

| CORE 1022 HE2/2020         Ukh Type         D/05/2002 HE2/2020           CORE 1022 HE2/2020         Ukh Type         D/05/2002 HE2/2020           CORE 1023 HE2/2020         Ukh Type         D/05/2002 HE2/2020           CORE 1023 HE2/2020         Ukh Type         D/05/2002 HE2/2020           CORE 1023 HE2/2020         D/05/2002 HE2/2020         D/05/2020 HE2/2020           CORE 1023 HE2/2020         D/05/2002 HE2/2020 HE2/2020         D/05/2020 HE2/2020           CORE 1023 HE2/2020         D/05/2020 HE2/2020 HE2/2020 HE2/2020         D/05/2020 HE2/2020 HE2/2020           CORE 1023 HE2/2020 HE2/                                                                                                                                                                                                                                                                                                                                                                                                             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None         60811012 H 27500       DISECL1       None         608110110 H 27500       DISECL1       None         608110110 H 27500       DISECL1       None         608110110 H 27500       DISECL1       None         608110 H 27500 H 27500 H 27500 H 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Dish Setup<br>TransPander Ku_HOTEIRO 6 7A.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| Press [GOTO] to get into the TP list, you can also use[F1] [F2]<br>F3] [F4] to add, edit, delete or begin to scan the selected TP,<br>and Press [GOTO] to return to the satellite list.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Dish Setup           TransFender         Ku_HOTBIRO 6.77.88           001 10723 H 25000         LHB 700e         00750/10603           001 10830 H 27500         LHB 700e         OF           001 10830 H 27500         DISEqC1 None         OF           001 10133 H 27500         DISEqC1 None         DISEqC1 None           001 10133 H 27500         DISEqC1 None         DISEqC1 None           001 10133 H 27500         DISEqC1 None         DISEqC1 None           001 10133 H 27500         DISEqC1 None         DISEqC2 None           001 10133 H 27500         DISEqC2 None         DISEqC2 None           001 10133 H 27500         DISEqC2 None         DISEqC2 None           001 10134 J 27500         DISEqC2 None         DISEqC2 None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Carabeline<br>TransPender<br>001 10723 H 198060<br>003 10735 H 18600<br>003 10030 H 19333<br>004 10033 H 27500<br>005 10932 H 27500<br>005 10932 H 27500<br>005 1012 H 27500<br>005 100 H 2000 H                                                                                                                                                                           |
| ■Press[F4]to Begin Scan, with Default, Blind Scan,Network<br>these three scan modes. When the signal is locked, the buzzer<br>will sound with the fastest repetition. The signal quality bar will<br>also be displayed on the LCD.Meanwhile, the LOCK LED will<br>light up. (Press*MUTE"to close the buzzer sound if you don't<br>want to hear it.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | E22K: Choose AUTO/ON/OFF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| Concentration Do you want to delete this? Unon Kone Country Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | LHE Type         09750/10600           001 10723 H 25800         LHE Type         09750/10600           001 10723 H 25800         LHE Type         09750/10600           001 10733 H 25800         LHE Type         09750/10600           001 10733 H 25800         LHE Type         09750/10600           001 10930 H 3333         22449         Auto           001 10932 H 27500         DISEqC1.0         Nonre           003 10932 H 27500         DISEqC1.1         Nonre           003 10131 H 27500         Motor         Nonre                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 001 10733 fr: 59800<br>001 10735 fr: 4333<br>001 10035 fr: 4333<br>001 10035 fr: 4333<br>001 10035 fr: 4333<br>001 10035 fr: 4335<br>001 10035 fr: 43550<br>001 1013 fr |
| Dish Setup           Satellate         C_trewSat2           057 070 3E Ku_MS5 703         LNB Type         05150           058 130 0C Ku_MS5 703         Canfarm         Auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                          | None/LNB1~LNB16.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Press [F3] to delete existed satellite. If you press OK , the aatellite will be deleted or you can press"EXIT" to exit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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07<br>010750<br>010750<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550<br>01550 | ■DiSEqC1.1: Press[◀ / ▶                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| Close 138 2 PERGONALCHAR IN CONTRACT ON CONTRACT OF CONTRACT ON CO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Dish Setup           TransPander         Ku_POTERD 6.75.8           001 10723 H 2560         FCB/0723           002 10723 H 2560         FCB/0723           003 10733 H 2560         FCB/0723           004 10933 H 2750         9739/10700           005 10932 H 7500         605150           005 10932 H 7500         00729           005 10932 H 7500         00729           005 10932 H 7500         00729                                                           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| Satellite         ku_NewSat1           057 070 3         Edit         9750/10600           0581380 No         061         37/18V           0591381 [Stellite Name         NewSst1         pute           0561382         pute         pute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| Press [F2] to edit existed satellite, which is includingSatellite<br>ame, Longitude Direction, Longitude Angle and Band.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ■Selete one of the satellites and press[◀ / ▶]to get into the<br>LNB TYPE setting.<br>■LNB Type: Press[▲/▼]to choose LNB Type between                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ■DiSEqC1.0: Press[◀ / ▶<br>None/LNB1/ LNB2/ LNB3/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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### Safety use:

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| 1). | Consumers who using the product for the first time should read this manual carefully |
|-----|--------------------------------------------------------------------------------------|
| 2). | Don not touch the LCD screen.                                                        |
| 3). | Don not place heavy items on the device.                                             |
| 4). | Don not lay the device closes to heating source, in the sunshine, in place with      |
|     | strong mechanical vibration or full of dust.                                         |
| 5). | Please place the device in ventilated surroundings.                                  |
| 6). | The device should be fully charged before using for the first time (recommend 6      |

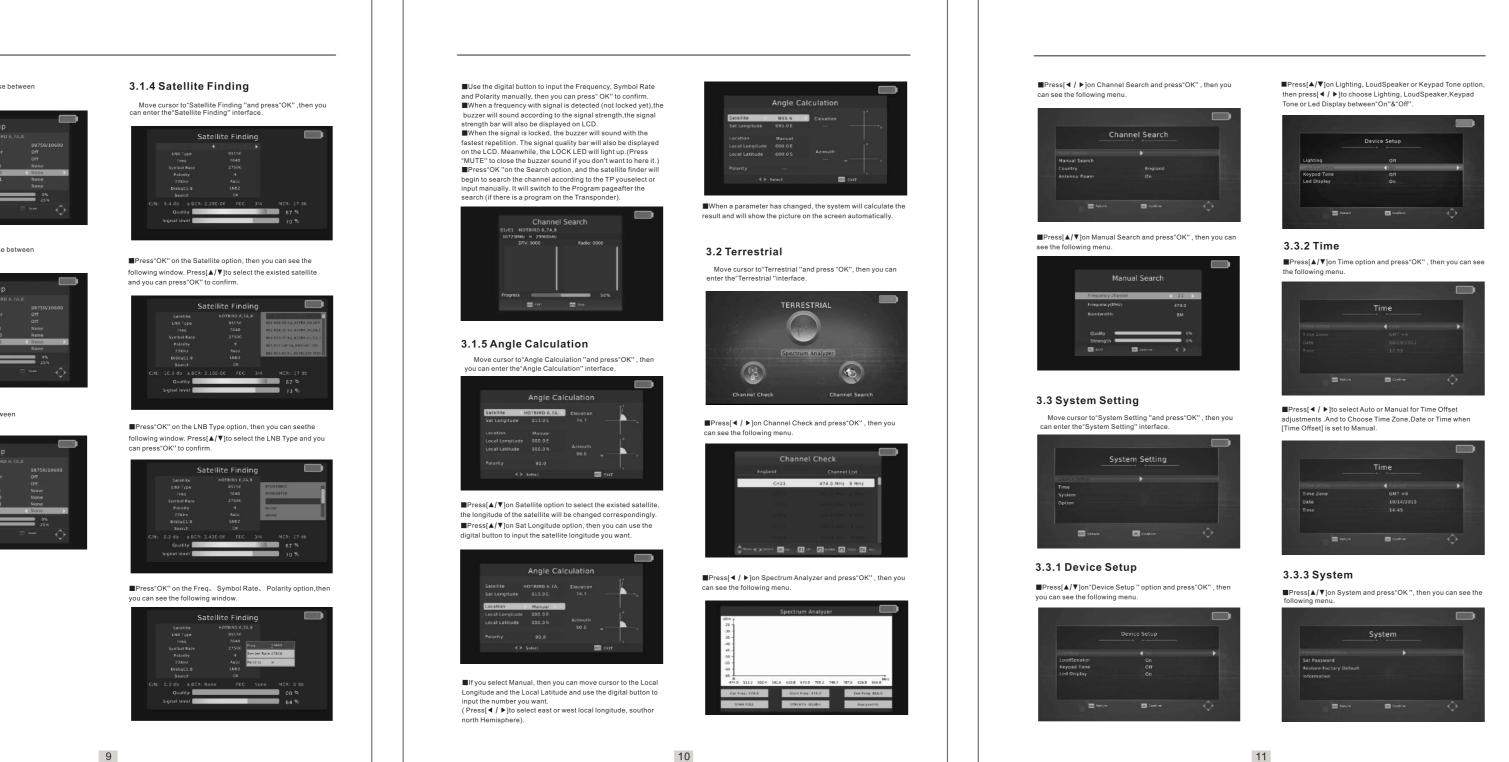
- hours for the first charging).
- (7). Contact the provider when malfunction of the device happen. (8). Damaging the device on operation without following the guideline would not be
- warranted. (9). Do not use the other cables like headphone, only using the AV cable in the package.

#### Danger warning:

(1). Prohibition of decomposition of batteries.

- (2). Prohibition of battery short circuit.
- (3). To reverse the positive and negative pole terminal. (4). No heating and burning batteries.
- (5). Avoid using batteries near heat sources.
- (6). Do not get wet.
- (7). To avoid charging in the vicinity of fire or direct sunlight.
- (8). Use a dedicated charger and proper charge.
- (9). Prohibit the destruction of batteries.
- (10). No direct welding on battery.
- (11). Do not connect the battery charging in the power outlet or car cigarette lighter. (12). Do not use batteries for other devices.
- (13). Do not direct contact with the battery.
- (14). When the battery and the electric equipment are connected or charge, we must
- pay attention to the polarity of the battery.

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#### Note :

- (1). In the strong sunlight, use the battery, please do not use the battery in the strong sunlight exposure, so as not to heat, deformation, smoke. At least to avoid battery performance degradation, reducing life.
- (2). Anti static: The battery is equipped with protective circuit to avoid the occurrence of various accidents. Do not use the battery in the generation of static electricity, because the static electricity (100V above) is easy to damage the protection board, and lead to battery work is not normal, heat, deformation, smoke or fire.
- (3). Charge temperature range: Recommended charge temperature range is 0~45. Charging in the environment beyond this range may cause a decrease in battery performance and reduce the life span.
- (4). Charging mode: Please use the special charger and the use of the recommended charging mode, in the recommended environment to the battery charge. After the discharge of the battery, please charge the battery in time.  $\star$ Due to the special characteristics of the car, the battery can not reach the
- saturation state when the vehicle is used to charge the battery. (5). First use: In the first use of the battery, if the battery is not clean or abnormal smell and other abnormal phenomenon, can not continue to use the battery for its
- equipment, should be returned to the seller. (6). When is not a long time, to remove the battery from the device and put them in the low temperature and humidity environment preservation. Battery has a life, if the use of the battery when the work of the device is less than usual, to replace the battery.
- (7).Children's use: Children use the battery, should be subject to parental guidance, and in the use of the right to be monitored. (8). To avoid contact with children: The battery should be placed in a position where the
- child can't get. Children should be avoided to take the battery from the charger or use the device to play.
- (9). Pay attention to leakage: If the battery leakage to the skin or clothing, please rinse immediately with water, so as to avoid skin discomfort, etc.
- (10). Consultation: When buying batteries, please pay attention to the vendor contact method. In order to get in contact with the seller when needed and get advice. (11). Period of guarantee: The warranty period is 6 months from the date of shipment.
- However, if the problem is not due to the failure of the company's manufacturing process, but due to improper use, even in the warranty period, manufacturers will not be free to replace the new battery.
- (12). Safe use: In order to ensure the safety, please consider whether the electric type, system and lithium ion battery protection circuit is matched in advance. In addition, it is also to consider the high rate current, fast charge and the feasibility of specific applications.
- ♦Any loss caused by the improper use of the above shall not be responsible for the company!

#### Chapter 1 Overview

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The SF-7000 is a HD digital singnal meter and portable device for installation and adjustment of satellite and terrestrial receiving antenna.

## 1.1 Features:

- Combo of DVB-S2 and DVB-T2 High resolution 5"TFT LCD
- Multi-lingual OSD and use-friendly UI
- Support Spectrum function
- Real time constellation display Support TP search and blindly search
- USB 2.0 for software update/media play back
- Support time shift Support TP PVR
- Support program edit (move/skip/lock/delete/rename)
- Support electronic program guide (EPG)
- Support HDTV video/audio output Support AV input for monitor installing
- Support DC+12V out for monitor installing
- Very easy to use with shortcut key
- Support RCU
- Build in loudspeaker for audio play Visual and audible signal when signal received
- Build in highlight LED light Large lithium battery capacity(4000mAh)

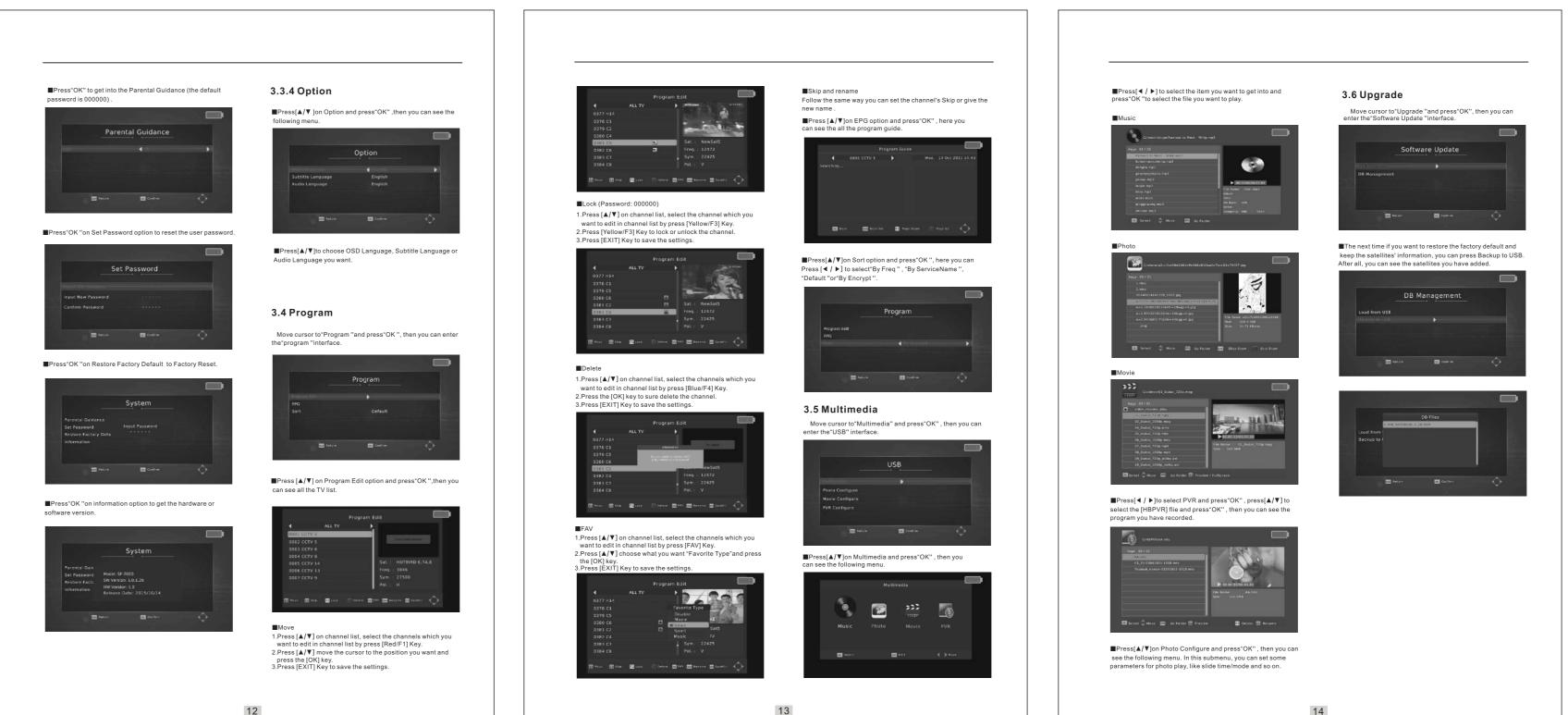
# 1.2 Accessories:

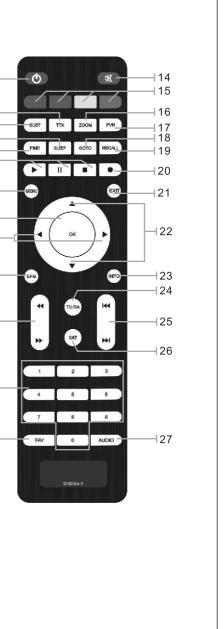
| 1.2 Accessories:          |    |
|---------------------------|----|
| Manual                    | x1 |
| Power Adapter             | x1 |
| Power Line                | x1 |
| Car Adaptor               | x1 |
| Connector F to F type     | x1 |
| Connector F to IEC type   | x1 |
| Connector BNC to AV       | x1 |
| AV Cable                  | x2 |
| Remote Control Unit (RCU) | x1 |
| Device Bag                | x1 |
|                           |    |
|                           |    |
|                           | 4  |

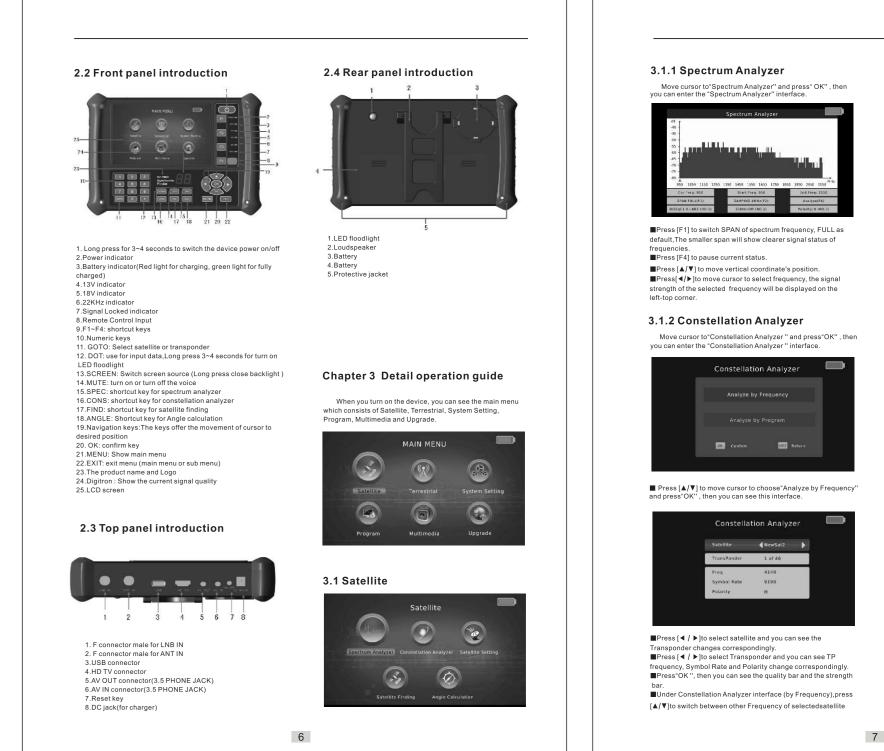
## Chapter 2 Introduction of panel function

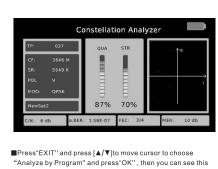
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| 2.1 Remote Control(RCU)                        |          |
|------------------------------------------------|----------|
| 1.Power                                        |          |
| <ol><li>Show the teletext content if</li></ol> | 1⊢       |
| teletext is transmitted                        |          |
| 3.Subtitle Language                            | 2⊢       |
| 4.Sleep                                        | 3⊢<br>4⊢ |
| 5.Find                                         |          |
| 6.Play 、Stop and Pause<br>7.Main Menu          | 5⊢<br>6⊢ |
| 3.Confirm the highlighted menu item.           |          |
| Open the channel list                          | 7⊢       |
| 9.Left and Right                               | 8⊢       |
| 10.EPG                                         |          |
| 11.Fast Backward and Fast Forward              | 9⊢       |
| 12.Numeric Key(0-9)                            |          |
| 13.Favorite channel                            | 10⊢      |
| 14.Mute                                        |          |
| 15.Multi-colored buttons                       | 44 1     |
| 16.Zoom                                        | 11 ⊢     |
| 17.PVR                                         |          |
| 18.Photo Grid Show                             |          |
| 19.Recall                                      | 12⊢      |
| 20.Start Recording<br>21.Exit                  | 12       |
| 21.EXIT<br>22.Up and Down                      |          |
| 23.Display information                         | 401      |
| 24.TV/Radio                                    | 13⊢      |
| 25.Play previous item and Play next item       |          |
| 26.Satellite list                              |          |
| 27.Audio Language                              |          |
|                                                |          |
|                                                |          |
|                                                |          |
|                                                |          |
|                                                |          |
|                                                |          |
|                                                |          |









Under Constellation Analyzer interface (by Program), press [▲/▼]to switch between all the searched program.
 ■When a frequency with signal is detected(not locked yet), the I strength bar will be displayed on LCD. In the signal is locked, The signal quality bar will bedisplayed on the LCD. Meanwhile, the LOCK LED will light up.







| System Resources              |                                         |
|-------------------------------|-----------------------------------------|
| Main Processor                | 600M Hz based CPU                       |
| Flash Memory                  | 64M Bits                                |
| DDR SDRAM                     | 1024M Bits                              |
| Tuner/Front-end               |                                         |
| Tuner Type                    | DVB-S/DVB-S2                            |
| Input Connector               | F-type,Connector,Male                   |
| Frequency Range               | 950MHz~2150MHz                          |
| Signal Level                  | -65~-25dBm                              |
| Impedance                     | 75 Ω                                    |
| LNB Power & Polarization      | Vertical:+13V                           |
|                               | Horizontal:+18V                         |
|                               | Current:Max.500mA                       |
|                               | Overload Protection                     |
| DiSEqC Control                | Version 1.0/1.1/1.2/1.3,USALS Available |
| 22KHz Tone                    | Frequency:22±1KHz                       |
| Demodulation                  | QPSK,8PSK                               |
| Symbol Rate                   | 2~45Msps                                |
| Tuner Type                    | DVB-T/DVB-T2                            |
| Input Connector               | F-type,Connector,Male                   |
| Input Frequency               | (UHF)470-866MHz,(VHF)170-230MHz         |
| Signal Level                  | -82~-20dBm                              |
| Impedance                     | 750                                     |
| Demodulation                  | QPSK,16-QAM, 64-QAM, 256-QAM            |
| Bandwidth                     | 6,7,8 MHz                               |
| Power Supply                  |                                         |
| Input Voltage Adapter         | Free Voltage (100~240V AC 50/60Hz)      |
| Power Consumption             | 11W MAX                                 |
| Power charger output          | 14V DC 3.0A                             |
| Battery                       | 12.6V/4000mAh                           |
| Battery charging time         | 3~6H                                    |
| Battery standard discharging  | >5H                                     |
| time<br>A/V Data input/output | 1                                       |
| A/V IN/OUT                    | Video CVBS input/output                 |
|                               | Audio L/R input/output                  |
| Audio output                  | Built-in Loudspeaker                    |
| HD TV                         | VER1.3 interface,up to 1080p            |
| USB                           | 1*USB 2.0 slot Compatible for Host      |
| Transport Streem              | MPEG-2/4,H,264                          |
| Physical Specification        | •                                       |
| LCD Display                   | 5 inch                                  |

| Can't Power on     | Please battery charging                                 |
|--------------------|---------------------------------------------------------|
|                    | Please check the battery socket is loose                |
| Screen abnormal    | Please check the screen backlight is off                |
|                    | Please check the screen is input mode, press SCREEN key |
|                    | Restart or restore factory default                      |
| No signal          | Weak signal                                             |
|                    | LNB setup error                                         |
|                    | Cable line connection open circuit                      |
|                    | Antenna position shift                                  |
| No picture         | Please check if equipment connection are correct        |
|                    | Please check if Channel is available                    |
| io sound           | Please check speaker switch is set to off mode          |
| No sound           | Please check if low volume or mute                      |
| CU no response     | Please check the remoter                                |
| Charging exception | Please check charger                                    |
|                    | Please check the battery socket is loose                |
|                    | Please try new battery                                  |
| HDTV/AV abnormal   | Please check RCA line connection error or not in place  |
|                    | Please check HDTV line poor contact                     |
| output             | Please make sure if the TV is selected the correct mode |

