Pilot Light Warning An LED for charging, OSD for battery low warning.

MECHANICAL

Dimension (W x H x D) 320x105x250 mm.

Weiaht

- 4.1 kg with carrying case. 5.6 kg with carrying case and lead-acid battery fitted. Finishing
 - The unit comes with a robust nylon carrying case with an accessories compartment and a straps for transport.

AMBIENT

Operating Temperature 5°C to 40°C.

SPECIAL FEATURES

(1) 50 ohm input impedance. (2) Other TV-standards upon request (PAL-I, PAL-DK, PAL-N, SECAM-L).

STANDARD ACCESSORIES

BCH16/2.5

P80A

P82

C25

Pb12 V/3.3 Ah

P79 - P81 Ni-MH 12 V/3.8 Ah

- Power Supply/Charger-Adapter unit
- Lead-acid battery
 BNC/IEC Adapter

BNC/F Adapter
 Nylon carrying case

Instruction manual

OPTIONS

- 5-65 MHz (30 to 130 dBµV) converter module
- BNC/DIN Adapter
 High capacity 12 V/3.8 Ah Ni-MH battery pack kit
- SCART socket**

