

# Combolook

## COLOR HD



### FEATURES

- Spectrum-analyzer 2-900MHz and 950-2150MHz.
- Presents full range and expanded spectrum.
- Very high accuracy, CATV +/-1dB, SAT-TV +/- 1.5dB at 20°C.
- Super bright 5" 16:9 TFT-LCD color display.
- DVB/S S/2 -receiver 920-2150MHz.
- DVB/T-receiver.
- Automatic Satellite identification.
- Readout of NIT - gives SAT ID and TV/Radio-channel info.
- Digital BER and S/N-ratio (DVB-S, S/2 and DVB-T).
- QPSK and 8PSK constellation diagram.
- DVB-S (Free to Air) and SAT-analog TV-picture.
- Aerial power output, 0, 6, 12, 18 and 24V.
- LNB voltage 13/18V, 22KHz tone switch.
- DiSEqC according to level 1.0, 1.1 and 1.2.
- Lots of memory positions for spectrum pictures.
- RS232 for PC-connection (up/download).
- Rechargeable Li-Ion battery.
- Nice & small, only 4Kg complete with carrying case.

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## COLOR HD

### The COMBOLOOK HD COLOR is a swedish made Digital-TV instrument and spectrum-analyzer.

The unit is made for exact alignment and adjustment of satellite-dishes and 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 COMBOLOOK HD COLOR 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  $\pm 1$  dB (at +20° C).

There is a built in DVB-T receiver showing picture and BER + S/N-values.

The SAT-part also has very high resolution and accuracy. It presents measured data  $\pm 1\frac{1}{2}$  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 8PSK) 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. The unit has a built in DVB-receiver which can store up to 100 Free To Air channels in a favourite channel-list.

COMBOLOOK HD COLOR 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.

The instrument is provided with a 5" color 16:9 LCD-monitor.

Menus/help-displays are shown on the LCDscreen (64x128) beside the monitor.

### Technical specification

<b>Input frequency:</b>	5-900 Mhz and 920-2150MHz.
<b>Sat-TV min level in:</b>	About 35 dBuV (noise).
<b>Sat-TV max level in:</b>	About 90 dBuV.
<b>TV-part max input level, picture:</b>	110 dBuV.
<b>Spectrum:</b>	120 dBuV.
<b>Sat-TV attenuation:</b>	15 dB attenuator on/off.
<b>TV-part: attenuation:</b>	45 dB in 1 dB step.
<b>Display of signallevel (analog):</b>	dB on LCD/monitor. Pitch-tone.
<b>Sat-TV accuracy:</b>	$\pm 1\frac{1}{2}$ dB (at +20° C).
<b>TV-part accuracy:</b>	$\pm 1$ dB (at +20° C).
<b>TV-part resolution bandwidth:</b>	1 MHz or 300 kHz.
<b>TV-part video bandwidth:</b>	100, 10, 1 kHz or 100Hz.
<b>DVB-S S/2 Digital display of signallevel:</b>	S/N (signal/noise-ratio) BER (bit error rate) Constellation (QPSK and 8PSK).
<b>Satellite-indentification:</b>	Yes, by reading out the NIT in the bitstream. Info about the TV- and Radio- channels.
<b>TV standard:</b>	Multi TV/ (PAL, NTSC, SECAM).
<b>TV text-TV (CEEFAX):</b>	Yes.
<b>KU- C-band:</b>	Yes, selectable.
<b>Input impedance:</b>	75 Ohm, F-con.
<b>Picture-screen:</b>	5" 16:9 TFT-LCD monitor
<b>Menus:</b>	On LCD 64x128.
<b>Memory:</b>	- Lots of spectrum pictures can be stored with name. Stored spectrum can be mixed for easy identification of satellite. -"Maxhold"-function.
<b>Favouritechannels:</b>	Both analog and digital frequencies can be stored (with name). 100 DVB-S Free to Air channels can be stored in a favourite channel-list DVB-T channels can be stored and viewed upon.
<b>PC-connection:</b>	RS232-output and PC-software.
<b>Sat-TV power out:</b>	Yes, 13-18V.
<b>TV power out:</b>	On/off. 5 volt and 15-24 volt.
<b>Sat-TV control:</b>	22 kHz, DiSEqC SatCr (UniCable).
<b>DiSEqC</b>	Yes, all 1.0 and 1.1. 1.2.
<b>DiSEqC actuator:</b>	Built in positioner for DiSEqC 1.2, Toneburst on/off.
<b>Battery:</b>	Rechargeable 12v, 3.5 amp/hour.
<b>Weight:</b>	About 4 kg incl.battery.
<b>Accessories:</b>	Nylon carrying-case. Power-supply of 220v/13.5v, 1.7amp. Car-charger.



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