

Digital Terrestrial Receiver
Free-To-Air

F2-FOX T

User's Manual



HUMAX
your prime time

Notice

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

Notice

Read this manual carefully and make sure you understand the provided instructions. For your safety, know what the reaction upon each action will be.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following marks that indicate hazardous situations.

- **Warning**

Indicates a hazardous situation which, if not avoided, could result in (serious) injury.

- **Caution**

Indicates a situation which, if not avoided, could damage the equipment or other apparatus.

- **Note**

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.



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.

Safety and Warning

This digital terrestrial receiver has been manufactured to satisfy international safety standards. Please read the following safety precautions carefully.

Safety Instructions and Precautions

1. MAINS SUPPLY

90 - 250V AC 50/60Hz

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

2. OVERLOADING

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

3. LIQUIDS

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

4. CLEANING

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

5. VENTILATION

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

6. ATTACHMENTS

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

7. CONNECTION TO THE AERIAL

Disconnect the receiver from the mains before connecting or disconnecting the cable from the aerial. Failure to do so can damage the aerial.

8. CONNECTION TO THE TV

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

9. EARTHING

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

Safety and Warning

10.LOCATION

Place the receiver 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 TV and 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.

11.LIGHTNING, STORM, or NOT IN USE

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

12.EXTRANEIOUS OBJECTS

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

13.REPLACEMENT of PARTS

When the 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 substitutions 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 a wet hand.
 - Disconnect the power cord in case of lightening.
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.

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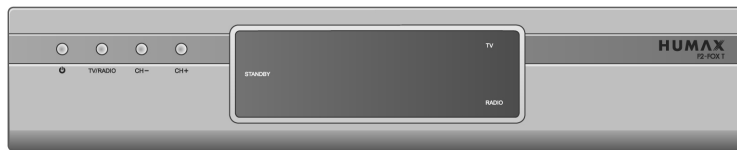
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1. Before Using the Receiver

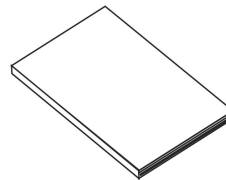
This chapter describes detail instructions on the product and its accessories.

1.1 Package Contents

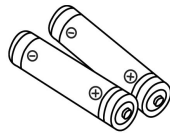
Please check all package contents before using your receiver.



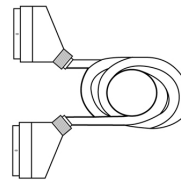
Remote Control (1)



User's Manual (1)



Batteries (2)

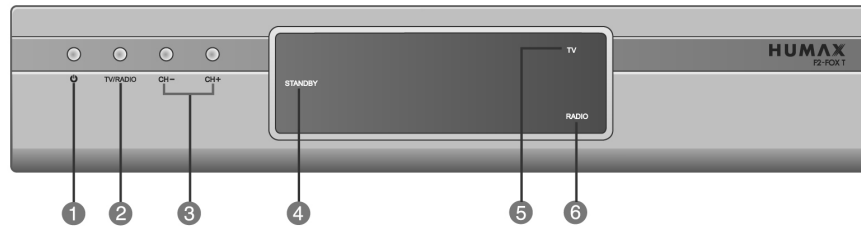


Scart Cable (1)

Note: Since faults may occur if the remote control is being left without a battery for a long time, always keep the battery inserted in the remote control.

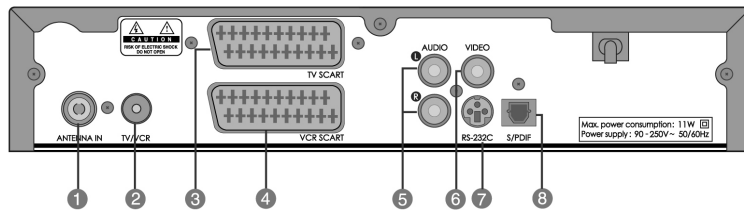
1. Before Using the Receiver

1.2 Front Panel



- 1. STANDBY Button** (⏻)
Switches between Operation and Standby modes.
- 2. TV/RADIO Button**
Switches between TV and Radio.
- 3. CH - / CH +**
Moves the TV/Radio channel up/down.
- 4. STANDBY LED**
Red light is displayed when the product is in the Standby mode.
Green light is displayed when the product is in operation.
- 5. TV LED**
Green light is displayed when the receiver is in TV mode.
- 6. RADIO LED**
Amber light is displayed when the receiver is in Radio mode.

1.3 Rear Panel



1. ANTENNA IN

Connects a aerial to a ANTENNA input jack on the your receiver.

2. TV / VCR

Connects a RF signal from your receiver to RF (ANT) input jack on your TV or VCR.

3. TV SCART

Connects a TV SCART cable.

4. VCR SCART

Connects a VCR SCART cable.

5. AUDIO L/R

Connects to your TV or VCR and output Audio signals.

6. VIDEO

Connects to your TV or VCR and output Video signals.

7. RS-232C

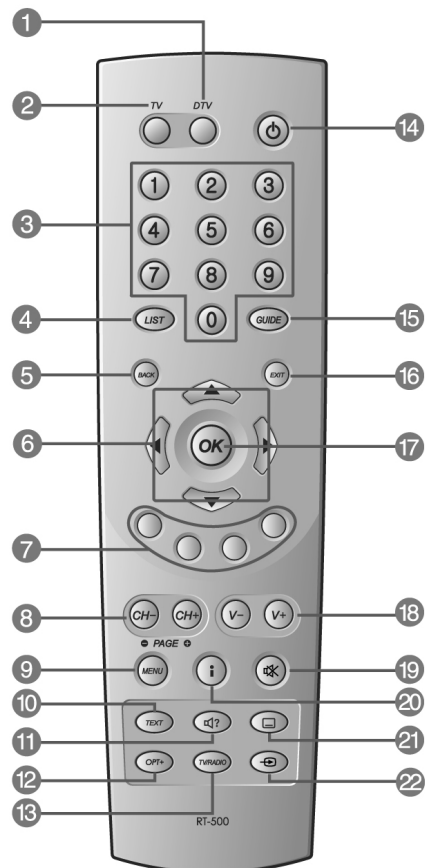
Connects to your PC to upgrade product's software programme.

8. S/PDIF

Outputs the digital audio signals(S/PDIF).

1. Before Using the Receiver

1.4 Remote Control



- | | | | |
|----------------------|----------------------------|--------------|---------------------|
| 1. DTV | 7. COLOR BUTTONS (R/G/Y/B) | 13. TV/RADIO | 18. V-/V+ |
| 2. TV | 8. CH-/CH+(PAGE-/PAGE+) | 14. STANDBY | 19. MUTE |
| 3. NUMERICAL BUTTONS | 9. MENU | 15. GUIDE | 20. I (INFORMATION) |
| 4. LIST | 10. TEXT | 16. EXIT | 21. SUBTITLE |
| 5. BACK | 11. SOUNDTRACK | 17. OK | 22. AUX |
| 6. ARROW BUTTONS | 12. OPT+ (OPTION) | | |

1. DTV

Controls the Receiver.

2. TV

Controls the TV.

3. NUMERICAL BUTTONS

Enters a TV/Radio channel number or menu option number.

4. LIST

Displays the channel list.

5. BACK

Returns to the previous menu and screen.

6. ARROW BUTTONS

Changes the channel or move the cursor to the up, down, left or right menu option.

7. COLOR BUTTONS (R/G/Y/B)

Select color keys for interactive applications.

8. CH-/CH+(PAGE-/PAGE+)

Changes the Channel or Page.

9. MENU

Displays the main menu.

10.TEXT

Displays digital text.

11.SOUNDTRACK

Displays the Soundtrack.

12.OPT+ (OPTION)

Displays the channel attributes during watching a programme.

13.TV/RADIO

Switches between TV and Radio modes.

14.STANDBY

Switches between Operation and Standby modes.

15.GUIDE

Displays the Programme Guide.

16.EXIT

Exits the main menu or Guide screen.

17.OK

Selects a menu, or confirm the selected operation. And display the channel list during watching a programme.

18.V-/V+

Adjusts the audio volume.

19.MUTE

Pauses the audio temporarily. That is, volume on/off temporarily.

20.I (INFORMATION)

Displays the information about the channel and programme.

21.SUBTITLE

Changes the subtitle language.

22.AUX

Controls input mode of TV

Note: This remote control can also control your TV. To set the remote control for your TV, please refer to Chapter 12.

2. Setup

This chapter describes how to set up the receiver. Select the most appropriate procedure depending on your case.

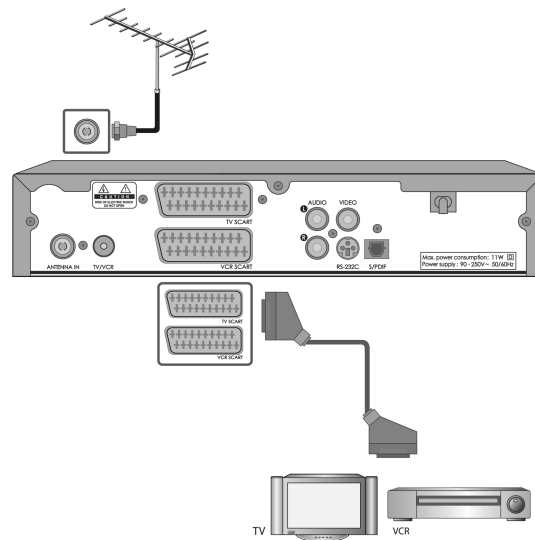
Note: If you encounter any problem when setting up the receiver, please contact your local product distributor.

Where possible, use an outdoor roof aerial intended for receiving UHF channels between 21 and 69.

It is not advisable to use indoor or window mounted aerials, as digital channels will be difficult or even impossible to receive.

2.1 Connecting Aerial

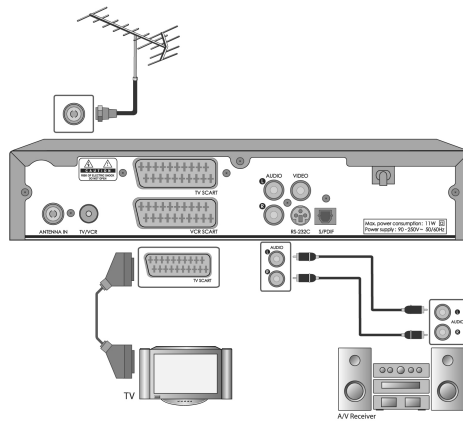
1. Connecting TV and VCR



- Connect the cable of your TV aerial to the **ANTENNA IN** connector on the rear of the receiver.
- Scart and co-axial cable are connected as in the figure above.

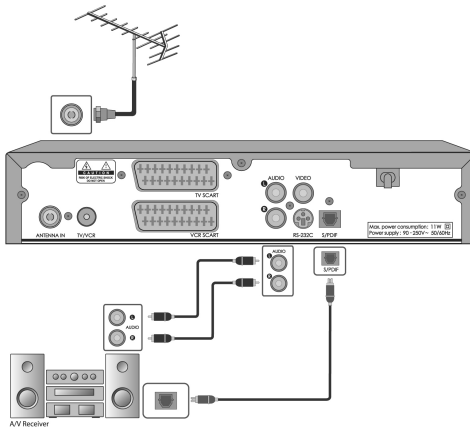
2. Connecting Hi-Fi system 1

Connect the outputs on this receiver to corresponding inputs on your Hi-Fi system.(left audio out to left audio in, right audio out to right audio in)



3. Connecting Hi-Fi system 2

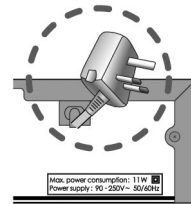
If you wish to connect the optical S/PDIF terminal and Dolby digital decoder to listen digital audio, connect as following.



2. Setup

2.2 Powering On

1. Connect the power cord of the receiver to a wall outlet.



2. Power on by pressing the **STANDBY** (⏻) button at Remote Controller.
The Standby LED indicator is turned on Green.



3. Installation Wizard

When powering on your receiver for the first time after purchasing, the Installation Wizard is automatically started. It immediately performs Channel Search.(You can run the Installation Wizard in Default Setting.)

Please wait for finishing the Channel Search. If you want to stop the Channel Search, select the **OK** (OK) button.

If the Channel Search is stopped or finished, the result of Channel Search is automatically saved.



When completing Channel Search, you can enjoy programmes.

Warning: Press the **EXIT** (EXIT) button to save the previous input information and exit the installation wizard when running the installation wizard. If you exit the install wizard without fully completing the setting procedures, you may not watch any broadcasting normally. In this case, you can use the **Installation Menu** to configure your receiver as you like.

4. Basic Operation

This chapter describes functions such as switching channel, volume control, and basic features for watching programmes.

4.1 Switching Channel

You can switch the current channel using one of the following methods.

1. Press the **CH-/CH+** (CH- / CH+) button.
2. Enter your desired channel numeric using the **NUMERICAL** (0-9) buttons to move to the channel directly.
3. Press the **TV/RADIO** (TV/RADIO) button to switch between TV channel and Radio channel.

Note: You can switch channel using Programme Guide or Channel List. Please refer to Chapter 5 and 6 for more information.

4.2 Volume Control

1. Press the **V-/V+** (V- / V+) buttons to adjust the audio volume of your TV.
2. Press the **MUTE** (MUTE) button to stop the sound of your TV temporarily.

4.3 Text and interactive services

If your chosen channel has teletext (MHEG) features, you can access them. Teletext services often load automatically shortly after the Digital Teletext window is displayed. In which case, simply follow the given instructions (press color buttons).

1. Press **TEXT** (TEXT) button to access teletext(MHEG) features.
2. Press **TEXT** (TEXT) button again to return to normal viewing.
3. Press the **CH-/CH+** (CH- / CH+) button to exit this service.

Note: You should select **OFF** from the subtitle language to display MHEG OSD.

4. Basic Operation

4.4 Change the Subtitle Language

If the current programme provides Subtitle information, you can select the language for the Subtitle.

1. Press the **SUBTITLE** (Ⓜ) button to display the subtitle language list.
2. Select your desired subtitle language using the ▲/▼ button, and press the **OK** (Ⓞ) button. Then the subtitle will be displayed in the selected language at the bottom of the screen.
3. Select **OFF** from the subtitle language list not to display subtitle from the screen.



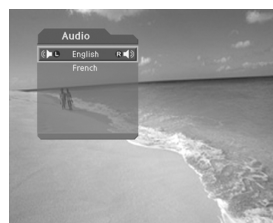
Note: You can select a default subtitle language by selecting **MENU - Preferences - Language Setting - Subtitle Language**.

The subtitle set up as the value of **MENU** when you change channel and turn on or off power.

4.5 Change a Audio Language

If the current programme is available in multiple audio languages, you can select the language that you wish to listen in.

1. Press the **SOUNDTRACK** (Ⓜ) button to display **soundtrack list**.
2. Select your desired audio language using the ▲/▼ button to change Audio immediately.
3. Select Audio Direction(left, right, stereo) using the ◀/▶ button.



Note: you can select your desired default audio language by selecting **MENU - Preferences - Language Setting -Audio Language**.

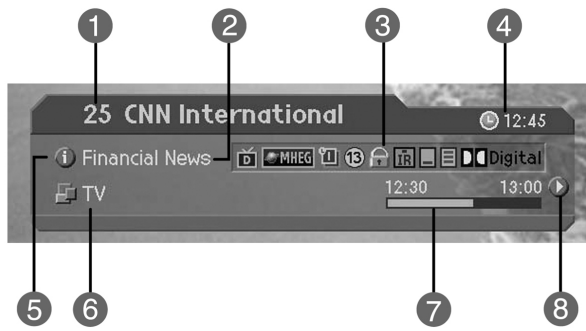
4. Basic Operation

4.6 Programme Information (I- plate)










Programme information is always displayed for a specific period of time whenever you switch channels. You can view the programme information by pressing the **i** (i) button while watching a programme. Press the **EXIT** (EXIT) button to hide the I-plate.

1. General Information

General Information is displayed as follows on the screen.



1. Channel number and channel name
2. Programme name
3. Icons

-  Displayed only if this programme is reserved.
-  Represents parental level. It indicates the minimum level of ages that the programme is targeted at.
-  Displayed only when the channel is a locked channel.
-  Displayed only when the channel is a scrambled channel.
-  Displayed only when subtitle information is available.
-  Displayed only when there is any teletext information.
-  Displayed only when the programme is a dolby digital one.
-  Displayed when the channel supports MHEG.
-  Displayed when the channel supports data channel.

4. Current time
5. Detail programme information: displayed if detailed programme information is provided.
6. Channel looping mode and Channel List Name : if you select ***Within the current channel list*** by selecting ***MENU - Edit channels - Channel Change Mode*** , the Icon of Channel looping mode is displayed. And channel list, which you selected, is displayed.
7. Programme broadcasting time and progress bar: displays programme playing time and progress bar.
8. Next programme Information : displayed if next programme information is provided. Press the ► button to display the next programme information.

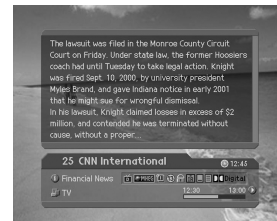
Note: If there is no available programme information, programme information is not displayed.

2. Detail Programme Information

You can see detailed information about the current programme. Press the i ⓘ button where I-plate is displayed to view detailed information.

Note:

- Press the i ⓘ button again to hide the information box.
- If the Detail information is more than one page, use ▲/▼ button to move to the previous or next page.



4. Basic Operation

4.7 Option List

You can view and confirm detailed information about the current channel and change the information in necessary.

Note: Press the **OPT+** (OPT+) button when the channel list is displayed to view **Option List**. Then the following functions in the option list are performed to the current channel where cursor is located.

1. Add a channel to favourite group

You can add current channels to the favourite group immediately. Also, you can add a channel to multiple Favourite groups.

1. Press the **OPT+** (OPT+) button.
2. Select **Favourite** using the **▲/▼** button, and press the **▶** or **OK** (OK) button.
3. Select **favourite group** using the **▲/▼** button and press the **OK** (OK) button to register for Favourite Group.



4. Press the **OK** (OK) button again on the selected **Favourite Group** to release the registered channel.
5. Move to the parent menu using the **◀** button to save the changes automatically.

Note: For detailed information about how to change Favourite Group's name and how to register Favourite Channel for the whole channels, refer to **Chapter 5**.



2. Lock/Unlock a Channel

You can lock or unlock the current channel while watching a programme.

1. Press the **OPT+** (**OPT+**) button.
2. Select **Lock** using the **▲/▼** button, and press the **▶** or **OK** (**OK**) button.
3. Select **Lock** option using the **▲/▼** button, and press the **OK** (**OK**) button.
4. Select **Unlock** option using the **▲/▼** button, and press the **OK** (**OK**) button.
5. You will be prompted to enter your Password. Enter your password to unlock the channel.
6. Move to the parent menu using the **◀** button to save the changes automatically.

Note: When switching to the Locked Channel, you must enter the password to watch a programme.



3. Delete a Channel

You can delete the current channel while watching a programme.

1. Press the **OPT+** (**OPT+**) button.
2. Select **Delete** using the **▲/▼** button, and press the **OK** (**OK**) or **▶** button.
3. Select **Yes** in the confirmation message and press the **OK** (**OK**) button.
4. Enter password using the **NUMERICAL** (0-9) button to delete the current channel and move to the next channel.



5. Channel List

3 types of channel lists are provided for easy and quick channel searching.

- TV** The list of all TV channels with 2 sub-groups: one is sorted by channel number, the other is sorted by channel name.
- Radio** The list of all Radio channels with 2 sub-groups: one is sorted by channel number, the other is sorted by channel name.
- Favourite** The list of the favourite channels with 5 sub-groups that You can organise channels by your private taste.

5.1 Displaying and Switching Channel List

You can display channel list using **LIST** (**LIST**) button and switch into other channel on the channel list.

1. Press the **LIST** (**LIST**) button while watching a programme to display the selected channel list.
2. Select your desired channel using the **▲/▼** button and press the **OK** (**OK**) button to change the channel.
3. Enter the channel numeric directly using **NUMERICAL** (0-9) button to move cursor into your desired channel. And then press the **OK** (**OK**) button to change into the selected channel.
4. Select **On** by going to **MENU - Preferences - Miscellaneous Settings - Option in CH List** to display scramble icon in the channel list.
Select **OFF** by going to **MENU - Preferences - Miscellaneous Settings - Option in CH List** to display only channel list without scramble icon.



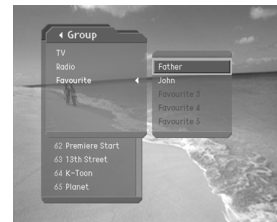
Note:

- If there are multiple channels, press the **PAGE-/PAGE+** (**CH- / CH+**) button to move by channel.
- Whenever you press the **TV/RADIO** (**TV/RADIO**) button while the channel list is displayed, the channel list will be switched between TV and Radio channel list.

5.2 Changing Channel List Group

You can select channel list by group.

1. Press the ► button while the channel list is displayed to view the group list.
2. Select your desired channel group using the ▲/▼ button to display its sub-groups.
3. Press the OK (OK) or ► button, select your desired sub-group using the ▲/▼ button, and then press the OK (OK) button.
4. The channel list for the selected sub-group is displayed.



Note:

- The sub-group of Favourite channel list may exist or not depending on your configuration.
- If **Within the Current Channel List** option is selected from **MENU - Edit channels - Channel Change Mode** menu, you can only change programme within the selected channel list using the CH-/CH+ (CH-/CH+) while your watching a programme.

5. Channel List

5.3 Edit Channels

You can edit all channels or each channel by channel list group.

1. Press the **MENU** (MENU) button.
2. Select **Edit Channels** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **Edit Channel lists** using the ▲/▼ button, and press the **OK** (OK) or ► button.
4. You will be prompted to enter your password. Enter your password using **NUMERICAL** (0-9) button.



Note:

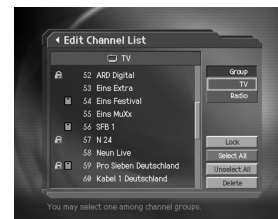
- Press the **BACK** (BACK) or ◀ button to save the changes and return to the previous menu, press the **MENU** (MENU) or **EXIT** (EXIT) button to exit the menu screen.
- You can easily navigate all menus using the assigned numeric for each menu. Press the **MENU - 2 - 1** in order at remote control to select **Edit Channel Lists** menu.



1. Select a Channel Group

You can select the channel list group to edit. TV and Radio sub-groups can be selected.

1. Press the **OK** (OK) or ► button in group to display **Channel List Group**.
2. Select your desired **Channel List Group** using the ▲/▼ button, and press the **OK** (OK) button.



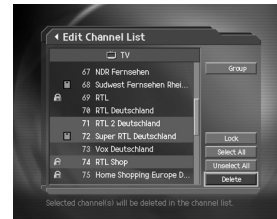
Note:

- Press the **TV/RADIO** (TV/RADIO) button to **move to TV or RADIO channel list** directly.
- For editing **Favourite channel list**, move to **MENU - Edit Channels - Edit Favourite Channels** menu.

2. Delete Channels

You can delete one or more channels.

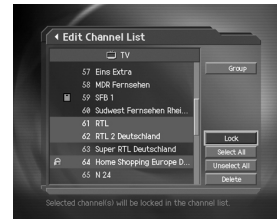
1. Move the cursor to the channel list using the ◀/▶ button.
2. Select your desired channel, and then press the **OK** (OK) button to delete the channel(s). You can select multiple channels.
3. Select **Delete** in the right using the ▶ button, and press the **OK** (OK) button.



3. Lock/Unlock Channels

You can lock or unlock one or more channels.

1. Move the cursor to the channel list using the ◀/▶ button.
2. Select your desired channel, and then press the **OK** (OK) button to lock/unlock the channel(s). You can select multiple channels.
3. Select **Lock** in the right using the ▶ button, and press the **OK** (OK) button.



Note:

- Only if locked channel(s) is selected or all channels are locked, **Lock** is switched into **Unlock**. When you press **Unlock**, locked channel is switched into unlocked channel.
- Enter password using the **NUMERICAL** (0-9) button to watch locked channel.



4. Select/Unselect All Channels

You can select/unselect all channels at a time.

1. Select **Select All** in the right and press the **OK** (OK) button to select all channels.
2. Select **Unselect All** in the right and press the **OK** (OK) button to unselect all the selected channels.OFF

5. Channel List

5.4 Edit Favourite Channels

You can edit Favourite channel or Favourite channel list.









1. Press the **MENU** (MENU) button.
2. Select **Edit Channels** using the ▲/▼ button, and press the **OK** (OK) button.
3. Select **Edit Favourite Channels** using the ▲/▼ button, and press the **OK** (OK) or ► button.



Note:




- Press the **BACK** (BACK) or ◀ button to save the changes and return to the previous menu. Press the **MENU** (MENU) or **EXIT** (EXIT) button to exit the Menu screen.
- You can easily navigate all menu items using the assigned numerical button for each menu. Press the **MENU - 2 - 2** in order on the remote controller to select the **Edit Favourite Channels** menu.

The buttons for editing the Favourite channel list are described in the following table.



	Add	Adds Favourite channel.
	Remove	Removes from the Favourite channel.
	TV/RADIO	Switches between TV and Radio channel list.
	Fav.Group	Changes Favourite channel list group.
	Move	Moves the order of channel list within the Favourite channel list.
	Rename	Renames the name of Favourite channel list.
	Sort	Sorts channels by number or name in all TV/Radio channel list.
	Unselect All	Unselect all the selected channel.

1. Add/Remove favourite channels

You can add favourite channel(s) to a specific Favourite channel list or remove the added favourite channel(s) from the list.

1. Select **Favourite Group** using .
2. Select your desired channel(s) in all TV/Radio channel list, and press  to add Favourite channel(s).
3. Select your desired channel(s) in Favourite channel list, and press  to remove Favourite channel(s).










Note: You can switch between TV and Radio channel list using **TV/RADIO** () button or  at remote control.



2. Move favourite channels




You can move favourite channel(s) to your desired location within the Favourite channel list.

1. Select **Favourite Group** using .
2. Select your desired channel to move within the Favourite channel list and press the **OK** () button.
3. Select , and press the **OK** () button.
4. Move the cursor to your desired location using the / button, and press the **OK** () button.
5. The selected channel(s) is moved to the desired location you selected.



3. Rename a favourite channel list

You can rename Favourite channel list.

1. Select Favourite group to rename using .
2. Select , and press the **OK** () button.
3. Enter the **Favourite channel list** name using the keyboard displayed on the screen.



5. Channel List

- When finishing entering the Favourite channel list name, select **OK**, and press the **OK** (OK) button.



4. Additional Features

Additional Features provides many useful functions which are necessary to add Favourite Channel.

Change between TV and Radio channel list

You can add not only TV channel(s) but also Radio channel(s) to Favourite channel list. Press **TV/R** to switch all channel list into TV or Radio channels.

Note: You can also change into TV or Radio channel by pressing **TV/RADIO** (TV/RADIO) button at remote controller.

Select a favourite channel list

You can select your desired Favourite channel list to edit. Press **F** to display the Favourite channel list. Then select your desired channel list using the **▲/▼** button, and press the **OK** (OK) button.



Sort a channel list

You can sort all TV or Radio channel lists by channel number or name for easy Favourite channel searching. If channel lists are sorted by channel number, **abc** is displayed. When you press this button, all the channel lists are sorted by name. Or, if channel lists are sorted by channel name, **abc** is switched into **123**. Press this button to order channels by number.

Unselect all the selected channels

Press **U** button to unselect all the selected channel.

5.5 Channel Change Mode

You can change the channel either in the group or in the entire groups while watching a programme.

1. Press the **MENU** (Ⓜ) button.
2. Select **Channel Change Mode** using the ▲/▼ button, and press the **OK** (Ⓚ) or ► button.
3. Select **All Channels** or **within the current channel list** using the ▲/▼ button, and press the **OK** (Ⓚ) button.



Note: When **Within the current channel list** in **Favourite Group** option is selected, you can only change the channel within the current channel list. To change the channel in another channel list in which the current channel list is not located, change the channel list or select **All channels** option.

6. Programme Guide

The Programme Guide displays programme information about each channel, based on the date and time. You can also schedule your watching using the information given.

6.1 Viewing Programme Guide Information

You can view programme information for all channels.

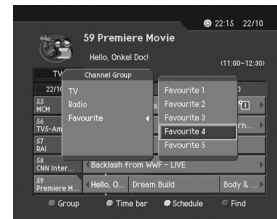
1. Press the **GUIDE** (GUIDE) button.
2. Move to previous or next programme within the same channel using the ◀/▶ button.
3. Move to another desired channel using the ▲/▼ button. If there are multiple channels, use **PAGE-/PAGE+** (CH-/CH+) button to move to channels by page. Also, you can enter your desired channel number using the **NUMERICAL** (0-9) button on the remote controller to move to the channel directly.
4. Select your desired programme, and press the **OK** (OK) button. Then you can watch the programme if it is on air, or you can reserve it if it is the following programme.
5. Press the **i** (i) button in the selected programme to view **Extended Information** for the selected channel.



1. Viewing Guide Information by Groups

You can view programme information for desired channel list by groups.

1. Press the **GUIDE** (GUIDE) button.
2. Press the **Red** button to display the channel list group.
3. Select your desired channel list group using the ▲/▼ button to display the appropriate sub-group.
4. Move the cursor to the sub-group using the ▶ button, select your desired sub-group using the ▲/▼ button, and then press the **OK** (OK) button.
5. The Programme Guide for selected channel list is displayed.



2. Viewing Programme Information Using Time Bar

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

1. Press the **GUIDE** (GUIDE) button.
2. Press the **Green** button to display **Time Bar**.
3. Select the **Time Bar** button using the **◀/▶** button, and press the **OK** (OK) button to move as your desired amount of time. If you press the button repeatedly, the same operation is repeated.



4. Each button functions as follows.

Now	Moves to the current programme where the cursor is located.
◀	Moves to the previous programme or 30 minutes before.
▶	Moves to the next programme 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.

5. Select **Now** button and press the **OK** (OK) button to exit the Time Bar.

Note: Guide provides programme information from the previous day to the next 7 days.

3. Reserving (Reserving a Watching)

You can automatically reserve your desired programme by selecting the scheduled programme and pressing the **OK** (OK) button.

1. Select the desired programme and press the **OK** (OK) button. The following message will be displayed.
2. Select **Yes** and press the **OK** (OK) button to reserve the programme. When a reservation has been completed, the **TV** icon is displayed on the reserved programme.
3. Select **No** and press the **OK** (OK) button not to reserve the programme.
4. If the channel is locked, parental controlled or restricted by watching time, you will be prompted to enter your Password. Enter your Password to complete the reservation.



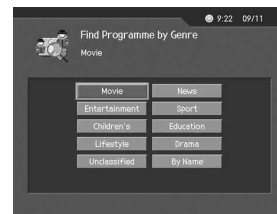
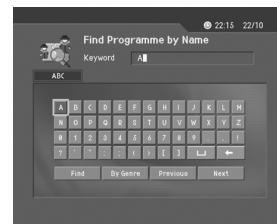
6. Programme Guide

6.2 Finding a Programme

You can find your desired programme by programme name or genre easily.

1. Press the **GUIDE** (GUIDE) button.
2. Press the **Blue** button to display **Find** screen.
3. Enter the programme name directly using the keyboard displayed on the screen.
4. When completing entering programme name, select the **Find** button, and press the **OK** (OK) button.
5. If you select your desired programme from the results of finding programme screen and press the **OK** (OK) button, you can watch the programme if it is on air, or you can reserve your programme if it is scheduled (the following programme).
6. Select **By Genre** and press the **OK** (OK) button to search programme by genre.
7. Select your desired genre and press the **OK** (OK) button.
8. As the result screen of Find programme by Name, select your desired programme from the Results of Finding Programme screen and press the **OK** (OK) button to watch the programme immediately or reserve the programme.

Note: If you press **Previous** or **Next** button on the Keyboard displayed on the screen, the keyboard layout is switched.

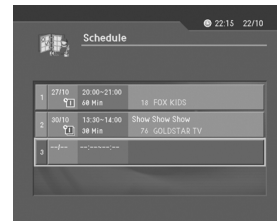
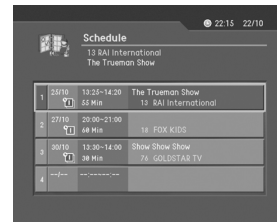


Note: The results of the finding programme may differ depending on the provided programme information.

6.3 Viewing Reserved Programme

You can add or edit reserved programmes by viewing the reserved programme list.

1. Press the **GUIDE** (GUIDE) button.
2. Press the **Yellow** button to display the **Schedule** screen.
3. Select the scheduled programme and press the **OK** (OK) button to edit the reservation information.
4. Select vacant list and press the **OK** (OK) button to add a new reservation schedule.



1. Editing a Reserved Programme

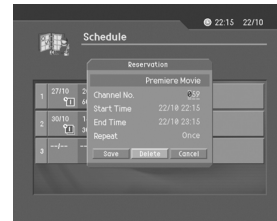
1. Change the reserved Start Time using the **Left/Right** button and the **NUMERICAL** (0-9) buttons.
2. Change the reserved End Time using the **Left/Right** button and the **NUMERICAL** (0-9) buttons.
3. Change the Repeat mode using the **Left/Right** button. The options are **Once**, **Daily**, and **Weekly**.
4. Select the **Delete** button and press the **OK** (OK) button to delete the reserved programme.
5. Select the **Cancel** button and press the **OK** (OK) button to cancel the editing.
6. Select the **Save** button and press the **OK** (OK) button to complete the editing.



6. Programme Guide

2. Adding a Reservation

1. Enter your desired channel number using the **NUMERICAL** (0-9) button. The channel name is automatically displayed by channel number.
2. Enter your desired Start Time using the ◀/▶ button and the **NUMERICAL** (0-9) button.
3. Enter your desired End Time using the ◀/▶ button and the **NUMERICAL** (0-9) button.



4. Select one of repeat mode options among **Once**, **Daily**, and **Weekly** using the ◀/▶ button.
5. Select the **Save** button and press the **OK** (OK) button to complete entering.
6. Select the **Cancel** button and press the **OK** (OK) button to cancel the reservation.

Note:

- You can reserve up to 20 programmes.
- If your desired programme is already reserved, adjust the reservation appropriately.
- If the channel is locked, restricted by watching time, you will be prompted to enter your Password to complete the reservation.

7. Setting Preferences

You can set censorship, watching time, and all other items suitable for your environment.

Note:

- Press the **BACK** (⏪) or ◀ button to save the changes and return to the previous menu. Press the **MENU** (Ⓜ) or **EXIT** (⏻) button to exit the Menu screen.
- You can easily select any item from the menu using the **NUMERICAL** (0-9) buttons.

7.1 Parental Control

You can set parental control for each programme and watching time. You can also change your Password.

1. Press the **MENU** (Ⓜ) button.
2. Select the **Preferences** using the ▲/▼ button, and press the **OK** (Ⓞ) or ▶ button.
3. Select the **Parental Control** using the ▲/▼ button, and press the **OK** (Ⓞ) or ▶ button.
4. When a prompting message is displayed to request your password, enter the password using the **NUMERICAL** (0-9) button.



1. Setting Censorship

Censorship Classification allows you to block programmes according to the age level you have set.

1. Select the **Censorship Classification** using the ▲/▼ button, and press the **OK** (Ⓞ) or ▶ button.
2. Select your desired **age level** using the ▲/▼ button, and press the **OK** (Ⓞ) button.



7. Setting Preferences

- View All** All programmes can be watched because there is no age limitation.
- 7** Programmes are blocked for children under the age of 7.
- 12** Programmes are blocked for children under the age of 12.
- 15** Programmes are blocked for children under the age of 15.
- 18** Programmes are blocked for children under the age of 18.
- Lock All** Programmes are blocked without considering the age level.

Note: You have to enter Password to watch the programme which is blocked by the age level.

2. Setting Allow Watch Time

You can block programmes according to the watching time for all the channels.

1. Select the **Allow Time Control** using the ▲/▼ button, and press the ► or **OK** (OK) button.
2. Select **Enable** or **Disable** the **Allow Time Control** using the ▲/▼ button, and press the ► or **OK** (OK) button.
 - Disable** You can watch whenever you want regardless of Allow Time.
 - Enable** You can watch only while the time specified by Allow Time.
3. When you have selected **Enable**, set the Start and End Time using the **NUMERICAL** (0-9) buttons, and press the **OK** (OK) button.
4. If you wish to cancel the entered time, select the **Cancel** button, and press the **OK** (OK) button.



Note: Once the setting has been completed, you can watch programme only while the time specified by Allow Time. Or you should enter the Password to watch any programme during unspecified time.

3. Change Password

You can change the existing Password into new one.

1. Select **Change Password** using the ▲/▼ button, and press the ► or OK (OK) button.
2. Enter **New Password** using the NUMERICAL (0-9) button, and press OK (OK) button.
3. Enter the **New Password** again to confirm the **Verify Password**, and press the OK (OK) button.

Note: The Default Password is "0000". If you have forgotten your Password, please contact your local product distributor.



7.2 Language Setting

You can set Language for Menu, Audio, and Subtitle.

1. Press the MENU (MENU) button.
2. Select **Preferences** using the ▲/▼ button, and press the OK (OK) or ► button.
3. Select **Language Setting** using the ▲/▼ button, and press the OK (OK) or ► button.



1. Audio/Subtitle Language

You can set the language for Audio and Subtitle. Default language is English.

1. Select **Audio/Subtitle Language** using the ▲/▼ button.
2. Press the ► or OK (OK) button to display the available **Language List**.
3. Select your desired language using the ▲/▼ button, and press the OK (OK) button.

7. Setting Preferences

2. Subtitle Display

You can select whether or not to display the Subtitle if provided.

1. Select **Subtitle Display** using the ▲/▼ button.
2. Press the ► or **OK** (OK) button to display the **Auto** or **Manual** option.
3. Select your desired option and press the **OK** (OK) button.

Auto Subtitles are displayed automatically in the predefined subtitle language.

Manual Subtitles are displayed in the language when you select the subtitle language by pressing the **Subtitle** (SUB) button at remote control.

3. Subtitle Font

You can select the Subtitle font.

1. Select **Subtitle Font** using the ▲/▼ button.
2. Press the ► or **OK** (OK) button to display the **Variable** or **Fixed** option.
3. Select your desired option and press the **OK** (OK) button.

Variable Uses the horizontally variable Subtitle Font.

Fixed Uses the fixed Subtitle Font.

7.3 Time Setting

You can specify the current time and Power On/Off time.

1. Press the **MENU** (MENU) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **Time Setting** using the ▲/▼ button, and press the **OK** (OK) or ► button.



1. Setting Current Time

You can set the GMT Offset for current time.

1. Select **GMT Offset** using the ▲/▼ button.
2. Press the ► or **OK** (OK) button to display **GMT list**. GMT is changed by from 30 minutes to 1 hour.
3. Select your GMT offset using the ◀/▶ buttons, and press the **OK** (OK) button.



Note:

- The current time is set automatically whenever GMT Offset changes.
- The default item is **Auto**. If GMT Offset is **Auto**, it is automatically set depending on your country.

2. Power On

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

1. Select **Power On** using the ▲/▼ button, and press the ► or **OK** (OK) button.
2. Select either **Enable** or **Disable** the Power On Control.
Enable Uses the Power On Control and sets the Power on time.
Disable Not uses the Power On Control.
3. If **Enable** has been selected, enter the **Channel No** and **Time** using the **NUMERICAL** (0-9) buttons, and press the **OK** (OK) button.



7. Setting Preferences

3. Power Off

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

1. Select **Power Off** using the ▲/▼ button, and press the ► or **OK** (OK) button.
2. Select either **Enable** or **Disable** the **Power Off** using the ▲/▼ button, and press the **OK** (OK) button.
 - Enable** Uses the Power Off and sets the Power Off time.
 - Disable** Not uses the Power Off.
3. If **Enable** has been selected, enter the **Time** using the **NUMERICAL** (0-9) buttons, and press the **OK** (OK) button.

Note: Once Power On/Off is specified, it is repeated everyday.

7.4 Schedule

You can reserve a programme to watch programme at your desired time.

1. Press the **MENU** (MENU) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **Schedule** using the ▲/▼ button, and press the **OK** (OK) or ► button.
4. **Reserved Programme List** is displayed on the screen. To edit the existing reservation, select your desired reservation, and press the **OK** (OK) button. To add a new reservation, select a blank list and press the **OK** (OK) button.



Note: For detailed information about Schedule, refer to **Chapter 6.3 Viewing Reserved Programme**.

7.5 A/V Control

You can set Audio or Video Output Control.

1. Press the **MENU** (MENU) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **A/V Control** using the ▲/▼ button, and press the **OK** (OK) or ► button.



1. TV-SCART/VCR-SCART

You can set TV/VCR-SCART Output.

1. Select **TV-SCART** or **VCR-SCART** ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option using the ▲/▼/◀/▶ button, and press the **OK** (OK) or ► button.

2. Audio Output

Set the Audio Output.

1. Select **Audio Output** ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option from **Stereo** or **Mono** using the ▲/▼ button.

3. Screen Ratio

You can set the aspect ratio of your TV.

1. Select **Screen Ratio** ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option from **4:3** or **16:9** using the ▲/▼ button, and press the **OK** (OK) button.

Note: If 2 options are provided, you can switch the option at a time using the **OK** (OK) button. Namely, Whenever you press the **OK** (OK) button, Screen Ratio is switched between 4:3 and 16:9.

4. Display Format

You can select the Display Format according to TV Screen Ratio.

1. Select **Display Format** ▲/▼ button, and press the **OK** (OK) or ► button.
2. If the Screen Ratio is set to '4:3', you can select one from **16:9 Letterbox/14:9 Letterbox/Centre Cutout** using the ▲/▼ button, and press the **OK** (OK) button.
3. If the screen ratio is set to '16:9', this item will display **Disable** or **Auto**.

7. Setting Preferences

7.6 UHF Tuning

You can set the UHF channel.

1. Press the **MENU** (MENU) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **UHF Tuning** using the ▲/▼ button, and press the **OK** (OK) or ► button.



1. UHF Channel

You can select UHF Channels for the TV. The Channel range and Frequency change according to PAL Standard.

1. Select **UHF Channel** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select channel range based on the following channel criteria using the ▲/▼ button, and press the **OK** (OK) button.

CH21-CH69	PAL I/G for Europe
CH28-CH69	PAL B for Europe/Australia

2. PAL

You can select the channel range and frequency table.

1. Select **PAL** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option among **PAL I/PAL G/PAL B** using the ▲/▼ button, and press the **OK** (OK) button.

3. UHF Offset

You can adjust fine tuning setting.

1. Select **UHF Offset** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select a range between **-4~+4** using the ▲/▼ button, and press the **OK** (OK) button.

7.7 Miscellaneous Settings

1. Press the **MENU** (MENU) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **Miscellaneous Settings** using the ▲/▼ button, and press the **OK** (OK) or ► button.



1. i-Plate Display Time

You can set the duration during which the Information box is to be displayed when you switch the channel.

1. Select **i-Plate Display Time** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select a value between 1~20 seconds using the ▲/▼ button, and press the **OK** (OK) button.

Note: When it is set to '**Disable**', the i-Plate will not be displayed when you switch the channel.

2. OSD Transparency

You can set the transparency of On Screen Display.

1. Select **OSD Transparency** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option among **Disable/25/50/75** using the ▲/▼ button, and press the **OK** (OK) button.

Disable	Fully opaque screen
25, 50, 75	As the number is bigger, the screen is more transparent.

3. Option in CH List

You can set the option of scrambled icon in the **Option in CH List**.

1. Select the **Option in CH List** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option from **On/Off** using the ▲/▼ button, and press the **OK** (OK) button.

On	Scramble icon display in the channel list.
Off	Scramble icon disappear in the channel list.

8. Installation

This chapter describes how to search for channels and a series of procedures.

8.1 Automatic Search

If your receiver is connected to the aerial and television, you can automatically search channels without entering any other information.

1. Select **MENU** (Ⓜ) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button.
3. Select **Automatic Search** from Installation menu using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button.
4. Receiver starts to search channels automatically.



Search

Wait while the receiver searches for the channels, this may take a few minutes.

1. During operating search, the cursor is located at **Stop**. Therefore, if you press the **OK** (Ⓞ) button during searching, the operation is stopped and the channels found until then will be displayed.
2. If search operation is successfully completed, and the channel does not exist, press the **OK** (Ⓞ) button and try to reset the search operation again if necessary.
3. You can delete unnecessary channels from the searched channels. Select your desired channels to delete and press the **OK** (Ⓞ) button. Then select **Delete** and press the **OK** (Ⓞ) button. To delete all channels, select **Select All** to select all channels, select **Delete**, and press the **OK** (Ⓞ) button.
4. When completing Channel Search and deleting unnecessary channels, select **Save** to save the changes.



8.2 Manual Search

You can search channels manually by searching parameters, if you know the MUX information.

1. Channel Number

Enter your desired frequency channel to search. When entering frequency channel value, the appropriate frequency value is entered.

1. Select **Channel** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one of channel using the ▲/▼ button, and press the **OK** (OK) button.



2. Frequency

Enter the your desired frequency to search directly. When entering frequency, the appropriate channel for the entered frequency is automatically displayed on Channel.

1. Select **Frequency** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Enter frequency using the **NUMERICAL** (0-9) button and press **OK** (OK) button.



3. Mode

Required for Channel Search. If you don't know the value, please select Auto.

1. Select **Mode** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select among **Auto**, **2k** and **8k** using the ▲/▼ button, and press the **OK** (OK) button.



8. Installation

4. Guard Interval

Required for Channel Search. If you don't know the value, please select Auto.

1. Select **Guard Interval** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select one option among **Auto**, **1/4**, **1/8**, **1/16** and **1/32** using the ▲/▼ button, and press the OK (OK) button.



5. Network Search

If specified frequency channel information and other channel information are provided together, the channel, which belongs to other frequency channel, is also searched.

1. Select **Network Search** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select one option between **Enable** and **Disable** using the ▲/▼ button.



8.3 Default Setting

Default Setting restores the receiver to the default settings.

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

To perform Factory Default:

1. Press the **MENU** (MENU) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Enter **Password** using the **NUMERICAL** (0-9) button.
4. Select **Default Setting** using the ▲/▼ button, press the **OK** (OK) or ► button.
5. Select **Yes** and press the **OK** (OK) button to restore all setting to Factory Default.
Select **No** and press the **OK** (OK) or **BACK** (BACK) button to return to the previous menu.
6. Confirm again to start loading default setting. Enter **Password** using the **NUMERICAL** (0-9) button to perform restoring.
7. When completing the default setting, press the **OK** (OK) button to automatically run the **Installation Wizard**.
When default setting is completed, Installation Wizard is automatically displayed, which helps Channel Search. For detailed information about Installation Wizard, refer to **3. Installation Wizard**.



9. Software Update

In order to maintain proper performance of this product, it is essential to have the most up to date software. The latest news and release of software versions may be found at Humax website - <http://www.humaxdigital.com>.

It is recommended that you periodically check for the availability of software upgrade.

9.1 OTA (Over the Air)

OTA, an abbreviation of "over the air", means that downloads the software where the manufacturer reserves the right to decide when and where to release through aerial.

Over the Air(OTA) is simply another alternative for downloading software versions. However, the manufacturer reserves the right to decide when and where this software update can take place by "beaming" latest software versions over the air via aerial. The software update via aerial will only occur under the following circumstances.

1. The equipment should have appropriate loader software.

Caution: Please note that if you don't have normal loader software, the equipment may not be updated or work after software update.

2. The manufacturer decides to release software downloading via a designated aerial
3. The equipment must be "tuned" properly to the same aerial that the manufacturer uses.
4. Update software when the quality of receiving signal strength is high. If the weather is not so good that the quality of receiving signal strength is not recommendable, perform the software upgrade later.

Caution:

- Please be careful to keep the power on and the power cord plugged in during software update. If the power is off during software update, it may cause fatal damage to the product.
- Please be careful not to pull out the Signal line (co-axial Cable) during software update. Update may be interrupted and the product may not work.

Note:

- The product cannot work at all during software update.
- It may take 5 ~10 minutes to update software.
- Scheduling operation cannot work during software update.

1. If new software is found when powering on

1. A message will be displayed to notify that new software is found.
2. Select **Yes** and press the **OK** (OK) button to update the software.
3. Starts downloading new software. Please wait until the updated is completed.
4. When completing the software update, the equipment is automatically powered off and on again.

2. If updating software from Menu

1. Press the **MENU** (MENU) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Enter **Password** using the **NUMERICAL** (0-9) buttons.
4. Select **Software Update** using the ▲/▼ button, and press the **OK** (OK) or ► button.



3. If new version of software is detected during watching a programme

1. A message will be displayed to notify that new software is found.
2. Select **Yes** and press the **OK** (OK) button to start upgrading. Select **No** and press the **OK** (OK) button to return to the previous menu. Select **Later** and press the **OK** (OK) button to update later. That means the update menu display as soon as you turn on the receiver next time.

4. If using Automatic Update

You can set the product to find HUMAX software update site and update software automatically.

1. Select **Automatic** from **Software Update Menu** screen using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Automatically search for new software. Select **Stop** and press the **OK** (OK) button to finish Search.
3. When detecting update software, the following result is displayed. If new software is not found by Automatic, use Manual Update.



9. Software Update

4. Select **Yes** and press the **OK** (OK) button to start updating.
Select **No** and press the **OK** (OK) button to return to the previous menu without updating.
Select **Later** and press the **OK** (OK) button to update later. That means the update menu display as soon as you turn on the receiver next time.
5. When completing the software update, the product is automatically powered off and on again.



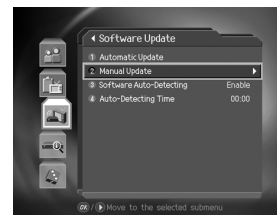
5. Manual Update

You can perform Manual Update only if you know MUX information of software update correctly.

Among the Software Update Sites of HUMAX, the software search operation is performed only for the satellites that have been set to **Enable** in **Installation - Antenna Setting - Satellite Alternative** menu and that have all other Antenna Setting correct.

1. Select **Manual Update** from **Software Update** screen using the **▲/▼** button, and press the **OK** (OK) or **▶** button.

Select the channel number which provides update software. You can also enter the frequency instead of channel number in which updated software is provided.
2. Select **Mode**. If the information is not known, then **Auto** can be selected.
3. Select **Guard Interval**. If the information is not known, then **Auto** can be selected.
Note: How to setting parameters in **Manual Update** is the same as how to set parameters in **Manual Search**. Refer to **Manual Search**.
4. Select **Search** and Press the **OK** (OK) button to search software.
5. It is displayed whether or not New Software exist.
If new software does not exist, press the **OK** (OK) button to return to the Manual Update Menu.
6. Select **Yes** and press the **OK** (OK) button to start updating. Select **NO** and press the **OK** (OK) button to return to the previous menu.
Select **Later** and press the **OK** (OK) button to update later. That means the update menu display as soon as you turn on the receiver next time.
7. Performs Software Update. Please wait until it is completed.
8. When completing the software update, the product is automatically powered off and on again.



6. Software Auto-Detecting and Time

You can specify the software detecting time.

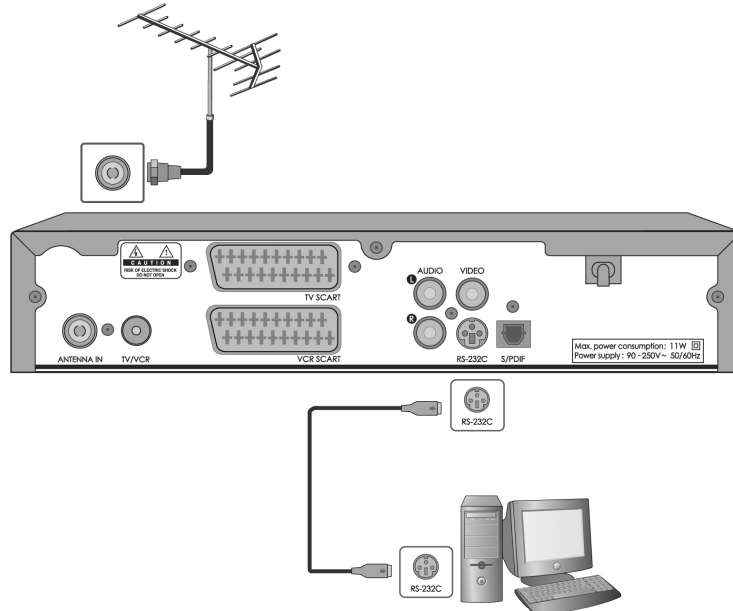
If the receiver powers on during software auto-detecting, Detecting will stop.

1. Select **Software Auto-Detecting** from **Software Update** screen using the ▲/▼ button.
2. Select **Enable** or **Disable** using **OK** (OK) or ► button whether or not setting the software detecting time automatically.
3. When you select **Enable**, you can set the detecting time in the Auto-Detecting Time.

9.2 S/W Update from PC

You can connect your receiver to the PC directly and update your software by transferring the new software from the PC. Follow these steps to download new software from PC to this product.

1. Download new software file (HDF files) equivalent for this product model from our website into your computer (<http://www.humaxdigital.com>).
2. Download and install download tool file from our website into your computer.
3. Connect your PC to this product with RS-232C serial cable.
4. Execute installed download tool, and then follow the instructions contained the download tool.
5. Press the **STANDBY** (⏻) button to make this product operating.



10. System Information

You can view all system information, signal strength and quality.

1. Press the **MENU** (MENU) button.
2. Select **System** using the ▲/▼ button, and press the **OK** (OK) or ► button.



10.1 Status

You can view System information

1. Select **Status** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Confirm the information about **Hardware version, Software version, Loader version, Update Date and System ID.**



10.2 Signal Detection

You can view the signal strength and signal quality receiving for the channel that is currently on AV.

1. Select **Signal Detection** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Displays the channel name, frequency, mode, and guard interval of terrestrial frequency, and currently tuned channel number and its name, which current channel belongs to and the graphs and percentage of Signal Strength and Quality of the channel.



11. Games

This product provides various games for user's entertainment.

1. Press the **MENU** (MENU) button.
2. Select **Games** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. According to the instruction displayed on screen, you can enjoy the game using ▲/▼/◀/▶ and **OK** (OK) button.

Note: Press the **EXIT** (EXIT) or **BACK** (BACK) button to exit the game.

12. Manipulating your TV using Remote Control

You can manipulate TV using the remote control provided by Humax.

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

TV code setting

Note: While you are setting TV code, please keep pressing TV button.

1. Point remote control towards the remote control receiving parts of TV.
2. Press the **TV** (○) button, and the TV button LED blinks once.
Keep pressing **TV** button for 3 seconds, then TV button LED turn on.
Press three numbers of TV code using the **NUMERICAL** (0~9) button orderly.
Refer to the following **Code for TV manufacturer**.
3. TV button LED blink twice when you detach your finger from the TV button.
4. TV power turns on or off when the setting is completed.

[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	BLACKSTRIPE	040

Brand	Code
BLACKSTRIPE	106
BLACKSTRIPE	108
BLAUPUNKT	059,060,061
BLUE SKY	064
BLUE STAR	075
BOOTS	063
BOSCH-BAUER	098
BPL	075
BRADFORD	052
BRINKMANN	123
BRITANNIA	062
BROCKWOOD	009
BROKSONIC	002,067,085
BROTHER	071
BRUNS	126
BSR	093,118
BTC	064
BUSH	004,017,018,064,075,093, 099,117
CANDLE	015,025,057
CAPEHART	124
CAPSONIC	071
CARNIVALE	015
CARREFOUR	017
CARVER	023,046
CASCADE	004
CATHAY	018
CCE	063,018,078
CCI	115
CENTURION	018
CGE	101,123

Brand	Code
CIE	133
CIMLINE	004,117
CINERAL	029,084
CITIZEN	015,019,025,026,029,040, 057,074
CLAIRTONE	056
CLARIVOX	018
CLARIVOX	125
CLATRONIC	098
CLATRONIC	127
CME	004,005,017,018,028,042, 049,063,065,066,068,076, 079,087
CONCERTO	025
CONDOR	098
CONIC	110
CONTEC	004,017,052,056,062
CONTINETAL	141
EDISON	052
CRAIG	105
CRIPTOVISION	023
CROSLEY	110
CROSLEY	004,018,019,052,127
CROWN	098
CTC	006,015,019,020,021,023, 026,030,035,038, 25,040, 044,084,106
CXC	052
CYBERTON	064
DAEWOO	004,009,018,019,029,084, 133

12. Manipulating your TV using Remote Control

Brand	Code
DAINICHI	064
DANSAI	018
DAYTON	004,009,019,108
DE GRAAF	066
DECCA	018,028,129
DENON	035
DESMET	098
DIXI	003,004,018,126
DUAL	097
DUAL TEC	063
DUMINT	127
DUMONT	007,009
DYNATECH	063
EB TELECOM	105
ECTEC	081
ELBE	116
ELECTROBAND	056
ELECTROHOME	080,106,110
ELEKTA	071
ELIN	018
ELITE	040,064,098,106
ELMAN	127
ELTA	004
EMERSON	009,019,038,049,050,051, 051,053,054,055,056 067,072,074,075,085
ENVISION	015
ERRES	018
EURO-FEEL	071
EUROMANN	071

Brand	Code
EUROPHON	127
FERGUSON	018
FIDELITY	062,097,104
FINLADIA	106
FINLUX	018,028,051,093,129
FIRST LINE	118,004,062,063
FISHER	038,041,063,097,106, 108,126
FORMENTI	018,098,103
FRONTECH	042,071,099
FUJITSU	028,051,124
FUNAI	047,051,052,071,118
FUTURETECH	052
GALAXIS	123,142
GBC	099
GE	011,013,020,021,024,030, 034,050,075,084
EC	018,028,063,095,110,129
GELOSO	004,099
GENEXXA	042,064
GIBRALTER	007,009,015
GO VIDEO	026
GOLDSTAR	000,001,009,015,016,018, 019,025,033,050,063, 071,093,110,124,140
GOODMANS	017,018,028,051,063,133
GPM	064
GRADIENTE	022,025,046,082
GRADIN	098
GRAETZ	042,099

Brand	Code
GRANADA	018,028,063,109,124
GRANDIN	075
GRUNDIG	018,059,060,068,137
GRUNPY	051
GRUNPY	052
HALIEAX	071
HALLMARK	050
HANSEATIC	018,089,097,098,099, 118,119
HARLY DAVIDSON	051
HARMAN KARDON	023
HARVARD	052
HCM	004,071,075
HEMMERMANN	097
HINARI	004,017,018,051,064
HITACHI	094,095,096,099,102, 108,109,110,111,112, 113,114,124,148,016, 017,025, 031,032,035, 037,042,048,063,066, 090,091
HUANYU	062
HUSPI ELEKTRONIK	123
HYPERVISION	134
HYPSON	018,071,075
HYPSON	071,075
ICE	063,071
ICES	064
IMPERIAL	092,099,101,123
INDESIT	068
INDIANA	018

Brand	Code
INFINITY	023
INGEKEN	139
INGELEN	042
INNOHIT	028,124
INNOVA	018
INTEQ	007
INTERBUY	071
INTERFUNK	018,042,095,099
INTERVISION	018,063,071,127,144
ISUKAI	064
ITT	042,099,108
JACSON	129
JBL	023
JCB	137
JEC	040
JVC	017,022,045,054
KAISUI	004,062,063,064,075
KAMP	062
KAPSCH	042,095,099
KATHREIN	089
KAWASHO	062,077
KEC	052
KENDO	018,099,117,119,127,
KENWOOD	009,015
KINGSLEY	062
KLH	124
KLOSS	012
KMC	033
KONIG	004,005,017,018,042,061, 068

12. Manipulating your TV using Remote Control

Brand	Code
KORPEL	018
KORTING	098
KOYODA	004
KTV	015,019,052,055,056, 063,074
KUBA ELECTRONIC LENCO	097 071,133,146,018,028, 071,118,124
LG	025
LIESENK & TTER	018
LIFETEC	071
LLOYTRON	016
LOGIK	000,006
LUMA	099
LUXMAN	025
LUXOR	068,094,099,102,124
LXI	007,020,023,038,040, 050,106
M ELECTRONIC	004,018,042,063,097,127
MAGNAFON	127
MAGNASONIC	106
MAGNAVOX	010,012,014,015,017, 023,051,057,058,110
MAJESTIC	006
MANDOR	071
MANESTH	063,071,098,117
MARANTZ	015,018,023,089
MARK	018
MATSUI	004,005,018,049,063, 092,097,117
MATSUSHITA	021,070
MC MICHAEL	110

Brand	Code
MEDIATOR	018
MEGATRON	002,035,050,109
MEI	056
MEMOREX	004,006,025,026,033,036, 038,050,070,071,106
MEMPHIS	124
MGA	009,015,036,039,050
MIDLAND	007,016,019,020,021,034
MINERVA	068
MINUTZ	011
MITSUBISHI	009,017,030,036,039,050, 068
MIVAR	062
MOTOROLA	024,030
MTC	009,015,025,026,056,062
MULTISTANDARD	127
MULTITECH	004,052,062,063,099,127
MUTIMEDIA	132
NAD	040,044,050
NAONIS	099
NATIONAL	068
NEC	009,015,017,025,046
NECKERMANN	018,059,087,089,099,102
NEI	018
NESCO	051
NETSAT	018
NIKKAI	016,018,028,040,062,064, 071,124
NIKKO	007,015,020,029,038,040, 050
NISATO	081
NOBLEX	083

Brand	Code
NOKIA	071,094,095,096,099,106, 108,143
NOSHI	008
NTC	029
OCEANIC	042,099,106,118
ONWA	052
OPTIMUS	038,044,070
OPTIONICA	030,043
ORION	018,049,051,067,085,097, 098,118
OSAKI	016
OSAKI	028
OSAKI	063
OSAKI	064
OSAKI	071
OSAKI	124
OSO	064
OSUME	016,028,124
OTTO VERSAND	017,018,059,063,087,089, 093,097,098,099,102, 108,117,118
PALLADIUM	099
PANAMA	063,071
PANASONIC	000,020,021,022,023,024, 026,030,035,036,038, 040,042,043,050,065, 068,070,079,099
PATHE CINEMA	062,098
PAUSA	004

Brand	Code
PCE/PEC	040,106,108
PENNEY	001,102,008,009,011,013, 015,016,019,020,021, 025,026,034,040,050
PHASE	016
PHILCO	009,010,012,014,015,023, 035,057,058,085,123
PHILIPS	007,008,009,010,011,012, 013,014,018,019,023, 089,110,124,138,
PHONOLA	018,098
PILOT	009,015,019
PIONEER	042,044
POLICOM	068
POLYRON	071
PORTLAND	009,019,029
PRANONI PRINCE	099
PRIMA	040,106
PRINZ	124
PRISM	021
PROFEX	004
PROLINE	119
PROSCAN	015,020
PROTEC	099,127
PROTECH	004,018,063,071,
PROTON	002,050
PULSAR	007,009,110,124,
QUASAR	021,024,043,070,

12. Manipulating your TV using Remote Control

Brand	Code
QUELLE	005,018,087,093,097,099, 108,117,118
QUESTA	017
RADIO SHACK	009,015,016,019,020,025, 038,043,050,052,106
RADIOLA	018
RADIOTONE	071
RADIX	108
RANK ARENA	017
RCA	008,009,020,021,030,034
REALISTIC	009,015,016,019,025,038, 043,050,052,106
REKORD	149
REVOX	018
REX	042,071,076,099,
RFT	088,126,
RHAPSODY	055,056,062
R-LINE	018
ROADSTAR	004,064,071
ROYAL LUX	131
RTF	018
RUNCO	007,015
SABA	042,095,099
SAGEM	139
SAISHO	004,005,049,071,117
SAKIO	071
SALORA	042,094,099,102,106,124
SAMBERS	127
SAMPO	015,016,019

Brand	Code
SAMSUNG	004,009,015,016,018,019, 025,026,050,063,071, 078,089,124,137
SAMSUX	019
SANDRA	062
SANSEI	084
SANSUI	085
SANYO	005,017,028,038,041,106, 107,108,124,129
SBR	018
SCHAUB LORENZ	099
SCHNEIDER	018,064,071,097,136,143, 147
SCIMITSU	009
SCOTCH	050
SCOTT	009,050,051,052,067
SEARS	020,023,025,038,040,041, 047,050,051,106
SEG	017,063,071,126,127
SEI	049
SEI-SINUDYNE	097,099,117,118,127
SELECO	042,076,099,100,119,120, 122,
SEMIVOX	052
SEMP	040
SENTRA	040
SHARP	017,019,030,043
SHOGUN	009
SHORAI	118

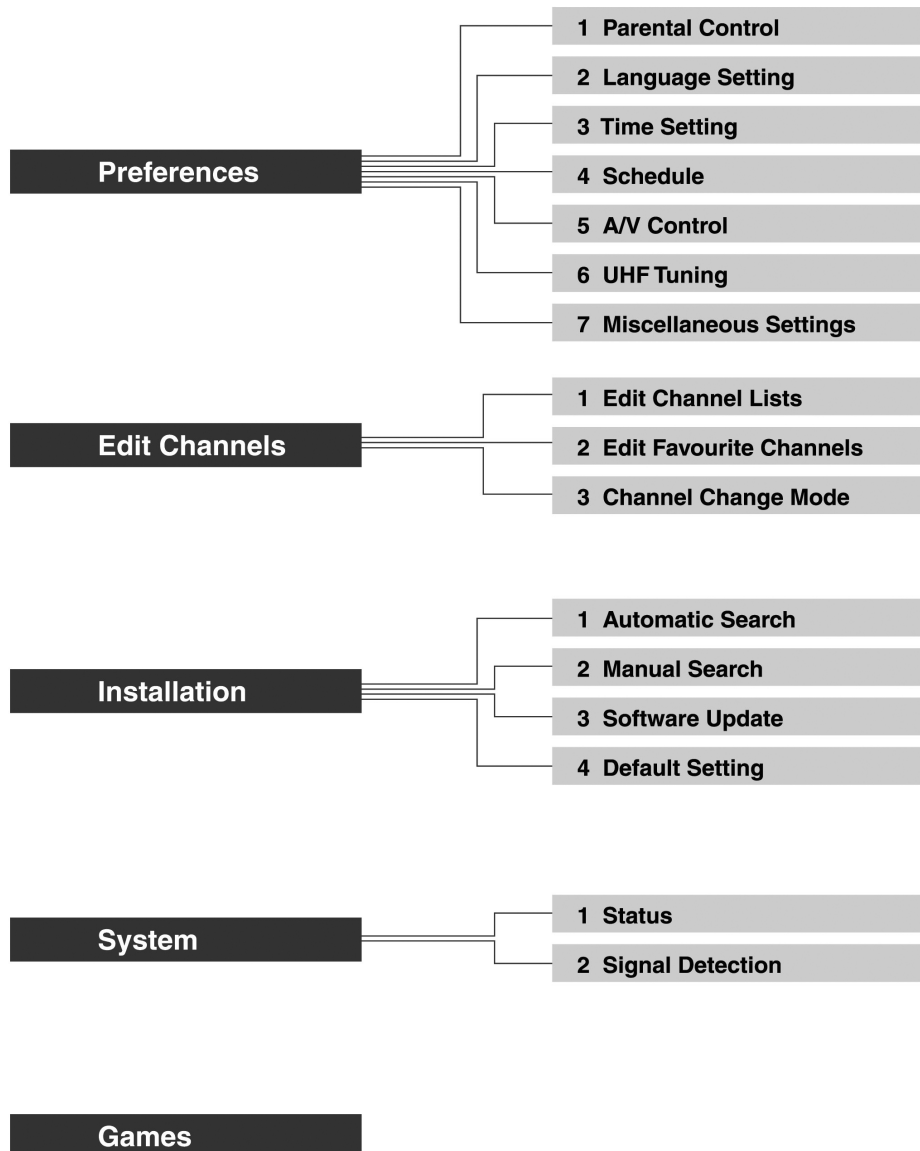
Brand	Code
SIAREM	127
SICATEL	121
SIEMENS	018,059,060,061
SIGNATURE	006,040
SILVER	017
SIMPSON	057,058
SINGER	127
SINUDYNE	049
SKANTIC	099
SKY	018
SOGERA	098
SOLAVOX	016
SOLAVOX	042
SONITRON	108
SONOKO	004,018,071
SONOLOR	042
SONTEC	018
SONY	005,017,073,087
SOUND&VISION	127
SOUNDESIGN	050,051,052,057
SOUNDWAVE	018
SPECTRA	133
SPECTRICON	002
SQUAREVIEW	047
SR2000	106
SSS	009,052
STANDARD	004,063,064,098
STARLITE	052
STERN	042,076,099
SUNKAI	117,118
SUPERTECH	097

Brand	Code
SUPRA	025
SUSUMU	064,010,012,014,015,023, 057,058,080
SYMPHONIC	047
SYSLINE	018
TADNDY	124
TANDY	028,030,042,063,064
TASHIKO	110
TASHKO	017,063
TATUNG	002,018,024,028,063,124
TEC	063,133
TECHLINE	127
TECHNEMA	098
TECHNICS	007,020,021,070
TECHNISAT	130
TECHNOL ACE	051
TECHWOOD	002,021,025
TEKNIKA	006,009,019,023,025,026, 029,036,051,052,057
TELECO	135
TELEFUNKEN	025
TELEMEISTER	098
TELETECH	004
TELETON	017,057,063,099
TELEVIDEON	098
TENSAI	064,093,098,118
TESLA	135
TEXET	062,064
THOMAS	110
THOMAS	124
THOMSON	068

12. Manipulating your TV using Remote Control

Brand	Code	Brand	Code
THORN	018,028,040,087,107, 108,110,112,128,129	VIDEOTON	094
TMK	025,049,050	VIDIKRON	023
TOKAI	124	VIDTECH	009,017,050
TOMASHI	075	VISA	004,005,017,018,042,068
TOSHIBA	017,026,038,040,069, 106,108	VISION	098
TOSONIC	056	VOXSON	042,099
TOTEVISION	019	VTQ	126
TOWADA	099,127	WALTHAM	063,094,099
TRIUMPH	049,069	WARDS	006,009,010,011,013,014, 015,023,025,034,040, 043,050,051,058
TV TEXT	089	WATSON	018,098
UHER	098	WATT RADIO	097,127
UHER	127	WEGA	017
ULTRA	081,124	WHITE	018,062,098,106
ULTRAVOX	127	WESTINGHOUSE	
UNIVERSAL	011	WORLD-TECH	133
UNIVERSAL	013	YAMAHA	009,015
UNIVERSUM	018,071	YOKO	018,063,071,133
VECTRO RESEARCH	015	YORK	108
VESTEL	018	ZANUSSI	076,099
VICTRO	012	ZENITH	006,007,029
VIDEOTECHNIC	013	ZONDA	002

13. Menu Map



14. Trouble Shooting

14.1 Trouble Shooting

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

1. No message is displayed on the front panel or product has no power
 - Check the main power cable and check that it is plugged into a suitable power outlet.
 - Check whether Power Switch is On.
2. No picture
 - Make sure that the product is in Operation Mode.
 - Make sure that the AV Cable is firmly connected to the TV.
 - Make sure that aerial line is correctly connected to the equipment.
 - Check the brightness level of TV.
 - Check the channel is on air.
3. Poor picture & sound quality
 - 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.
4. No or poor sound
 - Check the volume level of the TV.
 - Check the Mute status of the TV and product.
 - Press the Audio button to change the Sound Track type.
5. Remote control does not operate
 - To manipulate the equipment with remote control, the remote control's emitting part should directly point towards the receiving part of receiver's remote control.
 - Check the battery of Remote control.
6. Reservation is unavailable
 - Check whether it is not overlapped with other reservation.
 - Check whether the power switch is off.

14.2 Error Message

Error message	Possible causes	What to do
No or bad signal	The aerial is not pointing properly.	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 channel is scrambled or not available.	The channel has signal, but no audio or video. The channel is not deleted by broadcasting company. The channel is for data broadcasting.	Confirm if the channel is currently on air. Cannot watch the channel in usual way.
The channel is scrambled.	This digital terrestrial receiver does not support the service that enables to descramble the scrambled channels.	
The audio is not available.	The channel has signal, but no Audio.	Press the Audio button to confirm if the channel has Audio.

15. Specification

Tuner & Channel	
Input Connector	IEC-Type, IEC 169-24, Female
RF Loop through Output connector	IEC-Type, IEC 169-24, male
Frequency Range	48.5MHz to 226.5MHz (VHF) 470MHz to 862MHz (UHF)
Signal Level	-10 to -70dBm
Demodulation	OFDM
Mode	2K, 8K
FEC mode	1/2, 2/3, 3/4, 5/6 & 7/8
Guard Intervals	1/4, 1/8, 1/16 & 1/32
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818
Profile Level	MPEG2 MP@ML
Input Rate	15 Mbit/s Max
Aspect Ratio	4:3, 16:9 Letter box
Video Resolution	720 x 576
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single /Dual mono/ Stereo /Joint stereo

Memory	
Flash Memory	4 Mbytes
Graphics (MPEG) & System Memory	16 Mbytes
EEPROM	8 Kbytes
RF-Modulator	
RF/Loop-through Output Connector	75 Ω , IEC 169-2
Frequency	470 ~ 862 MHz
Output Channel	CH 21 ~ 69
TV standard	PAL I/G/B
Preset Channel	CH 36
A/V & Data In/Out	
Video	1 Output RCA
Audio R/L	2 Output RCA
RS-232C	Transfer Rate: 115,200 bps, 3 pin Socket type
Power Supply	
Input Voltage	AC 90 ~ 250V, 50/60Hz
Type	Switching Mode Power Supply (SMPS)
Power Consumption	Operation mode : Max. 11 W Stand-by mode : Max. 7.5 W
Protection	Separate internal fuse & Lightning protection
Physical Specification	
Size	260 mm X 50 mm X 182 mm
Weight (Net)	1.2 kg
Operating Temperature	0 °C to +45 °C
Storage Temperature	-10 °C to +70 °C

16. Glossary

Aerial

A device that collects and amplifies electromagnetic waves. Also called "Antenna"

Coaxial cable

A specially designed and shields cable that can transport signals with high frequency.

Frequency

The number of cycles or events per one second, which is expressed in the unit of hertz

FTA (Free- To-Air)

An unscrambled broadcast, which you can view without additional payments to a service provider.

MUX

The transmitter/frequency/channel where the programme provider/operator transmit a package of digital channels/services. Usually there are several MUX frequencies with different or same content.

Network

The collection of channels/services that a programme provider/operator offer. These services may be transmitted from one or several MUXes. In the transmitted data stream the operator may transmit a service information table(network information) that is informing the digital terrestrial receiver about all available services in the network

OSD (On Screen Display)

The function that displays the information about the monitor that the user needs or has to know on the screen directly. OSD information includes brightness, contrast, tuning, RGB adjustment, and screen size and positions (top, left, width, and height), and so on.

OTA (Over The Air)

Means that software downloads where the manufacturer reserves the right to decide when and where to release them through aerial.

SCART

A 21-pin connector used for connection of this product, VCR and TV. Also called Euroconnector or Peritel connector.

17. Service and Support

You can get information such as a troubleshooting guide, software upgrades and product support guide from the following web sites and call center (Hotline).

Please try to contact to your local dealers first when you have any problem.

Web site and e-mail

Homepage

http://www.humaxdigital.com	English
http://www.humaxdigital.com/Deutsch/	Deutsch
http://www.humaxarabia.com	Arabic

HCSA (Humax Customer Service Area)

Software Download, Information and Technical Q&A

http://www.humaxdigital.com/hcsa/	English
http://www.humaxdigital.com/Deutsch/hcsa/	Deutsch

E-mail (Technical Q&A)

tech-info@humax-digital.co.uk	Europe & North Africa
techinfo@humax-digital.de	Germany
callcenterME@humaxdigital.com	Middle East
Webmaster@humaxdigital.com	Asia & Other area

17. Service and Support

Call Center

Humax Middle East Call Center (Dubai, UAE)

Tel: +971 (0)4 359 2323 (Open: 9:00 - 20:00 / close on Friday)

E-mail: callcenterME@humaxdigital.com

Open: Local Time in Dubai (GMT+4)
9:00 - 20:00 (Saturday - Thursday, close on Friday)

Support Language: English/Arabic

Humax Hotline (Germany)

Germany: 01805 778 870 (€ 0,12/Min)

Other Countries: + 49 1805 778 870 (€ 0,12/Min+ International Call Charge)

Open: Local Time in Germany (GMT+1)
8:00 - 20:00 (Monday - Friday)
8:00 - 18:00 (Saturday)

Support Language: Deutsch/English

Humax BTCL Hotline (Premiere Model)

Germany: 01805-778900 (€ 0,12/Min)

Austria: 0900-900633 (€ 0,33/Min)

For hardware repair, please refer to support website. (Homepage or HCSA)

www.humaxdigital.com

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