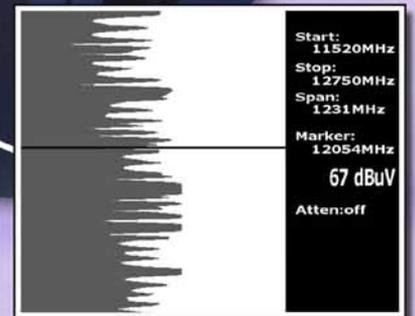
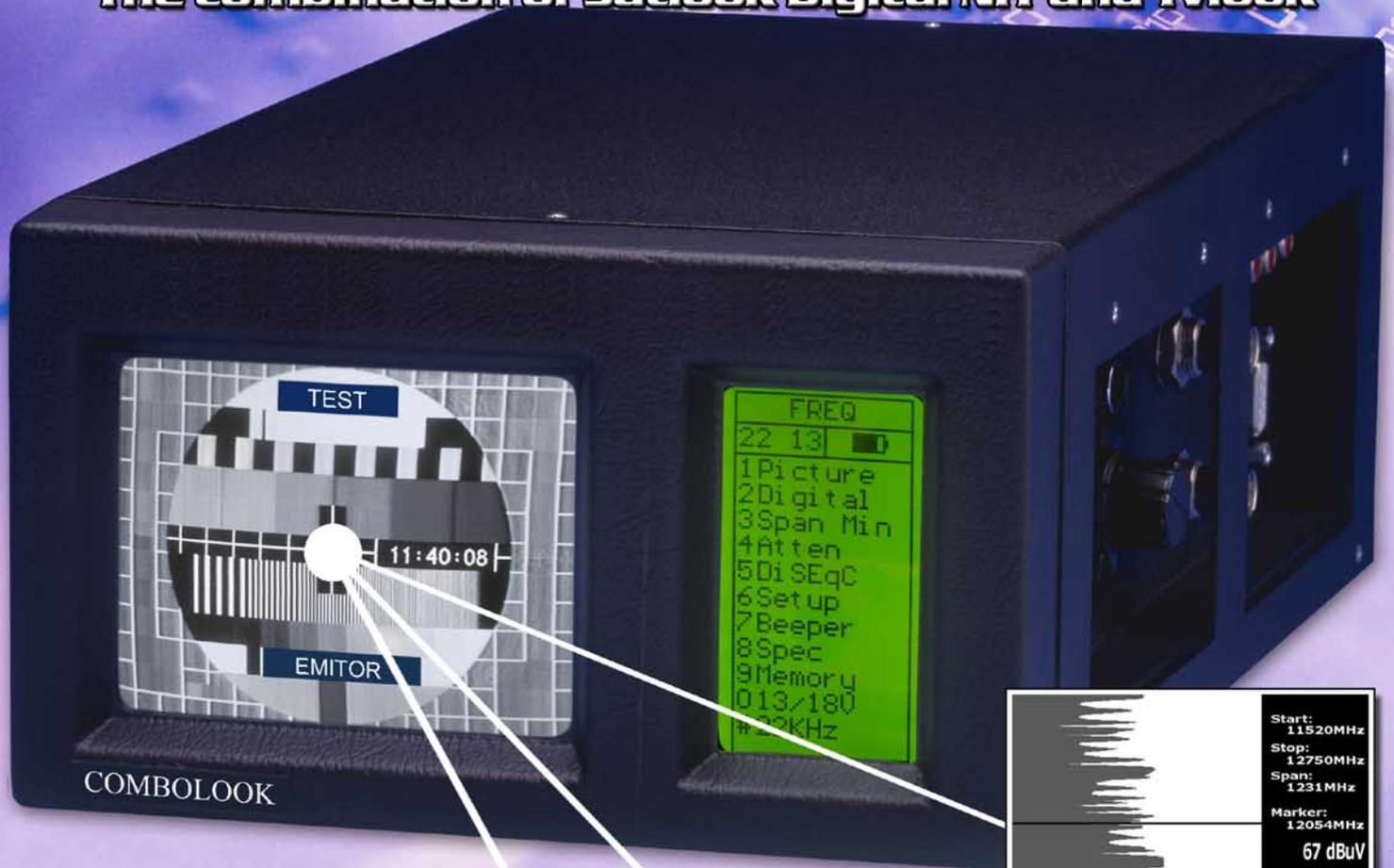
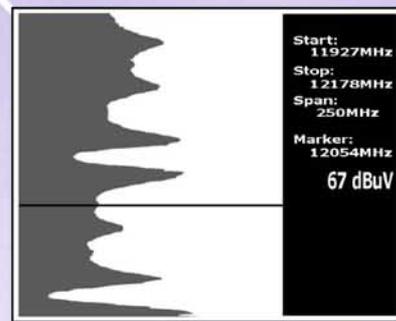


COMBOLOOK

The combination of Satlook Digital NIT and Tvlook



Full spectrum (TV/SAT)



Expanded spectrum



Digital and NIT information

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, ± 1 dB (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)



emitor

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 excellent 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 $+20^{\circ}$ 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 dBuV.
Spectrum:	120 dBuV.
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.
Sat-TV accuracy:	± 2 dB (at $+20^{\circ}$ C)
CATV accuracy:	± 1 dB (at $+20^{\circ}$ C)
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:	On 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.
Sat-TV control:	22 kHz, DiSeqC, DiSeqC/SatScan/ SatSelect-positioner.
DiSeqC	Yes, all 1.0 and 1.1. Also Toneburst on/off.
DiSeqC actuator:	Built in positioner for DiSeqC 1.2, SatScan and SatSelect.
Battery:	Rechargeable 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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