DIGITAL UHD COMBO METER USER'S MANUAL

Precautions

Please read this manual carefully before using your meter for the first time.

The technical specifications and operating methods included in this manual are subject to changes without notice. In case of any inquires after a period of usage, please contact the manufacturer.

Please charge the battery before using your meter for the first time. (Recommend 5 hours)

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GENERAL SAFETY:

Topics to be considered:

Please strictly follow the below mentioned instructions so as to prevent damage that can happen to you or your device.

Before cleaning your device, pull the power cord and turn it off via Key of Power on/off and clean it with dry cloth.

Do not use accessories or additional apparatus that are not recommended by manufacturer as they may damage the device and may void the guarantee. When moving your device, protect it against impacts and falls otherwise the device may be damaged. Carry your device certainly in its bag and never carry it in boxes such as toolkit and together with the equipment that may possibly damage the device; otherwise, device will not be covered by guarantee.

Do not use your device outdoor so as to protect your device against liquid contact during rainy and snowy weather. Liquid contact may damage your device and device is not covered by guarantee.

When connecting your device with LNB, please be careful against short circuit; otherwise, LNB and your device may be damaged.

Service-related topics :

Do not attempt to repair your device on your own. When you open the cover of your device, it will not be covered by guarantee. For all services related to device, keep in contact with your seller or technical service.

INTRODUCTION

Digital satellite finder is simple and convenient for setting and aligning a satellite dish. With the parameters of satellite, you can set and align a satellite dish quickly, easily and accurately.

Accessories

- 1. User's manual
- 2. Power Adapter
- 3. Power Cable
- 4. In-vehicle lighter charger adapter
- 5. Remote control
- 6.AV IN/OUT cable
- 7. BNC connector (Female)
- 8. Power convert cable



Due to your electrical charger adapter with 14 volt of output, you can ensure device to remain charged continuously and thanks to that, you can use your device in environments that do not have electricity. You can easily charge your device during your travel due to your lighter charger adapter in car. Keep lighter charger adapter away from situations such as compression, impact and overloading. Do not open it for the purpose of repair and examination.



Remote Control keys actions are same as the key on the device

A. Front panel



1. LCD Screen:

Shows menus and programs clearly

2. Flash light:

Torch light on the rear, by clicking once power key to turn on.

3. Battery Light:

Light is Red indicates the meter is being charge now. Light is Green indicates the meter is full charged

4. Power Light:

Indicates the Power status

Normally:

Green: the meter is power on Dim: the meter is power off

5. 5V-T/ 12V-T/ 24V-T Light:

Indicates ANT 5V ON/12V ON / 24V ON/OFF

6. LOCK-T/C:

This light will be on when Terrestrial signal or cable signal is locked.

7. LOCK-S:

This light will be on when Satellite signal is locked.

8. 22k/13v/18v light:

Indicates the mode of 22k/13v/18v

9. Spectrum:

Spectrum analyzer

10. 0/22K:

A quick key to switch 22K output on the DISH SETUP menu

11. H/V:

A quick key to switch 13/18V output on the DISH SETUP menu

12. FIND key:

Accesses easy satellite find menu that sets and aligns a satellite dish quickly.

13. Mute:

Quickly mute the beep alarm when signal is locked.

14. Screenshot:

Store the displayed as an image when USB disk connecting.

15. Function key:

Consist of 2 keys, F1-F2

F1: Changes the signal bar on DISH SETUP menu

F2: Actives DiSEqC 1.2 function on the DISH SETUP menu

16. T/R:

Selects and plays TV/RADIO channel in playing mode.

17. Arrow key and OK key:

Use Arrow key to browse the item, press OK key to select

18. EXIT key:

Exits from the present menu and backs to the previous on the device **19. MENU key :**

Enters and exits the main menu

20. POWER key:

For turn-on/ turn-off. To press and hold for 3 seconds to power

21. AHD:

For entering CCTV mode to receive the AHD signal.

22. Numerical key:

Enters numerical settings directly.

23. SAT>IP:

Receive the channel over an IP network from a SAT>IP sever.

24. LNB INPUT:

Satellite signal input port; connect directly to satellite antenna with coaxial cable

25. RF IN:

Antenna input connection port

26. HDMI :

Audio and video output socket for the high definition television set

27. AV IN/OUT :

Audio and video input/output socket

AV IN Audio L+ video

AV OUT Audio L+ Audio R+ video

28. HW OFF :

Reset. Turn off the device from hardware.

29. Charge port :

Connects with the charger cord.

30. 12V OUT :

12 Voltage output, can be used for CCTV camera

31. USB port :

Connects with USB disk for upgrade. Backup channel list.

32. Ethernet port :

For connecting the network to receive IPTV

33. Battery Cover :

Battery can be replaced easily

B. Shortcut key operation

1) 0/22K

A quick key to switch AV IN/OUT on the channel display.

A quick key to switch 22K output on the DVB-S/S2 Setup menu

2) H/V

A quick key to switch $13V\!/\!18V$ output on the DVB-S/S2 Setup menu

3) Spectrum

A quick key to display the spectrum information

4) FIND

A quick key to enter the S/S2 setup menu

5) T/R

Press TV/RADIO key in the playing mode to shift

6) **F1:**

 $\label{eq:F1} Press <\!\!F1\!\!> button to check the signal information when broadcasting program. The bar meter of Level , BER and C/N will display on the screen.$

 $Press <\!\!F1\!\!>$ again, Level and C/N value will display on the screen.

7) F2:

Press <F2> button when broadcasting program. The following picture will be displayed:

| ContextMenu Satellite Audio Sound Stereo Sattery indicator On Sieep Ott | Satellite Audio ound Stereo attery indicator On | Satellite Audio |
|--|--|--------------------|
| Sound Stereo Satlery indicator On | ound Stereo attery indicator On | |
| Sattery indicator On | attery indicator On | und Stereo |
| | | |
| Sleep Of | eep Of | ttery indicator On |
| | | ep Of |
| | | |
| | | |

- Select the satellite, then the satellite information will be displayed.
- Select the Sound by pressing LEFT/RIGHT button to choose the sound
- Select the battery indicator by pressing LEFT/RIGHT button to display the battery information on the right top corner of the screen
- Select the Sleep by pressing LEFT/RIGHT button to setup the sleeping time.

8) Volume:

Press the <Left/Right> button to adjust the volume.

9) Screen shot

With the screen shot function you could store the device displayed measured values as an image file.

To save images, a USB disk must be connected to the device. Press screenshot button, The image will be saved as a JPG file in the USB Disk

10) Mute

Press mute button to mute the beep of lock alarm when signal is locked.

11) AHD

Press AHD button to enter the CCTV function for receiving AHD signal quickly.

12) SAT>IP

Press SAT>IP button to receive the channel over an IP network from a SAT>IP sever.

13) Torch light

Click power button once for lighting the torch. Click power button once again for turning off the torch

C. Power ON/OFF the equipment

This finder meter is designed for using as a portable equipment, it does not require any previous installation.

Power on:

- Press and hold the Red power button for three seconds.
- When the boot-up logo displayed on the screen, then release the power button.
- The boot-up image will be keeping displayed.
- After the system loading, the language selecting menu appears.

Power off:

- Press and hold the Red power button for three seconds.
- When the screen and green indicator (POW) goes off, then release the power button, which returns to its rest position.

Reset:

• Press the HW OFF button on the top of the equipment, it will be turned off automatically. Use only in case of system crash or fast shutdown.

D. Menu Operation Guide

Press Menu key on the Keypad to display the main menu. The Main menu consists of 9 menu options as shown below .



Use the arrow keys to move the cursor in the menu.

Use OK key to confirm the selection.

To escape the menu system at anytime, press EXIT key.

1. DVB-S/S2 SETUP

Press OK on **DVB-S/S2 setup**, then the following menu appears.

| DVB-S | S/S2 SETUP |
|----------------|--|
| Satellite | (ChinaSat 6B) |
| LNB 5,150 GHz | LNB 5 |
| Dish Position | DiSEqC Input 1 |
| Frequency | 3892 V 4420 |
| Network Search | Off |
| TP Scan | All |
| Sat Scan | All |
| Level | 57.2% |
| | um T/R: Mute DiSEqC V1.0: 1 Instellation G MULTI TP |

 Satellite: Press <OK> button to display the satellite list. Search the satellite by pressing <Left/Right> button and press <Up/Down> to select the satellite. Press <OK> to confirm your selection.

| DVB-S/ | S2 SETUP |
|----------------|-------------------------|
| Satellite | Satellite |
| LNB 5,150 GHz | 1 NSS 9/Yamal 3177.0W |
| Dish Position | 2 Star One C2/C4 70.0W |
| Frequency | 3 Star One C2/C4I 70.0W |
| Network Search | 4 AMC 4Ku 67.0W |
| TP Scan | 5 Star One C1 65.0W |
| Sat Scan | 6 Star One C1Ku 65.0W |
| our court | 7 Telstar 14RKu 63.0W |
| | 8 EchoStar 12/16/61.5W |
| | 9 Amazonas 2/3/4 61.0W |
| | |
| Rename | Delete |

2) LNB: Press <Left/Right> button to select proper LNB type according to your physical LNB type.

Press<OK> button to setup LNB configuration as below picture

| LNB | LNB 5 | | |
|----------------|-----------|--|--|
| L.O. Frequency | 5,150 GHz | | |
| LNB Voltage | 13/18 | | |
| LNB Dish | Fixed | | |
| DiSEqC Switch | V1.0 | | |
| DiSEqC Input | 14 | | |
| DISEqC Repeat | 1 | | |
| 22KHz Switch | 0/22K | | |

- a. LNB: Use <Left/Right> button to select the LNB
- **b. L.O. Frequency:** Enter the proper LNB frequency referring to your LNB by using the numeric key on the keypad.
- c. LNB Voltage: Use <Left/Right> button to select the LNB power.
- **d.** LNB Dish: Use <Left/Right> button to select the dish type, Fixed or Moved
- e. DiSEqC Switch: Use <Left/Right> button to select DiSEqC type
- f. DiSEqC Input: Use <Left/Right> button to select the port number to get the RF signal from the LNB ,which is connected .to DiSEqC switching box .Range 1~4.
- g. DiSEqC Repeat: Number of repeat of the DiSEqC command.
- h. 22KHz Switch: Use <Left/Right> button to select switch 22KHz

3) Dish Position: First press OK button on LNB to enter LNB CONFIGURATION. Select LNB Dish to Moved by using LEFT/RIGHT button as below picture.

| LNB | LNB 1 | |
|----------------|---------------------------|-----|
| L.O. Frequency | 9,750/10,600 | GHz |
| LNB Voltage | 13/18 | |
| LNB Dish | Moved | 1 |
| DiSEqC Switch | Off | |
| DiSEqC Input | 2 | |
| DiSEqC Repeat | | |
| 22KHz Switch | 0/22K | |

And then return to DVB-S/S2 SETUP menu, press OK button on Dish Position to setup DiSEqC 1.2/USALS, as below Picture



| Satellite | | • | ChinaSa | at 6B) | |
|------------|---------|---------|----------|---------|--|
| Transpond | ar 🛛 | | 3840 H 2 | 27500 | |
| Continuous | ly Move | | | | |
| Move Steps | 6 | 1 | | | |
| Step Size | | | | | |
| Limit Set | | Disable | | | |
| Other Com | nands | GOTO nn | | | |
| USALS | | Off | | | |
| Level | | | | 51,4% | |
| Quality | C | | | 74.9% | |

| Satellite: | Use < Left/Right> button to select the satellite | | | |
|-----------------|--|--|--|--|
| | or Press OK button to select the Satellite | | | |
| Transponder: | Use< Left/Right> button to select the | | | |
| | transponder. Press OK button to display TP list. | | | |
| Continuously | Use < Left/Right> button to move positioner | | | |
| Move: | and press OK button to save current position. | | | |
| Move Steps: | Use< Left/Right> button to move positioner | | | |
| | by step and press OK button to save current | | | |
| | position. | | | |
| Step Size: | Use< Left/Right>button to setup one step size. | | | |
| Limit Set: | Use< Left/Right>button to select East/West | | | |
| | limit or disable limit. | | | |
| Other Commands: | Use <left right="">button to select the command</left> | | | |
| | and press OK button to execute command. | | | |
| | | | | |
| USALS: | Use <left right="">button to select ON/OFF and</left> | | | |
| | press OK button set user position. | | | |

4) Frequency : Press <OK> button to display the Frequency list .Select the Frequency you want by pressing LEFT/RIGHT button or UP/DOWN button. Press <OK> to confirm your selection . You also can Edit, Add, Delete and PID the stored frequency very easily, as following picture shows.

| DVB-S/S | 2 SETU | JP | | |
|----------------|--------|------|-----|-------|
| Satellite | TP | Freq | Pol | SR |
| LNB 5,150 GHz | 1 | 3600 | V | 27500 |
| Dish Position | 2 | 3640 | V | 27500 |
| Frequency | 3 | 3680 | v | 27500 |
| Network Search | 4 | 3709 | н | 10920 |
| TP Scan | 5 | 3740 | ٧ | 27500 |
| Sat Scan | 6 | 3750 | H | 10490 |
| Jai Joan | 7 | 3769 | H | 13400 |
| | 8 | 3780 | ٧ | 27500 |
| | 9 | 3796 | H | 6930 |

 Edit: Press <Red(0/22K)> button to edit Frequency using the numeric keys. Press UP/DOWN key to select "Pol". Press <OK> button to confirm the operation and save the result

| DVB-S/ | S2 SETL | JP | | |
|------------------------|-------------|------|-----|-------|
| Satellite | TP | Freq | Pol | SR |
| LNB 5,150 GHz | | 3880 | H | 27500 |
| Dish Position | 21 | 3885 | V. | 4340 |
| Frequency | 22 | 3892 | V. | 4420 |
| Network Search | 23 | 3903 | V. | 9300 |
| TP Scan | 24 | 3913 | v | 6400 |
| Sat Scan | 25 | 3920 | H | 27500 |
| Ser Starr | 26 | 3929 | v | 8840 |
| | 27 | 3940 | v | 5948 |
| | 28 | 3950 | H | 11406 |
| F1: MULTI TP, Press F2 | to coloct T | 8 | | |

(2) Add: Press <Green (H/V)> button to add Frequency using the numeric keys .Press UP/DOWN key to select "Pol". Press <OK> button to confirm the operation and save the result

| 18 April 2017 / 09 : 51 | = 87.7% |
|---|---|
| DVB-S/S | S2 SETUP |
| Satellite LNB 5,150 GHz Dish Position Frequency Network Search TP Scan Sat Scan | TP Freq Pol SR 44 4192 V 6000 0 H 0 |
| F1: MULTI TP. Press F2 Edit GAdd | to select TP Delete PID |

③ Delete: Press LEFT/RIGHT or UP/DOWN button to select Delete option. Press <Yellow(Spectrum)> button to set delete status. You will see a confirmation massage ,Please <OK> to delete or <EXIT> to cancel the operation and save the result.

| | DVB- | S/S2 S | ETL | IP | | |
|-----------|-----------|-----------|--------|------|-----|-------|
| Satellite | | - | тр | Frea | Pol | SR |
| LNB | | - m | - Wi | | | 27500 |
| Dist | An | e vou su | ne ? | | | 27500 |
| Fred | | 104.00 | | | | 27500 |
| Netv | OK:Del | ete, EXIT | Can | :ef | | 10920 |
| TP 1 | | | | | | 27500 |
| Sat Scan | | | 6 | 3750 | H | 10490 |
| Ser Scan | | | | 3769 | H | 13400 |
| | | | 8 | 3780 | V | 27500 |
| | | 1 | 9 | 3796 | н | 6930 |
| F1: MULTI | TP. Press | F2 to se | lect T | p. | | |
| | Add | | elete | | PID | |

 (4) PID: Press the <Blue(Find)>button to show the PID information for the frequency

- 5) Network search: Use <Left/Right>button to choose ON/OFF
- 6) **TP SCAN:** Scan transponders one by one. Press OK to start scan channel.

| P | rogram Search |
|--------------|---------------|
| TV:0000 | Radio:0000 |
| | |
| | |
| | 1.1.1.W |
| 474MHz BW[8M | Hz] 1 / 1 |

7) SAT SCAN: Scan all the transponders in one satellite (these transponders have been set)

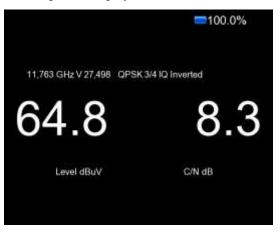
Note: In the course of signal searching, you can see the bar meter of the LEVEL and QUALITY, at the same time the LOCK light will come on with the speaker notification. DiSEqC will indicate which port is connected to the DiSEqC 1.0 switch

8) Signal Information

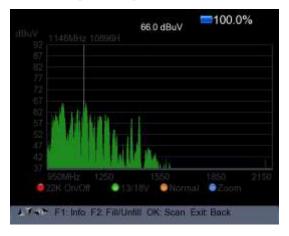
Press F1 to display the signal information
 You can see the bar meter of the LEVEL and C/N.
 Use <Left/Right> or mute button to adjust beep alarm volume.

| Level | 77 dBuV | 70% |
|-------|-----------|----------------------|
| C/N. | 1152-5 dB | 80% |
| aFER | BER | 1.22E-04 32.019dB |

> Press F1 again to display the Level and C/N value.



> Press F2 to display the spectrum information

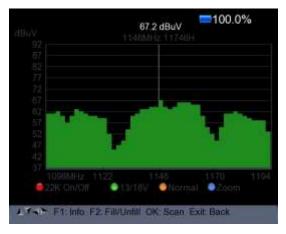


- 1) Press <Red(0/22K) button to turn on / turn off the 22KHz control.
- 2) Press<Green (13/18V)> button to shift between 13/18V.
- 3) Press<Left/Right>button to move Frequency
- 4) Press <Yellow(Spectrum)> button to display following picture:

| 87 82 77 72 67 67 67 57 57 57 47 47 47 | End Freq | 950 MHz 20150 MHz 2 ~ 2150MHz | |
|--|----------|-------------------------------------|------|
| | | 1550 18V ONormal | 2160 |

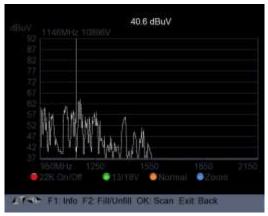
You can change parameters such as Start frequency and end frequency by using the numeric keys

5) Press <Blue(Find)> button to zoom in/out the frequency as following picture:

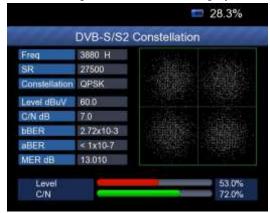


6) Press F1 button to display the info of the signal

7) Press F2 button to fill or unfill the spectrum display as following picture.



Press <Yellow(Spectrum)> button to display the constellation



9) MULTI TP: Press the <Blue(Find)> button to display multi TP

| Fri | an/MHz | Symbol | Pol | Modulatio | n Level(dBu | V/C/N/dB | x |
|-----|--------|--------|-----|-----------|-------------|----------|---|
| 20 | 3880 | 27500 | Н | DVB-S | 57.6 | 0.0 | |
| 21 | 3885 | 4340 | v | DVB-S | 53.8 | 9.6 | ¥ |
| 22 | 3892 | 4420 | v | DVB-S | 54.4 | 6.2 | * |
| 23 | 3903 | 9300 | v | DVB-S | 54:2 | 8,4 | * |
| 24 | 3913 | 6400 | v | DVB-S | 56.0 | 7.8 | ¥ |
| 25 | 3920 | 27500 | н | | | | |
| 26 | 3929 | 8840 | v | | | | |
| 27 | 3940 | 5948 | N | | | | |

2. DVB-T/T2 SETUP

Press OK on **DVB-T/T2 setup** then the following window appears.

| DVB-T | T2 SETUP |
|----------------------|-------------------------------|
| | |
| Frequency | 4 E21 474MHz) |
| Band Width | 8MHz |
| Antenna setting | Power Off |
| Network Search | On |
| TP Scan | All |
| Auto Scan | All |
| 64QAM Guard=1/4 Mc | ode=2K FEC=7/8 |
| Level C/N | 77dBuV 30.6dB |
| F1: Mode F2: Spectru | um T/R: MUTE Constellation |

1) Frequency:

Press <Left/ Right> button to select the frequency and the corresponding bandwidth will be showed on the screen.

Press <OK> button to enter the Frequency list. Press <Up/Down> button to select frequency one by one, press <Left/Right> button to select page by page.

| DVB- | T/T2 SETU | IP | |
|-----------------|-----------|------|------------|
| Frequency | CH | Freq | Band Width |
| Band Width | E21 | 474 | 8MHz |
| Antenna setting | E22 | 482 | 8MHz |
| Network Search | E23 | 490 | 8MHz |
| TP Scan | E24 | 498 | 8MHz |
| Auto Scan | E25 | 506 | 8MHz |
| | E26 | 514 | 8MHz |
| | E27 | 522 | 8MHz |
| | E28 | 530 | 8MHz |
| | E29 | 538 | 8MHz |
| Sedit Add | Delete | | PID |

Edit frequency: Press <Red (Edit)> button to edit the frequency by numeric numbers. Press <Up/Down> button to select the Band Width. And then Press <OK> button to confirm the operation and save the result. Or press< EXIT> button to cancel the operation.

| | DVB- | T/T2 SETU | P | |
|--------|------------|--------------|------|------------|
| Frequ | ency | CH | Freq | Band Width |
| Band | Width | E62 | 802 | 8MHz |
| Anten | na setting | E63 | 810 | 8MHz |
| Netwo | rk Search | a service of | 818 | 8MHz |
| TP Sc | an | E65 | 826 | 8MHz |
| Auto S | Scan | E66 | 834 | 8MHz |
| | | E67 | 842 | 8MHz |
| | | E68 | 850 | 8MHz |
| | | E69 | 858 | 8MHz |
| e Edit | 🖷 Add | Delete | | PID |

Add frequency: Press <Green (Add)> button to add the frequency by numeric numbers. Press <Up/Down> button to select the Band Width. And then Press <OK> button to confirm the operation and save the result. Or press< EXIT> button to cancel the operation.



Delete frequency: Press <Left/ Right> button to select option, and then press <Yellow (Delete)> button, you will see the confirm message. Press <OK/EXIT> button to delete or cancel this operation.

| DVP | 2MUR OF CHARMEN | 100 | |
|--------|-----------------|--|--|
| DVD- | T/T2 SETU | P | |
| Ξ¥. | CH | Frea | Band Width |
| | | | 8MHz |
| An | e you sure ? | | 8MHz |
| | | | 8MHz |
| OK:Del | ete, EXIT:Cano | el | 8MHz |
| | | | 8MHz |
| Add | Delete | • | 210 |
| | Ar OK:Del | Are you sure ? OK:Delete, EXIT:Canc | Are you sure ? OK:Delete, EXIT:Cancel |

PID infomation: Press <Blue(PID)> button to check the PID information of the Frequency.

| Band Width Antenna setting | 2H =67 /-PID | Freq 760 | Band Width |
|--|--------------------|-------------------|----------------------|
| Antenna setting | Contract of | 787 | OLILIA |
| The second s | /-PID | | |
| Network Search | | 8191 | MPEG2 |
| | A-PID | 8191 | MPEG |
| TP Scan | P-PID | 8191 | |
| | E62 E63 E64 | 802 810 818 | 8MHz 8MHz 8MHz |
| | 65 | 826 | 8MHz |

2) Antenna setting:

Press <Left/Right> button to select antenna power 5V/12V/24V

3) Network Search:

Press <Left/Right> button to select Network Scan mode ON/OFF.

4) Scan the possible frequency and bandwidth to receive the programs, then Press <Up/Down> button to TP Scan or Auto Scan.

Note: In the course of signal searching, you can see the bar meter of the LEVEL and C/N, at the same time the LOCK light will come on with the speaker notification

• TP Scan:

Scan transponders one by one on default frequency and bandwidth.

- Press <Up/Down> button to TP Scan.
- Press <Left/Right> button to select TP Scan mode.
- Press <OK> button, one message box will be displayed

| | DVB-T/T | 2 SETUP | | |
|-------------------------------|------------|-------------|-------|------------------|
| Frequency | 1 | E21 | 4740 | //Hz |
| Band Wetth | 2 | | 10MHz | |
| Antenna Network TP Scal | OK: Scan; | Exit Abort | | жя • |
| Auto Scan | Auto Scan | | All | |
| 64QAM Guard | d=1/4 Mode | =2K FEC=7/8 | 30 | |
| Level C/N | 0 | | | 77dBuV 32.0dB |
| F1: Mode F2 | Spectrum | T/R: MUTE | on i | |

Press <OK> button to delete the existing program and start the TP Scan. Or press <Exit> button to save the existing program and start the TP Scan.

| P | rogram Search | 10000 |
|-----------------------|---------------|-------|
| TV 0000 | Radio:0000 | |
| | | |
| | | |
| | | |
| 474MHz BW[8MH | Hz] | 1/1 |
| EXIT: Cancel Scan, OK | C Skip | |

• Auto Scan:

Scan all range of frequency and bandwidth.

It costs time to do Auto Scan, user can press <OK> to skip or <EXIT> to exit at anytime

- Press <Up/Down> button to Auto Scan.
- Press <Left/Right> button to select Auto Scan mode.
- > Press <OK> button, one message box will be displayed

| 01114 | SETU | P | |
|-------------|------------|---|---------------------|
| | E | 21 474 | MHz |
| | | RAAHZ | 4 |
| | | | Diff |
| K: Scan; E: | kit: Abort | i. | |
| | | | 1 |
| | 4 | All | |
| /4 Mode=2 | K FEC* | 7/8 | |
| | | - | 77dBuV |
| | | | 32.5dB |
| | | | |
| | | | |
| | /4 Mode=2 | K: Scan; Exit: Abor 4 Mode=2K FEC= bectrum T/R: MUT | C Scan, Exit: Abort |

Press <OK> button to delete the existing program and start the TP Scan. Or press <Exit> button to save the existing program and start the Auto Scan.

| -11 | | |
|-----------------------|---------------|-------|
| P | rogram Search | 10000 |
| TV 0000 | Radio:0000 | |
| | | |
| | | |
| | | |
| 474MHz BW[8M | Hz] | 1/1 |
| EXIT: Cancel Scan, Of | < Skip | |

5) Signal information:

Press F1 to display the signal information. You can see the bar meter of the LEVEL and C/N. Press <Left/Right> button to change volume, T/R button to mute.

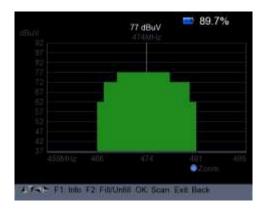
| RMATION | 1000 |
|---------|-------------------|
| 77 dBuV | 70% |
| 32.2 dB | 79% |
| BER | < 10E-07 |
| | 31.219dB 52MHz |
| | 32.2 dB BER |

6) Spectrum:

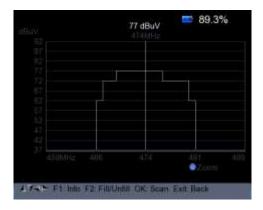
> Press F2 to display the spectrum information

| 67 | | |
|--------------------------|----------------|---------|
| 67 | | |
| ÷0. | | |
| 47. | | |
| 42 | | |
| 177.5 -220.5 474MF | 074M | neemala |
| | | ●Zoom |
| A FAIL F1 Into F2 FilbUn | an Dir Senn Se | a llack |

Press <Blue (Zoom)> button to zoom in/out the frequency



> Press F2 button to fill or unfill the spectrum as following picture.



7) Constellation:

Press <Yellow> button to display the constellation as below

| 1 | DVB-T/T2 | Curk | atto | liai | | - | | |
|---------------|----------|------|------|------|--|---|------------|--|
| Freq | 474 MHz | | | | | | | |
| Band Width | 8MHz | | | | | | | |
| Constellation | 54QAM | | | | | | | |
| Level dBuV | 67 | - f. | | | | | | |
| C/N dB | 26.8 | | | | | | | |
| bBER. | < 1x10-7 | | | | | | | |
| BER | < 1x10-7 | | | | | | | |
| MER dB | 29.819 | | | | | | | |
| Level C/N | | | | | | | 146 146 | |

3. DVB-C SETUP

Press OK on the **DVB-C setup**, then the following figure appears.

| DVB-0 | CSETUP |
|--------------------------------|------------------|
| Frequency | E24 498MHz |
| Symbol Rate | 6875 Ksps |
| Constellation | 64QAM |
| Network Search | On |
| TP Scan | All |
| Auto Scan | All |
| Level C/N | 68dBuV 39.8dB |
| F1: Mode F2: Spectrur 0/13V | n T/R: MUTE |

1) Frequency:

Press <Left/ Right> button to select the frequency and the corresponding Symbol rate and Constellation will be showed on the screen automatically.

Press <OK> button to enter the Frequency list. Press <Up/Down> button to select frequency one by one, press <Left/Right> button to select page by page

| DVB | -C SET | UP | | |
|----------------|--------|------|-------|------------|
| Frequency | CH | Freq | SR | Constellat |
| Symbol Rate | E24 | 498 | 6875 | 64QAM |
| Constellation | E25 | 506 | Auto | Auto |
| Network Search | E26 | -514 | Auto | Auto |
| TP Scan | E27 | 522 | Auto | Auto |
| Auto Scan | E28 | 530 | Auto | Auto |
| | E29 | 538 | Auto | Auto |
| | E30 | 546 | Auto | Auto |
| | E31 | 554 | Auto | Auto |
| | E32 | 562 | Auto | Auto |
| Sedit Sedit | Dele | fe. | e Pit | i |

Edit frequency: Press <Red (Edit)> button to edit the frequency by numeric numbers. Press <Up/Down> button to select the Band Width. And then Press <OK> button to confirm the operation and save the result. Or press< EXIT> button to cancel the operation.

| Frequency | - P.1 | CH | Freq | | Constellati |
|----------------|-------|-----------|-------|--------------|-------------|
| Symbol Rate | | 21 | | 6875 Auto | |
| Constellation | | 22 | | Auto | |
| | | Z3 | 136.5 | Auto | Auto |
| Network Search | | Z4 | 142.5 | | |
| TP Scan | | Z5 | 149.5 | | |
| Auto Scan | | Z6 DS6 | | Auto | Auto |
| | | DSS | 170.5 | Auto | Auto |

Add frequency: Press <Green (Add)> button to add the frequency by numeric numbers. Press <Up/Down> button to select the Band Width. And then Press <OK> button to confirm the operation and save the result. Or press <EXIT> button to cancel this operation.

| DV | B-C SET | UP | - | |
|--|---------|----------|--------------|-----------|
| Frequency | СН | Fred | SR | Constella |
| Symbol Rate Constellation Network Search | E69 | 858 0 | Auto 6875 | |
| TP Scan Auto Scan | | | | |
| | | | | |
| 🖲 Edit 🛛 🖨 Add | Dele | te | • PI | 1 |

Delete frequency: Press <Left/ Right> button to select option, and then press <Yellow (Delete)> button, you will see the confirm message. Press <OK/EXIT> button to delete or cancel this operation.

| | DVD | CET | 10 | | |
|-----------|---------|-------------|-------|------|---------------|
| - | DVB | -C SET | JP | | in particular |
| Frequency | i. | CH | Frea | SR C | onstellat |
| Sym | | | | | Auto |
| Con | Are | you sure ' | ? | | Auto |
| Netv | | | | | Auto |
| TP 5 | OK:Dele | ste, EXIT:C | ancel | | Auto |
| Auto | | | | | Auto |
| | | S03 | 115 | Auto | Auto |
| | | S04 | 123 | Auto | Auto |
| | | S05 | 131 | Auto | Auto |
| | | S06 | 139 | Auto | Auto |
| | | | | | |
| Edit | a Add | Delet | te | PID | |

Press <Blue(PID)> button to check the PID information of the Frequency.

| DVB | -C SETUP | |
|----------------|----------|-----------------|
| Frequency | CH Freq | SR Constella |
| Symbol Rate | S.6 526 | Auto Auto |
| Constellation | V-PID 81 | 91 MPEG2 |
| Network Search | A-PID 81 | 91 MPEG |
| TP Scan | P-PID 81 | 91 |
| Auto Scan | 525 1/25 | 1 10100 1 10110 |
| | S03 115 | Auto Auto |
| | S04 123 | Auto Auto |
| | S05 131 | Auto Auto |
| | S06 139 | Auto Auto |
| Edit 🔹 Add | Delete | PID |

2) Network Search:

Press <Left/Right> button to select Network Scan mode ON/OFF.

3) TP Scan:

Scan transponders one by one on default frequency and bandwidth.

- Press <Up/Down> button to TP Scan.
- Press <Left/Right> button to select TP Scan mode.
- > Press <OK> button, one message box will be displayed

| | DVB-C | SETUP | | |
|--------------|-----------|------------|-------|----------------|
| Frequency | | S-6 | 52.5M | Hz |
| Symbol Pate | | | Auto | _ |
| Constel | | | | |
| Network | OK: Scan; | Exit Abort | | |
| TP Scal | | | | |
| Auto Scan | | | All | |
| Level C/N | - | | | 0dBuV 0.0dB |

Press <OK> button to delete the existing program and start the TP Scan. Or press <Exit> button to save the existing program and start the TP Scan.

| 18 April 2017 / 14 : 26 | +77.73C | 100.0% |
|-------------------------|--------------|----------|
| INFO | ORMATION | 1000 |
| Lovel | 67 dBuV | 60% |
| C/N | 39.8 dB | 94% |
| PER < 10E-07 | BER | < 10E-07 |
| 498MHz | 64QAM 6875 I | Ksps |
| | | |
| F1 Mode OK Scan | Exit: Block: | T/R MUTE |

4) Auto Scan:

Scan all range of frequency and bandwidth.

It costs time to do Auto Scan, user can press <OK> to skip or <EXIT> to exit at anytime

- > Press <Up/Down> button to Auto Scan.
- Press <Left/Right> button to select Auto Scan mode.
- > Press <OK> button, one message box will be displayed

| | DVB-C | SETU | | | |
|--------------|------------|-----------|--|------------------|--|
| Frequency | | | E24 498MHz | | |
| Symbol Rate | 2 | RR75 Ksps | | 0 5 | |
| Constel | | | on a subsection of the section of th | A. | |
| Network | OK: Scan; | Exit: Abd | irt | | |
| TP Scal | | | | | |
| Auto Scan | | 4 | All | | |
| Level C/N | | | | 72dBuV 39.3dB | |
| F1: Mode F2 | : Spectrum | T/R: ML | TE | | |
| 0/13V | | Conste | llation | | |

Press <OK> button to delete the existing program and start the TP Scan. Or press <Exit> button to save the existing program and start the TP Scan.

| | 📼 20.2% 🍠 | |
|-----------------------|---------------|--|
| P | rogram Search | |
| TV:0000 | Radio:0000 | |
| | | |
| | | |
| | | |
| 498MHz | 171 | |
| EXIT: Cancel Scan, OK | Skip | |
| TRANSPORT STREET | | |

5) Signal information:

Press F1 to display the signal information. You can see the bar meter of the LEVEL and C/N. Press <Left/Right> button to change volume, T/R button to mute.

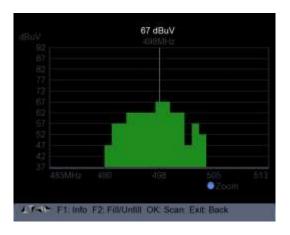
| 18 April 2017 / 14 : 26 | +77.73C | 100.0% |
|-------------------------|------------|---------------|
| INFO | ORMATION | |
| Level | 67 dBuV | 60% |
| CN | 39.8 dB | 94% |
| PER < 10E-07 | BER | < 10E-07 |
| 498MHz | 64QAM 6875 | Ksps |
| | | |
| F1 Mode OK Scan E | Exit Back | T/R MUT |

6) Spectrum:

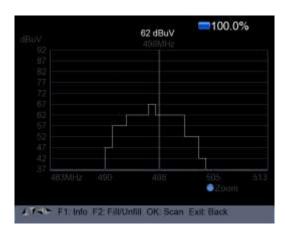
| | 408MHz | |
|--|-------------|----------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | 868MH Cocim |
| | OK: Scan Ex | |

> Press F2 to display the spectrum information

Press <Blue (Zoom)> button to zoom in/out the frequency as following picture



Press F2 button to fill or unfill the spectrum as following picture.



7) Constellation:

Press <Yellow(constellation)> button to display the constellation diagram as following picture.

| Freq | 498 MHz | | | | |
|---------------|-----------|--|--|--|--|
| SR | 6875 Ksps | | | | |
| Constellation | 64QAM | | | | |
| Level dBuV | 72 | | | | |
| C/N dB | 39.8 | | | | |
| bBER | <1x10-7 | | | | |
| aBER | <1x10-7 | | | | |
| | 30.019 | | | | |

4. SPECTRUM

- Satellite Spectrum
- Terrestrial Spectrum
- Cable Spectrum



Reference the spectrum function in the DVB-S/S2, DVB-T/T2 and DVB-C SETUP menu.

Satellite - Constellation
Satellite - Constellation
DVB-S/S2 Constellation
DVB-T/T2 Constellation
DVB-C Constellation
Cable - Constellation

Reference the Constellation function in the DVB-S/S2, DVB-T/T2 and DVB-C SETUP menu.

6. CCTV MONITOR

Press AV IN/OUT button to activate the CCTV monitor function when the camera is connecting with the meter.

The following diagram is the connecting instruction.



NOTE: This function just can be working when the camera is connecting.

7. NETWORK

Ethernet cable must be connected when using this fucntion. Press OK on NETWORK to enter the network setting.

| Net | work Setting |
|-------------|------------------|
| Device | Wired Ethernet |
| Mode | On |
| Туре | Static IP |
| IP Address | 192 168 6 .117 |
| Subnet Mask | 255 255 255 0 |
| Gate Way | 192 168 6 1 |
| DNS1 | 202.96 .128.68 |
| DNS2 | 0 0 0 |
| MAC | 00 00 DE AD BE E |
| | Unplug ! |

Network will be connected after your correct setting. As following picture displayed.

| Device | Wired Ethernet |
|-------------|--------------------------|
| Mode | On |
| Туре | DHCP |
| IP Address | 192 168 6 116 |
| Subnet Mask | 255 . 255 . 255 . 0 |
| Gate Way | 192 168 6 .1 |
| DNS1 | 192 168 6 .1 |
| DNS2 | 0 0 0 |
| MAC | 00 : 00 : DE: AD: BE: EI |
| | Connected ! |

7.1 SAT>IP

After the network setting, you can exit from the main menu, and then press SAT>IP button to enter the SAT>IP channel watching, as following picture displayed.



Press <Blue(Find)> button to enter the server information interface.

| ICON | |
|------------------|--|
| X_SATIPCAP | |
| UDN und | 48353835 3132-3736-3538-28578EED1488 |
| sarialNumber | 0420160323AACH585127668WCVU |
| modelNumber | DS-7804HGH-F1/M |
| modelName | DS-7804HGH-F1/M |
| modelDescription | Digital Video Recorder |
| manufacturerURI, | http://www.hikvision.com |
| manufacturer | hikvision |
| friendlyName | DS-7804HGH-F1/M 192.168.6.113 |
| deviceType | urn schemas-upnp-org device EmbeddedN |
| LOCATION | http://192.168.6.113.80/upripdevicedesc.xm |

And then press OK button to search the SAT>IP channel list. In this moment, also you can connect a USB disk to the meter. After the channel list searching, there is a copy file of the list will be created in the USB disk with the name of M3U.



Also the meter can read the channel list from the USB disk if you have ever stored or created a list in the USB disk before, and the list should be with file name M3U or file suffix m3u.

8. OTHERS

Press OK on OTHERS then the following window appears. The menu consists of 7 menu options as shown below:



Note: Some menu options relate to the USB and PVR function, external Hard-Disk-Drive must be connected to the USB port of the device.

8.1 MEDIA PLAYER



Check the information from the external hard drive which you connected to the meter.

Use <Up/Down> and OK button to select the recorded program for playing back and view the pictures.

8.2 HDD MANAGE

Select the **HDD MANAGE** in main menu and press OK. The following picture will be displayed.



1) Press the $\langle \text{Red}(0/22\text{K}) \rangle$ button to unmount the external hard drive

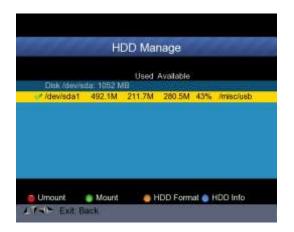
2) Press the <Green(H/V)> button to mount the external hard drive again.

3) Press the <Yellow(Spectrum)> button to format the external hard drive. A warning bar will be displayed as following picture.

| HD |)D Manage |
|----------|--------------------|
| Disk /de | Used Available |
| | ise Umount first I |
| | |
| | |
| | |
| | |
| | |

4) After unmount the external hard drive, press the YELLOW button again to format.

5) Press the <Blue(Find)> button to display the information of the hard drive. As following picture shown.



8.3 UPGRADE

This function can be used to store and update satellite data, Also can be used to upgrade main program of the meter.

8.3.1 Satellite information update

Connect a USB disk to the meter first, then you can enter the **UPGRADE** function. The following picture will be displayed.



1) Press the <Blue(Find)> button to backup the satellite information, satellite list, channel data and so on.

2) Press the $\langle \text{Red}(0/22\text{K}) \rangle$ button to display the firmware in the hard drive and press OK button to upgrade the firmware .

3) Press the <Green(H/V)> button to display the channel data in the hard drive and press OK button to upgrade the channel data.

4) Press the <Yellow(Spectrum)> button to display the all data including the firmware and channel data.

8.3.2 Main Program upgrade

After receiving the main software from supplier, put the software (IMX format) into the USB disk and connect to the device. Select the UPGRADE in the menu, following picture will be shown

Move the cursor to the IMX file and press OK, then the device starting to upgrade. After upgrading, the device will be power off automatically. You can power on the device again. Also, there is another way to upgrade the main software. Upgrade Software via USB port automatically.

1) Press $\langle ON/OFF \rangle$ Button ,turn off the device Then Insert USB disk .

2) Press <ON/OFF> button ,turn on the device ,The device will automatic identification the Software.

3) The LOCK light flashed, that is software upgrading now .

4) The LOCK light constant light. Software upgrade have been completed .

5) Press <ON/OFF> Button ,turn off the device, Pull out the USB disk. Upgrade was completed.

8.4 CHANNEL LIST EDIT

There are two types of program.One is TV and the other is Radio. The operation of the List and Guide at TV and Radio are the same. Press Menu button to display main menu. Select the Edit Channel List and press OK, If there are some programs stored in the Device. User will see the TV list menu as below :





You can manage the stored channels ,TV and Radio Channels. Sort, Fav, Edit and Delete them very easily.

1) To sort a channel:

(1) Locate the channel you want to sort. Press the $\langle \text{Red}(O/22K) \rangle$ button. You will get four ways to sort the channel by Name, Table, LCN and Manual .

(2) Press <Blue(FIND)> button, one message box will be displayed.



Input the serial number by using the numeric keys . Press the <OK> button .The channel will change sequence.

2) To set favorite channels : Press <Green(H/V)> button to set your favorite channes in Fav 1,2,3,4



3) To Edit Channels: Press <Yellow(Spectrum)> button to edit channels by Lock, Skip, Rename and Modify PID.



4) To delete channel: Press <Blue(FIND)> Button to delete the channel, the following picture will be displayed.



①Press Left /Right button to select page turning, Press Up/Down button to select the channel.

(2)Locate the channel you want to delete, and press $\langle \text{Red}(\text{O}/22\text{K}) \rangle$ button, the channel will be marked with the symbol "X".

③Repeat step 2 with those channels you want to delete.

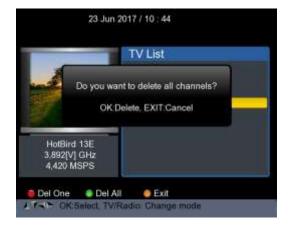
4 To confirm the deletion . Press EXIT twice, You will see a confirmation message .

⑤ Press OK key to confirm the deletion .or Press EXIT to cancel.



 $\label{eq:ress} $$ Press < Green(H/V) > button to delete all of the channels, You will see a confirmation message .$

Press OK key to confirm the deletion .or Press EXIT to cancel.



5) Channel Information

Use <UP/DOWN> or <LEFT/RIGHT> keys to move the cursor. In the meantime, Channel information: Satellite name, transponder information will be displayed on the left side .

8.5 TS RECORD

Connect the USB disk to the device, select the TS RECORD menu.

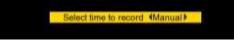


Press 0/22k red button start to record the program in TS format. Press H/V green button to stop the recording and the program will be saved to the USB disk automatically.

8.5.1 PVR function.

With the same function as the receiver, this Finder also has time shift and program recording function. USB memory device must be connected before using this function.

1. Press 0/22K button ,you will see the picture as below.



2. Then press <Right/Left> keys to select the recording time. And then press OK button to confirm the time for recording.



3. When the program is on recording, press H/V button, you will see the picture as below.



4. Then press the OK button to stop the recording. The recorded program will be saved to USB memory automatically.

5. Press AN/DG button to enter the recorded program menu. The following picture will be displayed.



Use <Up/Down> and OK button to select the recorded program for playing back.

NOTE: During recording you have the option to watch another channel, but it must be provided on the same TP. Otherwise, the following picture will be displayed.



The recording will be stopped when press OK button.

CAUTION: Do not disconnect the external hard drive while recording . It may cause damage to the recorded programs. The Finder will not display anything while the recording is on Terrestrial and Cable Program.

8.6 PARENTAL CONTROL

Select PARENTAL CONTROL to set a password to the device



8.7 ANGLE CALCULATION

Press OK on Angle Calculation then following window appears.

| ANGLE CALC | omonioses e san es |
|-------------------|--------------------|
| Satellite | NSS 9/Yamal 300K |
| Sat longitude | 177.0 |
| East/West | West |
| User latitude | 47.0 |
| North/South | North |
| User longitude | 2.5 |
| East/West | East |
| ANGLE CALCULATION | OK |
| | |
| | |

- Satellite: Use LEFT/RIGHT button to select the satellite or Press OK button to select the Satellite.
- 2) Sat longitude: Use numerical button to enter satellite position.

- East/West:Use LEFT/RIGHT button to select satellite position is East or West.
- 4) User latitude: Use numerical button to enter latitude of your position.
- 5) North/South: Indicate if latitude is North or South.
- 6) User longitude: Use numerical button to enter longitude of your position.
- 7) East/West: Indicate if longitude is East or West.
- 8) ANGLE CALCAULATION: Press OK button to calculate azimuth and elevation of dish.

9. SYSTEM SETUP

Press OK on SYSTEM then the following window appears.

| SYSTE | M SETL | IP | |
|--------------------------|-----------|---------|---|
| Menu language | • | English |) |
| Transparency | 1 | 0 | |
| Time zone | | GMT+2 | |
| Display Format | | Ignore | |
| HDMI Video Format | 1080 | | |
| LCN Switch | | On | |
| Factory Reset | | OK | |
| Model:UHD-STC FINDER | H/W 1.0 | 0. | |
| S/W: 1.1-8002-17.4.22.11 | Uptime: 4 | 16m43s | |

- 1) Menu language: Press <Left/Right> button to Select the desired language for menu
- 2) Transparency: Press <Left/Right> button to adjust the OSD transparency of all the menu of the receiver.
- **3) Aspect Ratio:** Press LEFT/RIGHT button to choose 4:3, 16:9 (wide screen) and auto.

4) Display Format: If you select the display aspect ratio as "4:3", then also the preferred aspect ratio conversion scheme for cases in which the transmitted Programme is in "16:9" format can be chosen.

The options are:

- Pan & Scan: The receiver interprets pan & scan vectors encoded in the Programme and crops the 16:9 input signal for display on 4:3 TV.
- ② Letterbox: In this mode the original aspect ratio of the 16:9 input video signal is preserved, thus there are vertical black bars on the top and bottom of the screen.
- ③ Ignore: Use this setting, if your TV set handles the aspect ratio conversion.
- 5) Video Format: Please choose from the available resolutions 1080p / 1080i, 720p or 576p.
- 6) Factory reset: Select Factory reset and Press <OK>button to start reset, You will see a dialog box display on the screen ,The default password is 0000, When the correct password is entered. The device factory reset automatically .All Parameters are reset to Factory Programming.

| SYSTE | M SETUP |
|---|---|
| Menu language | English |
| Transpi Time zc Enter PIN | 2 |
| Display HDMI Video Format | 1080i |
| LCN Switch Factory Reset | On OK |
| Model UHD-STC FINDE Last Update: 2017 4 17 | |
| | R S/W:1.0-8001 H/W:1.0 10 Uptime: 23m10s |

| E. Itelinical S | pecifications | | | |
|---------------------|---|---|--|--|
| System capabilities | Fully DVB compliant | Yes | | |
| | Connector | F type | | |
| | Frequency Range | 950MHz-2150 MHz | | |
| LNB/TUNER | Signal Level | -65dBm~~-25dBm | | |
| Input | LNB supply | 13/18V.,max500mA | | |
| | LNB Switch control | 22KHz | | |
| | DiSEqC | Ver 1.0 / Ver 1.1/Ver 1.2 | | |
| | Front End | S: QPSK | | |
| 6/62 | Front End | S2: QPSK, 8PSK | | |
| S/S2 | Symbol Rate | 1 <rs<45m band<="" td=""></rs<45m> | | |
| Demodulator | SCPC and MCPC | Yes | | |
| | Spectral inversion | Auto conversion | | |
| | Connector | F type | | |
| RF TC/TUNER | Frequency Range | 48MHz-862 MHz | | |
| Input | Signal Level | -87dBm~~-20dBm | | |
| | ANT supply | 5V/12V/24V., max50mA | | |
| | | T2: QPSK,16QAM,64QAM,256 | | |
| | Front End | T: QPSK, 16QAM,64QAM | | |
| T/C Demodulator | | C: 16,32,64,128,256QAM | | |
| | Channel Bandwidth | 6,7,8MHz | | |
| | Symbol Rate | C: 0.2Mbps~~7.2Mbps | | |
| | Processor | 751MHz | | |
| System resource | SDRAM | 512Mbyte DDR3 | | |
| | FLASH | 1MBytes SPI + 128MBytes Nand | | |
| Video Decoder | H.265/HEVC/AVC/AVS+, AVC/H.264, MPEG-2, MPEG-4 Part 2, DivX, Xvid, MPEG-1/H.261/H.263, AVS | | | |
| | Resolution | HDMI2160P,1080P,1080i.720P,576P, 576I | | |
| Audio Codec | | E, WMA/WMApro, MPEG I Layer 1, 2, MP3, 3D SRS | | |
| Serial interface | Connector | USB type | | |
| Power Supply | Li-oN Battery | 2600 mAh | | |
| | Supply voltage | 14 Volt | | |
| | Charger | 90-240V | | |
| Panel connectors | Digital tuner input | F type | | |

E. Technical Specifications

F. Physical Specifications

| Size | 210 x 130 x 48mm | |
|---------------------------|---------------------|---|
| Weight | 0.75 kg | |
| Operating temperature | 0 to 45° C | |
| Storage relative humidity | 5 to 90% | |
| | | _ |

Weight and dimensions are not absolutely exact values. The battery life will be shorten if using in the extremely cold or hot weather.

Handling Precautions and Prohibitions of Battery in Sat Meter Warning:

You are using Lithium ion batteries or Nickel metal hydride batteries in the machine now, so please don't work under high temperature or high pressure conditions. If the following items happened, abnormal chemical reaction may occur which will lead to the battery overheat, emit smoke, ignite and/or burst.

(1) incinerate and dispose the battery in fire or heat it;

(2) pierce the battery with a nail or other sharp objects, strike it with a hammer, or step on it;

(3) immerse the battery with water or connect the positive(+) and negative(-) terminals with a metal objects such as necklaces, hair pins, etc.

Notice:

The battery is only applicable to the charger which supplied or appointed by the manufacturer of this machine.

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.

The battery should be stored within a temperature range of 0^* to 40^* .

When stored for a long period, charge the battery at least once per half month so as to prevent over discharge.

The battery is expendable.

Handling:

Improper setting of new battery may lead to the battery burst.

Please use the battery only supplied by the manufacturer if you want to change a new battery.

Please do not put the battery in fire or dispose it together with garbage. Please contact the waste administrative institute in your place to get the nearest battery collection station.

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