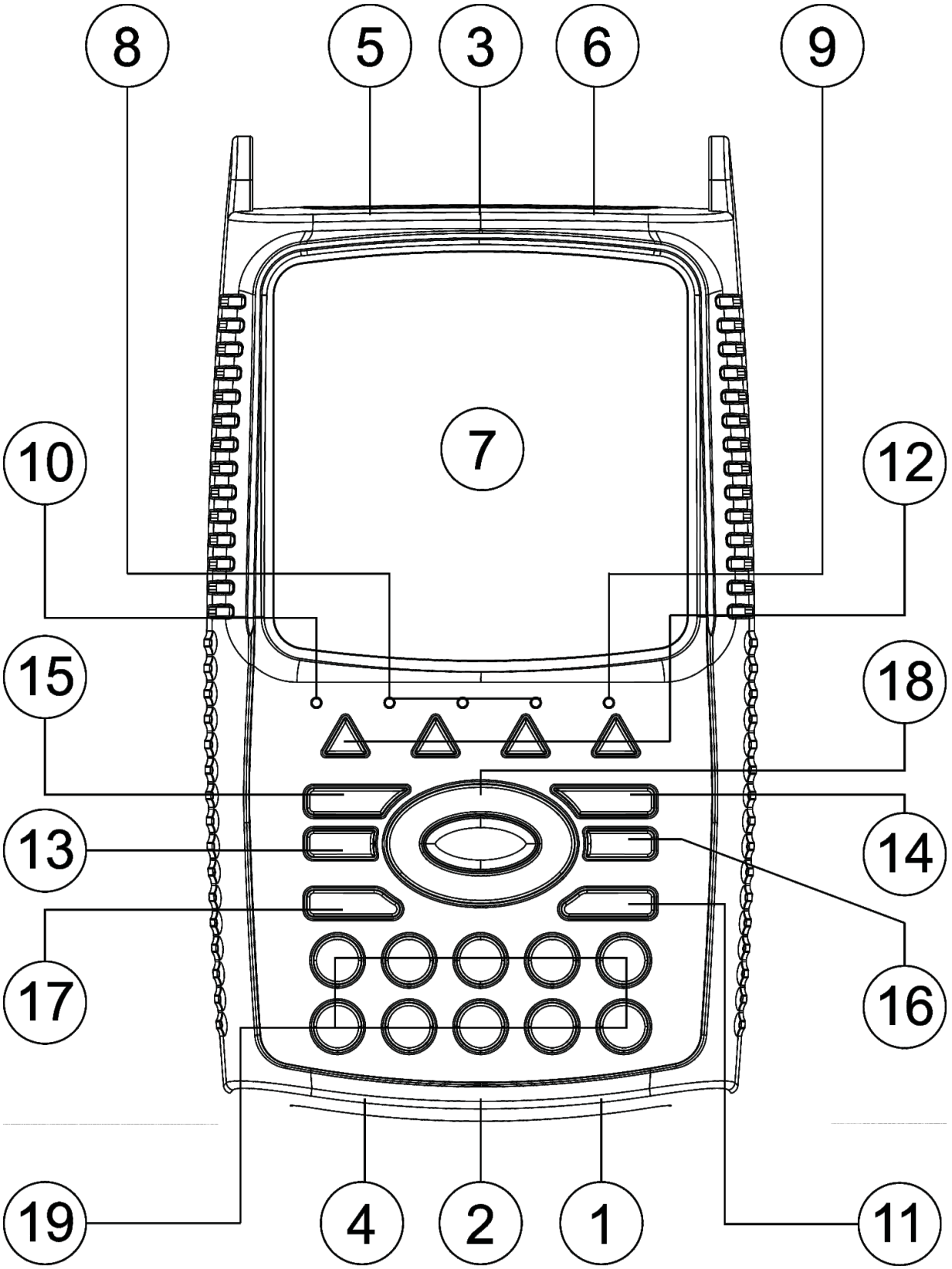
# USER'S MANUAL

## Digital Combo Signal Finder

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

# FRONT PANEL



## FRONT PANEL

| No. | Item | Description |
|---|---|---|
| 1 | MINI USB-Port | USB port for PC connection and power supply connection |
| 2 | AV In | Input audio and video signals,Output DC 12V 2A |
| 3 | RF In | Terrestrial signal input and CCTV camera signal input(Optional) |
| 4 | USB-Port | Connect to USB or USB-HDD device |
| 5 | HDMI-Port | Connect to TV through HDMI cable |
| 6 | RF In | Satellite signal input |
| 7 | LCD-Display | Display the TV program, the operation menu and the detailed parameters. |
| 8 | 22K/13V/18V-LEDs | LED lights when 22K/13V/18V switch on |
| 9 | LOCK-LED | LED lights when signal is locked |
| 10 | POWER-LED | Operation:<br>Red: the finder is on. Off: the finder is off.<br>Charging:<br>Green: The battery is being charged.<br>Orange: The battery is full. |
| 11 | Power-keys | Switch finder on/off |
| 12 | Function -keys | F1: To switch between TV program and Radio program<br>F2: Mute F3: Switch the display<br>F4: Display the channel information menu |
| 13 | Angle-keys | Display the angle menu |
| 14 | Find-keys | Display the find menu |
| 15 | Menu-keys | Display the main menu |
| 16 | Exit-keys | Leave the current menu, cancel operation |
| 17 | LED-keys | Switch the LED on/off |
| 18 | Navigation-kyes<br><br><br>OK-keys | Switch programs ▲, ▼<br>Volume control ◄, ►<br>OK keys: confirmation for selection |
| 19 | Number-keys | Select the channel directly |

## ➢ Charging

- If the finder is being used for the first time, it may be necessary to charge for no longer than 6 hours. If the battery runs low during use, you should recharge it for 3 or 5 hours, it will be full when the power light turns to orange from green.

  Fully rechargeable Li-on batteries can last approximately 5 hours.
- It may be necessary to turn off the finder while charging. A universal charger operating on AC110V/60Hz or AC 220V/50Hz makes it usable anywhere.

## ➢ Turn on/off

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

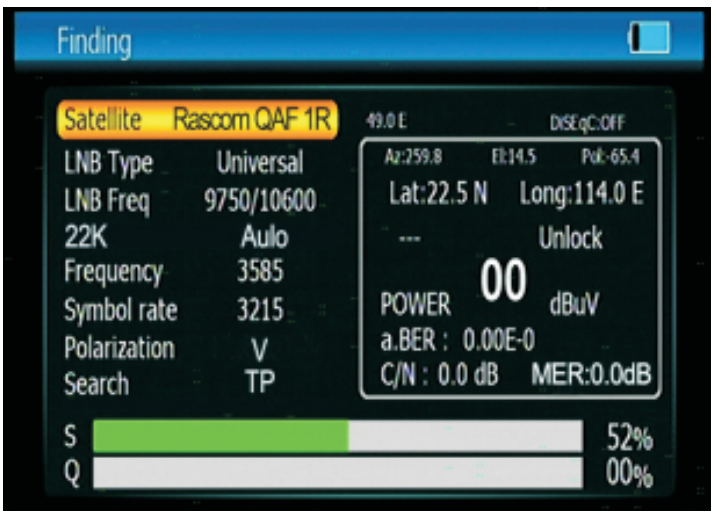
## ➢ Language setting

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

## ➢ Restore factory setting

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

## ➢ Satellite Finding




- *Select Satellite*

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

*Select LNB*

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

*Select parameter*

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

*Detect satellite signal*

- After signal detected, the finder will display signals at the signal bar and beeps. View the PWR、C/N、MER、a.BER and NIT on the screen, if the value of POWER is higher, the strength of signal is better and stronger. You can also search the satellite channel list by pressing the OK button.
- From the finding menu, move the cursor to search, Use [◄][►] buttons to choose search Type between TP, Satellite and Blind.

**Value**

0.0°E： show the longitude of the chosen satellite

DiSEqC：show the DiSEqC port of the chosen satellite

Az：show the azimuth angle of the chosen satellite

El： show the elevation angle of the chosen satellite

Pol：show the polarity angle of the chosen satellite

LAT：show the local latitude

LONG：show local longitude

NIT：show the longitude of the locked satellite

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

MER：show the MER value of the locked satellite

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

## ➢ DVB- T/T2 menu(Optional)

- From the main menu, you can find the T/T2 options. Press OK button, the T/T2 menu will appear.
- Select Country

  From the T/T2 menu, move cursor to Country, Use [◄][►]buttoms to select the Country that you want.
- Select Mode

  From the T/T2 menu, move cursor to Mode, Use [◄][►]to switch between Auto and Manual.
- Select Band

  From the T/T2 menu, move cursor to Band, Use [◄][►]to switch between UHF and VHF.
- Select Frequency

  From the T/T2 menu, move cursor to Channel, Use [◄][►] buttons to select the frequency that you want.

  If no default frequency you need, press OK button to edit, you can key in the frequency by using direction buttons and press OK button in the end.
- Channel Search

  From the T/T2 menu, move cursor to Search, Press OK button to start search channels.

## ➢ CCTV Camera Test(Optional)

- CCTV camera testing can help users to test, install the surveillance camera quickly and accurately. Individual output DC12V 2A, can power supply for camera in real-time.
- From the main menu, you can find the CCTV options. Press OK button,the CCTV Camera Test menu will appear.
- When a signal was input, the meter will automatically recognizes Analog, AHD, TVI camera. Press EXIT button to exit CCTV Camera test menu.
- Before using the Camera test, make sure that the CCTV cable and DV12V is properly connected.

## ➢ Delete Channels

- From the main menu, select “Channel”, press [OK] to enter the channel edit menu. Use [▲/▼] buttons to choose from the options below.

TV Channels
Radio Channels
Delete ALL Channels
Delete ALL TV Channels
Delete ALL Radio Channels
Delete ALL FTA Channels
Delete ALL Scramble Channels
Press OK button to confirm
Press EXIT to cancel

## ➢ Software & Parameters upgrade

- Copy the software or parameters to the USB stick, insert the USB, the system will display" USB Device connected", navigate to the USB menu, select " USB Upgrade " item. Press [OK] to enter the software upgrade menu.

  Use [◄][►] buttons to choose Upgrade Type between USB Upgrade, Backup Data.

  move the cursor to Section, Use [◄][►] buttons to select the mode that you want, to upgrade software select Software, to upgrade parameters select CSV.

  Then move the cursor to File Path, Press [OK] to select upgrade files. Press Start to upgrade the files. During upgrading, do not power off the finder.

- Download the latest software and TP lists from our website.

# NOTES

## ➢ Notice

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

## ➢ Warning

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

## ➢ Battery & charger:

- Only use original batteries and chargers. The use of any other types may be dangerous or damage the device.
- Dispose of batteries according to local regulations.
- Do not crush or puncture the battery. Avoid extreme temperatures and high pressure.
- If left unused, a full charged battery will lose it's charge over time, please recharge before using.
- Unplug the charger from the electrical plug when no in use.

## DVB-S/S2

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

## Demodulator

| | |
|---|---|
| Demodulator front end | QPSK, 8PSK,16APSK, 32APSK |
| Symbol rate | 2Mbps~45Mbps |
| Measurement Unit | dBm, dBuV |

## DVB-T/T2

| | |
|---|---|
| F-type connector | IEC 169-24 |
| Input Impedance | 75Ω |
| Input level | -85dBm ~ -20dBm |
| Band Width | 6MHz ,7MHz,8MHz |
| Modulation | QPSK, 16QAM, 64QAM, 256QAM |
| Frequency range | 174~230MHz(VHF),<br>470~862MHz (UHF) |
| Antenna power supply | 5 V , max 100 mA |

## Connectors

| | |
|---|---|
| Serial data interface | USB 2.0 Port |
| Video/audio interface | HDMI, and 3.5mm |

## Power supply

| | |
|---|---|
| Supply voltage | DC12~ 14.5V 1.5A |
| Li-on battery | 3800mAh Li-on |
| Working time | about 5 hours |
| Supply voltage (charger) | AC 110~250V 50/60Hz |

## Temperature

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

## Dimensions

| | |
|---|---|
| Length x width x height | 21 x 12.5 x 3.5cm |

## Weight

| | |
|---|---|
| Weight | 0.5Kg |
| Gross weight | 0.88Kg |