

— *HIGH DEFINITION TERRESTRIAL RECEIVER*

HD-7000

PLEASE READ THIS MANUAL CAREFULLY BEFORE
SETTING UP YOUR HD TERRESTRIAL RECEIVER.



User's Manual

HUMAX
your prime time

Notice

Thank you for purchasing a HUMAX HD Receiver. Please read this user manual carefully, to be able to safely install, use and maintain the HD Receiver at maximum performance. Keep this user manual next to your HD Receiver for future reference.

Throughout the whole manual, **Note** mark indicates additional information to the user to make the user aware of possible problems and information of any importance to help the user to understand, to use and to maintain the installation.

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Safety and Warning

This HD Receiver has been manufactured to comply with international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions



To reduce the risk of electric shock, do not remove cover(or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



This symbol indicates **dangerous voltage** inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

1. MAINS SUPPLY

90 – 250 V AC 50/60Hz

Operate this product only from the type of power supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the product from the mains before you start any maintenance or installation procedures.

2. OVERLOADING

Do not overload a wall outlet, extension cord or adapter as this may result in electric fire or shock.

3. LIQUIDS

The product should not be exposed to any liquids such as dripping or splashing. In addition, no objects filled with liquids, such as vases, should be placed on the apparatus.

4. CLEANING

Disconnect the product from the wall outlet before cleaning. Use a light damp cloth (no solvents) to dust the product.

5. VENTILATION

The slots on top of the product must be left uncovered to allow proper airflow to the unit. Do not stand the product on soft furnishings or carpets. Do not stack electronic equipments on top of the product.

6. ATTACHMENTS

Do not use any unsupported attachments as these may be hazardous or cause damage the product.

7. CONNECTION TO THE AERIAL or TV.

Disconnect the product from the mains before connecting or disconnecting the cable from the Aerial or TV. Failure to do so can damage the Aerial or TV.

8. EARTHING

The aerial cable must be buried in the ground. The buried cable of the system must comply with SABS 061.

9. LOCATION

Place the product indoors to avoid exposing it to lightening, rain or sun.

Do not place it near a radiator or heat register.

Make sure it has more than 10 cm clearance from any appliances susceptible to electromagnetic influences, such as a TV or a VCR.

Do not block these openings with any object, and do not place the product on a bed, sofa, rug, or other similar surface.

If you place the product on a rack or bookcase, ensure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.

Do not place the product on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance.

10. LIGHTNING, STORM, or NOT IN USE

Unplug the product from the wall outlet and disconnect the aerial during a thunderstorm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-surges.

11. EXTRANEIOUS OBJECTS

Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts

12. REPLACEMENT of PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorised substitution may result in additional damage to the unit.

Warning

1. Follow these directions in order not to damage the power cord or plug.
Do not modify or process the power cord or plug arbitrarily.
Do not bend or twist the power cord too much.
Make sure to disconnect the power cord with the plug held.
Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
2. Follow these directions. Failure to follow one of them may cause electrical shock.
Do not open the main body.
Do not insert metals or inflammable objects inside the product.
Do not touch the power plug with wet hands.
Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, serious damage can be caused to it. Make sure to contact your local product distributor if the product is out of order.
4. Please do not insert metal or alien substance into the slots for the modules and smart cards. In doing so can cause damage to the HD Receiver and reduce its life span.

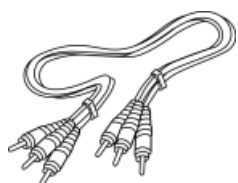
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Before Using HD Receiver

1. Package Contents



RCA Cable



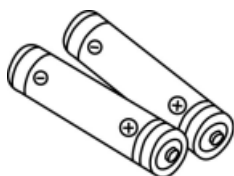
RF Cable



Component (YPbPr) Cable



Remote Controller



AAA Batteries



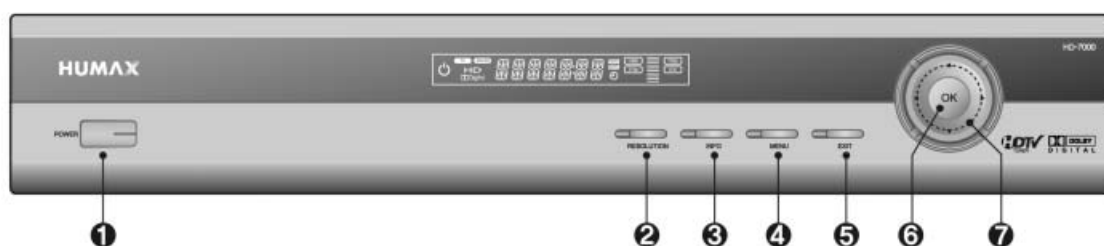
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Warranty Card

2. Front

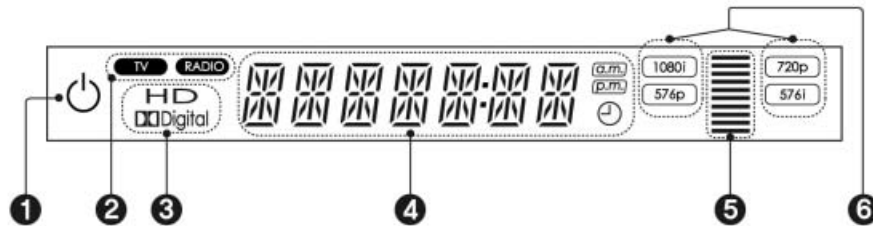
2.1 Front Panel



- 1. POWER button**
Switches between Operation and Standby modes.
- 2. RESOLUTION button**
Changes the output resolution (1080i/720p/576p/576i). The HD Receiver outputs signals in the selected resolution regardless of input source format.
- 3. INFO button**
Displays the i-plate.
- 4. MENU button**
Displays the main menu.
- 5. EXIT button**
Exits the main menu or guide screen.
- 6. OK button**
Selects a menu or confirms the selected operation.
- 7. ARROW buttons**
Changes the channel or moves the highlighter to the up, down, left, or right menu option.

Before Using HD Receiver

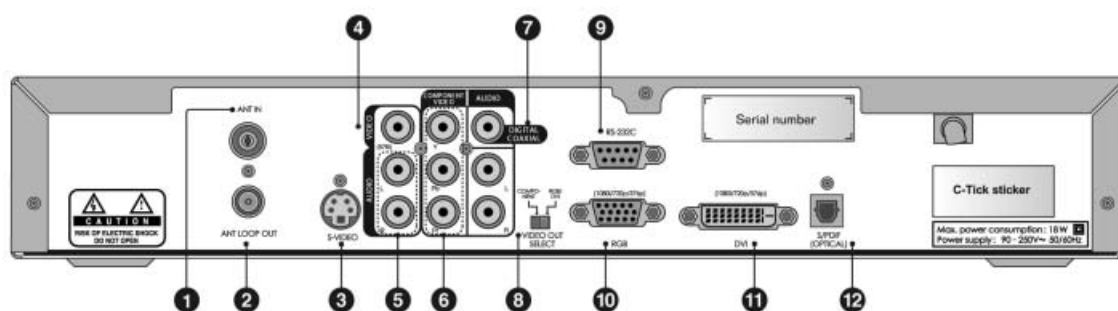
2.2 Display (VFD)



- 1. STANDBY indicator**
Displayed when the HD Receiver is in standby mode.
- 2. TV/RADIO indicator**
Indicates TV or Radio mode.
- 3. A/V Type indicator**
Dolby Digital is displayed when the audio type is dolby digital.
HD is displayed when the video picture is High Definition.
- 4. Character indicator**
Indicates channel number, volume level, time, etc.
- 5. Signal Status indicator**
Indicates the level of signal quality.
- 6. Resolution indicator**
Indicates the output resolution.

Note: You can reset the HD Receiver when it is not operating normally. Press and Hold the Power button on the front panel for about 3 seconds. The HD Receiver will be rebooted.

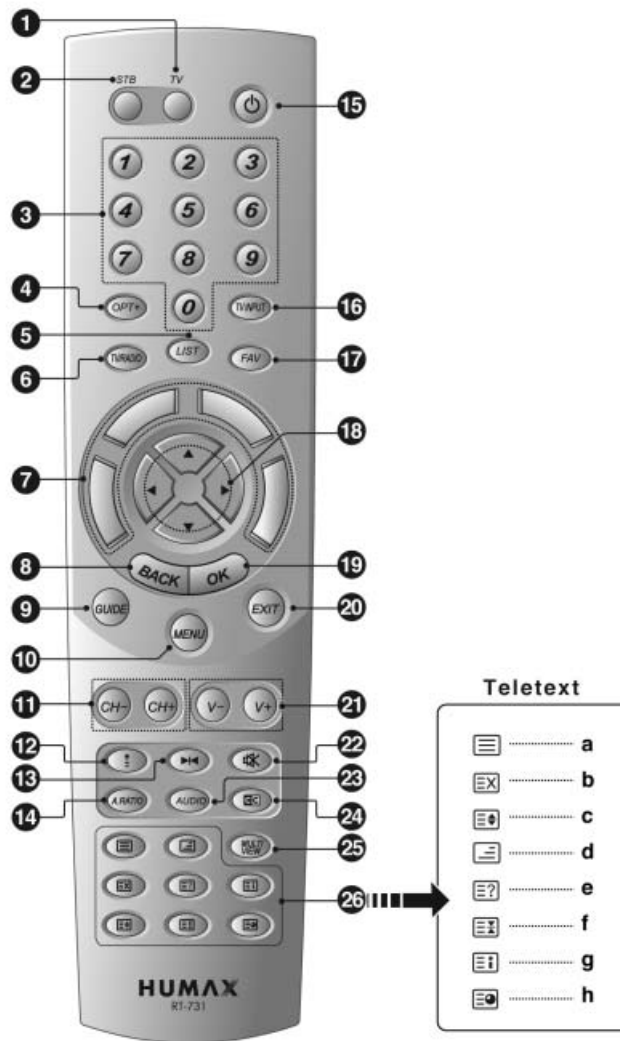
3. Rear



1. **ANT IN**
Connects an Aerial to an Antenna Input jack on the HD Receiver.
2. **ANT LOOP OUT**
Connects to an Antenna Input jack on your TV.
3. **S-VIDEO**
Connects to S-Video on your TV or VCR.
4. **VIDEO**
Connects to your TV or VCR using RCA cable to output Video signals.
5. **AUDIO L/R**
Connects to your TV or VCR using RCA cable to output Audio signals.
6. **COMPONENT VIDEO**
Connects to YPbPr on your TV.
7. **DIGITAL COAXIAL**
Connects to your Digital Amplifier to output Digital Audio (coaxial) signals.
8. **VIDEO OUT SELECT**
Selects Component or RGB/DVI.
9. **RS-232C**
Connects to your PC to update product's software.
10. **RGB**
Connects to your TV using RGB Connector.
11. **DVI**
Connects to your TV using DVI Connector.
12. **S/PDIF(OPTICAL)**
Connects to your Digital Amplifier to output Digital Audio (optical) signals.

Before Using HD Receiver

4. Remote Controller



- 1. TV**
Controls TV.
- 2. STB**
Controls Set-Top Box (HD Receiver).
- 3. NUMERICAL (0-9)**
Enter a channel number or menu option value.
- 4. OPT+**
Displays Option List.
- 5. LIST**
Displays Channel List.
- 6. TV/RADIO**
Switches between TV and Radio modes.
- 7. RED/GREEN/YELLOW/BLUE**
Selects these for interactive applications.
- 8. BACK**
Returns to the previous screen or channel.
- 9. GUIDE**
Displays Program Guide.
- 10. MENU**
Displays Main Menu.
- 11. CH-/CH+**
Changes Channel or Page.
- 12. i**
Displays the information about the channel and program.
- 13. FREEZE:**
Freezes the TV screen you are watching.
- 14. A.RATIO**
Changes the aspect ratio of screen.
- 15. POWER**
Switches between Operation and Standby modes.
- 16. TV INPUT**
Controls the input of TV.
- 17. FAV**
Displays Favorite Channel List or edits favorite channels in Menu.
- 18. ▲/▼/◀/▶**
Change the channel or move the highlighter to the up, down, left or right menu option.
- 19. OK**
Moves to sub-menu, or confirms the selected operation.
- 20. EXIT**
Exits the Main Menu or Guide screen.
- 21. V-/V+**
Adjusts the audio volume.
- 22. MUTE**
Pauses the audio temporarily.
- 23. AUDIO**
Changes audio type.
- 24. CC**
Changes the closed caption language.
- 25. MULTIVIEW**
Displays Multiview.
- 26. TELETEXT**
 - a. TELETEXT(ON/OFF)**
Switches between Teletext and TV modes.
 - b. CANCEL**
Hides the teletext except page number.
 - c. DOUBLE SIZE**
Displays the text size as double size.
 - d. MIX**
Adjusts transparency of teletext screen.
 - e. REVEAL**
Displays the concealed information.
 - f. HOLD**
Holds the current page not updating it.
 - g. INDEX**
Moves to the index page.
 - h. SUBPAGE**
Searches the sub-page.

Note: This remote controller can also control your TV. To set the remote controller for your TV, please refer to Programming Remote Controller. In TV mode, the STANDBY, TV INPUT, NUMERICAL(0-9), CH-/CH+, V-/V+, MUTE buttons are supported.

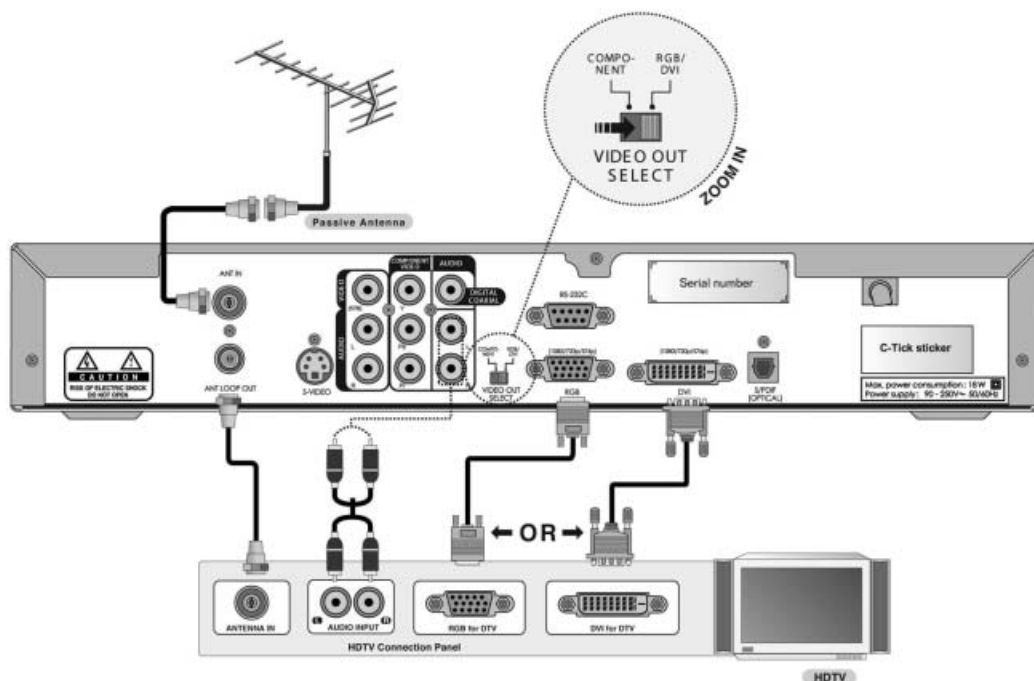
Installation

1. Antenna/TV/VCR Connection

The HD Receiver provides various interface to connect to TV, VCR, or other device. You can select one or more of the following ways of connection depending on your convenience.

1.1 Using RGB/DVI Connector

The RGB/DVI connection is recommended for Digital TV.



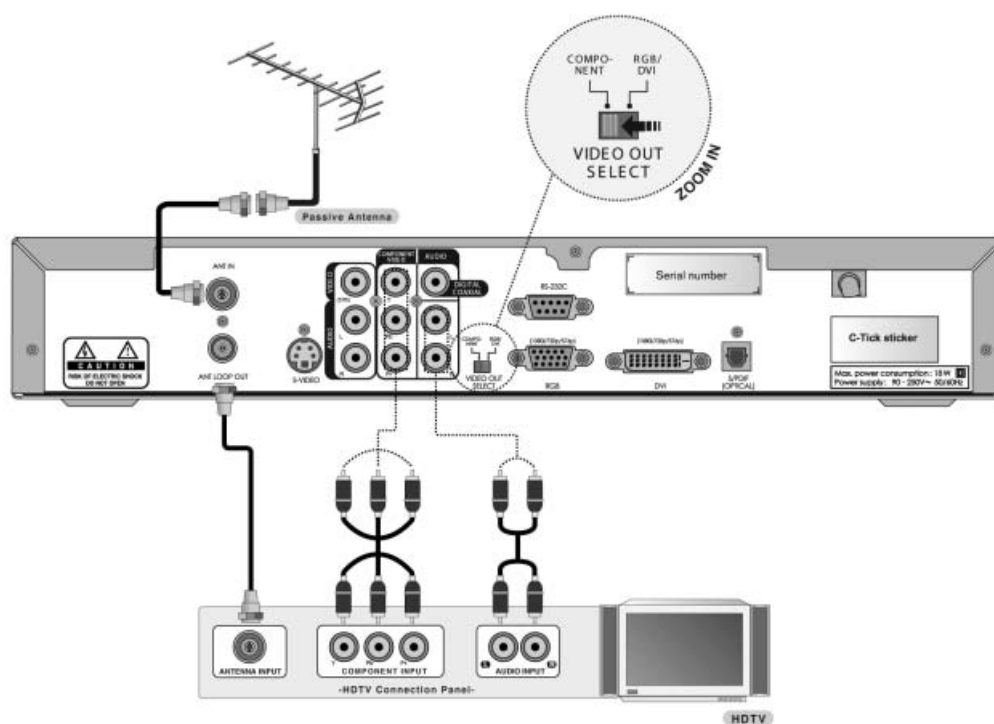
- 1 Connect **Aerial** to **ANTENNA IN** on the HD Receiver using the RF cable.
- 2 Connect **ANT LOOP OUT** on the HD Receiver to **ANTENNA IN** on the TV using the RF cable.
- 3 Connect **RGB/DVI** on the HD Receiver to **RGB/DVI for DTV** on the TV using the RGB/DVI-D connector.
- 4 Connect **AUDIO OUT L/R** on the HD Receiver to **AUDIO IN L/R** on the TV using the RCA cable.
- 5 Set **VIDEO OUTPUT SELECT** to **RGB/DVI**.

Note:

- This connection supports 1080i, 720p, and 576p modes.
- Black screen will be displayed when VIDEO OUT SELECT is set to Component or resolution is set to 576i.
- Some Digital TVs or Monitors support only RGB/DVI-D for PC. Therefore, they may not work with this connection.

1.2 Using Component Cable

The Component connection is recommended for Digital TV.



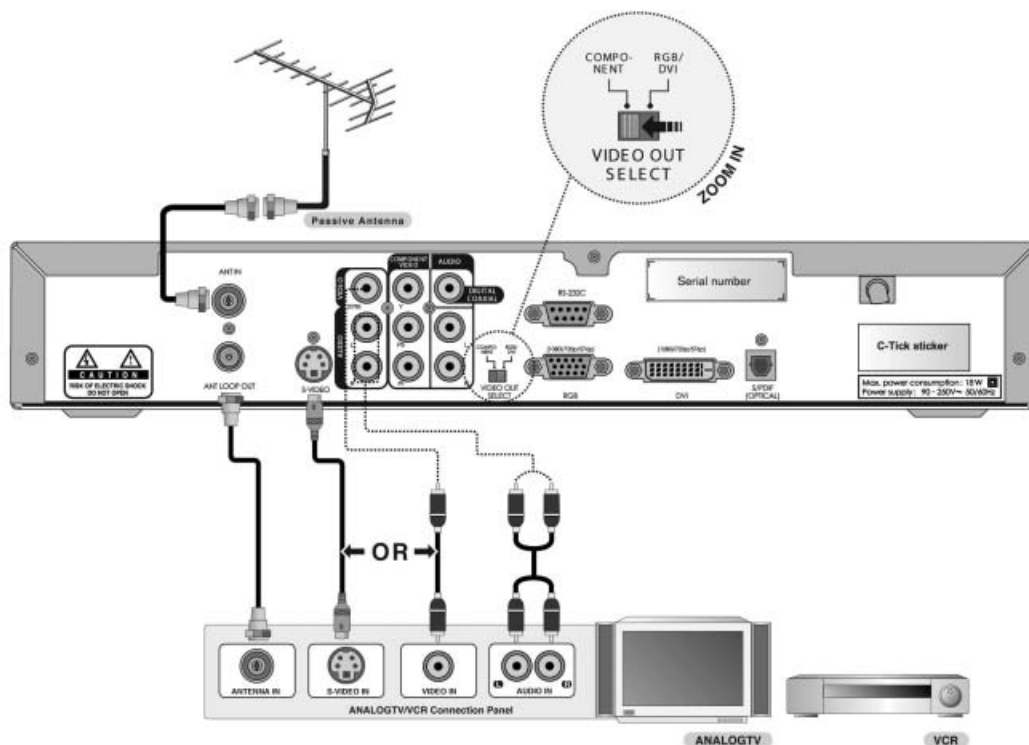
- 1 Connect **Aerial** to **ANTENNA IN** on the HD Receiver using the RF cable.
- 2 Connect **ANT LOOP OUT** on the HD Receiver to **ANTENNA IN** on the TV using the RF cable.
- 3 Connect **COMPONENT VIDEO OUTPUT** on the HD Receiver to **COMPONENT IN** on the TV using the component cable.
- 4 Connect **AUDIO OUT L/R** on the HD Receiver to **AUDIO IN L/R** on the TV using the RCA cable.
- 5 Set **VIDEO OUTPUT SELECT** to **COMPONENT**.

Note: This connection supports 1080i, 720p, 576p, and 576i modes.

Installation

1.3 Using S-VIDEO/Video Cable

The S-VIDEO/Video connection is recommended for Analog TV or VCR.

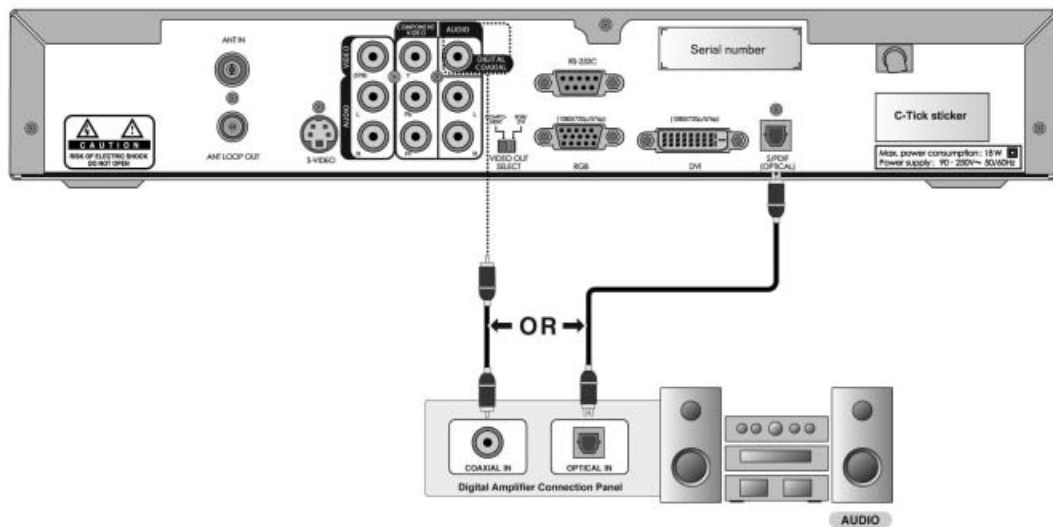


- ❶ Connect **Aerial** to **ANTENNA IN** on the HD Receiver using the RF cable.
- ❷ Connect **ANT LOOP OUT** on the HD Receiver to **ANTENNA IN** on the TV using the RF cable.
- ❸ Connect **S-VIDEO/VIDEO** on the HD Receiver to **S-VIDEO/VIDEO** on the TV using the S-Video/Video cable.
- ❹ Connect **AUDIO OUT L/R** on the HD Receiver to **AUDIO IN L/R** on the TV using the RCA cable.
- ❺ Set **VIDEO OUT SELECT** to **COMPONENT**.

Note: Only when Resolution is set to 576i mode, you can use product's full functions including OSD (On-Screen Display) and Multiview. **In other modes, OSD and Multiview are restricted.**

Resolut	OSD	AV	Multiview
576i	O	O	O
576p	X	O	X
720p	X	O	X
1080i	X	O	X

2. Digital Amplifier Connection



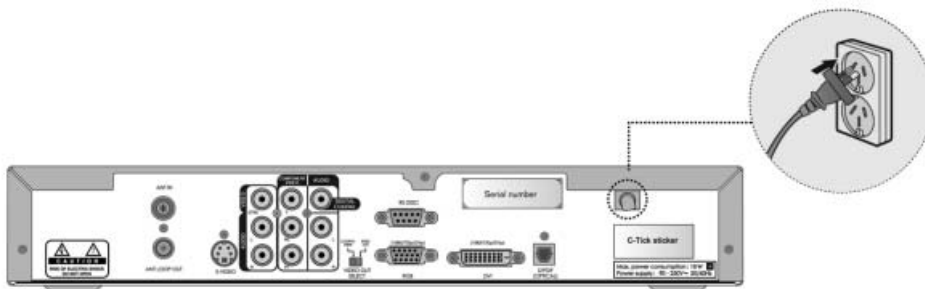
Select one of the following ways of connection depending on your convenience.

- Connect **S/PDIF(OPTICAL)** on the HD Receiver to **OPTICAL INPUT** on the amplifier using the digital audio cable.
- Connect **Digital COAXIAL** on the HD Receiver to **COAXIAL INPUT** on the amplifier using the digital audio cable.

Installation

3. Powering on

1. Connect the power cord of the HD Receiver to a wall outlet.



2. Press the **STB** (📺) button to switch to the HD Receiver mode.
3. Press the **POWER** (🔌) button to power on the HD Receiver.



4. Automatic Channel SCAN

After powering on your HD Receiver for the first time after purchasing, the "No channels available. Press OK to search channels." message will be displayed.

You can start automatic channel scan by pressing the **OK** (👉) button.

Basic Operation

You can see the basic operation for watching programs. You can define a channel as Favorite/Blocked/Skipped channel. In addition, you can adjust the viewing environment by your preferences with quick buttons such as A.RATIO, CC, etc.

1. Switching Channel

You can change a channel in various ways:

- Press the **CH-/CH+** (⏪/⏩) or ▲/▼ button to increase or decrease channel number.
- Enter your desired channel number using the **NUMERICAL** (0-9) button to move to the channel directly.
- Press the **BACK** (⏮) button to return to the previous channel.
- Press the **TV/RADIO** (📺) button to toggle between TV and Radio channels.

Note: You can switch a channel using Channel List or Program Guide.

i-plate

You can see the channel or program information called i-plate when switching channels or pressing the **i** (i) button while watching a program. There are two versions of i-plate – compact and full.

1. i-plate (compact)

You can see it whenever switching channels or pressing the **OK** (⏹) button while watching a program.

- Channel number/name
- Icons:

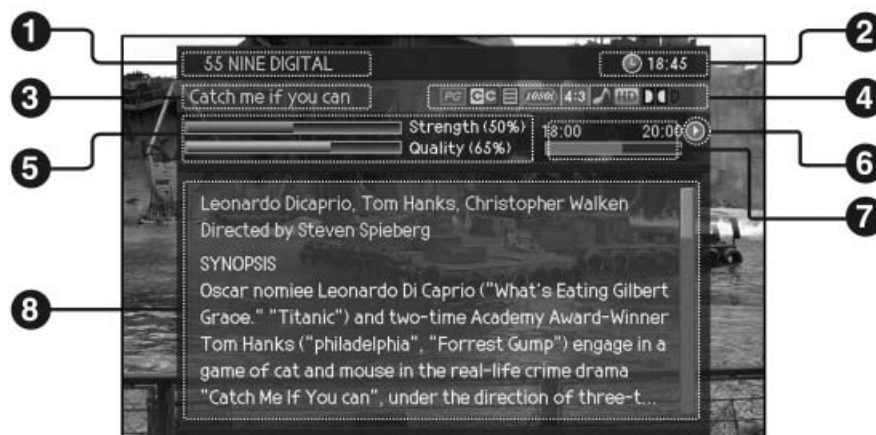
HD/SD	Indicates the current program provides HD (High Definition) or SD (Standard Definition).
Dolby Digital/MPEG	Indicates the current program provides Dolby Digital or MPEG.



Basic Operation

2. i-plate (full)

Press the **i** (i) button to view the full i-plate while watching a program.



- ❶ Channel number/name
- ❷ Current time
- ❸ Program name
- ❹ Icons:

HD/SD	Indicates the current program provides HD(High Definition) or SD(Standard Definition).
Dolby Digital /MPEG	Indicates the current program provides Dolby Digital or MPEG.
Parental rating	Represents parental level. It indicates the minimum level of ages that the program is targeted at.
Closed caption	Displays if the current program provides closed caption.
Wide	Displays if the current program is displayed in wide picture format.
Picture resolution	Indicates the current program's picture resolution.
Teletext	Displays if there is any teletext information.
Radio	Indicates Radio channel.

- ❺ Signal strength/quality : Indicates the signal level of the current channel.
- ❻ Next program information : Displays if next program information is provided. Press the ► button to display the next program information.
- ❼ Program broadcasting time : Indicates the playing time of the current program.
- ❽ Extended information : Displays when the extended program information is available.

Note:

- Press the **i** (i) button to hide i-plate.
- If the extended program information is more than one page, use the ▲/▼ button to move to the previous or next page.

2. Controlling Volume

- Press the **V-/V+** (🔊/🔊) or ◀/▶ button to adjust the audio volume.
- Press the ◀/▶ button on the front panel of the HD Receiver to adjust the audio volume in normal viewing.



Muting Volume

Press the **MUTE** (🔇) button to stop the sound temporarily. The mute icon (🔇) will be displayed on the lower right corner of the screen.

3. Motion Still

- Press the **FREEZE** (⏸) button to pause the current program. The freeze icon (⏸) will be displayed on the lower right corner of the screen.
- Press the **FREEZE** (⏸) button again to continue the program.

Note: The frozen image returns to live video after 5 minutes.



4. Channel List

There are 3 types of channel lists – TV, Radio, and Favorite - to search channels quickly and easily. TV and Radio Channel lists display all searched channels sorted by channel number. Favorite Channel list displays the list of channels defined as your favorites.



Basic Operation

Switching Channels using Channel List

- 1 Press the **LIST** (LIST) or **FAV**(FAV) button to display the TV/RADIO channel list or Favorite channel list.
- 2 Select your desired channel using the ▲/▼ button.
- 3 Press the **OK** (OK) button to switch to the channel.
- 4 Press the **LIST** (LIST) or **FAV**(FAV) button while the channel list is displayed to hide it.

Note:

- Pressing the **TV/RADIO** (TV/RADIO) button will toggle between TV channel list and Radio channel list.
- The skipped channels are not displayed on the list.
- If no channel is registered for the favorite channel list, 'The favorite list is empty' message will be displayed.

5. Option List

You can set a channel to the favorite channel, blocked channel, and skipped channel.



Setting Option

- 1 Press the **OPT+** (OPT+) button to display the Option list.
- 2 Select **Favorite/Block/Skip** using the ▲/▼ button.
- 3 Press the **OK** (OK) button to set its function.
- 4 Press the **OK** (OK) button again to cancel its function.
- 5 Press the **OPT+**(OPT+) button while the Option list is displayed to hide it.

Note:

- You cannot recover the skipped channel using the option list. The skip operation is disabled using in **Menu – Setup – Edit Channels**.
- When you unblock the blocked channel, you will be prompted to enter the PIN Code .
- When you switch to the blocked channel, you should enter the PIN Code to watch the channel.
- The default PIN Code is set to '0000'.

6. Setting Audio

You can select the audio type that you wish to listen in.

Press the **AUDIO** (AUDIO) button to change the audio type. Whenever pressing the **AUDIO** (AUDIO) button, the audio type will change. The selected audio type appears on the lower center of the screen.

MPEG1/2	It supports 2 channels.
Dolby Digital	It supports 5.1 channels - left front, right front, center, left rear, right rear, and sub-woofer.



7. Aspect Ratio

You can select the display format according to the TV screen ratio while watching a program. When TV screen ratio is set to '4:3', you can select 'Letter Box, Full, or Zoom' if video source is wide 16:9 ratio. When TV screen ratio is set to '16:9', you can select 'Pillar Box, Full, or Zoom' if video source is normal 4:3 ratio.

Press the **A.RATIO** (A.RATIO) button to change the display format. Whenever pressing the **A.RATIO** (A.RATIO) button, the display format will change. The selected display format appears on the lower center of the screen.

Note:

- If the broadcast program format is '16:9' (or '4:3') and the output format is '16:9'(or '4:3'), you cannot change the aspect ratio for the program.
- For more information, refer to *Menu Operation, 5.2 Aspect Ratio*.



8. Closed Caption

If the current program provides closed caption, you can select the closed caption language.

Press the **CC** (CC) button to select the language. Whenever pressing the **CC** (CC) button, the closed caption language will change. The selected language appears on the lower center of the screen.

Note: You can hide the closed caption by selecting 'OFF'. This will turn off the current channel's closed caption. If you would like to force the whole channels' closed caption to be off, go to 5.4 Caption Display.








Basic Operation

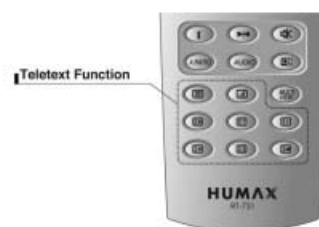
9. Teletext

When the channel supports teletext, the teletext icon () is displayed on the i-plate. To enter Teletext mode, press the () button.






Using Teletext Menu

You can use various functions using the teletext-related buttons on the remote controller.

-  **Cancel** Hides the teletext except the page number.
-  **Double Size** Displays the text size as double size.
-  **MIX** Adjusts the background transparency of teletext screen.
-  **Reveal** Adjusts the background transparency of teletext screen.
-  **Page Hold** Holds the current page without updating it.
-  **Index** Returns to the index page. If there is no index page, jump to page 100.
-  **Sub-page** Searches the sub-page using the four-digit sub-code written by users. If it's not in the teletext mode, display the current time.








Viewing Teletext Page

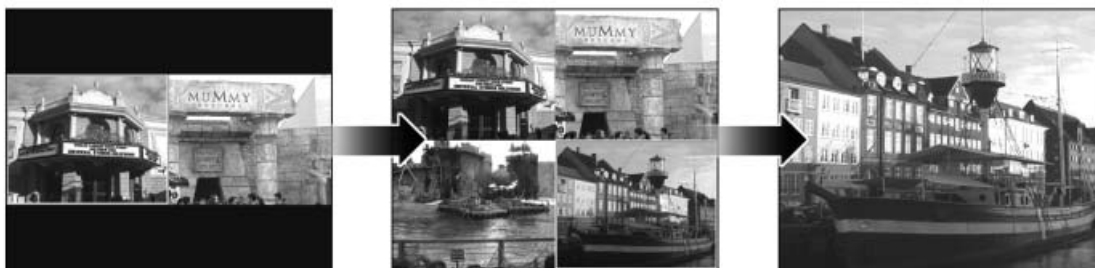
- Enter your desired page number using the **NUMERICAL** (0~9) button to move to the page directly.
- Press the  button to move to the next page in increased number.
- Press the  button to move to the previous page in decreased number.
- Press the **CH-/CH+** ( / ) button to move to previous/next page.
- Press the **BACK** () button in order to move to the last seven pages recently visited.





10. Multiview

If a service provider provides multiple channels, you can select another channel in multi-viewing.

- 1 Press the **MULTIVIEW** () button to display the multiview. The 2-picture will be displayed if available.
- 2 Press the **MULTIVIEW** () button once again to display the 4-picture if available.
- 3 Select your desired viewing using the  /  button. The focus will be changed and the audio of the selected channel will be output.
- 4 Press the **MULTIVIEW** () button to swap the selected viewing for the main screen.



Note:

- You can switch to another service provider's channels using the **CH-/CH+** () button in multi-viewing.
- There may be 5 or more channels. You can view the next channel using the  button.
- When your receiver is connected to TV using Composite or S-Video cable, it supports multiview only when Resolution is set to 576i and VIDEO OUT SELECT to Component. For more information, refer to Installation.

Menu Operation

1. Navigating Menu

- 1 Press the **MENU** (⏸) button to display the main menu.
- 2 Select your desired menu item using the ▲/▼ button.
- 3 Press the **OK** (⏹) button to move to the sub-menu.
- 4 Press the **BACK** (⏪) button to return to the parent-menu.
- 5 Select your desired option using the ◀/▶ button.
- 6 Press the **EXIT** (⏻) button to exit the main menu.



Note: The top of the sub-menu screen displays the Menu Path that enables you to find the screen easily.

2. Guide

This menu provides the program information in various ways. In addition, you can schedule your watching using the given program information.

2.1 Program Guide




The program guide provides the program information for all channels based on date and time. It provides the program information for maximum 7 days. In addition, it provides convenient ways- using time bar, finding programs by genre, weekly programs for a channel - to search your desired programs



Note:


- You can also go to the Guide screen by just pressing the **GUIDE** (⏸) button.
- To hide the Guide screen and return to normal viewing, press the **GUIDE** (⏸) button once again or **EXIT** (⏻) button.

Navigating Program Guide

- Press the **RED** button to move to the **Schedule** screen.
- Press the **GREEN** button to move to the **Time/Date** screen.
- Press the **YELLOW** button to move to the **Genre** screen.
- Press the **BLUE** button to move to the **Weekly** screen.
- Press the **▲/▼** button to select a channel.
- Press the **◀/▶** button to select a program.
- Press the **i** () button to view the program information.
- Press the **OK** () button to switch to the selected on-air channel or reserve the selected channel to be broadcast. When reserving the program, the confirmation message will be displayed. To reserve the program, select **Yes**, and press the **OK** () button.
- Press the corresponding color button to return to the basic Guide screen.






Program Guide – Schedule

You can add or edit watching-reserved program. This is also accessed by going to **Menu – Guide – Schedule**, and pressing the **OK** () button. For detailed information, refer to *Menu Operation 1.2 Schedule*.

Program Guide – Time/Date

You can quickly search for your desired time zone using the Time bar.

- Select the time bar button using the **◀/▶** button and press the **OK** () button to move as your desired amount of time.
- Select  and press the **OK** () button to exit the Time Bar.



The Time bar consists of 7 buttons:

- NOW** Moves to the current program where the highlighter is located.
- ◀** Moves to the previous program or 30 minutes before.
- ▶** Moves to the next program or 30 minutes after.
- ◀◀** Moves to 2 hours before.
- ▶▶** Moves to 2 hours after.
- ▶Day** Moves to one day before.
- Day▶** Moves to one day after.

Menu Operation

Program Guide - Genre

You can find your desired program by genre.

- ❶ Select your desired genre using the ▲/▼/◀/▶ button, and press the **OK** () button to display the classified programs. The Found Program List screen will appear.
- ❷ In the Found Program List screen, select your desired program using the ▲/▼ button.
- ❸ Press the **OK** () button to switch to the selected on-air channel or reserve the selected channel to be broadcast. When reserving the program, the confirmation message will be displayed. To reserve the program, select **Yes**, and press the **OK** () button.

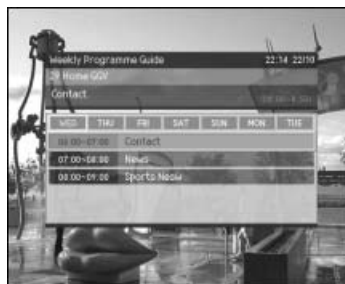
Note: Press the **BACK** () button to change screen from Found Program List to Genre.



Program Guide – Weekly

You can view the weekly program information by channel.

Select your desired day using the ◀/▶ button, and press the **OK** () button to display the weekly programs.



2.2 Schedule

You can add a new program reservation to schedule list. You can also edit watching-reserved program.

- Select the vacant list using the ▲/▼ button, and press the **OK** (OK) button to add a new watching schedule.
- Select the scheduled program using the ▲/▼ button, and press the **OK** (OK) button to edit the reservation information.



Adding Reservation

- Enter your desired **Channel Number** number using the **NUMERICAL** (0~9) button. The channel name is automatically displayed by channel number.
- Enter your desired **Date** using the ◀/▶ and **NUMERICAL** (0~9) buttons.
- Enter your desired start **Time** using the ◀/▶ and **NUMERICAL** (0~9) buttons.
- Select your desired **Repeat** mode among *Once*, *Daily*, *Weekly* using the ◀/▶ and **NUMERICAL** (0~9) buttons.
- Select **OK**, and press the **OK** (OK) button to save the information.
- Select **Cancel**, and press the **OK** (OK) button to cancel the reservation.



Editing Reserved Program

- Change the reserved **Date** using the ◀/▶ and **NUMERICAL** (0~9) buttons.
- Change the reserved start **Time** using the ◀/▶ and **NUMERICAL** (0~9) buttons.
- Change the reserved **Repeat** mode using the *Once*, *Daily*, *Weekly* using the ◀/▶ and **NUMERICAL** (0~9) buttons.
- Select **Edit**, and press the **OK** (OK) button to save the changed information
- Select **Delete**, and press the **OK** (OK) button to delete the reservation.
- Select **Cancel**, and press the **OK** (OK) button to cancel the editing.



Menu Operation

3 Setup

This menu lets you search and edit channels. It provides checking tools like system information. You can also set the HD Receiver to the default setting.

3.1 Scan

If your HD Receiver is connected to the aerial and television correctly, you can automatically search TV and Radio channels without entering any other information.

The scan operation may take a few minutes. During the operation, the found channels will appear on the list. The number of the found channels and progress of operation will be displayed on the lower right corner of the screen

Note: Press the **OK** () button to stop searching channels.



3.2 Manual Scan

You can search for channels manually by selecting only digital channel number.

Select **Digital Channel Number** using the ◀▶ button.

When selecting the channel number, the appropriate frequency will be displayed. After selecting the channel number, the signal strength and quality bars will indicate the level of signal then you can press the **OK** () button in order to add new channels if not available or to delete the channels if already available.

All channels included in the channel number will be displayed on the right of the screen. In addition, the channels are added to the channel list.



3.3 Edit Channels

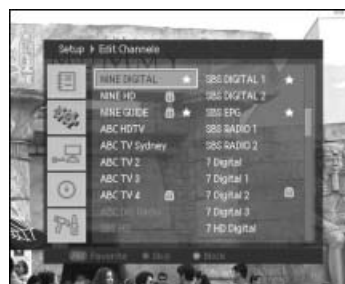
You can define channels as favorite, blocked, or skipped channels

To enter Edit Channels menu, you must enter your PIN Code .

- Press the **FAV** (FAV) button to add/remove a channel to/from favorite channel list. The icon ☆ marks a channel as a favorite channel.
- Press the **RED** button to set a channel as a skipped channel. The channel name is indicated as gray color. You can press the **RED** button again to recover the channel.
- Press the **GREEN** button to set a channel as blocked channel. While the icon is marked, AV of the channel stops and black screen appears. You can press the **GREEN** button again to unblock the channel.
- Press the **TV/RADIO** (TV/RADIO) button to toggle between TV and Radio Channel Lists.

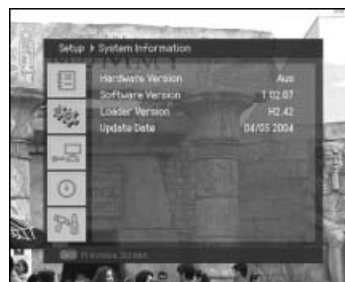
Note:

- If you would like to switch to the blocked channel in normal viewing, you must enter your PIN Code.
- The default PIN Code is set to '0000'.



3.4 System Information

You can view the system information about hardware version, software version, loader version, and update date. When you contact your service provider or local product distributor, this information may be required.



Menu Operation

3.5 Default Setting

You can restore the HD Receiver to the default settings.

- Select **OK** or **Cancel** using the ◀▶ button.
- Press the **OK** () button to confirm the selection. If you select **OK**, you will be prompted to enter the PIN Code.
- Enter the PIN Code using the **NUMERICAL** (0~9) button to complete the operation.
- After finishing default setting, 'No channels available' message will be displayed. Press the **OK** () button to start automatic channel scan.



Warning: Please note that once you perform Default Setting, all data such as Channel List and User Configured Data are deleted.

Caution: The resolution is set to 1080i by default after default setting operation. Some connections do not support 1080i mode and Black screen may be displayed. In that case, adjust the resolution to your connection.

4. Parental Control

You can change PIN Code and set censorship.

To enter Parental Control sub-menu, you must enter your PIN Code.

Note: The default PIN Code is set to '0000'.



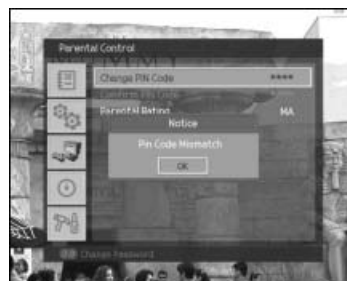
4.1 Change PIN Code

You can change the existing PIN Code into new one.

- **Change PIN Code:** Enter your new PIN Code using the **NUMERICAL** (0~9) button.
- **Confirm PIN Code:** Enter your new PIN Code again using the **NUMERICAL** (0~9) button.

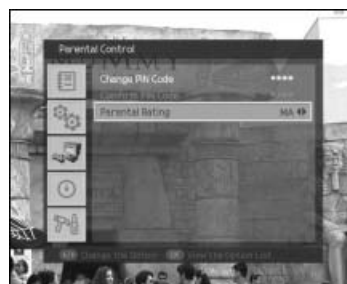


Note: If the confirmation PIN Code is not equal to the new PIN Code, 'PIN Code Mismatch' message will be displayed. You have to enter the change and confirmation PIN Code again.



4.2 Parental Rating

You can block programs according to the age level you have set. Select one among options using the ◀/▶ button.



Parental Rating Options:

- **All block** : All programs are blocked without considering the age level.
- **P(Pre-school)** : This program is designed to be appropriate for pre-school children.
- **C (Children's)** : This program is designed to be appropriate for all children.
- **G (General Audience)** : This program is designed to be appropriate for all ages.
- **PG (Parental Guidance Recommended)** : This program contains unsuitable materials that parents want to prevent their children from watching.
- **M (Mature Audience 15+)** : Programs are blocked for children under the age of 15.
- **MA (Mature Adult Audience 15+)** : Programs are blocked for children under the age of 15.
- **AV (Adult Audience strong violence 15+)** ; This program contains the strong violent contents. Therefore, programs are blocked for children under the age of 15.
- **R (Restricted 18+)** : Programs are blocked for children under the age of 18.
- **Blocking Off** : All programs can be watched because there is no age limitation.

Menu Operation

5. Time

5.1 Time Zone

You can adjust the time by selecting time zone according to your location.

- Select one among options (NSW/ACT, VIC, QLD, SA, WA, TAS, NT) using the ◀/▶ button.



5.2 Power On

You can set the time when the product is automatically powered on.

Select **Enable** or **Disable** using the ◀/▶ button.

- Enable** Uses the Power On Control and sets the Power On Time.
- Disable** Not uses the Power On Control.

When you enable this operation, pop-up window including power-on options will appear. Set the options as your desired values as follows:

- Enter **Channel Number** using the **NUMERICAL** (0~9) button. After entering channel number, the corresponding channel name will be displayed.
- Enter **Time** using the **NUMERICAL** (0~9) button.
- Select **OK** and press the **OK** () button to complete the operation.
- Select **Cancel** and press the **OK** () button to cancel the operation.



5.3 Power Off

You can set the time when the product is automatically powered off.
Select **Enable** or **Disable** using ◀/▶ button.

- Enable** Uses the Power Off Control and sets the Power Off Time
- Disable** Not uses the Power Off Control.

When you enable this operation, pop-up window including power-off options will appear. Set the options as your desired values as follows:

- Enter **Time** using the **NUMERICAL** (0~9) button.
- Select **OK** and press the **OK** (OK) button to complete the operation.
- Select **Cancel** and press the **OK** (OK) button to cancel the operation.

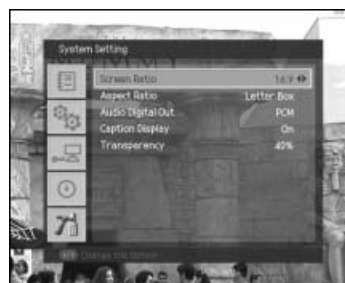


6. System Setting

6.1 Screen Ratio

You can set the screen ratio of your TV.
Select **4:3** (normal) or **16:9** (wide) using the ◀/▶ button.

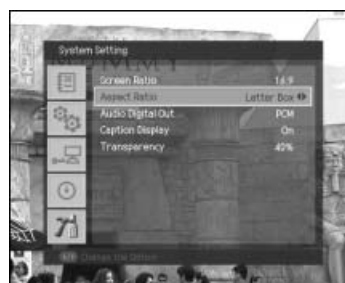
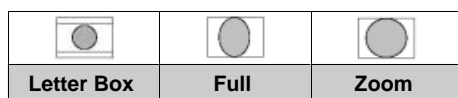
- 4:3** This is the aspect ratio of conventional Analog TV screens.
- 16:9** This is the aspect ratio of HDTV screens.



6.2 Aspect Ratio

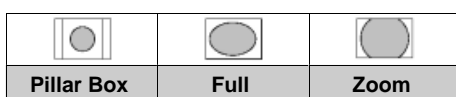
You can select the display format according to the TV screen ratio.

- Select **Letter Box**, **Full**, or **Zoom** using the ◀/▶ button when TV screen ratio is set to 4:3.
- Letter Box** 16:9 video for 4:3 display; This has the black bars at the top and the bottom of your TV.
 - Full** 4:3 video for 4:3 display
 - Zoom** Enlarges the image to fill the screen.



Menu Operation

- Select **Pillar Box**, **Full** or **Zoom** using the ◀/▶ button when TV screen ratio is set to 16:9.
 - Pillar Box** 4:3 video for 16:9 display; This has the black bars at the left and right of your TV.
 - Full** 16:9 video for 16:9 display
 - Zoom** Enlarges the image to fill the screen.



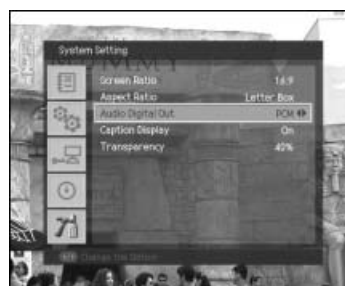
6.3 Audio Digital Out

You can set the digital audio output according to your audio system.

Select **Dolby Digital** or **PCM** using the ◀/▶ button.

- Dolby Digital** This is used when the audio output is connected to 5.1-channel digital audio system.
- PCM** This is used when the audio output is connected to 2-channel digital audio system.

Note: When the format of the digital audio is MPEG, the HD Receiver outputs PCM not depending on the setting.



6.4 Caption Display

You can select whether you view the closed caption of the whole channels or not.

Select **On** or **Off** using the ◀/▶ button.

- On** The closed caption is displayed if available.
- Off** The closed caption is not displayed even if available.



6.5 Transparency

You can adjust the transparency level of On-Screen Display (OSD).

Select one among transparency options using the ◀/▶ button.

- 0%(opaque)** Fully opaque screen
- 40%** The screen is transparent by 40 percent.
- 80%** The screen is transparent by 80 percent.



Programming Remote Controller

You can manipulate your TV using the remote controller provided by Humax.

Note: This function may not be supported depending on TV model.

You can program remote controller as follows:

- ❶ Point the remote controller towards the remote control receiving parts of TV.
- ❷ Press and hold the **TV** button. After 3 seconds the **TV** button LED will illuminate (under your finger). With the **TV** button still pressed and illuminated, enter the three numbers of the TV code using the **NUMERICAL** (0~9) button orderly. (Refer to the following Code for TV manufacturer.)
- ❸ When the correct code is entered, the TV power turns on / off.
- ❹ If TV fails to turn off, repeat the process using the alternate TV codes.

[Code for TV manufacturer] Table

Brand	Code	Brand	Code
A MARK	002	ARCAM	062,063
ABEX	016	ARCHER	002
ACTION	110,124	ASUKA	064,071
ACURA	004	ATLANTIC	098
ADMIRAL	030,042,076,099,123	AUDINAC	081
ADYSON	016,063	AUDIOSONIC	018,071
AIKO	029	AUDIOVOX	002,029,052,084
AKAI	015,099,109,124	AUMARK	026
AKURA	064,071	AUTOVOX	068,076,097
ALARON	051,055,062	BARCO	086
ALBA	004,017,018,064,123	BASIC LINE	004,064
ALLORGAN	118	BAUR	018,087,097,099,102 108
AMBASSADOR	049	BAYSONIC	052
AMPLIVISION	063	BEAUMARK	050
AMSTRAD	004,018,047,049,145	BEC	099,110,124
ANAM	003,004,052	BECRESE	040,099,108,109,110
ANAM NATIONAL	024	BELCOR	009
ANITECH	004,071	BELL & HOWELL	006,038,106
ANITECH	071	BEON	018
ANSONIC	127	BINATONE	063
AOC	002,009,015,056		

Programming Remote Controller

Brand	Code	Brand	Code
BLACKSTRIPE	040	CITIZEN	040,057,074
BLACKSTRIPE	106	CLAIRTONE	056
BLACKSTRIPE	108	CLARIVOX	018
BLAUPUNKT	059,060,061	CLARIVOX	125
BLUE SKY	064	CLATRONIC	098
BLUE STAR	075	CLATRONIC	127
BOOTS	063	CME	004,005,017,018,028
BOSCH-BAUER	098		042,049,063,065,066
BPL	075		068,076,079,087
BRADFORD	052	CONCERTO	025
BRINKMANN	123	CONDOR	098
BRITANNIA	062	CONIC	110
BROCKWOOD	009	CONTEC	004,017,052,056,062
BROKSONIC	002,067,085	CONTINETAL	141
BROTHER	071	CRAIG	105
BRUNS	126	CRIPTOVISION	023
BSR	093,118	CROSLEY	110
BTC	064	CROSLEY	004,018,019,052,127
BUSH	004,017,018,064,075	CROWN	098
	093,099,117	CTC	006,015,019,020,021
CANDLE	015,025,057		023
CAPEHART	124	CURTIS MATHES	026,030,035,038,025
CAPSONIC	071		040,044,084,106
CARNIVALE	015	CXC	052
CARREFOUR	017	CYBERTON	064
CARVER	023,046	DAEWOO	004,009,018,019,029
CASCADE	004		084,133
CATHAY	018	DAINICHI	064
CCE	063,018,078	DANSAI	018
CCI	115	DAYTON	004,009,019,018
CENTURION	018	DE GRAAF	006
CGE	101,123	DECCA	018,028,129
CIE	133	DENON	035
CIMLINE	004,117	DESMET	098
CINERAL	029,084	DIXI	003,004,018,126
CITIZEN	015,019,025,026,029	DUAL	097

Brand	Code	Brand	Code
DUAL TEC	063	FUNAI	047,051,052,071,118
DUMINT	127	FUTURETECH	052
DUMONT	007,009	GALAXIS	123,142
DYNATECH	063	GBC	099
EB TELECOM	105	GE	011,013,020,021,024 030,034,050,075,084
EC	018,028,063,095,110 129	GELOSO	004,099
ECTEC	081	GENEXXA	042,064
EDISON	052	GIBRALTER	007,009,015
ELECTROBAND	056	GO VIDEO	026
ELECTROHOME	080,106,110	GOLDSTAR	000,001,009,015,016 018,019,025,033,050 063,071,093,110,124 140
ELECTRONIC	071,133,146,018,028	GOODMANS	017,018,028,051,063 133
ELEKTA	071	GPM	064
ELIN	018	GRADIENTE	022,025,046,082
ELITE	040,064,098,106	GRADIN	098
ELMAN	127	GRAETZ	042,099
ELTA	004	GRANADA	018,028,063,109,124
EMERSON	009,019,038,049,050 051,051,053,054,055 056,067,072,074,075 085	GRANDIN	075
ENVISION	015	GRUNDIG	018,059,060,068,137
ERRES	018	GRUNPY	051
EURO-FEEL	071	GRUNPY	052
EUROMANN	071	HALIAX	071
EUROPHON	127	HALLMARK	050
FERGUSON	018	HANSEATIC	018,089,097,098,099 118,119
FIDELITY	062,097,104	HARLY DAVIDSON	051
FINLADIA	106	HARMAN KARDON	023
FINLUX	018,028,051,093,129	HARVARD	052
FIRST LINE	118,004,062,063	HCM	004,071,075
FISHER	038,041,063,097,106 108,126	HEMMERMANN	097
FORMENTI	018,098,103	HINARI	004,017,018,051,064
FRONTECH	042,071,099	HITACHI	094,095,096,099,102
FUJITSU	028,051,124		

Programming Remote Controller

Brand	Code	Brand	Code
HITACHI	108,109,110,111,112 113,114,124,148,016 017,025,031,032,035 037,042,048,063,066 090,091	KAWASHO	062,077
HUANYU	062	KEC	052
HUMAX	151, 152, 153	KENDO	018,099,117,119,127
HUSPI ELEKTRONIK	123	KENWOOD	009,015
HYPERVISION	134	KINGSLEY	062
HYPSON	018,071,075	KLH	124
HYPSON	071,075	KLOSS	012
ICE	063,071	KMC	033
ICES	064	KONIG	004,005,017,018,042 061,068
IMPERIAL	092,099,101,123	KORPEL	018
INDESIT	068	KORTING	098
INDIANA	018	KOYODA	004
INFINITY	023	KTV	015,019,052,055,056 063,074
INGEKEN	139	KUBA	097
INGELEN	042	LENCO	071,118,124
INNOHIT	028,124	LG	025
INNOVA	018	LIESENK & TTER	018
INTEQ	007	LIFETEC	071
INTERBUY	071	LLOYTRON	016
INTERFUNK	018,042,095,099	LOGIK	000,006
INTERVISION	018,063,071,127,144	LUMA	099
ISUKAI	064	LUXMAN	025
ITT	042,099,108	LUXOR	068,094,099,102,124
JACSON	129	LXI	007,020,023,038,040 050,106
JBL	023	M ELECTRONIC	004,018,042,063,097 127
JCB	137	MAGNAFON	127
JEC	040	MAGNASONIC	106
JVC	017,022,045,054	MAGNAVOX	010,012,014,015,017 023,051,057,058,110
KAISUI	004,062,063,064,075	MAJESTIC	006
KAMP	062	MANDOR	071
KAPSCH	042,095,099	MANESTH	063,071,098,117
KATHREIN	089		

Brand	Code	Brand	Code
MARANTZ	015,018,023,089	NETSAT	018
MARK	018	NIKKAI	016,018,028,040,062 064,071,124
MATSUI	004,005,018,049,063 092,097,117	NIKKO	007,015,020,029,038 040,050
MATSUSHITA	021,070	NISATO	081
MC MICHAEL	110	NOBLEX	083
MEDIATOR	018	NOKIA	071,094,095,096,099 106,108,143
MEGATRON	002,035,050,109 056	NOSHI	008
MEMOREX	004,006,025,026,033 036,038,050,070,071 106	NTC	029
MEMPHIS	124	OCEANIC	042,099,106,118
MGA	009,015,036,039,050	ONWA	052
MIDLAND	007,016,019,020,021 034	OPTIMUS	038,044,070
MINERVA	068	OPTIONICA	030,043
MINUTZ	011	ORION	018,049,051,067,085 097,098,118
MITSUBISHI	009,017,030,036,039 050,068	OSAKI	016
MIVAR	062	OSAKI	028
MOTOROLA	024,030	OSAKI	063
MTC	009,015,025,026,056 062	OSAKI	064
MULTISTANDARD	127	OSAKI	071
MULTITECH	004,052,062,063,099 127	OSAKI	124
MUTIMEDIA	132	OSO	064
NAD	040,044,050	OSUME	016,028,124
NAONIS	099	OTTO VERSAND	017,018,059,063,087 089,093,097,098,099 102,108,117,118
NATIONAL	068	PALLADIUM	099
NEC	009,015,017,025,046	PANAMA	063,071
NECKERMANN	018,059,087,089,099	PANASONIC	000,020,021,022,023 024,026,030,035,036 038,040,042,043,050 065,068,070,079,099
NEI	102 018	PATHE CINEMA	062,098
NESCO	051	PAUSA	004

Programming Remote Controller

Brand	Code	Brand	Code
PCE/PEC	040,106,108	RADIOLA	018
PENNEY	001,102,008,009,011 013,015,016,019,020 021,025,026,034,040 050	RADIOTONE	071
PHASE	016	RADIX	108
PHILCO	009,010,012,014,015 023,035,057,058,085 123	RANK ARENA	017
PHILIPS	007,008,009,010,011 012,013,018,019,023 089,110,124,138	RCA	008,009,020,021,030 034
PHONOLA	018,098	REALISTIC	009,015,016,019,025 038,043,050,052,106
PILOT	009,015,019	REKORD	149
PIONEER	042,044	REVOX	018
POLICOM	068	REX	042,071,076,099
POLYRON	071	RFT	088,126
PORTLAND	009,019,029	RHAPSODY	055,056,062
PRANONI PRINCE	099	R-LINE	018
PRIMA	040,106	ROADSTAR	004,064,071
PRINZ	124	ROYAL LUX	131
PRISM	021	RTF	018
PROFEX	004	RUNCO	007,015
PROLINE	119	SABA	042,095,099
PROSCAN	015,020	SAGEM	139
PROTEC	099,127	SAISHO	004,005,049,071,117
PROTECH	004,018,063,071	SAKIO	071
PROTON	002,050	SALORA	042,094,099,102,106 124
PULSAR	007,009,110,124	SAMBERS	127
QUASAR	021,024,043,070	SAMPO	015,016,019
QUELLE	005,018,087,093,097 099,108,117,118	SAMSUNG	004,009,015,016,018 019,025,026,050,063 071,078,089,124,137
QUESTA	017	SAMSUX	019
RADIO SHACK	009,015,016,019,020 025,038,043,050,052 106	SANDRA	062
		SANSEI	084
		SANSUI	085
		SANYO	005,017,028,038,041 106,107,108,124,129
		SBR	018

Brand	Code	Brand	Code
SCHAUB LORENZ	099	SONY	005,017,073,087
SCHNEIDER	018,064,071,097,136 143,147	SOUND&VISION	127
SCIMITSU	009	SOUNDESIGN	050,051,052,057
SCOTCH	050	SOUNDWAVE	018
SCOTT	009,050,051,052,067	SPECTRA	133
SEARS	020,023,025,038,040 041,047,050,051,106	SPECTRICON	002
SEG	017,063,071,126,127 049	SQUAREVIEW	047
SEI-SINUDYNE	097,099,117,118,127	SR2000	106
SELECO	042,076,099,100,119 120,122	SSS	009,052
SEMIVOX	052	STANDARD	004,063,064,098
SEMP	040	STARLITE	052
SENTRA	040	STERN	042,076,099
SHARP	017,019,030,043	SUNKAI	117,118
SHOGUN	009	SUPERTECH	097
SHORAI	118	SUPRA	025
SIAREM	127	SUSUMU	064,010,012,014,015 023,057,058,080
SICATEL	121	SYMPHONIC	047
SIEMENS	018,059,060,061	SYSLINE	018
SIGNATURE	006,040	TADNDY	124
SILVER	017	TANDY	028,030,042,063,064
SIMPSON	057,058	TASHIKO	110
SINGER	127	TASHKO	017,063
SINUDYNE	049	TATUNG	002,018,024,028,063, 124
SKANTIC	099	TEC	063,133
SKY	018	TECHLINE	127
SOGERA	098	TECHNEMA	098
SOLAVOX	016	TECHNICS	007,020,021,070
SOLAVOX	042	TECHNISAT	130
SONITRON	108	TECHNOL ACE	051
SONOKO	004,018,071	TECHWOOD	002,021,025
SONOLOR	042	TEKNIKA	006,009,019,023,025 026,029,036,051,052 057
SONTEC	018	TELECO	135

Programming Remote Controller

Brand	Code	Brand	Code
TELEFUNKEN	025	UNIVERSUM	018,071
TELEMEISTER	098	VECTRO RESEARCH	015
TELETECH	004	VESTEL	018
TELETON	017,057,063,099	VICTOR	022
TELEVIDEON	098	VIDEOTECHNIC	063
TENSAI	064,093,098,118	VIDEOTON	094
TESLA	135	VIDIKRON	023
TEXTET	062,064	VIDTECH	009,017,050
THOMAS	110	VISA	004,005,017,018,042
THOMAS	124		068
THOMSON	068	VISION	098
THORN	018,028,040,087,107	VOXSON	042,099
	108,110,112,128,129	VTQ	126
TMK	025,049,050	WALTHAM	063,094,099
TOKAI	124	WARDS	006,009,010,011,013
TOMASHI	075		014,015,023,025,034
TOSHIBA	017,026,038,040,069		040,043,050,051,058
	106,108	WATSON	018,098
TOSONIC	056	WATT RADIO	097,127
TOTEVISION	019	WEGA	017
TOWADA	099,127	WHITE	018,062,098,106
TRIUMPH	049,069	WESTINGHOUSE	
TV TEXT	089	WORLD-TECH	133
UHER	098	YAMAHA	009,015
UHER	127	YOKO	018,063,071,133
ULTRA	081,124	YORK	108
ULTRAVOX	127	ZANUSSI	076,099
UNIVERSAL	011	ZENITH	006,007,029
UNIVERSAL	013	ZONDA	002

Troubleshooting


Before contacting your local service, please make sure following instructions. If the product does not work normally after completing the following troubleshooting, please contact your local product distributor or service center.

1. Troubleshooting

Problems	Solutions
No message is displayed on the front panel or product has no power	<ul style="list-style-type: none">• Check the main power cable and check that it is plugged into a suitable power outlet.• Check whether power switch is on.
No picture	<ul style="list-style-type: none">• Check the main power cable and check that it is plugged into a suitable power outlet.• Make sure that Aerial line is correctly connected to the equipment.• Make sure that the correct resolution is selected.• Make sure that the VIDEO OUT SELECT is selected properly.• Check the signal quality.• Check the brightness level of TV.• Check the channel is on air.• Check the signal strength.
Poor picture & sound quality	<ul style="list-style-type: none">• Install Aerial where there is not obstacle ahead.• Make sure to avoid putting mobile phone or microwave oven near around the equipment.• Use 75 Ω coaxial cable to connecting TV and Aerial.• Check the signal quality.
No or poor sound	<ul style="list-style-type: none">• Check the volume level of the TV.• Check the Mute status of the TV and product.• Press the AUDIO (AUDIO) button to change the audio type.
Remote controller does not operate	<ul style="list-style-type: none">• To manipulate the equipment with remote controller, the remote controller's emitting part should directly point towards the receiving part of product's remote controller.• Check the battery of Remote controller.
Reservation is unavailable	<ul style="list-style-type: none">• Check whether it is not overlapped with other reservation.• Check whether the power switch is off.

Troubleshooting

2. Error Message

Error message	Possible causes	What to do
No signal	The aerial is not pointing properly.	<ul style="list-style-type: none">• Adjust aerial.• Check the cable from the aerial. If you cannot resolve the problem you may need to have your aerial and installation tested by a professional.
	The video out selection is not set correctly.	<ul style="list-style-type: none">• Adjust VIDEO OUT SELECT on the rear panel to your connection.
	The resolution is not set properly.	<ul style="list-style-type: none">• Change resolution using the RESOLUTION button on the front panel.
No channels available	There is no channel.	<ul style="list-style-type: none">• Press OK to search channels.
Program guide is not available	There is no channel.	<ul style="list-style-type: none">• Press the OK () button to start channel search.
No or poor sound	There is no channel.	<ul style="list-style-type: none">• Go to Menu – Setup – Scan and search channels.
All channels are skipped	All channels are set to skipped channels.	<ul style="list-style-type: none">• Press OK to go to Edit Channels.

SPECIFICATION

Tuner and Channel	
Input Connector	IEC 169-2, Female
Output Connector	IEC 169-2, Male
Frequency Range	VHF: 48.5 to 219.5MHz UHF: 529.5 to 816.5MHz
Input Impedance	75 Ω unbalanced
Signal Level	-15 ~ +15 dBmV (-10 to 70 dBm)
Modulation/Demodulation	QPSK, 16QAM, 64QAM
Input Symbol Rate	15 Mb/s

MPEG Transport Stream and Audio/Video Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG2 MP@HL, MP@ML
Input Rate	Max. 15 Mbps
Aspect Ratio	4:3(normal) 16:9(wide)
Video Resolution	1920x1080i, 1280x720p, 720x576p/i
Audio Decoding	MPEG/MusiCam Layer I&II
Audio Mode	Single Mono/Dual Mono Stereo/Joint Stereo
Sampling	32, 44.1, 48KHz

Memory	
Flash Memory	8 Mbyte
Graphic/System Memory	64 Mbyte
EEPROM	16 Kbyte

SPECIFICATION

Audio/Video/Data Input/Output	
Video Output	DVI (1080i/720p/576p) RGB (1080i/720p/576p) YPbPr (1080i/720p/576p/576i) S-Video (576i) CVBS (576i)
Audio Output	Audio L/R , Digital(Optical/Coaxial)
Data I/O	RS-232C 9-pin Serial port

Power Supply	
Input Power	90~250V AC, 50/60Hz
Type	SMPS
Power Consumption	Max. 18W

Physical Specification	
Input Power	370 x 60 x 262 (WxHxD)
Weight	3.5 Kg
Operation Temperature	0 ~ 40 °C
Storage Temperature	-20 ~ 60 °C
Humidity	0 ~ 99 % RH



HNHD7000.100.GB(AU)

HUMAX Service ON 1800 - 613 - 011