



DIGITAL HIGH DEFINITION SET TOP BOX



Enjoy all the digital free-to-air TV channels broadcast in your area in Standard and High Definition

USER'S MANUAL



Thank you for purchasing STB10HD Digital High Definition Set Top Box.

This manual will help you to install, use and maintain the receiver. Please read this manual carefully before operating your unit and keep it for future reference.

Warning & Note

In this manual, pay special attention to the following marks that indicate hazardous situations.

- ❖ **Warning:** Alert user to the operation which could result in device damage or data loss, and the presence of a hazardous situation which could result in serious injury.
- ❖ **Note:** Remind user of presence of possible problems and information of any importance to help understand, use and maintain the installation.

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

Safety Instruction

Read following items carefully before operating this receiver.

Installation

- ❖ This receiver should be installed horizontally. Unbalanced installation may cause damage.
- ❖ Install the receiver in a place with:
 - good ventilation (leave space not less than 10cm around this receiver)
 - no heat source (burning candle, radiator, heater, fireplace, amplifier, etc)
 - suitable temperature
 - against humidity (especially bathroom, kitchen, etc)
 - no direct sunlight
 - low vibration

Maintenance

- ❖ Unplug this receiver from wall outlet before changing connections between this unit and other related equipments.
- ❖ Don't unplug or insert signal, audio and video cables when this receiver is turned on.
- ❖ To avoid the risk of lightning strike, unplug power cord of the receiver from wall outlet in lightning storm.
- ❖ Unplug power cord from wall outlet when the unit is not used for a long time or damaged accidentally.
- ❖ Turn off this unit first, after 1 to 2 hours turn it on when move this receiver from a cold environment to a hot environment, vice versa.
- ❖ To avoid the risk of fire or electric shock, don't expose this receiver to rain, splashing and don't put object with liquid on this unit.
- ❖ Do not cover vents of this receiver with newspaper, table cloth, curtain, etc.
- ❖ Don't put heavy objects on this receiver.
- ❖ Unplug power cord of this receiver from wall outlet before cleaning. To reduce damage, clean this unit with dry cloth. Do not let liquid and spray flow into this device to avoid serious damage.
- ❖ There is dangerous voltage in product enclosure. Do not remove the cover (or back) to avoid the risk of fire or electric shock.

Power Socket and Power Cord

- ❖ The power socket should be available near the receiver and well grounded.
- ❖ Do not insert or pull out the power cord with wet hands to avoid electric shock or fire.
- ❖ Do not use damaged power cord. If power cord is damaged, contact your local operator for replacement to avoid risk of fire or electric shock.
- ❖ Do not excessively bend the power cord, and do not place heavy objects on it, which could cause damage, electric shock or fire.



RCU Battery

- ❖ Batteries should be installed in accordance with the (+/-) markings on battery compartment.
- ❖ Remove batteries if RCU not be used for a long time.
- ❖ Replace batteries if there is no enough power and dispose battery waste properly for environmental protection.

Others

- ❖ The all-pole power switch of this receiver is on rear panel. Switch it to “I”, related equipment will connect with power supply. Switch it to “O”, related equipment will disconnect with power supply completely.
- ❖ Only use accessories specified by the manufacturer, as other unsupported accessories may cause damage to the receiver.

Symbols on the Receiver

Part 1: Warning Mark

This mark appears on rear panel of this receiver, painted prominently in contrasting color to background. It consists of two graphical symbols and warning messages. The detailed specifications are as follows:



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.

Part 2: CE Mark

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



This mark tells you that the receiver is following the provisions of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to the electromagnetic compatibility and the provisions of Council Directive 73/23/EEC and 93/68/EEC on the approximation of the laws of the Member States relating to low voltage and electrical safety.

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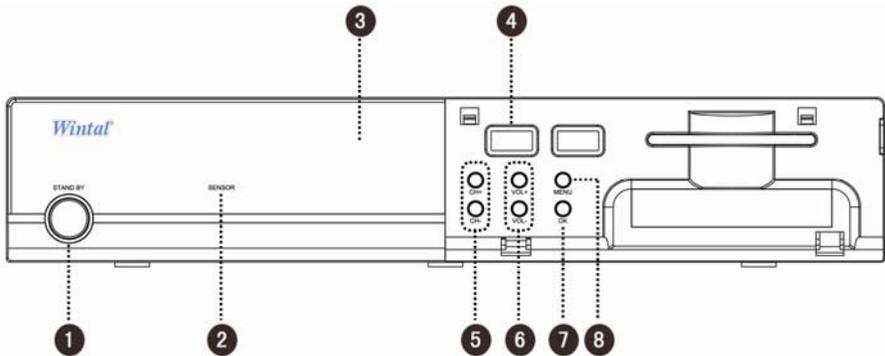
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1. Before Using the Receiver

1.1 Main Feature

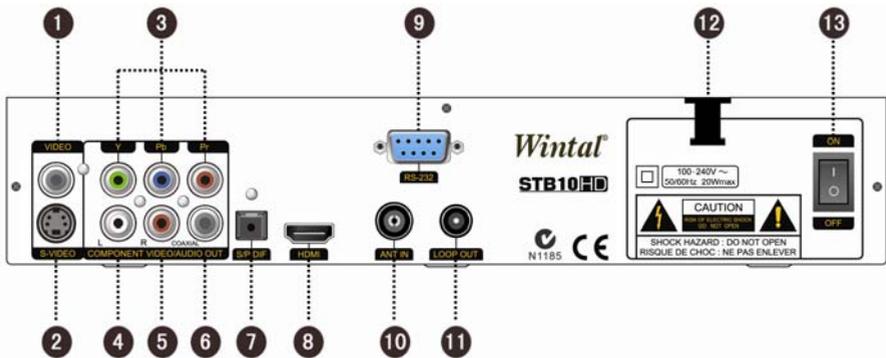
- Dolby 5.1 supported
- MP3 play and picture browse
- Teletext/subtitle supported
- EPG supported
- 16 favorite channel groups
- Memory space up to 1000 channels
- Support automatic, manual scan
- Powerful channel edit function
- Parental control supported
- Software upgrade supported
- Standby with low power consumption
- HDMI output: support 1080i/720p/576p/576i
- YPbPr output: support 1080i/720p/576p/576i
- COAXIAL & S/P DIF audio supported
- USB 2.0 interface supported

1.2 Front Panel



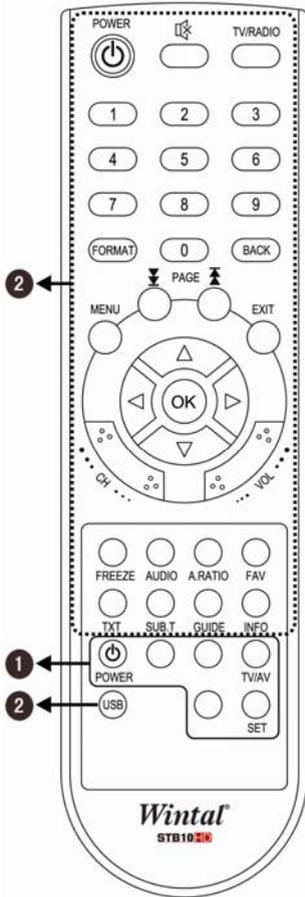
Name	Function
1. STAND BY	Switch between operation and standby modes (In standby mode, the receiver is disconnected with power supply.)
2. SENSOR	Receive infrared remote control signal
3. DISPLAY	Display status
4. USB slot	Open the cover to insert specific USB device
5. CH+/-	Switch channels or move cursor up/down
6. VOL+/-	Adjust volume or move cursor right/left
7. OK	Display channel list or confirm operation
8. MENU	Display/exit from main menu

1.3 Rear Panel



Name	Function
1. VIDEO	Output CVBS video signal to TV
2. S-VIDEO	Output Y/C video signal to TV
3. Y/Pb/Pr	Output Y/Pb/Pr video signal to TV (support high definition output)
4/5. L/R-AUDIO	Output left/right audio signal to TV or amplifier
6. COAXIAL	Output digital audio signal to amplifier
7. S/P DIF	Output digital audio signal to amplifier
8. HDMI	Output high definition video and audio signal to TV
9. RS-232	Serial port used for software upgrade (authorized for qualified personnel)
10. ANT IN	Connect to terrestrial antenna
11. LOOP OUT	Loop output RF signal to another receiver
12. 100-240V~	AC power supply
13. ON/OFF	Power switch

1.4 Remote Control Unit (RCU)



Notes:

- The keys mentioned in the manual refer to that on RCU except for special explanations.
- Please operate according to key instructions on screen.

Name	Function
1. Learning keys	
Please refer to Learning Key .	
2. The keys of the receiver	
	Switch between operation and standby modes (In standby mode, the receiver is disconnected with power supply.)
	Mute/restore sound
TV/RADIO	Switch between TV and radio modes
0-9	Switch channels or input numbers
FORMAT	Switch video resolutions
BACK	Back to previously viewed channel
PAGE	Page down/up
MENU	Display/exit from main menu
EXIT	Back to previous menu or exit from operation
	Switch channels or move cursor up/down
	Adjust volume or move cursor left/right
OK	Display channel list or confirm operation
CH+/-	Switch channels
VOL+/-	Adjust volume
FREEZE	Pause/restore play
AUDIO	Switch audio languages
A.RATIO	Switch screen formats
FAV	Display favorite channel list
TXT	Display teletext type window
SUB.T	Display subtitle list
GUIDE	Display EPG
INFO	Display channel information bar
USB	Display USB partition

Learning Key

The receiver RCU has some learning keys at the lower part. The keys (except **SET** key) can be used to memorize corresponding key values of TV RCU. After learning, you can realize remote control for TV with the receiver RCU.

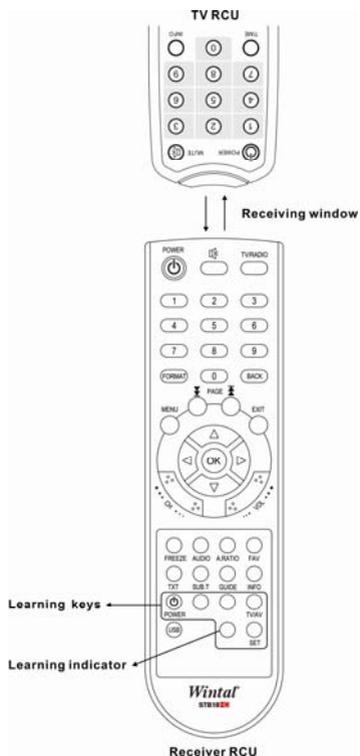
The recommended keys are **POWER**, **TV/AV**, **VOL+** and **VOL-** of TV RCU. The TV/AV identifier varies with different types of TV RCU.

Instruction:

1. Keep pressing **SET** key on the receiver RCU for 3 seconds or more, the indicator status changes from low light to high light, then stop pressing **SET** key.
2. Press a learning key on the receiver RCU (such as **POWER** key), indicator flashes quickly.
3. Aim the TV RCU at "receiving window" of the receiver RCU, and press the corresponding key on the TV RCU (such as **POWER** key) to learn. The indicator status changes from flashing to always bright, which means the learning is successful.
4. Repeat steps 2 and 3 to set other learning keys in the same way.
5. After setting, press **SET** key to exit, and indicator is off.
6. If the operation fails, please try again according to above steps.

Notes:

- *During setting, put the two RCUs on same horizontal surface and the space between them should be within 5cm.*
- *If there is no operation in 20 seconds, the receiver RCU will exit from learning mode automatically.*
- *You can operate the learning for times, but only the last one can be saved.*
- *Some TV RCUs may not support this function.*



2. Installation

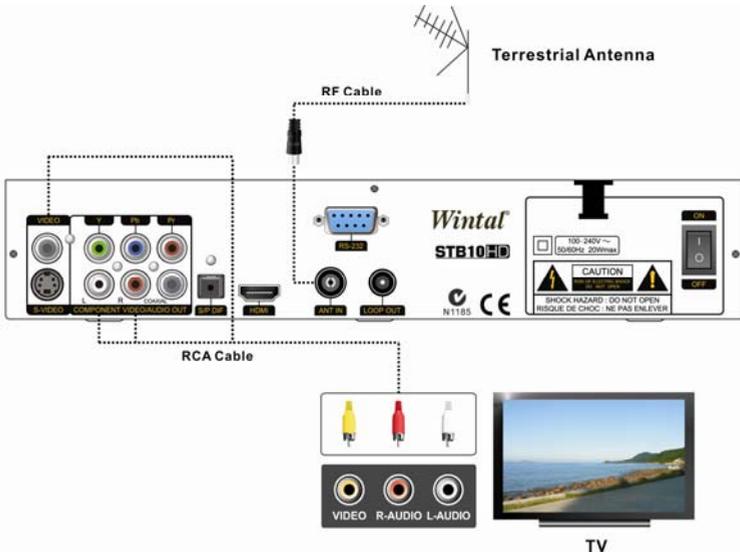
Connect TV and other devices, then you can power on the receiver and scan channels.

2.1 Connect TV

Please choose one of following 4 ways to connect TV.

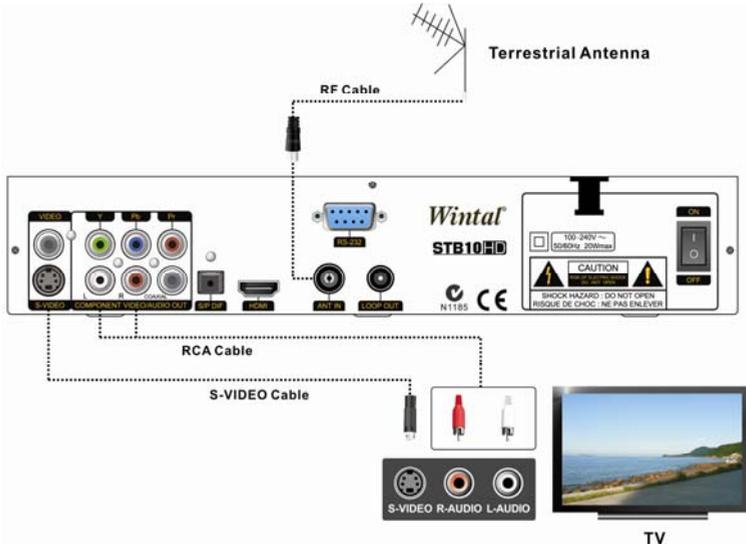
1. Connect TV Using RCA Cable

1. Connect ANT IN port on the receiver to terrestrial antenna with an RF cable.
2. Connect VIDEO port on the receiver to corresponding port on TV.
3. Connect R/L-AUDIO ports on the receiver to corresponding ports on TV.



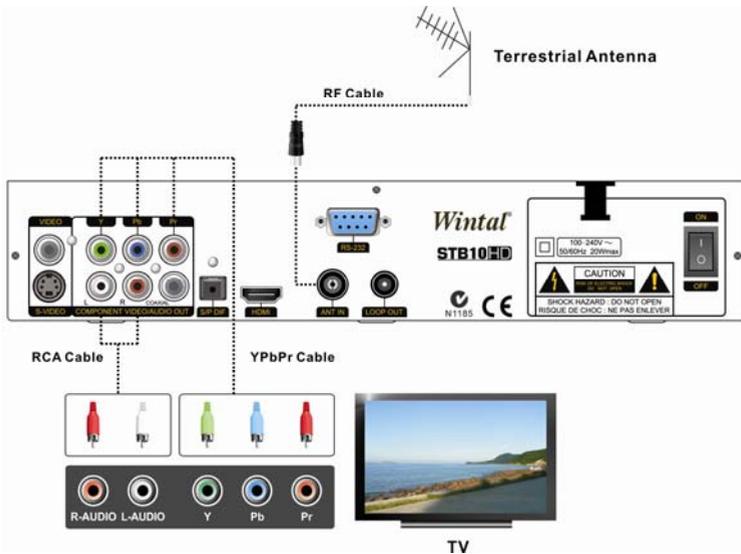
2. Connect TV Using S-VIDEO Cable

1. Connect ANT IN port on the receiver to terrestrial antenna with an RF cable.
2. Connect S-VIDEO port on the receiver to S-VIDEO port on TV.
3. Connect R/L-AUDIO ports on the receiver to corresponding ports on TV.



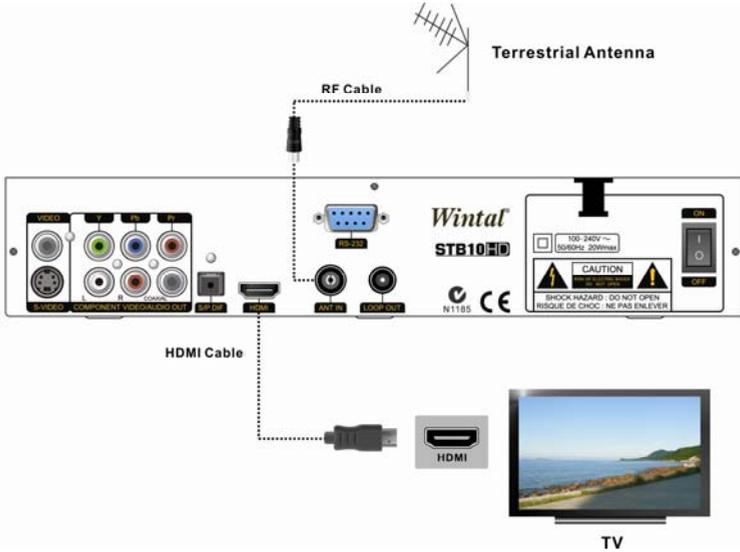
3. Connect TV Using YPbPr Cable

1. Connect ANT IN port on the receiver to terrestrial antenna with an RF cable.
2. Connect Y/Pb/Pr ports on the receiver to Y/Pb/Pr ports on TV.
3. Connect R/L-AUDIO ports on the receiver to corresponding ports on TV.



4. Connect TV Using HDMI Cable

1. Connect ANT IN port on the receiver to terrestrial antenna with an RF cable.
2. Connect HDMI port on the receiver to HDMI port on TV.



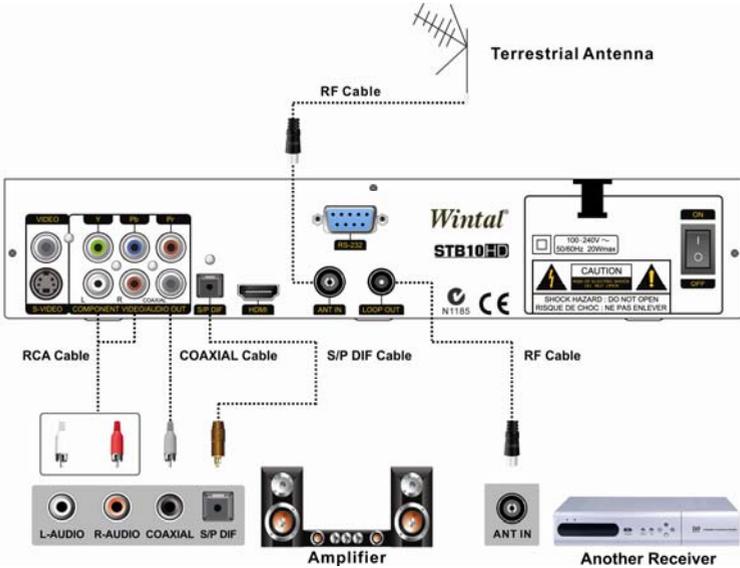
2.2 Connect other Device

For connection of other devices, please refer to following figure:

- ❖ Connect LOOP OUT port on the receiver to ANT IN port on another receiver.
- ❖ Connect COAXIAL port on the receiver to corresponding port on amplifier with a COAXIAL cable, or connect S/P DIF port on the receiver to corresponding port on amplifier with an S/P DIF cable, or connect R/L-AUDIO ports on the receiver to corresponding ports on amplifier.

Please note:

Due to the integrated MEPS standard, your STB10HD outputs no power while in stand-by. Therefore the loop out connection will not output a signal when this unit is in stand-by. It is recommended that you use a dedicated antenna point for your set top box or purchase a 2 way splitter to separate the signal before it enters the set top box. Should you require further information please call 1800 337 366.



Note: If you encounter any problem during the connections, please contact your local operator.

2.3 Power on

1. Connect the power cord of the receiver to wall outlet.
2. Turn on the receiver, and system initializes. If you turn on the receiver for the first time, an installation guide appears on screen. You can set region, TV type and resolution suitable for your conditions.

Notes:

- The installation guide will also run after restoring factory default.
- Please turn on your TV and switch it to AV mode.



2.4 Scan Channel

After above setting, press **OK** key to switch to scan window. System will scan channels automatically. After scanning, setup result will be displayed on screen. Press **OK** key to complete setup and exit to watch TV.

If there are some channels stored in the receiver, program will be played automatically, and the channel number is shown on front panel DISPLAY.

Note: For more scan details, please refer to 6. Channel Scan.



3. Basic Operation

This part describes operations such as channel switch, volume control and other basic operations when playing program.

3.1 Channel Switch

You can switch channels using the following methods:

A. Press ▲▼ or CH+/- keys to switch channels.

B. Input channel number with number keys.

C. Select channel in channel list.

For detailed operations, please refer to **3.4 Channel List**.

D. Select channel in favorite channel list.

For detailed operations, please refer to **3.5 Favorite Channel List**.



3.2 Volume Control

Press ◀▶ or VOL-/± keys to adjust volume.

Press 🔇 key to mute/restore sound.

3.3 Channel Information Bar

Press **INFO** key or press ▲▼ keys to display channel information bar.



1. Channel number and name
2. Current and next program information
3. Current date and time
4. Icons

- Bright if the channel is a favorite channel
- Bright if any program in the channel is scheduled
- Current video resolution
- Current audio language
- Bright if the channel has subtitle
- Bright if the channel has teletext
- Current parental control rating

5. TV/radio mode icon

3.4 Channel List

Channel list is available for you to browse channels easily and quickly.

1. Press **OK** key to display channel list.
2. Press **TV/RADIO** key to switch between TV and radio modes.
3. Press **▲▼** keys to select a channel.
4. Press **OK** key to play it in full screen.



3.5 Favorite Channel List

1. Press **FAV** key to display favorite channel list.
2. Press **◀▶** keys to select a group.
3. Press **▲▼** keys to select a channel.
4. Press **OK** key to play it in full screen.



3.6 Teletext

An electronic newspaper in which you can browse multiple pages of information, such as news, traffic, stock, weather, etc.

1. Press **TXT** key to display teletext type window.
2. Press **▲▼** keys to select Digital Teletext or VBI Teletext and press **OK** key to display teletext list.
3. Press **▲▼** keys to select a language and press **OK** key to display teletext information. You can operate according to operation help information and key instructions on screen.
4. Press **EXIT** key to hide the teletext information.

Note: This function needs your local operator support.



3.7 Subtitle

1. Press **SUB.T** key to display subtitle list.
2. Press **▲▼** keys to select a language and press **OK** key to confirm. The subtitle is displayed at the bottom of screen.

If you want to switch subtitle off, select "1 Off" in subtitle list and press **OK** key to confirm.

Note: This function needs your local operator support.



4. Electronic Program Guide (EPG)

In this guide, you can view program information based on date and time. In addition, the guide can help to schedule future programs.

4.1 Full Guide

The full guide displays detailed EPG information.

Select Main Menu → Guide → Full Guide and press **OK** key to enter. If “Guide Default” is set to “Full” in **8.1 System Setting**, press **GUIDE** key to enter directly in non-menu mode.



1. Channel list
2. Program list
3. Current date and time
4. Date table
5. Preview window
6. Detailed information of the selected program
7. Operation help information

◀▶ keys: Select channel

▲▼ keys: Select program

Green key: Switch to previous day

Blue key: Switch to next day

Yellow key: Switch pages of program information

INFO key: Switch between brief and detailed program information

Red key: Switch to simple guide

OK key: Schedule future program

4.2 Simple Guide

The mini guide displays brief EPG information.

Select Main Menu → Guide → Simple Guide and press **OK** key to enter. If “Guide Default” is set to “Simple” in **8.1 System Setting**, press **GUIDE** key to enter directly in non-menu mode.

▲▼ keys: Select program

Green key: Switch to previous day

Blue key: Switch to next day

Red key: Switch to full guide

OK key: Schedule future program



4.3 Remind List

All the scheduled programs are displayed in this window. You can cancel or restore schedules. Select Main Menu → Guide → Remind List and press **OK** key to enter.

1. Press **▲▼** keys to select a schedule.
2. Press **OK** key to cancel or restore it.
3. Press **EXIT** key to save and exit.

Note: System will remind you near the play time of the scheduled programs.



5. USB Application

You can play MP3 files and browse pictures. Press **USB** key to display USB partition in non-menu mode.

Notes:

- **USB device should be connected to USB port on front panel before operation.**
- **During operation, do not unplug the USB device.**
- **To enter a folder, highlight it and press **OK** key. If you want to exit from the folder, highlight “**⏪**” and press **OK** key.**

5.1 MP3 Play

1. Press **▲▼◀▶** keys to select an MP3 file.
2. Press **OK** key to play it, and you can operate as follows:
 - VOL-/+** keys: Adjust volume
 - Blue** key: Pause/resume play
 - Red** key: Stop play
 - ◀▶** keys: Play previous/next MP3 file
 - OK** key: Switch among Repeat, Repeat All and Play Once
 - Repeat: Play the selected file repeatedly.
 - Repeat All: Play all files circularly.
 - Play Once: Play the selected file once.
3. Press **EXIT** key to exit.



5.2 Picture Browse

1. Press **▲▼◀▶** keys to select a picture.
2. Press **OK** key to display it in full screen, and you can operate as follows:
 - Red** key: Zoom in/out picture
 - Blue** key: Rotate picture
 - ◀▶** keys: Display previous/next picture
 - INFO** key: Display operation help information
 - OK** key: Slide show
3. Press **EXIT** key to exit.



6. Channel Scan

Note: Don't turn off the receiver during scanning.

6.1 Auto Scan

For beginners, auto scan is the best choice. System will scan channels according to default frequency parameters.

Select Main Menu → Scan → Auto Scan and press **OK** key to enter.

Press **OK** key to scan channels.



6.2 Manual Scan

If you are familiar with relevant channel or frequency parameters, you can choose manual scan.

1. Manual Scan by Frequency

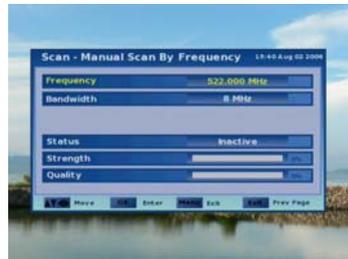
Select Main Menu → Scan → Manual Scan → Manual Scan by Frequency and press **OK** key to enter.

1. Set parameters as follows:

Frequency: Press number keys to input correct frequency.

Bandwidth: Select 6, 7 or 8MHz.

2. Press **OK** key to scan channels.



2. Manual Scan by Channel

Select Main Menu → Scan → Manual Scan → Manual Scan by Channel and press **OK** key to enter.

1. Press **◀▶** keys to select a channel.

2. Press **OK** key to scan this channel.



7. Channel Edit

You can set favorite channels. In addition, you can rename, sort, add, delete, move and search channels.

Select Main Menu → Channel → TV/Radio Channel List and press **OK** key to enter.

7.1 Set Favorite Channel

1. Press number key **1** to enter favorite mode.
2. Press **◀▶** keys to select a favorite channel group.
3. Press **▲▼** keys to select a channel.
4. Press **OK** key to add the selected channel to this group, and mark this channel with **★**. If you want to cancel this setting, press **OK** key again.
5. Press **EXIT** key to save and exit.



7.2 Rename Channel

1. Press **▲▼** keys to select a channel.
2. Press number key **2** to pop up a keyboard.
3. Input the name of channel. Please refer to following operations:
 Select characters on the keyboard with arrow keys and press **OK** key to input.
 Select “<-” and press **OK** key to move cursor leftward on title bar.
 Select “->” and press **OK** key to move cursor rightward on title bar.
 Select “SP” and press **OK** key to leave a space on title bar.
 Select “CLR” and press **OK** key to delete all characters on title bar.
 Select “OK” and press **OK** key to confirm renaming.
 Select “Exit” and press **OK** key to cancel renaming.
4. After renaming, the new channel name appears in channel list.



7.3 Sort Channel

1. Press number key **3** to enter sort mode.
2. Press **◀▶** keys to select a sort command.
By Frequency: Sort by frequency
By LCN: Sort by logical channel number
By Name: Sort alphabetically
3. Press **OK** key to confirm, and all channels are sorted accordingly.
4. Press **EXIT** key to save and exit.



7.4 Add/Delete Channel

1. Press number key **4** to enter add/delete mode.
2. Press **▲▼** keys to select a channel.
3. Press **OK** key to delete this channel, and "CH Deleted" is displayed in top left corner of screen. If you want to resume this channel, press **OK** key again.
4. Press **EXIT** key to save and exit.

Note: When you switch channels, the deleted channels will be skipped.



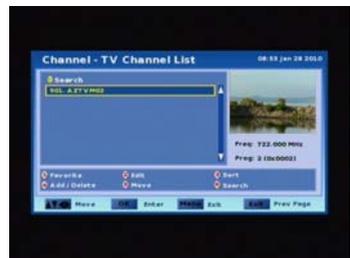
7.5 Move Channel

1. Press number key **5** to enter move mode.
2. Press **▲▼** keys to select a channel, and press **OK** key to confirm.
3. Press **▲▼** keys to move it to a new position and press **OK** key to confirm.
4. Press **EXIT** key to save and exit.



7.6 Search Channel

1. Press number key **6** to display search window.
2. Input the name of channel you want to search on title bar. Please refer to following operations:
 Select characters on the keyboard with arrow keys and press **OK** key to input.
 Select "<" and press **OK** key to move cursor leftward on title bar.
 Select ">" and press **OK** key to move cursor rightward on title bar.
 Select "SP" and press **OK** key to leave a space on title bar.
 Select "CLR" and press **OK** key to delete all characters on title bar.
 Select "OK" and press **OK** key to confirm searching.
 Select "Exit" and press **OK** key to cancel searching.
3. After searching, related channel list is displayed.
4. Press **▲▼** keys to select a channel in the channel list.
5. Press **OK** key to play it in full screen.



8. Setup

8.1 System Setting

Select Main Menu → Setup → System Setting and press **OK** key to enter.

1. Set parameters as follows:

OSD Language: The default is “English”.

OSD Theme: Press ◀▶ keys to select a color for menu.

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

Optical Output: The receiver can output two types of digital audio signal via S/P DIF port. If your digital amplifier has Dolby digital decoder, set it to “AC3 Bypass” to output encoded signal. Otherwise, set it to “PCM” to output decoded signal.

Note: *If there is no Dolby digital provided in the program, even though you set it to “AC3 Bypass”, program cannot be played with Dolby sound.*

Guide Default: Press ◀▶ keys to select Full or Simple.

Transparency: Press ◀▶ keys to select a transparency level.

Sleep Timer: You can press ◀▶ keys to set a sleep timer, so that the receiver will switch to standby mode automatically.

2. Press **EXIT** key to save and exit.



8.2 Screen Setting

Select Main Menu → Setup → Screen Setting and press **OK** key to enter.

1. Set parameters as follows:

TV Type: Press ◀▶ keys to select 4:3 or 16:9.

Resolution: Press ◀▶ keys to select a proper video resolution.

Note: *If your TV does not support the selected resolution, there is no video output on screen. In this case, press **FORMAT** key repeatedly until the video appears again.*

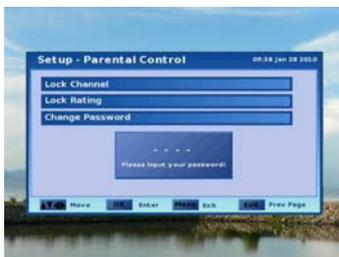
Screen Format: Press ◀▶ keys to select a proper screen format.

2. After pressing **EXIT** key, a message box pops up for confirmation.
3. Select “YES” and press **OK** key to confirm or select “NO” and press **OK** key to cancel the operation.



8.3 Parental Control

Select Main Menu → Setup → Parental Control and press **OK** key to enter. The system lock password is required to activate the setting. The default is “1234”.



1. Lock Channel

You can set channel lock to restrict viewing of some channels. Highlight "Lock Channel" and press **OK** key to display lock channel window.

❖ Lock a Channel

1. Press **▲▼** keys to select a channel.
2. Press **OK** key to lock this channel, and mark it with "🔒". If you want to cancel this setting, press **OK** key again.
3. Press **EXIT** key to save and exit.



❖ Lock all Channels

1. Press arrow keys to highlight "Lock All".
2. Press **OK** key to confirm, and all channels are locked with "🔒".
3. Press **EXIT** key to save and exit.

❖ Unlock all Channels

1. Press arrow keys to highlight "Allow All".
2. Press **OK** key to confirm, and all channels are unlocked.
3. Press **EXIT** key to save and exit.



Notes:

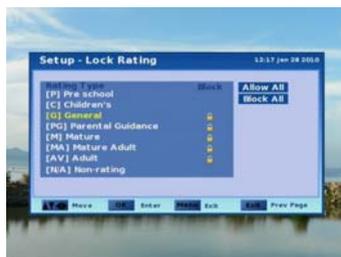
- **The system lock password is required to view programs of the locked channels.**
- **If any channel is locked, the system lock password is required to enter some menus, such as Auto Scan, etc.**

2. Lock Rating

You can set parental control rating to restrict viewing of some programs set by your local operator. Highlight "Lock Rating" and press **OK** key to display lock rating window.

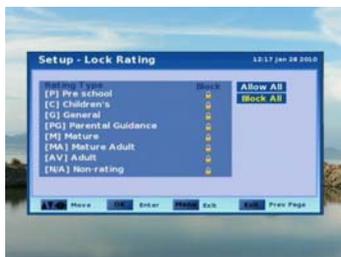
❖ Block by Rating

1. Press **▲▼** keys to select a rating.
2. Press **OK** key to confirm, and this rating along with all ratings beyond this rating are blocked with "🔒".
3. Press **EXIT** key to save and exit.



❖ Block all Programs

1. Press arrow keys to highlight "Block All".
2. Press **OK** key to confirm, and all ratings are blocked with "🔒".
3. Press **EXIT** key to save and exit.



❖ **Allow all Programs**

1. Press arrow keys to highlight “Allow All”.
2. Press **OK** key to confirm, and all ratings are unblocked.
3. Press **EXIT** key to save and exit.

Note: The system lock password is required to view programs beyond set rating.

3. Change Password

The default system lock password is “1234”. You can change this password if necessary.

1. Highlight “Change Password” and press **OK** display change password window.
2. Press number keys to input new password.
3. Press number keys to input new password again for confirmation.

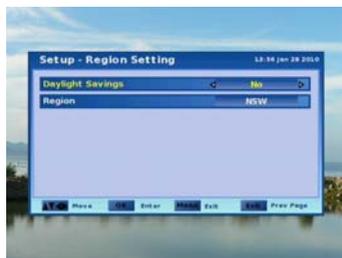
Note: Don't forget the password. Once forget it, please ask you local operator for help.



8.4 Region Setting

Select Main Menu → Setup → Region Setting and press **OK** key to enter.

1. Set parameters as follows:
 - Daylight Savings:** Press ◀▶ keys to select Yes or No.
 - Region:** Press ◀▶ keys to select a region.
2. Press **EXIT** key to save and exit.

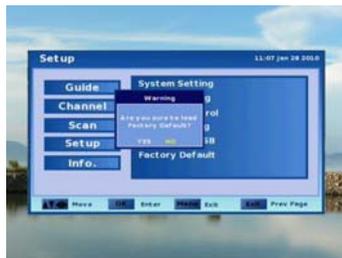


8.5 Factory Default

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

Select Main Menu → Setup → Factory Default and press **OK** key. After inputting correct system lock password, a warning box pops up for confirmation. Select “YES” and press **OK** key to confirm or select “NO” and press **OK** key to cancel the operation.

Note: The installation guide will run after restoring factory default.



9. System Information

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

Select Main Menu → Info → System Information and press **OK** key to enter.

10. Software Upgrade by USB

⚠ Warning: Don't turn off the receivers during software upgrade.

Select Main Menu → Setup → Upgrade by USB and press **OK** key to display upgrade by USB window.

Note: USB device should be connected to USB port on front panel before operation.

1. Highlight "Upgrade File" and press ◀▶ keys to select an upgrade software.
2. Highlight "Start" and press **OK** key to upgrade. During software upgrade, upgrade progress bar is displayed on screen.
3. After upgrade, the receiver restarts automatically.



11. Appendix

11.1 Trouble Shooting

DISPLAY on front panel is off

-  1. Power cord is disconnected. Make sure power cord is plugged into a proper power socket.
2. The receiver is turned off. Turn it on.

DISPLAY on front panel is on, but no sound and picture on TV screen

-  1. The receiver is in standby mode. Press  key to switch it to operation mode.

No signal

-  1. Signal cable is disconnected. Connect signal cable correctly.
2. Program parameters are set wrongly. Set correct parameters.

No sound

-  1. Audio cable is disconnected or incorrectly connected. Connect audio cable correctly.
2. The receiver is in mute mode. Press  key to restore sound.
3. Volume is set to minimum. Increase volume to a proper level.
4. Audio parameter is set wrongly. Set a proper audio parameter.

No picture

-  1. Video cable is disconnected or incorrectly connected. Connect video cable correctly.
2. The receiver is in radio mode. Switch it to TV mode if you need.

Video and audio mismatch, or absonant sound

-  1. Audio parameter is set wrongly. Select a proper audio parameter.

Poor quality picture

Weak signal. Connect signal cable securely.

RCU doesn't work

-  1. No enough power in batteries. Replace the batteries.
2. RCU is not aimed at the receiver. Aim RCU at the receiver.

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

11.2 Specification

Tuner	
Frequency	174 ~ 860MHz UHF & VHF
Bandwidth	7 or 8MHz
Level	-72 ~ -20dBm
Impedance	75 Ω
Channel Decoding	
Demodulation	QPSK, 16QAM, 64QAM
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Mode	8K or 2K
Guard Band	1/4, 1/8, 1/16, 1/32
Demultiplexer	
Standard	ISO/IEC 13818-1
Input Max. Bit Stream Rate	60Mbps (Serial)/7.5Mbps (Parallel)
Audio Decoding	
Standard	ISO/IEC 13818-3
Channel	Mute, Left, Right and Stereo
Sampling Frequency	32, 44.1, 48KHz
Video Decoding	
Standard	ISO/IEC 13818-2
Aspect Ratio	4:3 Full, 4:3 Letter, 4:3 Zoom, 16:9 Full, 16:9 Letter
Resolution	1080i/720p/576p/576i
AV Output	
Video De-emphasis	CCIR REC.405-1, 625LINES
Video Bandwidth	5.5MHz
Video Output Impedance	75 Ω
Video Output Level	1.0V peak to peak
Audio Output Frequency	20Hz ~ 20KHz
Audio Output Impedance	Low
Power Supply	
Input Voltage	100-240V ~ 50/60Hz
Power Consumption	20W max.
Standby Power Consumption	0.4W approx.
Physical	
Operation Temperature	0°C ~ 40°C
Storage Temperature	-40°C ~ +60°C
Storage Humidity	≤93%

11.3 Acronym

CVBS	Composite Video Broadcast Signal
DVB	Digital Video Broadcasting
EPG	Electronic Program Guide
FTA	Free to Air
HDMI	High Definition Multimedia Interface
HDTV	High Definition Television
LCN	Logical Channel Number
LNB	Low Noise Block
MUX	Multiplexer
NIT	Network Information Table
OSD	On Screen Display
PID	Packet Identifier
RCA	Radio Corporation of America
RF	Radio Frequency
SDTV	Standard Definition Television
S/P DIF	Sony/Philips Digital Interface Format
S-VIDEO	Separate Video
USB	Universal Serial Bus



CUSTOMER CARE CENTRE



- 1 THIS PRODUCT IS WARRANTED FOR 36 MONTHS FROM THE DATE OF PURCHASE.** Subject to the conditions of this warranty, the Customer Care Centre will perform necessary service on the product without charge for parts, or labour if, in the opinion of the manufacturer/ manufacturer's agent, the product is found to be faulty within the warranty period.
- 2** This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care. The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltage, accident, misuse, neglect, build-up of dirt or dust, abuse, mis-adjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
- 3** If warranty service is required you should:
 - Telephone the Customer Care Centre on 1300 662 946
 - Provide a copy of your purchase receipt that shows retailers identity and date of purchase.
 - Send or bring the product to your Customer Care Centre.
Please note that freight to and/or from your Customer Care Centre must be arranged by you.
- 4** The warranties hereby conferred do not extend to any costs associated with the delivery, handling, freighting or transportation of the product or any part thereof or replacement of and do not extend to any damage or loss occurring during, or associated with transit.

**THIS WARRANTY CARD AND THE PURCHASE DOCKET
(OR SIMILAR PROOF OF PURCHASE)
SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

**TROUBLE SHOOTING HELP LINE
1300 662 946**

Customer Care Centre
562 Spencer Street, West Melbourne
VICTORIA 3003

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