



Green Dot

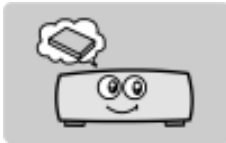
# USER'S MANUAL

*N8102T*

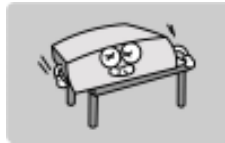
DIGITAL TERRESTRIAL RECEIVER

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## IMPORTANT SAFETY INSTRUCTION



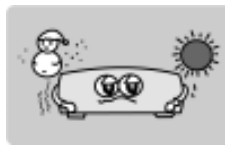
1. Be sure to read this user's manual before starting your operation.



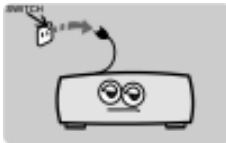
6. Install the unit horizontally. Unbalanced installation may cause the unit to be damaged.



2. Never open the cover. It is very dangerous to touch the inside of the unit due to possible electric shock.



7. When the unit is suddenly moved from a hot area to a cold area, turn it off for 1 to 2 hours.



3. In lightning storm weather, or when this unit is not in use for a long time, please pull the power cord from the outlet. Never use a damaged power cord. Please connect to a power socket with an all-pole mains switch in buildings.



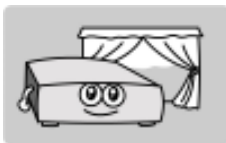
8. Install the unit in a place with:  
suitable temperature  
no direct sunrays  
low humidity  
low vibration influence



4. Do not touch the power with a wet hand. If there is liquid flowing into the unit, pull out the power cord immediately because it may cause fire or electric shock.



9. Do not put heavy objects on top of the unit and power cord.



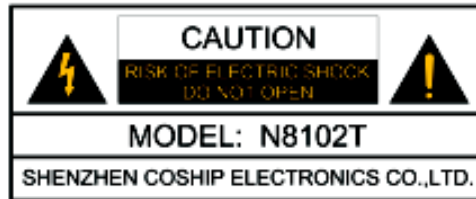
5. Place the unit in a well ventilated and no heat environment.





## WARNING MARK:

This mark appears on the rear panel of the receiver, painted prominently in contrasting color to the background.



**Warning:** To reduce the risk of electric shock, don't remove the cover (or back). Equipment service and maintenance should be undertaken by qualified personnel.

This symbol alerts user to the presence of uninsulated "dangerous voltage" in product enclosure that sufficient magnitude will constitute risk to person.



This symbol reminds user of presence of important operation and maintenance instructions in literature accompanying this receiver.



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## I. General Information

### 1. Preface

Thank you for purchasing N8102T Digital Terrestrial Receiver. It is able to transform digital signal into high quality video and audio signal for entertainment.

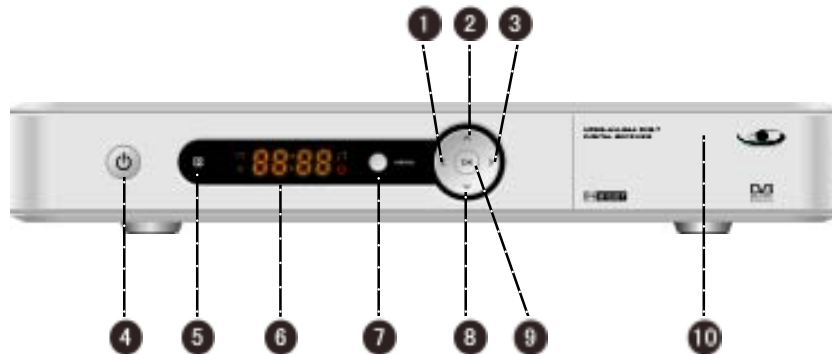
Please read this user's manual carefully to safely install, use and maintain the receiver at maximum performance. Please keep this user's manual next to your receiver for future reference.

***Note: The information in this user's manual is subject to change without notice. The photo and function explanations in the manual are for reference. If any discrepancy exists, please refer to the entity.***

### 2. Feature

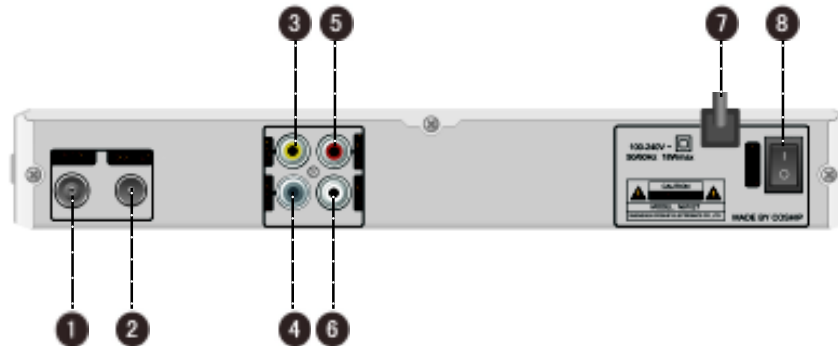
- ❖ Support MPEG-4 video and audio decoding
- ❖ DVB-T tuner
- ❖ Convenient NIT (Network Information Table) search
- ❖ Video output: 4:3 / 6:9
- ❖ OTA (Over the Air) upgrade supported
- ❖ Support stereo analog audio output and digital audio output
- ❖ English OSD (On Screen Display)

### 3. Front Panel



Name	Function
1/3. ◀▶	Adjust volume or move cursor left/right
2/8. ▲▼	Switch channel or move cursor up/down
4. ⏻	Switch between operation and standby modes
5. IR	Remote receiver
6. LED DISPLAY	Display status
7. MENU	Display/exit from main menu
9. OK	Display channel list or confirm operation
10. SMART CARD SLOT	Open the cover to insert smart card

## 4. Rear Panel



Name	Function
1. ANT IN	Connect to a terrestrial antenna
2. LOOP OUT	Loop output RF signal to another receiver
3. VIDEO	Output video signal to TV
4. D-AUDIO	Output digital audio signal to amplifier
5/6. R/L-AUDIO	Output right/left audio signal to TV or amplifier
7. 100-240V ~	Power supply
8. ON/OFF	Power switch

## 5. Remote Control Unit



Name	Function
	Mute/restore sound
	Switch between operation and standby modes
	Switch between TV and radio modes
EPG	Display EPG Guider
FAV	Display channel favourite window
LANG	Display subtitle window
MENU	Display/exit from menu mode
EXIT	Back to previous menu or exit from operation
	Switch channel or move cursor up/down
	Adjust volume or move cursor left/right
OK	Display channel list or confirm operation
	Back to previous channel
INFO	Display channel information bar
VOL+/-	Adjust volume
REMIND	Display schedule manage window
GAME	Display games window
PAGE+/-	Up/down pages
COLOR KEYS	Functions depend on specific applications
0-9	Number keys
AUDIO	Display audio selection window
MAIL	Reserved

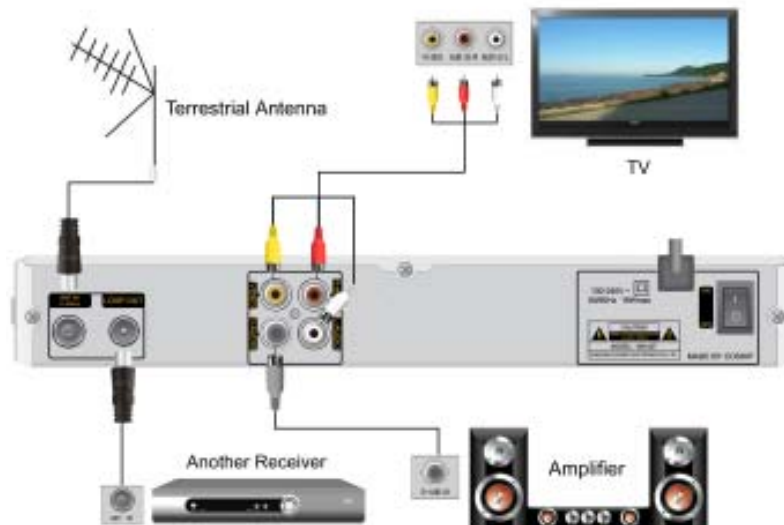
**Note:** The keys mentioned in the main menu refer to that on RCU (Remote Control Unit), except for special explanations.



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## 6. System Connection

The following figure shows connections required for TV and other related electric devices. If you encounter any problem, please contact your local dealer.



1. Connect ANT IN port to a terrestrial antenna with an RF cable.
2. Connect LOOP OUT port to ANT IN port on another receiver with an RF cable.
3. Connect VIDEO and R/L-AUDIO ports on receiver to corresponding ports on TV with an RCA cable.
4. Connect D-AUDIO port on receiver to a corresponding port on amplifier with an D-AUDIO cable.

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## II. Quick Installation

### Step 1: Check the system connection.

Check and make sure your related devices are correctly connected as instructed in **6. System Connection**.

### Step 2: Insert the smart card released by your local dealer.

1. Open the right hand cover on front panel of the receiver.
2. Face the side with electronic chip downwards and insert the smart card into corresponding slot horizontally according to arrow direction.

**Note: Don't attempt to remove or insert the smart card while the receiver is on.**

### Step 3: Turn on your TV and switch it to AV mode.

### Step 4: Power on the receiver.

Turn on the receiver, system initializes and start-up OSD is shown on TV screen.

### Step 5: Search channels.

1. If there are some channels stored in the receiver, the channel number is shown on LED DISPLAY.
2. If there is no channel stored in the receiver, system will search channels automatically. For more details, please refer to **1. Installation**.

### Step 6: Play program

When watching TV, you can select channel with ▲▼ keys.

### III. Main Menu



In non-menu mode, press **MENU** key to display main menu that consists of following items:

- ❖ **Installation**
- ❖ **Manage Channel**
- ❖ **User Setup**
- ❖ **Information**
- ❖ **Games**

Select items with **▲▼** keys, and then press **▶** key to activate sub-menu. In the sub-menu, press **▲▼** keys to select a item and press **OK** key to enter, or press **◀** key to back to main menu.

**Note: Please operate according to key instructions at the bottom of window.**

#### 1. Installation

Installation consists of Auto Search, Manual Search and Upgrade Software.



##### 1.1 Auto Search

For beginners, auto search is the best choice. System will search channels according to default parameters. Updated TV and Radio channels will be sorted automatically.

**Note: Do not interrupt the searching to avoid data loss.**

##### 1.2 Manual Search



If you are familiar with relevant parameters, you can select a channel or set its parameters to search channels.

Press **▲▼** keys to switch among items.

Press **◀▶** keys to switch among options.

Press number keys to input desired values.

Select "Start Search" and press **OK** key to search.

Updated TV and Radio channels will be sorted automatically.

**Note:** This function should be performed by qualified personnel.

### 1.3 Upgrade Software

If there is upgrade stream from the front end, Upgrade Software will be activated. After entering this item, a message box pops up for confirmation. Press **OK** key to upgrade or press **EXIT** key to cancel the operation.

## 2. Manage Channel

Manage Channel consists of Channel Favourite and Channel Information.

### 2.1 Channel Favourite

You can press **FAV** key to display this window directly in non-menu mode.

This window consists of channel list and favourite channel list.

◀▶ keys: Switch between channel list and favourite channel list

▲▼ keys: Browse the list

#### ● How to add a favourite channel

1. Switch to channel list and select a channel.
2. Press **OK** key to confirm this setting, and the selected channel appears in favourite channel list.

#### ● How to delete a favourite channel

1. Switch to favourite channel list and select a channel.
2. Press **OK** key to confirm this setting, and the selected channel disappears in favourite channel list.

### 2.2 Channel Information

This window displays information about current channel, such as PID values, frequency and bandwidth, etc.



### 3. User Setup

User Setup consists of System Lock, General Setting and Factory Default.

#### 3.1 System Lock



You can set parental level for programs and change STB password.

Correct STB password is needed to activate the setting. The default value is 0000.

**Parental Level:** Press ◀▶ keys to select a parental level from No Lock, All Lock, 13, 15 and 18. Input correct STB password to view program beyond set level. If No Lock is selected, there is no restriction to view all programs.

**New Password:** Press number keys to input new password. (If necessary)

**Confirm New Password:** Input the new password again. After setting, press EXIT key to save and exit.

**Note:** Don't forget STB password. Once forget it, please ask you local operator for help.

#### 3.2 General Setting

**Menu Language:** Default is English.

**Menu Opacity:** Press ◀▶ keys to select transparency level from 65% to 100%.

**TV Mode:** Press ◀▶ keys to select PAL-BDG, NTSC or AUTO.

**Aspect Mode:** Press ◀▶ keys to select Letter Box, Panscan or AUTO.

**Aspect Ratio:** Press ◀▶ keys to select AUTO, 4:3 or 16:9. (4:3 for normal TV , 16:9 for wide screen TV).

**Audio Mode:** Press ◀▶ keys to select Stereo, Left or Right.

**Time Out:** Set OSD duration of information bar and channel list. Press ◀▶ keys to select 2s, 3s, 4s, 5s or 10s.

**Time Zone:** Set your local time zone. Press ◀▶ keys to select one from -12:00 to +12:00.

After setting, press EXIT key to save and exit.



### 3.3 Factory Default

**Warning: This function will restore system settings to factory default.**

After entering this item, a warning box pops up for confirmation. Press **OK** key to continue or **EXIT** key to cancel the operation.



## 4. Information

Information consists of CA Information, Mail Information and System Information.

### 4.1 CA Information

This function is reserved.

### 4.2 Mail Information

This function is reserved.

### 4.3 System Information

This window displays information about the receiver, such as hardware version, software version, etc.



## 5. Games

You can press **GAME** key to enter directly in non-menu mode.

System offers two games for entertainment: Gobang & Tetris. According to instructions displayed on screen, you can play games with **▲▼◀▶** and **OK** keys.

**Note: For your health, please do not keep playing games for long time.**



## 6. Shortcut Key Function

### 6.1 EPG



Press **EPG** key to display EPG Guide. It includes channel list, date bar, event list of highlighted channel and current program preview window. You can select current program to play and schedule future programs.

**RED** key: Switch between channel list and program list


**◀▶** keys: Select date in a week.

When channel list is highlighted:

Press **▲▼** keys to select a channel, and press **OK** key to play current program in full screen.



When program list is highlighted:

Press **INFO** key to display detailed program information. Press **▲▼** keys to select a channel, and press **OK** key to schedule future programs. The scheduled program is marked with a , and system will remind you near the play time. If you want to cancel the schedule, press **OK** key again.

All the scheduled programs are listed in schedule manage window.



### 6.2 Channel List

Press **OK** key to display channel list.

Press **◀▶** keys to switch among different channel lists.

Press **▲▼** keys to select a channel.

Press **OK** key to play it in full screen.



### 6.3 Channel Information

Press **INFO** key to display channel information bar, showing brief program information of current channel. Before channel information bar disappears, press **INFO** key again to display detailed information of current program.

#### 6.4 Volume Control

Press ◀▶ keys to adjust volume.  
Press ⏸ key to mute/restore sound.

#### 6.5 Schedule Manage

Press **REMIND** key to display schedule manage window.  
Press ▲▼ keys to select schedules.  
Press **OK** key to cancel/restore schedule.



#### 6.6 Subtitle

Press **LANG** keys to display subtitle window.  
Press ▲▼ keys to select a language and press **OK** key to confirm. The subtitle is displayed at the bottom of screen.  
Select "001 Close Subtitle" to switch subtitle off.



#### 6.7 Audio Selection

Press **AUDIO** key to display audio selection window.  
Press ▲▼ keys to select a language.

**Note:** This function needs your local operator support.







## IV. Technical Specification

<b>Tuner</b>	
Input Frequency	174 ~ 230 MHz /474 ~ 858 MHz
Loop output Frequency	174 ~ 230 MHz /474 ~ 858 MHz
Input Level	32dBuV ~ 90dBuV
Input Impedance	75Ω
<b>Channel Decoding</b>	
Demodulation	COFDM
FEC	1/2,2/3,3/4,5/6,7/8, Automatic
Guard Interval	1/4, 1/8, 1/16, 1/32
Mode	2K, 8K
<b>Demultiplexer</b>	
Standard	ISO/IEC 13818-1
<b>Video Decoding</b>	
Standard	ISO-IEC13818-2, H.264 AVC MPEG-2 MP@ML
Aspect Ratio	4:3, 16:9, AUTO
Video Format	PAL-BDG, NTSC, AUTO
Video Resolution	720×576 (PAL), 720×480 (NTSC)
<b>Audio Decoding</b>	
Standard	ISO-IEC 13818-3
Decoding	MPEG-1 & MPEG-2 layer 1 and 2
Audio output Mode	Stereo, Left, Right, D-Audio
Audio output Level	32 Level
<b>Power Supply</b>	
Input Voltage	100 - 240V ~ 50/60Hz
Power Consumption	18W max.
<b>Ambient</b>	
Operation Temperature	0°C ~ 40°C
Dimension	280 mm x 185 mm x 40 mm
Relative Humidity	5% ~ 80% <38 deg C wet bulb
Weight	1.5 kg (unpacked)

## V. Trouble Shooting

Problem	Possible Causes	What to Do
LED DISPLAY on front panel is off	Power cord is not connected	Check and make sure the power cord is plugged into power socket
No sound and no picture	The receiver is in standby mode	Press  key to switch to operation mode
No signal	The signal cable is disconnected	Connect the signal cable securely
	Program parameters are set incorrectly	Set correct parameters
	No signal from the operator	Try again when signal is available
No sound	Audio cable is not connected securely	Connect the audio cable securely
	System is in mute mode	Press  key to restore the sound
	Volume is set to minimum	Increase the volume to suitable level
	Audio parameter is set wrongly	Select a proper audio mode
No picture	Video cable is not connected securely	Connect the video cable securely
	System is in radio mode	Normal
Video and audio mismatch, or abnormal sound	Audio channel is set incorrectly	Select a proper audio channel
Program cannot be played	Smart card is plugged incorrectly	Insert the card correctly
	Smart card can not decrypt this kind of program	Normal
Picture is still or mosaic	Signal is too weak	Check and make sure that the signal cord has been connected securely
RCU does not work	RCU is not aimed at the remote receiver on front panel	Aim RCU at the remote receiver on front panel
	No power in batteries of RCU	Replace batteries

**Note: If you cannot solve problems after referring to the above trouble shooting, please contact the local operator.**