

# Combolook

## COLOR HD (S2/T2/C)



### 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.
- Digital BER, MER and S/N(C/N)-ratio DVB-S/S2.
- Digital BER, MER and S/N(C/N)-ratio DVB-T/T2.
- Digital BER and S/N(C/N)-ratio DVB-C.
- Automatic Satellite identification.
- Readout of NIT - gives SAT ID and TV/Radio-channel info.
- QPSK and 8PSK constellation diagram for DVB-S/S2.
- Aerial power output, 0, 12, 18 and 24V.
- LNB voltage 13/18V, 22KHz tone switch, Sat-CR control.
- 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 (S2/T2/C)

The COMBOLOOK COLOR HD S2/T2/C 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 COLOR HD S2/T2/C 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  $+20^{\circ}$  C).

There is a built in MPEG-2 receiver showing picture on DVB-S/T/C. The SAT-part also has very high resolution and accuracy. It presents measured data  $\pm 1\frac{1}{2}$  dB (at  $20^{\circ}$  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. The unit has a built in DVB-receiver which can store up to 100 Free To Air channels in a favourite channel-list.

COMBOLOOK COLOR HD S2/T2/C 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 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 $+20^{\circ}$ C).                                                                                                           |
| TV-part accuracy:                                | $\pm 1$ dB (at $+20^{\circ}$ C).                                                                                                                      |
| TV-part resolution bandwidth:                    | 1 MHz or 300 kHz.                                                                                                                                     |
| TV-part video bandwidth:                         | 100, 10, 1 kHz or 100Hz.                                                                                                                              |
| DVB-S S/2 T T2 C Digital display of signallevel: | SNR, C/N, 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.                                                                 |
| Picture DVB-S/S2/T/T2/C                          | Yes, MPEG-2, Free to air.                                                                                                                             |
| 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.          |
| Favouritechannels:                               | Both analog and digital frequencies can be stored (with name). 100 DVB-S and 100 DVB-T Free to Air channels can be stored in favourite channel-lists. |
| PC-connection:                                   | RS232-output and PC-software.                                                                                                                         |
| Sat-TV power out:                                | Yes, 13-18V.                                                                                                                                          |
| TV power out:                                    | On/off. 12-24 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.                                                                                                                   |
| Battery:                                         | Rechargeable 12v, 3.5 amp/hour.                                                                                                                       |
| Weight:                                          | About 4 kg incl.battery.                                                                                                                              |
| Accessories:                                     | Nylon carrying-case.<br>Power-supply of 220v/13.5v, 1.7amp.<br>Car-charger.                                                                           |