USER'S MANUAL

Digital Satellite Finder

FRONT PANEL

FRONT PANEL

No.	Item	Description
1	MINI USB-Port	USB port for PC connection and power supply connection
2	AV In	Input audio and video signals
3	AV Out	Output audio and video signals
4	USB-Port	Connect to USB or USB-HDD device
5	HDMI-Port	Connect to TV through HDMI cable
6	LNB-IN	Satellite signal input
7	LCD-Display	Display the TV program, the operation menu and the detailed parameters.
8	22K/13V/18V-LEDs	LED lights when 22K/13V/18V switch on
9	LOCK-LED	LED lights when satellite signal is locked
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	Power-keys	Switch finder on/off
12	Function -keys	F1: Switch LCD on/off F2: Mute F3: Switch the display F4: To switch between TV program and Radio program
13	Angle-keys	Display the angle menu
14	Find-keys	Display the find menu
15	Menu-keys	Display the main menu
16	Exit-keys	Leave the current menu, cancel operation
17	System-keys	Display the system menu
18	Navigation-kyes OK-keys	Switch programs ▲, ▼ Volume control ◄, ► OK keys: confirmation
19	Number-keys	Select the channel directly

➢ Charging

- If the finder is being used for the first time, it may be necessary to charge for no longer than 12 hours. If the battery runs low during use, you should recharge it for 5 or 6 hours, it will be full when the power light turns to orange from green.
  Fully rechargeable Li-on batteries can last approximately 3 hours.
- It may be necessary to turn off the finder while charging. A universal charger operating on AC110V/60Hz or AC 220V/50Hz makes it usable anywhere.

➢ Turn on/off

- Press and hold the POWER button for 2 seconds, the finder will turn on.
- Press and hold the POWER button for 2 seconds again to turn off.

➢ Language setting

- From the system setting menu, you can find the language setting. Select your language and press the OK button.

➢ Restore factory setting

- From the system setting menu, you can find the factory default item. You can choose "restore to factory". Press the OK button to confirm, MENU button to cancel.
- After a factory reset, all modified and saved contents will be lost.

➢ Angle Calculate

Press the [▲][▼] button to select the following points:

Satellite | **Local Longitude** | **Local Latitude** | **Recalculation**

Satellite: Select the desired satellite
Local Longitude: Input your local longitude
Local Latitude: Input your local latitude
Recalculation: After the completion of all values, press the OK button to calculate the angle.

Azimuth: show the azimuth angle of the chosen satellite
Elevation: show the elevation angle of the chosen satellite
Pol: show the polarity angle of the chosen satellite

➢ Satellite Finding

Select Satellite

- From the finding menu, move the cursor to the Satellite, you can browse the satellites list, use [◄][►] buttons to switch between different satellites, select the one you want, press the [OK] button.

Select LNB

- From the finding menu, move the cursor to LNB Type, Use [◄][►] buttons to choose LNB Type between single, Universal or MDU, then move the cursor to the next bar, Use [◄][►]buttons to select the default LNB frequency. The LNB frequency must be the same as the LNB on the antenna.

Select parameter

- From the finding menu, move the cursor to Frequency, Use [◄][►] buttons to select the parameter that you want.
- If no default parameters, press the [OK] button to edit, you can key in the frequency, symbol rate and switch the polarization by using direction buttons and pressing the [OK] button.

Detect satellite signal

- After signal is detected, the finder displays signal at the signal bar and beeps. View the PWR、C/N、MER、a.BER and NIT on the screen, if the value of POWER is higher, the strength of signal is better and stronger. You can also search the satellite channel list by pressing the OK button.

Value

0.00E： show the longitude of the chosen satellite

DiSEqC：show the DiSEqC port of the chosen satellite

Az：show the azimuth angle of the chosen satellite

El： show the elevation angle of the chosen satellite

Pol：show the polarity angle of the chosen satellite

LAT：show the local latitude of the chosen satellite

LONG：show local longitude of the chosen satellite

NIT：show the longitude of the locked satellite

C/N：show the C/N value of the locked satellite

MER：show the MER value of the locked satellite

a.BER：show the a.BER value of the locked satellite

➢ Spectrum Analyzer(Optional)

- The spectrum analyzer mode allows the user to discover the signals present in the frequency band quickly and easily and to make measurements at the same time.

- From the main menu, you can find the Spectrum options. Press [OK] button, the spectrum menu will appear.

  Press [▲/▼] to move vertical coordinate's position, and browse the level of Hi-Lo lines.

  Press [◀/▶] to move the Red cursor to select a frequency, when a frequency with signal is detected, the LOCK LED will light up and a tone will sound.

  F1: Press [F1] to switch SPAN of spectral abscissa. This function enables selecting the displayed screen frequency in spectrum analyzer mode between Full, 200 MHz, 100 MHz, 50 MHz, FULL as Default.

  F2: Press [F2] enters the LNB interface to set the system parameter. After setting is complete, press [MENU] to return to Spectrum menu.

  F3: Press [F3] to switch between Horizontal and Vertical polarity.

  F4: Press [F4] to switch between Spectrum analyzer menu and Finding menu.

  OK: Press [OK] when a frequency of Abscissa is selected, the system will enter the frequency searching menu, press [OK] when Search is selected to start frequency searching.

➢ Delete Channels

- From the main menu, select “Channel”, press [OK] to enter the channel edit menu.
  Use [▲/▼] buttons to choose from the options below.
  Delete ALL TV Channels
  Delete ALL Radio Channels
  Delete ALL FTA Channels
  Delete ALL Scramble Channels
  Press OK button to confirm
  Press Menu to cancel

➢ Software & Parameters upgrade

- Copy the software or parameters to the USB drive, insert the USB, the system will display "USB Device connected", navigate to the USB menu, select " Upgrade by USB" item. Press [OK] to enter the software upgrade menu, Use [◄][►] buttons to select the mode that you want, if upgrade software then select “software”, if upgrade parameters select “CSV”. Then press [OK] to enter “Upgrade from file…” menu to select upgrade files. Press [start] to upgrade the files, and select “YES” Upgrade will start, during upgrading, do not power off the finder.
- Download the latest software and TP lists from our website.

NOTES

➢ Notice

- Before being ready to seek satellite signal, make sure that the cable is properly connected first.
- While installing the antenna, make sure that the LNB in port of the finder is well connected to the tuner of the antenna with a 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 signal bars strong and beep quicker. View the PWR value on the screen, continue to turn the antenna until the finder shows the maximum value of PWR. Set the antenna in the best position.
- Through this function, the user can quickly and easily find the right satellite and accurately set the dish.

➢ Warning

- Only qualified personnel may dismantle the device and charger.
- Do not drop the device and charger into water or fire.
- Do not shock or vibrate the device and charger.
- Make sure that the battery is fully 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 the device.
- Dispose of batteries according to local regulations.
- Do not crush or 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 no in use.

Technical Specifications

LNB Input	
F-type connector	IEC 169-24
Frequency range	950MHz ~ 2150MHz
Input level	-65dBm ~ -25dBm
Input Impedance	75Ω
LNB power supply	14/18V, Max 650mA
LNB switch control	22kHz
Demodulator	
Demodulator front end	QPSK, 8PSK,16APSK, 32APSK
Symbol rate	2Mbps~45Mbps
Measurement Unit	dBm, dBuV
Connectors	
Serial data interface	USB 2.0 Port
Video/audio interface	HDMI, and 3.5mm
Power supply	
Supply voltage	DC14.5V 1.5A
Li-on battery	2550mA
Working time	about 3 hours
Supply voltage (charger)	AC 110~250V 50/60Hz
Temperature	
Operating temperature	0°C to + 40°C
Storage temperature	-10°C to + 50°C
Dimensions	
Length x width x height	21 x 12.5 x 3.5cm
Weight	
Weight	0.62Kg
Gross weight	0.88Kg