



HHT651

**HD** MPEG4 Digital Terrestrial Receiver

# Operating Manual



# SAFETY INFORMATION

TO REDUCE RISK OF FIRE & ELECTRIC SHOCK, DO NOT EXPOSE TO RAIN OR MOISTURE.



**CAUTION:** To reduce the risk of fire and electric shock, do not remove the receivers cover.

Service should be attempted by qualified personnel only.

The Lightning Flash with arrowhead symbol in an equilateral triangle, is an alert to the presence of uninsulated dangerous voltages within device's enclosure that may constitute a risk of electric shock.



The exclamation point in an equilateral triangle is an alert to the presence of important operation and servicing instructions in the literature accompanying the device.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH BLADES OF MAINS POWER PLUG TO SOCKET SLOTS AND FULLY INSERT.

The apparatus must not be exposed to dripping or splashing liquid. Objects filled with liquids, such as vases, must be placed on the receiver.

## IMPORTANT SAFEGUARDS

Safety is a major factor in the design of every receiver, in addition to careful attention to quality standards in manufacture. As, safety is your responsibility too, this sheet lists important information that will help to assure your enjoyment and proper use of this equipment. Please read carefully before operating or using this device.

## Installation

- All safety and operation instructions should be read before the device is operated. The safety and operating instructions should be retained for future reference.
  - Heed all Warnings - Comply with all warnings on the device and in the operating instructions.
  - This device is equipped with a polarized AC mains power plug. In the event that the plug is replaced take care to observe the correct connection of each of the wires.
  - To prevent electric shock, do not use this device with an extension cord, receptacle, or other outlet unless the blades can be fully inserted without exposing the pins.
  - Power Sources - This device should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company. For video devices intended to operate from battery power, or other sources, refer to the operating instructions.
  - Overloading - Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous, they may result in shock or fire hazard. Periodically examine the cord, and if its appearance indicates damage or deteriorating insulation, have it replaced by your service technician.
  - Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the video device. Where the Mains plug or an appliance coupler is used to disconnect the device, ensure the switch remains readily operable.
  - Ventilation - Slots and openings in the case are provided for ventilation to ensure reliable operation of the device and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the device on a bed, sofa, rug, or heat register. This video device should not be placed in a built-in installation such as a book case or rack, unless proper ventilation is provided or the manufacturer's instructions have been carefully followed.
  - Attachments - Do not use attachments unless recommended by the device manufacturer as they may cause hazards.
  - The apparatus must not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on it. **CAUTION:** Maintain electrical safety. Powerline operated equipment or accessories connected to this unit should bear safety certification mark on the accessory itself and should not be modified so as to defeat the safety features. This will help avoid defeating the safety features. This will help avoid any potential hazard from electrical shock or fire. If in doubt, contact qualified service personnel.
  - Accessories - Do not place this device on an unstable cart, stand, tripod, bracket, or table. The device may fall, causing serious injury to a child or adult as well as serious damage to the device. Use this device only with a cart, stand, tripod, bracket, or table recommended by the manufacturer's or sold with the device. Any mounting of the device should follow the manufacturer's instructions and use of a mounting accessory recommended by the manufacturer.
  - A device and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the device and cart combination to overturn.  
Note to CATV system installer  
Note to CATV system installer  
This reminder is provided to call the CATV system installer's attention to proper device grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.
  - Outdoor Antenna Grounding - If an outside antenna or cable system is connected to the device, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 [Section 54 of Canadian Electrical Code, Part I] provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
  - Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching or approaching such power lines or circuits, as contact with them might be fatal. Installing an outdoor antenna can be hazardous and should be left to a professional antenna installer.
  - Use
  - Cleaning - Unplug this device from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
  - Objects that may touch dangerous voltage points or "short-out" parts could result in a fire or electric shock. Never spill liquid of any kind on the device.
  - Lightning - For added protection for this device during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the device from lightning and power line surges.
  - Service - Do not attempt to service this device yourself, as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel.
  - Conditions Requiring Service - Unplug this device from the wall outlet and refer to qualified service personnel:
    - If the power-supply cord or plug has been damaged.
    - If liquid has been spilled, or objects have slipped into the device.
    - If the device has been exposed to rain or water.
    - If the device does not operate normally by following the operating instructions.Adjust only those controls that are covered by operating instructions. Improper adjustment of other controls may result in damage that may require work by a qualified technician to restore normal operation.
  - If the device has been dropped or cabinet has been damaged.
  - If the device exhibits a distinct change in performance.
- Replacement Parts - When replacement parts are required, have the service technician verify that they have the same safety characteristics as the original parts. Use of replacements specified by the device manufacturer can prevent fire, electric shock, or other hazards.
  - Safety Check - Upon completion of any service or repairs to this device, ask the service technician to perform safety checks recommended by the manufacturer to determine that the device is in safe operating condition.
  - Wall or Ceiling Mounting - The device should be mounted to a wall or ceiling only as recommended by the manufacturer.
  - Heat - The device should be installed away from heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that emit heat.

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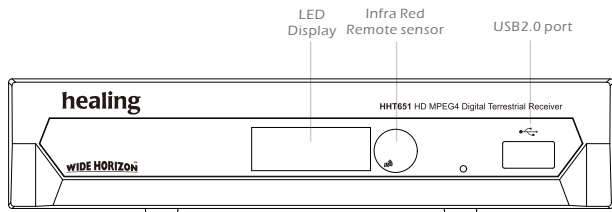
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### SPECIFICATIONS

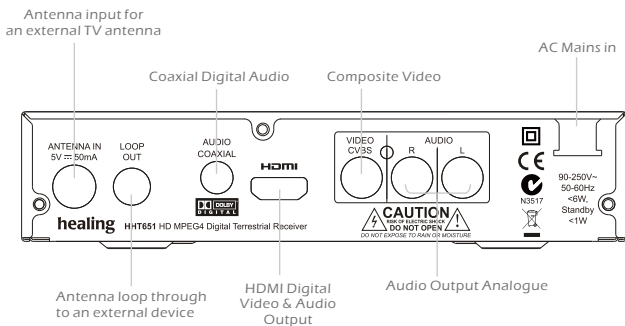
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# INTRODUCTION

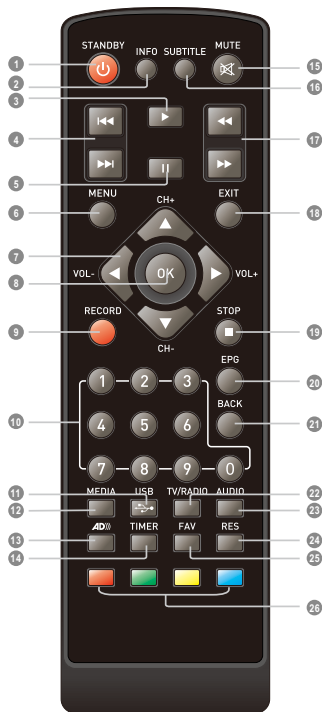
## Front panel



## Rear panel



## Remote control



- 1 STANDBY  
[Switches receiver on and off]
- 2 INFO  
[Press to see tuned channel information]
- 3 PLAY [Starts playing selected file]

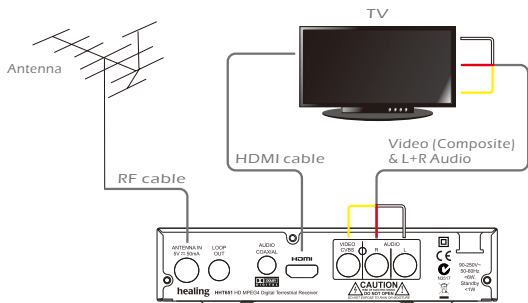
- 4 Previous/Next
- 5 PAUSE [Pauses replay or starts TimeShift]
- 6 Menu  
[Opens or closes the menu display]
- 7 Cursor/CH+/-/VOL+/-  
[Cursor: Navigation keys used to navigate menus and items]  
[CH+/-: Channel Up and Down]  
[VOL+/-: Volume Up and Down]
- 8 OK key  
[Confirms a selection within menu]
- 9 RECORD  
[Records the tuned TV program to your USB storage device]
- 10 Number keys  
[Select programs by number and enter numerical values]
- 11 USB  
[Enters USB menu when storage device connected]
- 12 MEDIA  
[Enters Media Player menu when storage device connected]
- 13 AD [Turn off/on the Audio Description]
- 14 TIMER  
[Timer wake-up]
- 15 MUTE [Switch sound off or on]
- 16 SUBTITLE [Engage or disengage Closed Caption Subtitles where available]
- 17 REV [Rewind through file playing, x 2 to x 24]  
FWD [Fast forward through file playing, x 2 to x 24]
- 18 EXIT [Exit from menu]
- 19 STOP
- 20 EPG  
[Opens the Electronic Program Guide Menu]
- 21 BACK  
[Switch to last channel]
- 22 TV/RADIO  
[Select audio only Radio services where available]
- 23 AUDIO  
[Selects sound mode and track menu]
- 24 RES [Switch HDMI resolution]
- 25 FAV [Open the Favorites list]
- 26 RED/GREEN/YELLOW/BLUE keys  
[Access Interactive and Submenu functions]

# SYSTEM CONNECTION

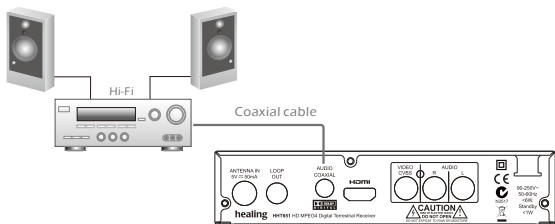
## General

There are many different types of TV display and HiFi equipment to which you can connect to your receiver. In this manual you will see some of the more common ways to connect your equipment.

## Connecting the TV



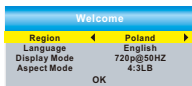
## Connecting a HiFi system



# GETTING STARTED

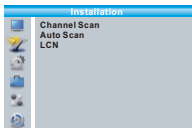
## Welcome

Using the receiver for the first time, the "Welcome" menu appears. Ensure a functional TV antenna is connected. Default parameters provide a simple path to Scan for channels in Australia. Simply press the "OK" key to start channel search.



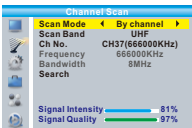
## Installation (outside Australia)

- 1 Press the "MENU" key to enter the main menu.
- 2 Press "UP" or "DOWN" key until the "Installation" menu appears, press the "RIGHT" key to enter the Installation menu.
- 3 Choose from Manual or Automatic channel scan below.



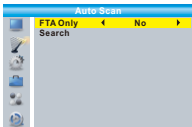
### Manual Channel Scan

- 1 Press the "UP" or "DOWN" key to select "Channel Scan", press the "OK" key to enter the Channel Scan menu.
- 2 Use the cursor keys to select Scan mode, Scan Band, Channel No., Frequency and Bandwidth. Then select "Search" and press the "OK" key to start channel scan.



### Automatic Channel Scan

- 1 Press the "UP" or "DOWN" key to select "Auto Scan", press the "OK" key to enter Auto Scan menu.
- 2 Select "Search" and, press the "OK" key to start auto scan.



### LCN

If LCN (Logical Channel Numbering) is selected, you can't change the original number of TV channels by scan. LCN function can be activated or deactivated by selecting "LCN" on/off in the menu.

# OPERATION

## Changing Channels

There are three ways of selecting channels - stepping through the channel list, selection by number or from the on-screen channel list.

- ① Stepping through the channel list:  
Press the "Up" or "Down" (CH+ CH-) arrow keys on the remote control to move through the channel list,
- ② Selected by number:  
Enter channel numbers directly by pressing the corresponding number keys. Pressing the "OK" key will engage these selections more quickly.
- ③ Selected by on-screen channel list:  
You can also select channels from the on-screen channel list displayed by pressing the "OK" key.

## Accessing the Electronic Program Guide (EPG)

### Accessing the all channel EPG:

- ① The "EPG" is a shortcut key that reveals the EPG menu .
- ② Press any cursor key to switch between Channel List, Event Schedule of the selected channel, Now and Next events.
- ③ Press the "Green" key to Timer select an event.
- ④ Press the "Red" key to display PVR "Time Bar" options.

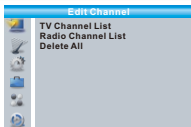




# EDIT CHANNEL

## Edit Channel menu

- 1 Press the "MENU" key to enter main menu.
- 2 Press "UP" or "DOWN" key to highlight "Edit Channel", press the "RIGHT" key to enter Edit Channel menu.
- 3 Press "UP" or "DOWN" cursor key to select an item  
Press the "OK" key to enter the sub-menu.
- 4 Press "EXIT" key to exit.

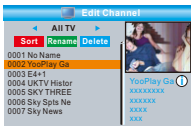


## TV Channel list

- 1 In the Edit Channel menu, select "TV Channel List", press the "OK" key to enter TV channel list menu.
- 2 Press the "UP" or "DOWN" key to select a channel, press the "OK" key to preview.

Use this menu to select favorites, lock, skip, move, sort, delete or rename channels.

- Press the "FAV" key, then press "OK" key to edit the FAVORites function.
- Press a "color" key, then "OK" to edit the corresponding function.



## Radio Channel list

- 1 In the Edit Channel menu, select "Radio Channel List", press "OK" key to enter the Radio Channel list menu.
- 2 Press "UP" or "DOWN" key to highlight channel press the "OK" key to listen the desired Radio channel.

**NOTE:** the "Radio Channel List" operates in a similar way to the "TV Channel List".

## Delete All

- 1 In the Edit Channel menu, select "Delete All", press the "OK" key.  
You are asked to enter password (default password is "0000").
- 2 A warning window appears.  
Select "Yes", press "OK" key to delete all channels.  
Select "No", Press "OK" key to cancel channel deletion.

Warning! Do you really want to delete all channels?

Yes

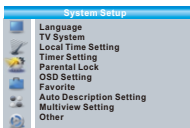
No

# SYSTEM SETUP

## System setup menu

System setup menu allows selection of Language, TV System, Local Time, Time offset, Parental Lock, OSD Setting, Favorites, Audio Description, Multiview and more.

- 1 Press the "MENU" key to enter main menu.
- 2 Press "UP" or "DOWN" key to highlight "System Setup", press "RIGHT" key to enter the System Setup menu.
- 3 Press "UP" or "DOWN" cursor key to highlight the desired item and press "OK" key to enter the sub-menu.
- 4 Press the "EXIT" key to exit.



## Language

To avoid the possibility of users getting lost in a foreign language menu, Language selection has been set to English and all other options are disabled.



## TV System

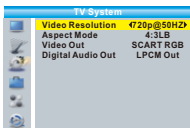
This menu allows you to set Video Resolution, Aspect Mode, Video Out and Digital Audio Out modes.

Video Resolution: By Source/By Native/480i/480p/576i/576p/720p@50HZ/720p@60HZ/1080i@50HZ/1080i@60HZ/1080p@50HZ/1080p@60HZ

Aspect Mode: Auto/4:3PS/4:3LB/16:9

Video Out: Composite CVBSand HDMI

Digital Audio Out: Linear Pulse Code Modulation or Bitstream



## Local Time Setting

This menu allows you to set the region and time.

Region: This menu is used for changing the region setting.

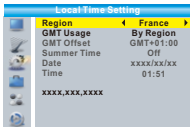
GMT Usage: This menu is used for open the usage of GMT. The options are : By Region/User Define/Off

GMT Offset: This menu is valid only when selected "User Define" in GMT Usage menu. The GMT offset range is "-11:30 ~ +12:00", increasing progressively in half hour segments.

Summer Time: The options are: On and Off

Date: "Date" and "Time" menus are active only when "Off" is selected in the GMT Usage menu.

Time: Press the number keys to enter a time value.



## Timer Setting

This menu allows you to set up to 8 program timers.

- Timer Mode:** Off, Once, Daily, Weekly or Monthly  
**Timer Service:** Channel (viewing) or Record  
**Wakeup Channel:** You can select a default wake-up channel.  
**Wakeup Date:** Press number keys to select date.  
**On Time:** Press number keys to select the start time.  
**Duration:** Press number keys to select the duration.



## Parental Lock

This menu allows you to protect menus and channels from unauthorized access, and to change the Password.

- In "System Setup" menu, select "Parental Lock" and press the "OK" key. You are asked to enter a password (default password is "0000").
- After entering the correct number password, the parental lock menu displays.

**Menu Lock:** To lock the Edit channel/ Installation menu. To enter these menus, you must enter the password. You can set menu lock to On or Off.

**Rating Lock:** Select On to limit program access according to program ratings.

**New Password:** To change the password.

**Confirm Password:** Confirm a new password here.

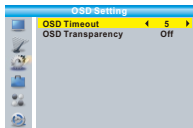


## OSD Setting

Here you can set On Screen Display Timeout and Transparency.

**OSD Timeout:** 1-10

**OSD Transparency:** To set the OSD transparency to Off, 10%, 20%, 30% or 40%.



## Favorite

This menu allows you to name and rename favorite groups.

- In the Channel menu, select "Favorite", press "OK" key to enter Favorite menu.
- Select a group, press the "OK" key to open the on screen keypad. Enter letters and numbers one by one with the cursor keys and press "OK" to confirm. When finished, select "OK" on the on screen keypad to confirm your new Favorite group name.
- Press the "EXIT" key to exit the group rename menu.



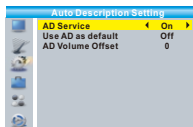
## Audio Description Setting

Where broadcast, this menu allows selection of AD Service, and AD Volume Offset:

AD Service: On or Off

Use AD as default: On or Off

AD Volume Offset: -3 to 3

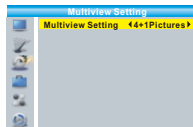


## Multiview Setting

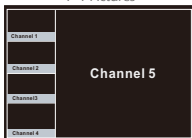
This menu allows selection of Multiview Media Player options

- In "System Setup" menu, select "Multiview Setting" and press the "OK" key, you can select either 4+1 Pictures or 3x3 Pictures.
- After you select your desired item, press "EXIT" key to exit the main menu, then press "BLUE" key to enter multiview.

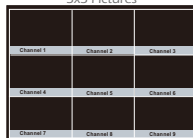
Multiview Setting: 4+1 Pictures or 3x3 Pictures



4+1 Pictures



3x3 Pictures



## Other

This menu allows us to set LNB Power, Channel Play Type, Beeper and Auto Standby.

ANT Power: On/Off

When "ANT Power" is "On", the receiver provides 5V DC at up to 60mA to the Antenna input to power an antenna signal preamplifier. "Off" disables ANT Power.

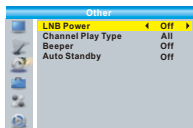
Channel Play Type: All / Free / Scrambled

Beeper: Provides an audible indication of signal quality, select On or Off.

Auto Standby: Select from 30Min, 1 Hour, 2 Hour, 3 Hour or Off.

When no command from RCU to receiver is received or timer event occurs within the time period selected, the receiver will enter Standby mode automatically at the end of the period selected.

If Off is selected, the receiver will not enter standby mode automatically.



# TOOLS

## Tools main menu

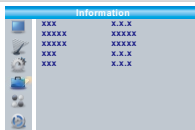
- 1 Press the "MENU" key to enter main menu.
- 2 Press "UP" or "DOWN" key to select "Tools", press the "RIGHT" key to enter the Tools menu.
- 3 Press "UP" or "DOWN" cursor key to highlight the desired item and press "OK" key to enter the sub-menu.
- 4 Press the "EXIT" key to exit.



## Information

This menu displays receiver parameter information On Screen.

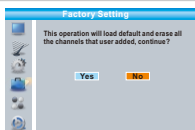
- 1 In "Tools" menu, select "Information", press the "OK" key to open information window.
- 2 Press "EXIT" key to exit.



## Factory Setting

This sub-menu allows you to re-set receiver parameters back to factory default settings and clear all existing channels.

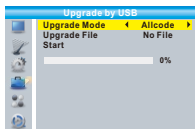
- 1 In the "Tools" menu, select "Factory Default", press the "OK" key. You are asked to enter a password (default password is "0000").
- 2 A confirmation window is displayed. Select "Yes" to reset to factory default settings and clear all channels. Select "No" to cancel and retain present parameters and channels.
- 3 Press "EXIT" key to exit.



## Software Upgrade

Operating software can be upgraded by USB storage device or Over The Air broadcast where available.

- 1 Enter "Tools" menu, select "S/W Upgrade by OTA" or "Upgrade by USB", press "OK" key, Software Upgrade menu is shown.
- 2 Press cursor key to select the desired item, then highlight "Start" and press "OK" key to start upgrade.
- 3 Press "EXIT" key to exit.



## Remove USB device safely

In "Tools" menu, select "Remove USB device safely", Press "OK" key to confirm. Disk Remove window displays. Press "OK" key again, options dim and Menu returns to "Tools"; "Information".

USB device can now be safely disconnected.



# GAME

## Game

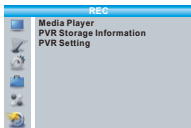
provides some games for additional user entertainment.

- ① Press the "MENU" key to enter main menu.
- ② Press "UP" or "DOWN" key until "Game" is highlighted.  
Press the "OK" key to enter Game sub menu.
- ③ Press the "RIGHT" key and then with "UP" or "DOWN" key select from Othello or Sudoku and press the "OK" key to enter the game.
- ④ Press "EXIT" key to exit.



## REC main menu

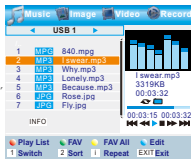
- With a USB storage device connected, press the "MENU" key.
- Press "UP" or "DOWN" key repeatedly until "REC" menu is selected, press "RIGHT" key once to enter the REC menu.
- Press "UP" or "DOWN" cursor key to select an item and press "OK" key to enter that sub-menu.
- Press "EXIT" key to exit.



## Media Player

This function allows you to play files from a USB storage device.

- From the "REC" menu, select "Media Player" and press the "OK" key to enter Media Player submenu.
- In the Media Player window, your USB storage device appears highlighted. Press the no. "1" key 1, 2 or 3 times to select from Video, Recording, Music or Image file types. Matching files list as you step.
- Press "UP" or "DOWN" cursor key to select an item, and the "OK" or Play key for the selection to play.
- Press "EXIT" key to leave.



Colour keys provide the following features within each file type:

Music:

- "RED" To show Music Play List, press the "RED" key.  
 "GREEN" To add files to playlist: highlight a file, then press the "Green" key to add. The file will be marked with a favourite icon.  
 "YELLOW" To add all files in the current directory to the play list, press the "Yellow" key. Press again to delete all current directory files from the play list.  
 "BLUE" To enter sub-menu to edit Press the "Blue" key.  
 "2" To open the sort window press the number "2" key. You can sort by Name, Time, Size or Favourite.  
 "INFO" To set Repeat play mode Press the "INFO" key. Options are Repeat Folder, Random Folder or Repeat One.  
 "EXIT" Return to parent directory.

Image:

- "RED" To show Image Play List, press the "RED" key.  
 "GREEN" To add files to playlist: highlight a file, then press the "Green" key to add. The file will be marked with a favorite icon.  
 "YELLOW" To add all files in the current directory to the play list, press the "Yellow" key. Press again to delete all current directory files from the play list.  
 "BLUE" To enter sub-menu to edit Press the "Blue" key.  
 "2" To open the sort window press the number "2" key. You can sort by Name, Time, Size or Favorite.  
 "INFO" To open image setup press the "INFO" key  
 "3" To view images in multi view mode, press the number "3" key.  
 "EXIT" key: Return to parent directory.

**NOTE:** To view 3D pictures; when browsing pictures, press the "RED" key or "GREEN" key.

Video:

- 'BLUE' To enter to edit sub-menu press the "Blue" key.  
 '2' To sort by Name, Time or Size press the number "2" key .  
 'EXIT' To return to parent directory press the "EXIT" key.

Record:

PVR Recordings play here!

- 'RED' To open the Rename window press the "Red" key.  
 'GREEN' To select a program you wish to Lock press the "Green" key.  
 Receiver will ask you to enter password. Default password is "0000".  
 Correctly entered, the program is locked. To unlock, press "Green" key again.  
 'YELLOW' To mark a program for Deletion, Press the "Yellow" key.  
 'EXIT' To return to parent directory press the "EXIT" key.

## PVR Storage Information

This sub menu displays useful USB storage device information.

- From the "REC" menu, select "HDD Information", press the "OK" key to open HDD information window.

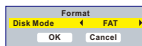
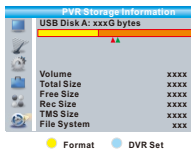
- Press the "EXIT" key to exit.

- Format options are FAT32 or NTFS

Press the "YELLOW" key to open the Format menu.  
 Press "LEFT" or "RIGHT" cursor key to change Disk Mode.  
 Select "OK" to format. Select "Cancel" to cancel.

- DVR Set(s) Record functions Record, Timeshift or REC&TMS.

Press "BLUE" key to open DVR Set menu.  
 Press "LEFT" or "RIGHT" cursor key to change mode.  
 Select "OK" to confirm or "Cancel" to cancel.  
 Red arrow indicates Record function selected, Green arrow TimeShift.

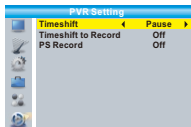


## PVR Setting

Change your PVR Setting(s) here.

Press "UP" or "DOWN" cursor key to select an item, press "LEFT" or "RIGHT" cursor key to change that setting.

- Timeshift: Auto starts TMS when a USB drive is connected, Pause when that key is pressed or Timeshift Off.
- Timeshift to Record: On converts TMS to a PVR recording by pressing the "Record" and "Stop" keys, on demand.
- PS Record: On records Program Stream: MPEG vision & sound, compatible with most media players etc.  
 Off records Transport Stream which includes VBI Sub Titles etc.  
 Info display indicates PS or TS recording.





# TIMESHIFT/RECORD

Connecting a compatible external USB Storage Device to the USB 2.0 port in your receiver enables Timeshift and PVR program Recording. This receiver can also convert TMS to PVR recordings.

- Time Shift effectively pauses a program by writing it to your USB storage device so you can continue watching it a little later. A storage section is automatically set aside for this task.
- Record writes programs to the same USB device, until the user stops it or the storage device is full. Program recordings can be viewed many times, any time.

**NOTE:**

Please use a USB 2.0 or later type storage device, not USB 1.  
A USB storage device >2GB is necessary for TimeShift and Recording.

## Timeshift

### To Initiate

- Starts when the "Pause" key is pressed or "Auto" automatically when a USB Drive is connected; in standard viewing mode. Picture freezes and status window appears:
- Advance the cursor towards the part of the recording you seek by pressing the "RIGHT" or "LEFT" key & "OK" to confirm.

### Within Timeshift

- During Timeshift playback, the following actions are possible:
- Pause the playback again by pressing the "PAUSE" key
- Fast Forward by pressing the "FORWARD" key.
- Rewind by pressing the "BACKWARD" key.

### Stop Time Shift

Press the "STOP" key.



## Record

### Instant Record

- Press "RECORD" key, in program viewing mode, to start a recording of the tuned channel. To set a recording duration press the "RECORD" key again. Default period is 02:00 hours.
- Pressing the "STOP" key reveals Stop confirmation message window. Select "Yes" to stop recording or "No" to continue.

**NOTE:**

This receiver is compatible with most USB 2.0 mass storage devices. As storage device compatibility cannot be guaranteed, please test your USB storage device in the receiver to make sure it works.

## TROUBLESHOOTING

As the TV signal may be weak in some places, particular attention to Antenna system may be necessary. In the event of poor pictures, please call an experienced TV Antenna specialist.

Problem	Possible cause	What to do
Standby light not lit	Mains lead unplugged Mains fuse blown	Check mains lead Check fuse
No signal found	Aerial is disconnected Aerial is damaged/misaligned Out of digital signal area	Check aerial lead Check aerial Check with dealer
No picture or sound	AV input is not selected on your TV	select correct AV input
Scrambled channel message	Channel is scrambled	Select alternative channel
No response to remote control commands	Receiver is off Not aimed at receiver correctly Front panel obstructed Remote control batteries exhausted	Plug in and switch on Aim handset at front panel Check for obstructions Replace handset batteries
Forgotten channel lock code		Re-install channels to cancel channel lock
Forgotten menu lock code		Contact help line
The remote control will not operate your receiver	(1) The batteries in your remote control need replacing (2) There is an obstruction blocking the signal path between the remote control and receiver.	(1) Replace the batteries (2) Check that there is nothing blocking the path between the remote control and the front of the receiver
After moving the receiver to another room you are no longer able to view digital signals	The signal from new point may come from an antenna socket that is delivering less digital signal in the other room.	Try a direct feed from the antenna  Call a specialist to repair the antenna system

# SPECIFICATIONS

<p><u>TUNER &amp; CHANNEL</u></p>	<ul style="list-style-type: none"> <li>• RF INPUT CONNECTOR x1 (IEC-TYPE, IEC 169-2, FEMALE)</li> <li>• RF OUTPUT CONNECTOR x1 (IEC-TYPE, IEC 169-2, MALE (LOOPTHROUGH))</li> <li>• FREQUENCY RANGE: 174MHz to 230MHz (VHF) 470MHz to 862MHz (UHF)</li> <li>• SIGNAL LEVEL: -15 to -70 dbm</li> </ul>
<p><u>DECODER</u></p> <ul style="list-style-type: none"> <li>• Video decoder</li> <li>• Audio decoder</li> <li>• INPUT RATE</li> <li>• VIDEO FORMATS</li> <li>• VIDEO OUTPUT</li> <li>• MODULATION</li> </ul>	<p>MPEG-2 MP@HL AVC or H.264 HP @L4.1MPEG-4 ASP MPEG-1 Layer 1,2, PCM or HE-AAC V1.0 ICE958 SPDIF, Dolby D+/ Dolby D MAX. 48Mbit/s 4:3 or 16:9 SWITCHABLE HDMI, RGB QPSK, 16QAM, 64QAM</p>
<p><u>CONNECTIONS</u></p> <ul style="list-style-type: none"> <li>• MAINS POWER CABLE</li> <li>• TUNER</li> <li>• RCA OUTPUT</li> <li>• SPDIF</li> <li>• DATA PORT</li> <li>• HDMI</li> </ul>	<p>FIXED ANTENNA INPUT x 1, RF OUTPUT x 1 CVBS/L/R x 1 COAXIAL x 1 USB-2 port HDMI OUTPUT x 1</p>
<p><u>POWER SUPPLY</u></p> <ul style="list-style-type: none"> <li>• ANTENNA POWER</li> <li>• INPUT VOLTAGE</li> <li>• POWER CONSUMPTION</li> </ul>	<p>5V DC &lt;60mA MENU SELECTED Ac90 to 250V, 50 to 60Hz TYPICAL &lt;6W STANDBY &lt;1W</p>

**NOTE:**

Design and Specifications may be subject to change without notice.



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