

satlook Lite

USER MANUAL



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satlook Lite - DESCRIPTION

Emitor's satlook Lite is developed in Sweden for exact alignment and adjustment of satellite dishes.

It's designed to be extremely easy to use, simply select the satellite You want to find/install and the meter will try to identify that one only.

When finding the satellite the meter will show exact digital readouts (BER, MER and SNR) in order to get a perfect result of the installtion.

satlook Lite is microprocessor controlled, making it very reliable and accurate. Signalstrength is presented on the LCD-display.

The meter is searching for one satellite at the time ("EasyFind"-mode). You can also choose to view the signal in spectrum mode.

satlook Lite is very sensitive and can detect even the weakest signals. satlook Lite can feed Voltage (13/18 Volt), 22 kHz and DiSEqC to LNB's. The meter is short-circuit protected by an automatic fuse.

satlook Lite is charged via an external DC power-source of 12 volt, 1,2 amp. satlook Lite operates with 8xAA rechargeable batteries. The unit will works for about one hour with fully charged batteries.

1 Getting Started

1.1 Power ON/OFF

To turn the unit ON, simply push and press down the OK –button for a couple of seconds.

NOTICE, The unit will start booting up (which takes about 10-15 seconds) The unit will “beep” in a steady pace and the LCD back-light will lit during start-up.

The unit starts in **Easy Find** mode on the last selected satellite position.

To turn the unit OFF, push and hold down the **Ok** –button for a couple of seconds.

1.2 Power supply and battery

satlook Lite can be fed by an external power-supply through the VDC port, by an external power-source (12v dc, max 1.2A). This is useful in case that the battery goes empty during an installation. Connect the power-source and hold down the ON button for a couple of seconds (until the unit turns On).

To turn the unit OFF when the unit is fed by an external power-supply, simply disconnect the power-source.

A discharged battery takes about 14 hours to recharge. The recharging is controlled by the units microprocessor and is indicated on the display. Please notice that to obtain full capacity of new batteries it is necessary to recharge and run down the battery-pack a couple of times.

The meter has 8 x AA rechargeable NiMe batteries in the battery-compartment. Apart from recharging the battery the unit does not need any particular maintenance. The unit should be recharged when the battery is empty (indicated with a battery-indicator symbol on the display). A fully charged battery is operational for about an hour (depending on the external antenna load).

1.3 How to use the meter

Start by connecting the LNB of the dish and then turn the meter On.

The instrument starts in the “EasyFind”-mode which makes it easy to detect the satellite/s You are looking for.

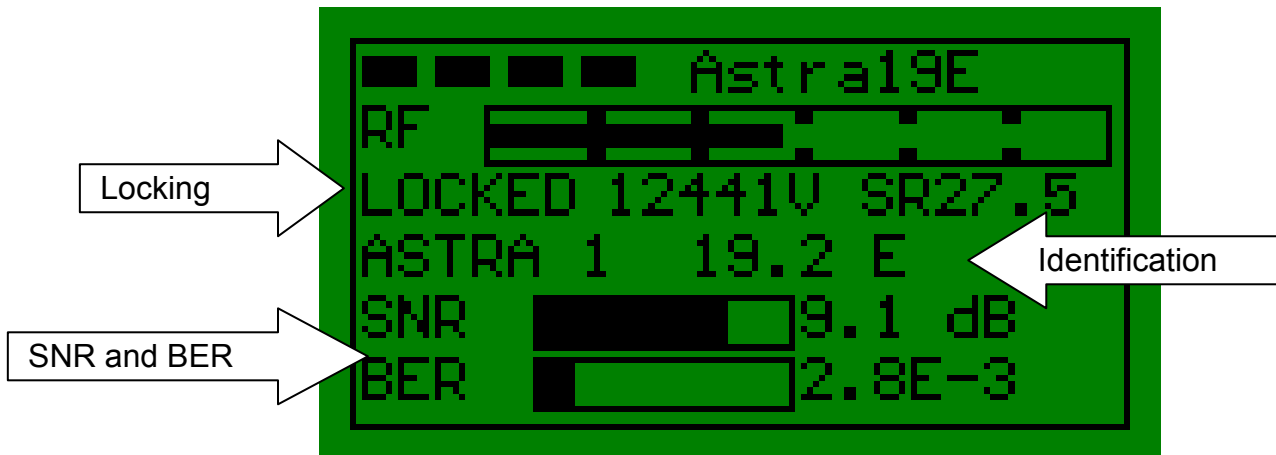


The unit has a preset-list of 5-8 selected satellites (depending on where in the world You are). Chose, by using the arrow **Up/Down** buttons, the satellite You want to install.

The meter immediately starts to search for that particular satellite.

It is indicated with pitch-tones from the beeper and signal strength indication on the LCD-display.

The signal-strength will increase on the signal-bar and the tones will be higher from the beeper if any sat-signal is found.



The SNR and BER bars will be displayed when the wanted satellite is found. The text "LOCKED" will also be shown in front of the frequency. The NIT (Network Information Table) will be presented if such is transmitted. Correct satellite identification will be displayed in three steps:

* Identifying...

* identified ok ! (and some time also name, like; ASTRA or position, like; 1W)

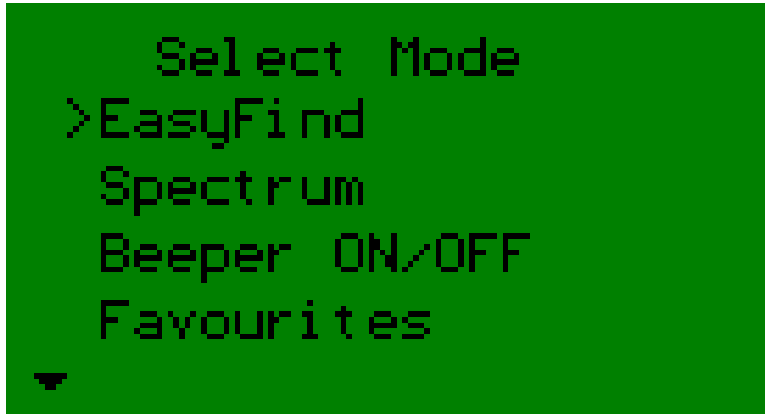
The BER (Bit Error Rate) should be as low (less errors) as possible. The SNR (Signal Noise Ratio) should be as high as possible (the signal coming out of the noise as much as possible).

In order not to be confusing both digital bars should be as high as they can be. Signal-level shall increase from left to right.

2. Menu

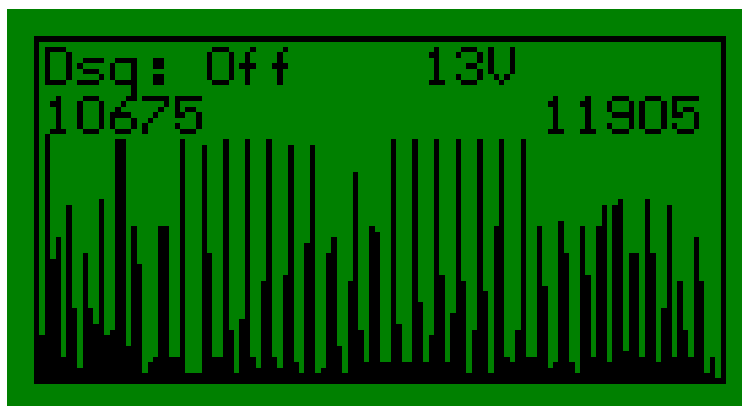
The following menu is shown on the display when pressing down the “**OK**” button in the “EasyFind” mode:

This is the Main Menu. Use the “**UP**”/”**DOWN**” buttons to scroll up and down in the menu system. Use the “**OK**” button to enable the selected function.



2.1 > Pressing down “**OK**” when > pointing towards “**EasyFind**” will take You back to the “EasyFind”-mode. In this mode You simply chose the satellite You want to install (with Up/Down arrows) and then align the dish.

2.2 > Pressing down “**OK**” when > pointing towards “**Spectrum**” will take the meter to “Spectrum”-mode.



The display shows the frequency spectrum of 950-2150 MHz. The display also shows:

- Frequency start/stop.
- 13V or 18V.
- 22kHz on or off.
- DiSEqC (if any).

Pressing down the “OK” button in “Spectrum”-mode will take the meter back to the “Main Menu”.

2.3 > Pressing down “OK” when > pointing towards “**Beeper ON/OFF**” will either turn the BEEPER ON or OFF.

The idea is to help finding the strongest signal on the selected satellite by listening to the highest pitch of the tone.

2.4 > Pressing down “OK” when > pointing towards “**Favourites**” will take the meter to editing mode where You can add on or take away satellite-positions from the favourite list. Simply press “OK” on the satellites You want to add/take away.

Selected satellites will have a “ * “ symbol in front of the name.

For saving, select “Save and exit”.

2.5 > Pressing down “OK” when > pointing towards “**LNB Setup Menu**” will entering the LNB mode were You can chose between different LNB LO settings. Default is UNIV-LNB. Change time when needed and then select >save and exit.

If no change is needed simply select “exit”.

2.6 > Pressing down “OK” when > pointing towards “**Setup**” will take the meter to setup- mode. In setup-mode the below parameters can be adjusted;

- **Language.**

Chose between: English, French, Deutsch, Portuguese and Swedish

- **Auto power off:**

Chose between; 1 min, 2 min, 5 min, 10 min, 30 min and always on.

- **LCD backlight:**

Chose between; On or Off.

- **LCD Contrast:**

Chose between; Lighter or Darker.

- **Info**

Tells about Software version, battery power, etc.

Technical specification:

- Input frequency: 920-2150MHz
- Input level: 35-100 dBuV
- Input/output impedance: 75 Ohm, F-connectors
- Measuring method (Analog):
 - RF Signal presentation in thermometer scale.
 - Loadspeaker tone changes with signal level when enabled
- Measuring method (Digital):
 - BER (bit error rate)
 - MER (modulation error ratio)
 - SNR (signal/noise-ratio)
- Scales showing max signal and max values
- EasyFind satellite identification: By reading the NIT/FEC/SR etc. in the transport stream
- Automatically acquires DVB-S transponders using advanced demodulator to determine FEC and Symbol Rate.
- Spectrum Analyzer 950 MHz to 2150 MHz.

- Back-lighted 128x64 Pixels LCD.
- PC connection: RS232 with DB9 connector
- LNB Power: 13V or 18V.
- 22 kHz tone: Standard 22 KHz signal superimposed at 0.65V p-p on LNB-A
- DiSEqC: Yes, according to 1.0.
- Battery: Rechargeable 8x AA rechargeable batteries of 1600mA each.
- Battery Life: About 1 hour on fully charged batteries.
- Weight: About 0.7 kg including batteries.
- Accessories: Orange rubber casing.
- Power-supply of 220v/13.8v, 1.5 amp
- Car-charger



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