COMBOLOOK

The combination of SATLOOK Digital-NIT and TVLOOK



COMBOLOOK:

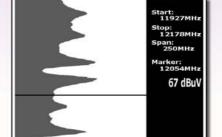
- ► Input frequency: 2-900MHz and 920-2150MHz
- ▶ 4.5" B/W monitor for PAL/NTSC/SECAM
- Lots of memory positions for spectrum pictures
- RS232 for PC-connection
- Built in, rechargeable battery
- ► Only 7kg complete with carrying case

TV-part:

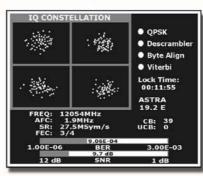
- 2-900MHz spectrum analyzer
- Presents full range spectrum (and expanded)
- ➤ Very high accuracy, ±1dB (at 20° C)

SAT-part:

- ► 920-2150MHz spectrum analyzer
- ▶ Digital BER, QPSK and S/N-ratio
- ► Satellite-ID and TV/Radio-channel info (NIT)
- ► Tuneable audio bandwidth 5.5-8.5MHz
- ► LNB voltage 13/18V, 22KHz tone switch
- ► DiSEqC according to level 1.0, 1.1, 1.2
- KU- and C-band (normal/inverted video)



Expanded spectrum



Digital and NIT information



Full spectrum (TV/SAT)

COMBOLOOK

There are today a lot of different and interesting TV-signals. With the COMBOLOOK-instrument it's easy to work with them all!

The COMBOLOOK is a swedish made SAT-TV/CATV instrument and spectrum-analyzer. The unit is made for exact alignment and adjustment of satellite-dishes, aerial antennas. It is also an exellent tool for working with Cable-TV networks. It is intended for professional use when high accuracy and precise information are needed.

It's easily operated without a lot of unnecessary buttons and knobs. The basic functions are easy to get a hold on and takes only minutes to learn.

The instrument is provided with a 4.5" B/W-monitor which either shows normal TV-channel, the frequency spectrum 2-2150 MHz (or parts thereof) alt. Digital data. Menus/help-displays are shown on the LCD-screen (64x128) beside the monitor.

Both analog SAT-TV and CATV channels can be tuned in and viewed upon.

The COMBOLOOK is able to work with the return-path signals in Cable-TV networks (5-65 MHz). according to the EN50083 standard. The TV-part presents the full range spectrum of 2-900 MHz which can be zoomed into smaller parts (min 13 MHz-span). The TV-part is very sensitive and accurate. It presents signals ± 1 dB (at $\pm 20^{\circ}$ C).

The SAT-part also has very high resolution and accuracy. It presents measured data ± 2 dB (at 20° C). The Sat-TV spectrum can be expanded (zoom in) for correct adjustment of the polarisation ("cross-polarisation").

The SAT- part presents, under one of the sub menus, digital information like BER (bit error rate), constellation-diagram (QPSK) and S/N (signal/noise ratio).

The NIT function of the SAT-part can identify the various TV-satellites by reading out the NIT in the Bitstream (NIT = Network Information Table). The NIT also contains info about the transponders TV and Radio-channels.

COMBOLOOK can handle a lot of memory-positions and both spectrum-pictures and certain frequencies can be saved (both analog and digital transponders). The power of the instrument is supplied by a built in and rechargeable battery.

Technical specification.

Input frequency: 5-900 Mhz and 920-2150MHz.

Sat-TV min level in: About 35 dBuV (noise).

Sat-TV max level in: About 90 dBuV.

CATV max input level, picture: 110 dByV.

Spectrum: 120 dByV.

Sat-TV attenuation: 15 dB attenuator on/off. **CATV attenuation:** 45 dB in 1 dB step.

Display of signallevel (analog): dB on LCD/monitor. Pitch-tone.

 $\begin{array}{ll} \textbf{Sat-TV accuracy:} & \pm 2 \text{ dB (at } + 20^{\circ} \text{ C)} \\ \textbf{CATV accuracy:} & \pm 1 \text{ dB (at } + 20^{\circ} \text{ C)} \\ \end{array}$

CATV resolution bandwidth: 1 MHz or 300 kHz.
CATV video bandwidth: 100, 10 ,1 kHz or 100Hz

Sat-TV Digital display of signallevel: S/N (signal/noise-ratio)

BER (bit error rate) Constellation (QPSK)

Satellite-indentification: Yes, by reading out the NIT in the

Bitstream. Info about the TV and

Radio channels

TV standard: Multi TV/ (PAL, NTSC, SECAM).

CATV text-TV (CEEFAX): Yes

KU- C-band: Yes, selectable.
Input impedance: 75 Ohm, BNC-con.
Picture-screen: 4.5"-monitor, B/W
Menus: 0n LCD 64x128.

Memory: Lots of spectrum pictures can be

stored with name.

Stored spectrum can be mixed for easy identification of satellite.
-"Maxhold"-function.

Favouritechannels: Both analog and digital frequencies

can be stored (with name).

PC-connection: RS232-output and PC-software.

 Sat-TV power out:
 Yes, 13-18V.

 CATV power out:
 On/off. 15-24 volt.

DiSEqC

Sat-TV control: 22 kHz, DiSEqC, DiSEqC/SatScan/

SatSelect-positioner. Yes, all 1.0 and 1.1. Also Toneburst on/off.

DISEQC actuator:Built in positioner for DISEQC 1.2,
SatScan and SatSelect

SatScan and SatSelect.

Battery: Rechargable 12v, 7 amp/hour.

Weight: About 7 kg incl.battery.

Accessories: Nylon carrying-case.

Power-supply of 220v/13.5v, 1.7amp. Car-charger, BNC/F-adapters.

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