

Combolook

COLOR **HD** (USA)



FEATURES

- * Digital SATV: DVB-S/S2, DSS, SWM, Dish, DigiCipher II.
- * Digital Cable, US QAM (Annex B).
- * Digital Terrestrial (Off air): ATSC.
- * 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.
- * Digital BER, MER and S/N(C/N)-ratio for DVB-S/S2 and DSS.
- * Digital BER, MER and S/N-ratio for ATSC.
- * Digital BER and S/N-ratio for Digital Cable (US QAM).
- * Automatic Satellite identification.
- * Readout of NIT - gives SAT ID and TV/Radio-channel info.
- * QPSK and 8PSK constellation diagram for DVB-S/S2 and DSS.
- * Aerial power (off air) output, 0, 12, 18 and 24V.
- * LNB voltage 13/18V, 22KHz tone switch, SWM (21v) and Sat-CR control.
- * Rechargeable Li-Ion battery.
- * Nice & small, only 4Kg complete with carrying case.

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

The unit is made for exact alignment and adjustment of satellite-dishes and ATSC-aerial antennas (off air). It is also an excellent tool for working with Digital Cable (US-QAM). 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 COLOR HD (USA) is also 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 $\pm 1\text{dB}$ (at $+20^\circ\text{C}$).

The SAT-part also has very high resolution and accuracy. It presents measured data $\pm 1\frac{1}{2}\text{dB}$ (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 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.

There is a built in MPEG-2 receiver showing video of DVB-S (MPEG2) Free to Air signals.

COMBOLOOK COLOR HD (USA) can handle a lot of memory-positions and both spectrum-pictures and certain frequencies can be saved.

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.



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Technical specification

Input frequency:	2-900 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 dBV.
Spectrum:	120 dBV.
Sat-TV attenuation:	15 dB attenuator on/off.
TV-part: attenuation:	45 dB in 1 dB step.
Analog display of signallevel:	in dB on the LCD/monitor. Pitch-tone.
Sat-TV accuracy:	$\pm 1\frac{1}{2}\text{dB}$ (at $+20^\circ\text{C}$).
TV-part accuracy:	$\pm 1\text{dB}$ (at $+20^\circ\text{C}$).
TV-part resolution bandwidth:	1 MHz or 300 kHz.
TV-part video bandwidth:	100, 10, 1 kHz or 100Hz.
TV power out:	On/off. 12-24 volt.
Digital display of signallevel: DVB-S, S/2 and DSS	BER, MER and S/N-ratio Constellation diagram (QPSK and 8PSK).
ATSC Digital Cable (US QAM)	BER, MER and S/N-ratio BER and S/N-ratio
Satellite-identification:	Yes, by reading out the NIT in the bitstream. Info about the TV- and Radio- channels.
Video:	DVB-S (MPEG-2), Free to air.
Sat-TV power out:	Yes, 13-18V and SWM (21V).
Sat-TV control:	22 kHz, DiSEqC, SWM and SatCr (UniCable).
DiSEqC	Yes, all 1.0 and 1.1. 1.2.
DiSEqC actuator:	Built in positioner for DiSEqC 1.2.
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.
PC-connection:	RS232-output and PC-software.
Battery:	Rechargeable 12v, 3.5 amp/hour.
Weight:	About 4 kg incl.battery.
Accessories:	Nylon carrying-case. Power-supplyof 220v/13.5v, 1.7amp Car-charger.