SATHERO

SH-200

DIGITAL SATELLITE FINDER

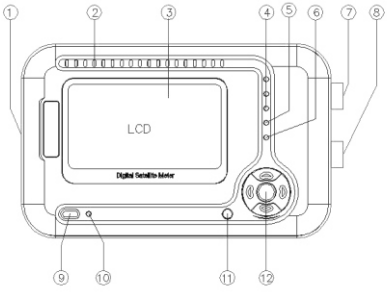
Main features:

- Quick satellite antenna installation
- Fast satellite signals identification
- Rapid satellite cable detection
- Least and speediest digital signal finder
- Supports DVB-S protocol
- Fully compatible with DVB-S, DVB-S2, CBS MPEG-4,ABS-S format Satellite signal
- 22KHz switchs automatically
- Global satellite data preseted
- Satellite parameters editable
- Scans and shows channel list
- Display POWER and NIT value
- High-resolution backlit LCD easy read
- LCD turns off automatically
- All operation on one screen
- Signal quality indication LEDs
- Signal lock prompt audio tone
- 13/18 volts indicating lights
- 22KHz indicating light
- Signal lock indicating light
- LNB short-circuit protection
- USB interface for software upgrade
- Wrist strap included
- Intelligent internal AC charger
- Removable battery design
- High capacity lithium battery offering in excess of 3.5 hours operation

INSTRUCTION MANUAL

We operate a policy of technically change without prior notice,
the picture of outlook and color is for a reference only, the actual item is the standard.

FRONT PANEL

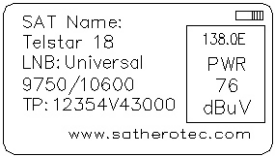


No.	Item	Description
1	USB-Port	USB port for PC connection and power supply connection
2	Signal-LEDs	Shows the satellite signal quality, the more lights, the stronger quality
3	LCD-Display	Display the menu and the measured values
4	22K/13V/18V-LEDs	LED lights when 22K/13V/18V switch on
5	LOCK-LED	LED lights when satellite signal is locked
6	Test-LED	LED lights when the cable being tested is well connected and input voltage suited
7	LNB-IN	Satellite signal input
8	Test-Port	Being tested cable input
9	POWER-button	Switch finder on/off
10	POWER-LED	Operation: Red: the finder is on. Off: the finder is off. Charging: Green: The battery is being charged. Orange: The battery is full.
11	Scan-button	Scan the channels and save
12	Navigation-cross OK button	Navigation through menus, switching programs ▲, ▼ volume control ◄, ► OK button: confirmation of a selection

INSTRUCTION

- Charging:
  - If the finder is being used for the first time, it may be necessary to charge for about 12 hours. If the battery runs low during use, you should recharge it for 5 to 6 hours，it will be full until the power light turns to orange from green. Rechargeable Li-on battery lasts approximately 3.5 hours on a full charge.
  - It may be necessary to turn off the finder while charging. Universal charger operating on 110vac/60Hz or 220vac/50Hz makes it usable anywhere.
- Turn on/off
  - Press and hold the POWER button for 2 seconds,the finder will display WELLCOM screen and enter the main menu.
  - Press and hold the POWER button for 2 seconds again to turn off.
- Enter registration code
  - It's necessary to enter the registration code when you first start_up or restart after updating the softwares and parameters. You can find the code item in the manual and enter it into the finder by pressing the direction buttons, [◀][▶]: move the cursor to choose the location entered, [▲][▼]： choose numbers or letters. After that,press OK button to confirm.
  - Registration code is the security and after-sale guarantee,please keep it safely.
- Restore factory setting
  - From the main screen，press and hold OK button until FactorySet menu display，chose “Yes” to confirm or “No” to cancel.
  - After factory resetting, all modified and saved contents will be lost.
- Select Satellite

  From the main screen, move cursor to SAT Name, Use [◀][▶]buttons to switch between different satellites, select the one you want, press OK button to view the longitude of satellite.



- Select LNB

  From the main screen, move cursor to LNB, Use [◀][▶] buttons to choose LNB
  - Type between single and double local oscillator, then move cursor to next bar, Use [◀][▶]buttons to select the default LNB frequency. The LNB frequency must be the same as on the antenna.
  - If no default frequency you need, press OK button to edit, you can key in the LNB frenquency by using direction buttons and press OK button in the end.

➢ Select parameter

- From the main screen, move cursor to TP, Use [◀][▶] buttons to select the parameter that you want.
- If no default parameters you need, press OK button to edit, you can key in the frequency, symbol rate and polarization by using direction buttons and press OK button in the end.

➢ Detect satellite signal

- After signal detected, the finder lights the LED bar and beeps, View the PWR and NIT on the screen, the value of POWER is higher, the strength of signal is better and stronger. You can also check the satellite channel list by pressing SCAN button

➢ Save current setting:

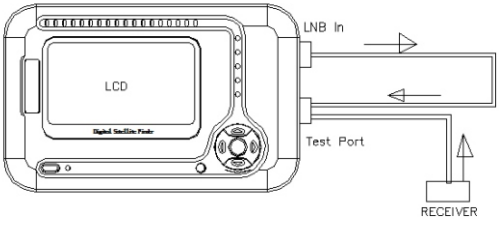
- From the main screen, press SCAN button to save the settings.

➢ Upgrade:

- Download the latest software, parameters and update tool from our website.
- The satellite parameters need to be updated every three months.

➢ Notice:

- Before being ready to seek satellite signal, make sure that the cable is properly connected through the testing port of finder first. Take the LNB in port of finder or In port of digital satellite receiver as the output of tested cable. Turn on the finder and receiver (if used), the test light on the finder panel will be lit as soon as the cable is well connected.
  While installing the antenna, make sure that the LNB in port of finder is well connected to the tuner of the antenna with tested cable. Turn the antenna in the approximate direction, the finder will light the LED bar and beep when the antenna is close to the satellite. Continue to turn the antenna in the direction that makes the finder lights more LED and beep quicker. View the PWR value on the screen, continue to turn the antenna until the finder shows the maximum value of PWR, lock in the best position of antenna.
- Through this function, user can quickly and easily find the right satellite and accurately set the dish.



NOTES

➢ Warning

- Only qualified personnel may dismantle device and charger.
- Do not drop device and charger into water or fire.
- Do not shock or vibrate the device and charger.
- Make sure that the battery is full charged while upgrading. Do not switch off the device or pull out the cable while upgrading. The device will restart automatically after upgrading.

➢ Battery & charger：

- Only use original batteries and chargers. The use of any other types may be dangerous or damage to device
- Dispose of batteries according to local regulations.
- Do not crush, puncture the battery. Avoid extreme temperatures and high pressure.
- If left unused, a full charged battery will lose it's charge over time, please recharge before using.
- Unplug the charger from the electrical plug when not in use.

Service

Product Certificate

Product Serial Number：_____

Registration Code：_____

After purchased, please read out the product serial number and register code form the back of battery cover, fill in the relevant form on the top, and register code on the official site to verify

Official Site： www.satherotec.com

SATHERO

Technical Spec

LNB/Tuner input

F-type connector	IEC 169-24
Frequency range	950 MHz ~ 2150 MHz
Input level	-65 dBm -25 dBm
Input Impedance	75Ω
LNB power supply	14/18 V, max. 650 mA
LNB switch control	22 kHz

Demodulator

Demodulator Front end	QPSK
Symbol rate	2Mbps~45 Mbps

SCPC and MCPC Capable

Spectral inversion Auto conversion

Connectors

Serial data interface	MINI USB

Power supply

Supply voltage	DC10V 1A
Li-on battery	1850 mA
Battery working time	about 3.5hours
Supply voltage (charger)	AC 110~250 V , 50/60 Hz

Dimensions

Length x width x height	12.7 x 8 x 3.2 cm
Weight	0.28Kg
Gross weight	0.65Kg

Temperature

Operating temperature	0° C to +40° C
Storage temperature	-10° C to +50° C

SATHERO LIMITED

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