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## Brief introduction:

This type of digital satellite finder is a simple and convenient instrument to install and adjust satellite dish. As digital satellite finder, it is necessary to input corresponding satellite parameters, such as LO frequency of LNB, Down Frequency, symbol rate, etc.

It can be used as an indicator to adjust satellite dish, feedhorn position and polarizing angle so that help the best dish installation.

## 1. Safety precautions

- Please read this user's guide carefully, especially for the first time users.
- Do not touch the LCD display by hand.
- Do not place heavy items on the device.
- Keep this unit away from the heat, direct sunlight, strong mechanical vibration, or dusty places. Clean the surface with a dry and soft cloth. Do not pour any liquid to void serious injury.
- Keep the unit in a ventilated place.
- Please contact your supplier if any failure occurs.
- Operate properly per this user's guide, otherwise any damage of the unit is at the user's risk.
- Specifications are subject to change and improvement without notice. Please inquire of manufacturer if there's any need after the usage.

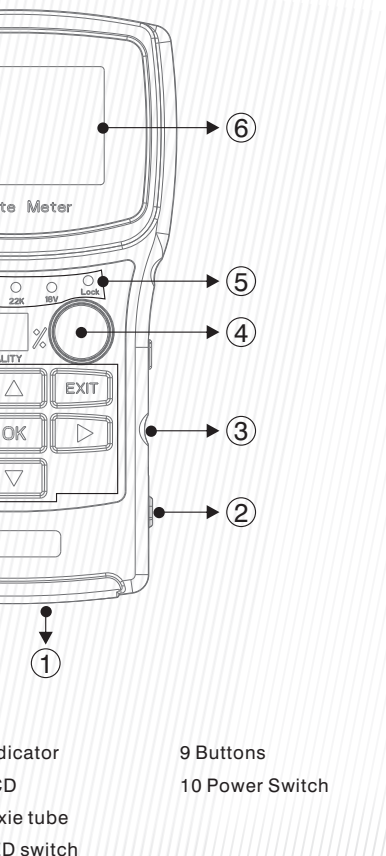
## Notice:

1. The battery is only applicable to the charger which supplied or appointed by the manufacturer of this machine.
2. The charging time should be minimum 5 hours for the first time, and it should not be charged over 12 hours after the first time.
3. The battery should be stored within a temperature range of 0 °C to 40 °C .
4. When stored for a long period, charger the battery at least once per month so as to prevent over discharge .
5. Products placed for a long time to charge once every three months.
6. The battery is expendable.

## 2. Main features

1. Support DVB-S, DVB-S2
2. Support spectrum function
3. Support 0/22KHz., DiSEqC1.0 , USALS
4. Support unicable LNB
5. Build in highlight LED
6. Show the signal quality on nixie tube
7. Build in buzzer
8. Support to check the power cable automatically
9. Support to reset to defaults
10. LCD screen shows signal strength quality, power, MER, TP Type, FEC, BER, etc.
11. The unit of signal power support dbm, dbuv
12. USB 2.0 for software update, backup satellite parameters

## 3. Front panel introduction and function description



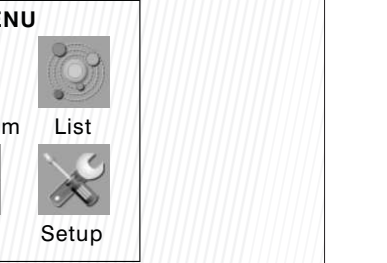
## 4. Operations and Management



Power: It lights on when the power on  
Change: It lights on when change the battery  
22K: Indicate the 22K signal  
18V: Indicate the 18V output for LNB  
Lock: It lights on when the signal is locked  
LED switch: Switch the highlight LED  
Compass: Indicate the direction  
MENU: Direct go to main menu  
EXIT: Press this button to step back, or cancel current parameter modifying.  
OK: Use this button to enter a submenu or save a new setting after adjustment; press it to enter parameter setting.  
▲▼◀▶: Move cursor up/down/left/right, Page up/down, change the parameter settings.

## 5. Main menu operation description

When power on, the screen will display some information about software, then enter to the main menu.



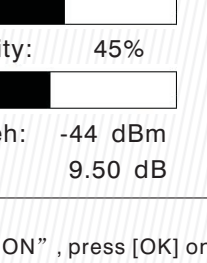
## 5.1 Find

In this menu, it is display the signal strength and quality according to the parameters that user selected or edited, help user to adjust the dish.

Satellite Name:	Chinasat6B
Local Freq:	05150
Transponder Freq:	03840
Symbol Rate:	27500
Polarity:	H
22K:	OFF
DiSEqC1.0:	LNB2
USALS:	OFF
Buzzer:	OFF
S: 57 %	Q: 45 %

## 5.2 Spectrum

In this menu, the strength of input signal will display in graphic mode.



## 5.3 List

### 5.3.1 Manual Check

Select the desired satellite and corresponding transponder, it will show the signal detail information, include strength, quality, type, FEC and BER.

Press [OK] to search next satellite

## 5.4 Sat

In this menu user can add, modify or delete the satellites, including satellite name, LO frequency, 22KHz., DiSEqC1.0, USALS and satellite longitude according to self requirements.

## 5.5 TP

In this menu user can add, modify or delete the transponders, including transponder frequency, symbol rate and polarity.

## 5.6 Setup

This menu contains some auxiliary functions and user data management

## 5.6.1 Back up Data

You can back up satellite data to U disk by this menu.

## 5.6.2 Update Data

You can update satellite data from U disk by this menu. Note: Only the ".txt" format file which named "sf700" can be identified, and must write as below. (There is a blank line at last)

2014-9-2 13:50:29  
SF700  
01 00China 6B 05150 0 0 0 115.5 0  
001 001 01 03951 09520 1  
001 002 01 03880 27500 0  
01 02 Koreasat 5 11300 1 0 0 113.0 0  
001 003 02 12647 28000 1  
01 03 0000NSS 11 Univ 0 0 0 108.2 0  
001 004 03 12537 41250 1

① "01" means this line information is about satellite.  
② The serial number of the satellite, it must be continuous, can not from "01" to "03".  
③ Satellite name. The length is ten. If the name of the satellite is sat01, the third must be "0000sat01".  
④ The LO Freq of the satellite.  
⑤ Represent 22KHz signal status. "0" means OFF, "1" means ON.  
⑥ Represent DiSEqC1.0 status. "0" means OFF, "1" means LNB1, "2" means LNB2, "3" means LNB3, "4" means LNB4.

⑦ Represent USALS status. "0" means USALS OFF, "1" means USALS ON.  
⑧ Satellite Longitude.  
⑨ Satellite location. "0" means east, "1" means west.

Parameter Setting  
Sat Longitude: 111.0 E  
Local Longitude: 113.0 E  
Local Latitude: 22.2 S  
Angle Calculated:  
Elevation: 63.8  
Azimuth: 354.7  
Polarization: 4.8

Select File  
01 SF710-1.BIN

Press "OK" to update .When the system is complete updating, the system will restart.

7、Charge indicator  
Green led on:Fully charged  
Red led on:In charging  
Red led flash:No battery or battery error

8、Technique specifications

Input signal	Frequency range	950--2150MHz
	Signal Level	-65 -- -25dBm
	Impedance	75Ω
	Symbol rate	1Mps--60Mps
Signal processing	Demodulation	DVB-S: QPSK
	DVB-S2: 8PSK, 16APSK, 32APSK	
	22KHz Tone	Supported
	DiSEqC1.0	Supported
Power supply	USALS	Supported
	Switching Power input	AC110--240V 50Hz/60Hz
	Switching Power	12V DC 2000mA
Others	Connector	F type
	USB port	Supported
	Operation temperature	+10℃ -- +50℃

9、Attachments:  
Power supply: x1  
Instruction Manual: x1  
F type connector: x1