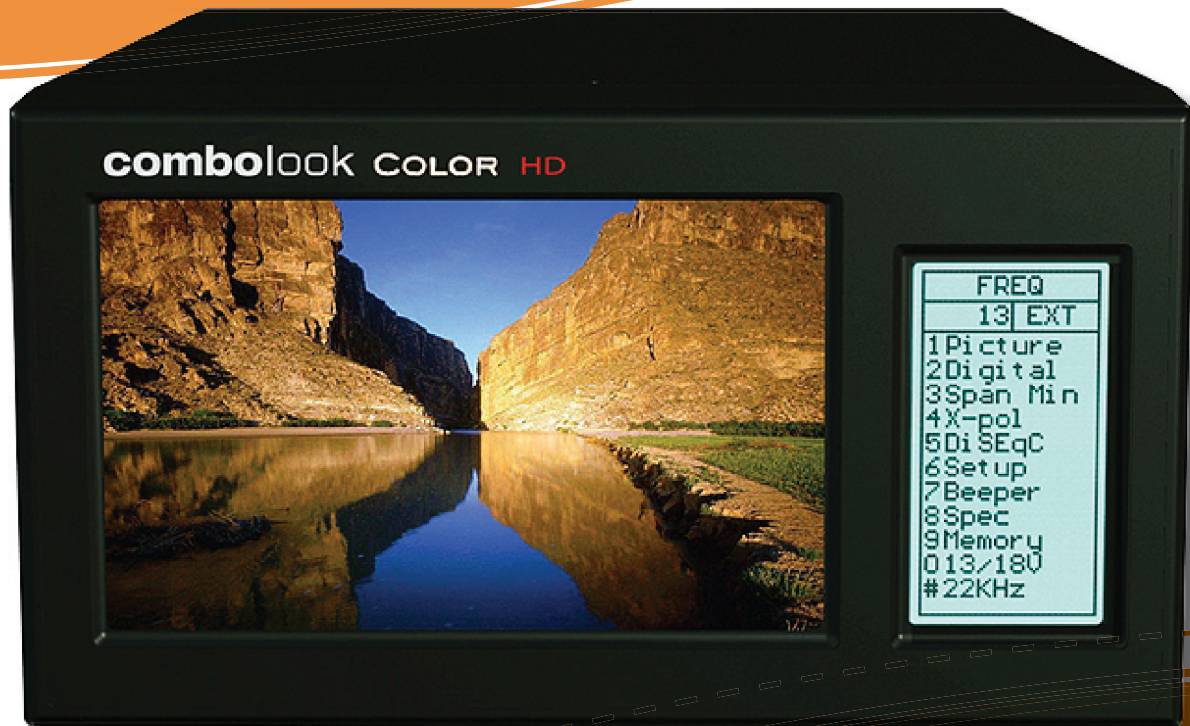


Combolook

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 satellite-receiver 950-2150MHz.
- DVB/T-receiver.
- Automatic Satellite identification.
- Readout of NIT - gives SAT ID and TV/Radio-channel info.
- Digital MER, 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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Combolook

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 ± 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 MER (modulation error rate), 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

Input frequency:	5-900 Mhz and 950-2150MHz.
Sat-TV min level in:	About 35 dBuV (noise).
Sat-TV max level in:	About 90 dBuV.
TV-part max input level, picture:	110 dBuV.
Spectrum:	120 dBuV.
Sat-TV attenuation:	15 dB attenuator on/off.
TV-part: attenuation:	45 dB in 1 dB step.
Display of signallevel (analog):	dB on LCD/monitor. Pitch-tone.
Sat-TV accuracy:	$\pm 1\frac{1}{2}$ dB (at +20° C).
TV-part accuracy:	± 1 dB (at +20° C).
TV-part resolution bandwidth:	1 MHz or 300 kHz.
TV-part video bandwidth:	100, 10, 1 kHz or 100Hz.
DVB-S S/2 Digital display of signallevel:	MER, S/N (signal/noise-ratio), BER (bit error rate) Constellation (QPSK and 8PSK).
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).
TV text-TV (CEEFAX):	Yes.
KU- C-band:	Yes, selectable.
Input impedance:	75 Ohm, F-con.
Picture-screen:	5" 16:9 TFT-LCD monitor
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.
Favourite channels:	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.
PC-connection:	RS232-output and PC-software.
Sat-TV power out:	Yes, 13-18V.
TV power out:	On/off. 5 volt and 15-24 volt.
Sat-TV control:	22 kHz, DiSEqC SatCr (UniCable).
DiSEqC	Yes, all 1.0 and 1.1. 1.2.
DiSEqC actuator:	Built in positioner for DiSEqC 1.2, Toneburst on/off.
Battery:	Rechargeable Li-on 16,8v, 4000mAh.
Weight:	About 4 kg incl.battery.
Accessories:	Nylon carrying-case. Power-supply of 220v/13.8v, 3000mAh. Car-charger.



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