

## 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 your local power company. Disconnect the receiver 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 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 points 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.
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 STB and reduce its life span.

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## 1. Before Using the Receiver

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

### 1.1 Package Contents

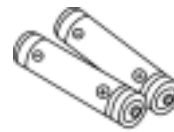
Please check all package contents before using your receiver.



**Remote Control Unit**



**User's Manual**



**Batteries**



**Scart Cable**

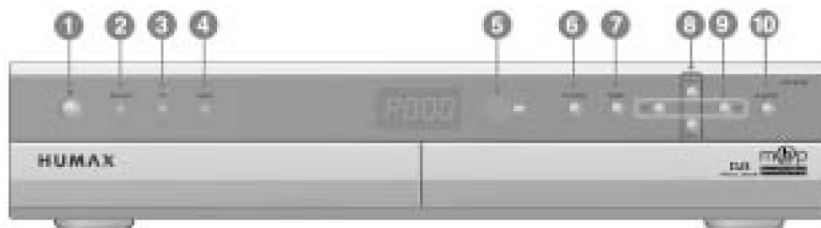


**Modem Cable**

**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.

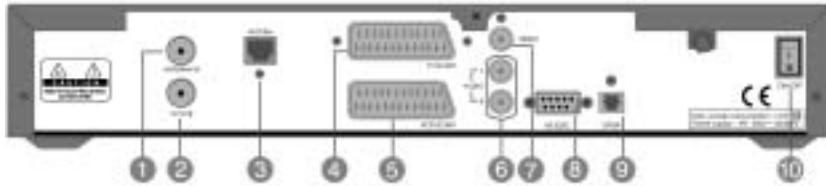
# 1. Before Using the Receiver

## 1.2 Front Panel



- 1. STANDBY Button**  
Switches between Operation and Standby modes.
- 2. STANDBY LED**  
Red light is displayed when the product is in the Standby mode.  
Green light is displayed when the product is in operation.
- 3. TV LED**  
Green light is displayed when the receiver is in TV mode.
- 4. RADIO LED**  
Amber light is displayed when the receiver is in Radio mode.
- 5. IR Sensor**  
Infrared remote control command indicator.  
This indicator lights up momentarily when a command from the handset is received.
- 6. TV/RADIO Button**  
Switches between TV and Radio.
- 7. GUIDE**  
Displays the Programme Guide.
- 8. CH- / CH+**  
Moves the TV/Radio channel up/down.
- 9. V - / V +**  
Adjusts the audio volume.
- 10. SOURCE Button**  
Selects the input source between TV and STB.
- 11. SMARTCARD SLOT (Reserved)**  
Slot for a smartcard.

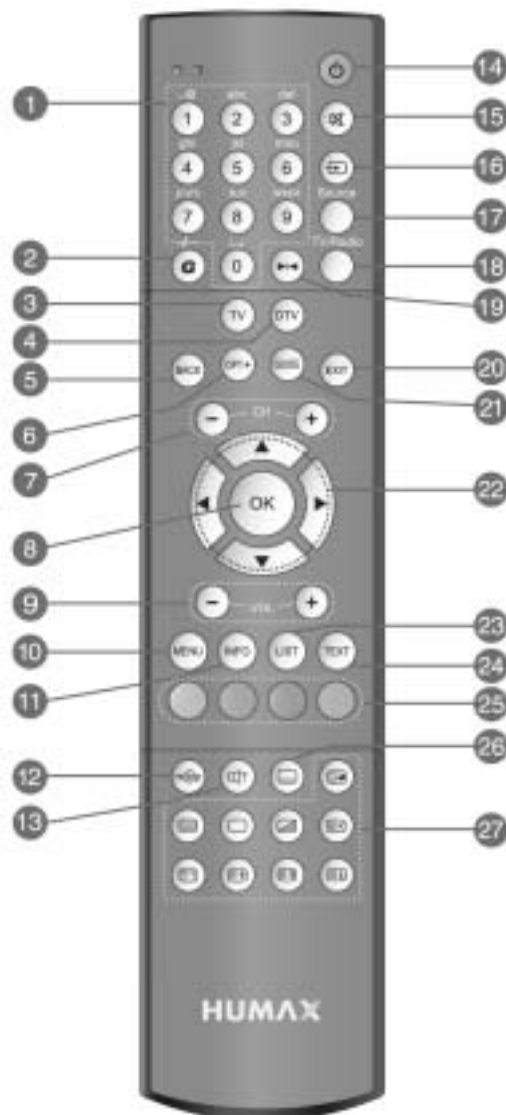
### 1.3 Rear Panel



- 1. ANTENNA IN**  
Connects a antenna to a antenna cable.
- 2. TV / VCR**  
Connects a RF signal from your receiver to RF(ANT) input jack on your TV or VCR.
- 3. MODEM**  
Connect to telephone line.
- 4. TV SCART**  
Connects a TV SCART cable.
- 5. VCR SCART**  
Connects a VCR SCART cable.
- 6. AUDIO L/R**  
Connects to your TV or VCR and output Audio signals.
- 7. VIDEO**  
Connects to your TV or VCR and output Video signals.
- 8. RS-232C**  
Connects to your PC to upgrade product's software programme.
- 9. S/PDIF**  
Outputs the digital audio signals(S/PDIF).
- 10. ON/OFF**  
Power On and Off.

## 1. Before Using the Receiver

### 1.4 Remote Control



**1. NUMERICAL BUTTONS**

Enters a TV/Radio channel number or menu option number. Supports SMS function.

**2. G (Game)**

Displays the game.

**3. TV**

Controls the TV.

**4. DTV**

Controls the Receiver.

**5. BACK**

Returns to the previous menu and screen.

**6. OPT+ (OPTION)**

Displays the channel attributes during watching a programme.

**7. CH- / CH+**

Changes the Channel.

**8. OK**

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

**9. V- / V+**

Adjusts the audio volume.

**10. MENU**

Displays the main menu.

**11. INFO (INFORMATION)**

Displays the information about the channel and programme.

**12.  (MHP Application)**

Displays MHP application information. (Number of MHP application and MHP application status.)

**13. SOUNDTRACK**

Displays the Soundtrack.

**14. STANDBY**

Switches between Operation and Standby modes.

**15. MUTE**

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

**16. AUX**

Controls input mode of TV.

**17. SOURCE**

Selects the input source between TV and STB.

**18. TV/RADIO**

Switches between TV and Radio modes.

**19. FREEZE**

Freezes the TV screen you are watching. Play the audio continuously.

**20. EXIT**

Exits the main menu or Guide screen.

**21. GUIDE**

Displays the Programme Guide.

**22. ARROW BUTTONS**

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

**23. LIST**

Displays the channel list.

## 1. Before Using the Receiver

### 24. TEXT

Displays digital text.

### 25. COLOUR BUTTONS (R/G/Y/B)

Select colour keys for interactive applications.

### 26. SUBTITLE

Changes the subtitle language.

### 27. TELETEXT BUTTONS

#### () **TELETEXT On**

Switches between Teletext and TV modes.

#### () **TELETEXT Off**

Switches between Teletext and TV modes.

#### () **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.

#### () **MIX**

Adjusts the background transparency of teletext screen.

#### () **CANCEL**

Hides the teletext except the page number.

#### () **REVEAL**

Displays the concealed information.

#### () **DOUBLE SIZE**

Displays the text size as double size.

#### () **PAGE HOLD**

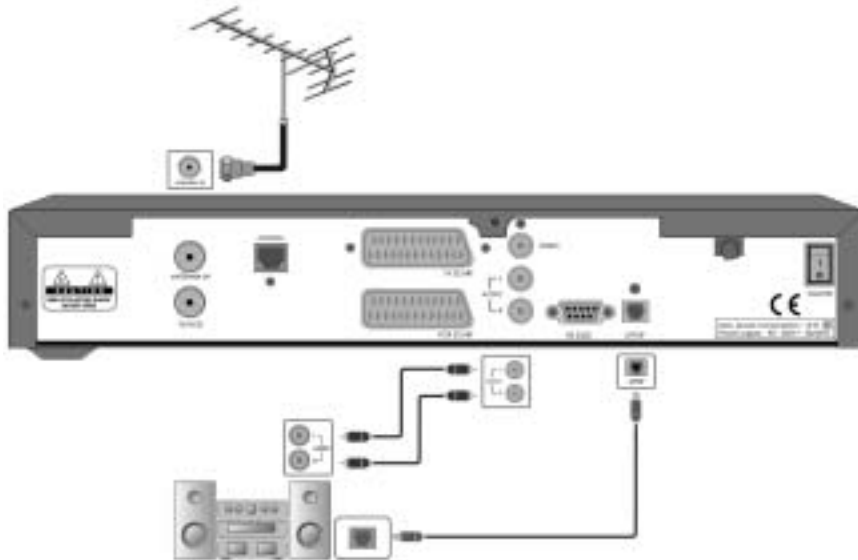
Holds the current page without updating it.

**Note:** You can manipulate TV using other manual.



## 2. Setup


### 2. Connect a S/PDIF Fiber-Optic cable





If you are watching a programme with a Dolby Digital soundtrack, you can enjoy the higher quality sound of the Dolby Digital audio by connecting the STB to an external Dolby Digital amplifier. Do this by connecting the optical S/PDIF output of the STB to the optical S/PDIF input of the external Dolby Digital amplifier.



### 3. Installation Wizard

When powering on your receiver for the first time after purchasing, the Installation Wizard is automatically started. You can start channel search by pressing the **OK** (  ) button.

Please wait for finishing the channel search. If you want to stop the operation during channel search, press the **OK** (  ) button.

If the channel search is stopped or finished, the result of channel search will be displayed. You can edit the found channels and save them by selecting **Save** and pressing the **OK** (  ) button.

When completing channel search, you can enjoy programmes




**Warning:** If you exit the Installation Wizard without saving the found channels, 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+** (  ) button.
2. Enter your desired channel numeric using the **NUMERICAL** (0~9) buttons to move to the channel directly.

**Note:**




- You can switch channel using Programme Guide or Channel List. Please refer to Chapter 5 and 6 for more information.
- When you change the analog channel, the screen may be unstable.

### 4.2 Volume Control

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

### 4.3 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**.

## 4. Basic Operation

### 4.4 Change an 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 the **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.

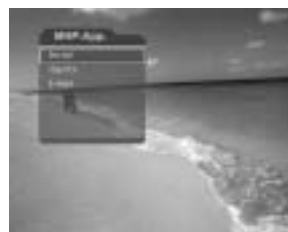


**Note:** you can select your desired default audio language by selecting **MENU - Preferences - Language Setting -Audio Language**.

### 4.5 MHP Application

The MHP application makes possible not only access to the Internet and exchange e-mail through TV but also put the receiver directly into conventional television state.

1. Press the **MHP** (  ) button.
2. Select your desired application using the  button, and press the **OK** (  ) or  button.



**Note:** Please refer to the detailed information of each MHP application if you operate the MHP application.

## 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** (⊖) button while watching a programme. Press the **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 when there is any MHP application.
	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 current channel is an analog channel.
	Displayed only when the programme is a Dolby Digital one.

## 4. Basic Operation

4. Current time
5. Detail programme information: displayed if detailed programme information is provided
6. Channel change 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 change 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.

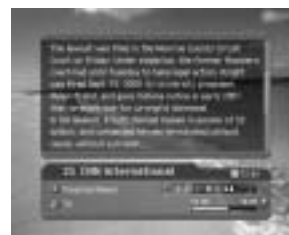
**Note:** If there is no available programme information, programme information is not displayed. Dolby Digital doesn't be supported by this receiver.

### 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 programme information is more than one page, use the ▲/▼ button to move to the previous or next page.



## 4.7 Option List

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

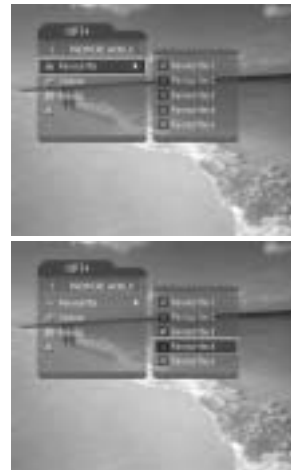
**Note:** Press the **OPT+** ( ) button when the channel list is displayed to view **Option List**. Then the following functions in the option list are performed to the current channel where cursor is located.

### 1. Add a channel to favourite group.

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

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



## 4. Basic Operation

### 2. Lock/Unlock a Channel

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

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

**Note:** The following message displays only when the current channel is a digital channel.

“Do you want to delete the channel? It will be moved in the Trash Group.”



### 4. Fine Tune

You can tune an analog channel.

If the signal is weak or distorted, you may have to fine-tune the channel manually.

1. Press the **OPT+** (⊖) button.
2. Select **Fine Tune** using the **▲/▼** button, and press the **▶** or **OK** (⊖) button. Displays a Fine Tune dialog box.
3. Select **▲/▼** button to control a frequency and press the **OK** (⊖) button.










## 5. Channel List

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

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

### 5.1 Displaying and Switching Channel List

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









1. Press the **LIST** (  ) button while watching a programme to display the selected channel list.
2. Select your desired channel using the  button and press the **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** (  ) 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+** (  ) button to move by page.



## 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** () or  button, select your desired sub-group using the / button, and then press the **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+** ( ) 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** (⊖) button.
2. Select **Edit Channels** using the **▲/▼** button, and press the **OK** (⊖) or **▶** button.
3. Select **Edit Channel list** using the **▲/▼** button, and press the **OK** (⊖) or **▶** button.
4. You will be prompted to enter your password. Enter your password using **NUMERICAL** (0~9) button.



#### 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 navigate all menus using the assigned numeric for each menu. Press the **MENU - 2 - 1** in order at remote control to select **Edit Channel List** 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** (⊖) or **▶** button in group to display **Channel List Group**.
2. Select your desired **Channel List Group** using the **▲/▼** button, and press the **OK** (⊖) button.

**Note:** 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** () button to delete the channel(s). You can select multiple channels.
3. Select **Delete** on the right using the  button, and press the **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** () 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** () 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.



## 5. Channel List

### 4. Move Channels






You can move one or more channels into your desired location, which changes the channel number accordingly.

1. Move the cursor to the channel list using the  button.
2. Select your desired channel, and then press the **OK** () button. You can select multiple channels.
3. Select **Move** in the right using the  button, and press the **OK** () button. Then the selected channel(s) disappears from the channel list for a while.
4. Move the cursor to the desired location in the channel list using the  button, and press the **OK** () button.
5. The selected channel(s) is moved to the selected location in order.



### 5. Rename a Channel

You can change the channel name as you like.

1. Move the cursor to the channel list using the  button.
2. Select your desired channel, and then press the **OK** () button. You can select only a single channel.
3. Select **Rename** in the right using the  button, and then press the **OK** () button.
4. Enter a channel name directly using the keyboard displayed on the screen.
5. When finishing entering channel name, select and press the **OK** () button.



## 6. Select/Unselect All Channels

You can select/unselect all channels at a time.6. Select/Unselect All Channels

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

## 7. Restore a Channel

You can restore the channel deleted in the Option list or Edit Channels.

1. Press the **OK** (⊕) or ► button in Group to display channel list group.
2. Select **Trash** to restore a channel using the ▲/▼ button, and press the **OK** (⊕) button.
3. Move the cursor to the channel list using the ◀/▶ button.
4. Select your desired channel, and then press the **OK** (⊕) button. You can select multiple channels.
5. Select **Restore** in the right using the ► button, and press the **OK** (⊕) button.



## 5. Channel List

### 5.4 Edit Favourite Channels

You can edit Favourite channel or Favourite channel list.









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



#### 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 navigate all menu items using the assigned numerical button for each menu. Press the **MENU - 2 - 2** in order at remote control to select **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 **[F1]**.
2. Select your desired channel(s) in all TV/Radio channel list, and press **[F2]** to add Favourite channel(s).
3. Select your desired channel(s) in Favourite channel list, and press **[F4]** to remove Favourite channel(s).



## 2. Move favourite channels

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





1. Select **Favourite Group** using **[F1]**.
2. Select your desired channel to move within the Favourite channel list and press the **OK** (**[OK]**) button.
3. Select **[F4]**, and press the **OK** (**[OK]**) button.
4. Move the cursor to your desired location using the **[Up]**/**[Down]** button, and press the **OK** (**[OK]**) button.
5. The selected channel(s) is moved into the desired location you selected.



## 5. Channel List

### 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.
4. When finishing entering the Favourite channel list name, select **OK**, and press the **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  to switch all channel list into TV or Radio channels.

#### Select a favourite channel list

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



### Sort a channel list

You can sort all TV or Radio channel lists by channel number or name for easy Favourite channel search. If channel lists are sorted by channel number, **1234** is displayed. When you press this button, all the channel lists are sorted by name. Or, if channel lists are sorted by channel name, **1234** is switched into **1234**. Press this button to order channels by number.

### Unselect all the selected channels

Press **1234** 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** (  ) button.
2. Move to previous or next programme within the same channel using the  /  button.
3. Move to other desired channel using the  /  button. If there are multiple channels, use the **PAGE-/PAGE+** (  -  ) button to move to channels by page. Also, you can enter your desired channel number using the **NUMERICAL** (0~9) button at remote control to move to the channel directly.
4. Select your desired programme, and press the **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 **INFO** (  ) 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** (  ) 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** (  ) 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** (Ⓜ) button.
2. Press the **Green** button to display **Time Bar**.
3. Select the **Time Bar** button using the  $\blacktriangle/\blacktriangledown$  button, and press the **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.
$\blacktriangleleft$	Moves to the previous programme or 30 minutes before.
$\blacktriangleright$	Moves to the next programme or 30 minutes after.
$\blacktriangleleft\blacktriangleright$	Moves to 2 hours before.
$\blacktriangleright\blacktriangleleft$	Moves to 2 hours after.
$\blacktriangleleft$ Day	Moves to one day before.
Day $\blacktriangleright$	Moves to one day after.


5. Select  $\blacktriangleleft$  button and press the **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** (Ⓜ) button.

1. Select the desired programme and press the **OK** (Ⓜ) button. The following message will be displayed.
2. Select **Yes** and press the **OK** (Ⓜ) button to reserve the programme. When a reservation has been completed, the  icon is displayed on the reserved programme.
3. Select **No** and press the **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** (⊞) button.
2. Press the **Blue** button to display i **Find** screen.
3. Enter the programme name directly using the keyboard displayed on the screen.
4. When completing entering programme name, select the **Find**, and press the **OK** (⊞) button.
5. If you select your desired programme from the results of finding programme screen and press the **OK** (⊞) button, you can watch the programme if it is on air, or you can reserve your watching if it is scheduled (the following programme).
6. Select **By Genre** and press the **OK** (⊞) button to search programme by genre.
7. Select your desired genre and press the **OK** (⊞) button.
8. As the result screen of Find programme by Genre, select your desired programme from the Results of Finding Programme screen and press the **OK** (⊞) button to watch the programme immediately or reserve the watching.

**Note:** If you select **Previous** or **Next** on the Keyboard displayed on the screen and press **OK** (⊞) button, the keyboard layout is switched.

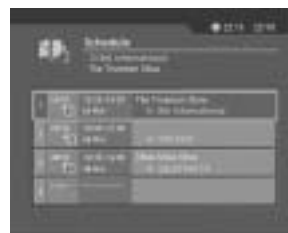


**Note:** The results of the finding programme may differ depending on the provided programme information.

## 6.3 Viewing Reserved Programme

You can add or edit watching-reserved programme by viewing watching-reserved programme list.

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



### 1. Editing a Reserved Programme

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



#### Note:

- You can reserve up to 20 programmes.
- If your desired programmed 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:

1. Press the **BACK** (⏪) or **Left** button to save the changes and return to the previous menu. Press the **MENU** (⏸) or **EXIT** (⏹) button to exit the Menu screen.
2. 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 **Right** button.
3. Select the **Parental Control** using the **▲/▼** button, and press the **OK** (⏹) or **Right** 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 **Right** button.
2. Select your desired **Age Level** using the **▲/▼** button, and press the **OK** (⏹) button.



## 7. Setting Preferences

<b>View All</b>	All programmes can be watched because there is no age limitation.
<b>7</b>	Programmes are blocked for children under the age of 7.
<b>12</b>	Programmes are blocked for children under the age of 12.
<b>15</b>	Programmes are blocked for children under the age of 15.
<b>18</b>	Programmes are blocked for children under the age of 18.
<b>Lock All</b>	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** () button.
2. Select **Enable** or **Disable** the **Allow Time Control** using the / button, and press the or **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** () button.
4. If you wish to cancel the entered time, select the **Cancel** button, and press the **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  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) or  $\blacktriangleright$  button.
2. Enter **New Password** using the **NUMERICAL** (0~9) button, and press the **OK** (  $\odot$  ) button.
3. Enter the new password again to confirm the **Verify Password**, and press the **OK** (  $\odot$  ) 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** (  $\odot$  ) button.
2. Select **Preferences** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) or  $\blacktriangleright$  button.
3. Select **Language Setting** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) or  $\blacktriangleright$  button.



#### 1. Menu/Audio/Subtitle Language

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

1. Select **Menu/Audio/Subtitle Language** using the  $\blacktriangle/\blacktriangledown$  button.
2. Press the  $\blacktriangleright$  or **OK** (  $\odot$  ) button to display the available Language List.
3. Select your desired language using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) button.

## 7. Setting Preferences

### 2. Audio Priority

You can select the priority of audio.

1. Select **Audio Priority** using the button.
2. Press the **OK** () or button to display the **Language** or **Dolby Digital** option.
3. Select your desired option and press the **OK** () button.

**Language** You can watch programme in the selected language.

**Dolby Digital** You can listen sound in Dolby Digital mode. However, if you select Dolby Digital, you cannot change the audio language.

### 3. 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** () button to display **Auto** or **Manual** option.
3. Select your desired option and press the **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** () button at remote controller.

### 4. Subtitle Font

You can select the Subtitle font.

1. Select **Subtitle Font** using the button.
2. Press the **OK** () or button to display the **Variable** or **Fixed** option.
3. Select your desired option and press the **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** (⊖) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (⊖) or ► button.
3. Select **Time Setting** using the ▲/▼ button, and press the **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** (⊖) button to display **GMT list**. GMT is changed by from 30 minutes to 1 hour.
3. Select your desired item and press the **OK** (⊖) button.




**Note:** The current time is set automatically whenever GMT Offset changes.



## 7. Setting Preferences


### 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** () button.
2. Select either **Enable** or **Disable** the Power On.

**Enable** Uses the Power On and sets the Power On time.






**Disable** Not uses the Power On.

3. If **Enable** has been selected, enter the **Channel No** and using the **NUMERICAL** (0~9) buttons, and press the **OK** () button.




### 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** () button.
2. Select either **Enable** or **Disable** the **Power Off** using the  button, and press the **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** () button.

**Note:** Once Power On/Off Control 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** (⊖) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (⊖) or ► button.
3. Select **Schedule** using the ▲/▼ button, and press the **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** (⊖) button. To add a new reservation, select a blank list and press the **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** (⊖) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (⊖) or ► button.
3. Select **AV Control** using the ▲/▼ button, and press the **OK** (⊖) or ► button.



## 7. Setting Preferences

### 1. TV - SCART

You can set TV SCART Output.

1. Select **TV-SCART** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) or  $\blacktriangleright$  button.
2. Select one option among **CVBS/RGB/S-Video** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) button.

### 2. VCR-SCART

You can set VCR SCART Output.

1. Select **VCR-SCART** using the #  $\blacktriangle/\blacktriangledown$  button.
2. Select one option among **CVBS/S-Video** using the **OK** ( $\odot$ ) or  $\blacktriangleright$  button.

### 3. Audio Output

Set the Audio Output.

1. Select **Audio Output** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) or  $\blacktriangleright$  button.
2. Select one option from **Stereo** or **Mono** using the  $\blacktriangle/\blacktriangledown$  button.

### 4. Screen Ratio

You can set the aspect ratio of your TV.

1. Select **Screen Ratio** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) or  $\blacktriangleright$  button.
2. Select one option from **4:3** or **16:9** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) button.

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

### 5. Display Format

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

1. Select **Display Format** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) or  $\blacktriangleright$  button.
2. If the Screen Ratio is set to **4:3**, you can select one from **Auto/Letter box/Center Mode** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) button.
3. If the Screen Ratio is set to **16:9**, you can select one from **Auto/Pillar box/Full mode** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** ( $\odot$ ) button.

## 7.6 UHF Tuning

You can set the UHF channel.

1. Press the **MENU** (⊖) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (⊖) or ► button.
3. Select **UHF Tuning** using the ▲/▼ button, and press the **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** (⊖) or ► button.
2. Select one channel based on the following channel criteria using the ▲/▼ button, and press the **OK** (⊖) button.

<b>CH21~CH69</b>	PAL I/G for Europe
<b>CH28~CH69</b>	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** (⊖) or ► button.
2. Select one option among **PAL I / PAL G / PAL B** using the ▲/▼ button, and press the **OK** (⊖) button.

### 3. UHF Offset

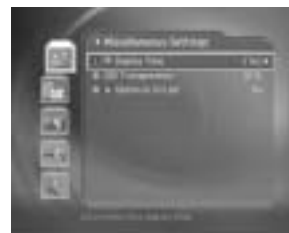
You can adjust fine tuning setting.

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

## 7. Setting Preferences

### 7.7 Miscellaneous Settings

1. Press the **MENU** (⊖) button.
2. Select **Preferences** using the ▲/▼ button, and press the **OK** (⊖) or ► button.
3. Select **Miscellaneous Settings** using the ▲/▼ button, and press the **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** (⊖) or ► button.
2. Select a value between 1 ~ 20 seconds using the ▲/▼ button, and press the **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** (⊖) or ► button.
2. Select one option among **Disable/25/50/75** using the ▲/▼ button, and press the **OK** (⊖) button.

<b>Disable</b>	Fully opaque screen
<b>25, 50, 75</b>	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** (⊖) or ► button.
2. Select one option from **On/Off** using the ▲/▼ button, and press the **OK** (⊖) button.

<b>On</b>	Scramble icon display in the channel list.
<b>Off</b>	Scramble icon disappear in the channel list.

## 7.8 MHP Settings

This mode helps you to setup Display by MHP App and Show MHP logo.

1. Press the **MENU** (⊖) button.
2. Select **Preferences** using the **▲/▼** button, and press the **OK** (⊕) or **▶** button.
3. Select **MHP Settings** from Preferences menu using the **▲/▼** button.
4. Press the **OK** (⊕) or **▶** button to select **each item**.



## 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 the **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 the 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** button to select all channels, select **Delete**, and press the **OK** (⊕) button.
4. When completing channel search and deleting unnecessary channels, select the **Save** button to save the changes.



## 8.2 Analog Manual Search

You can search analog channels manually by searching parameters.

1. Select the **MENU** (  ) button.
2. Select **Installation** using the  button, and press the **OK** (  ) or  button.
3. Select **Analog Manual Search** from Installation menu using the  button, and press the **OK** (  ) or  button.
4. Select **Search, Channel, or Fine Tune** using the  button, and press the **OK** (  ) or  button.



### 1. Search

You can search analog channels.

Select one option between **Start** and **Stop** using the  button.

### 2. Channel Number



Select one of channel using the  button, press the **OK** (  ) button.


### 3. Fine Tune

You can tune an analog channel.

If the signal is weak or distorted, you may have to fine-tune the channel manually.

Displays a Fine Tune dialog box.

Select the  button to control a frequency and press the **OK** (  ) button.

**Note:** When completing the menu setting, select **Save** and press the **OK** (  ) button to save channel and fine tune.

## 8. Installation

### 8.3 Digital 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** (⊕) or ► button.
2. Select one of channel using the ▲/▼ button, press the **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** (⊕) or ► button.
2. Enter frequency using the **NUMERICAL** (0-9) button, and press **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** (⊕) or ► button.
2. Select among **Auto**, **2k** and **8k** using the ▲/▼ button, and press the **OK** (⊕) button.



#### 4. Guard Interval

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

1. Select **Guard Interval** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) or  $\blacktriangleright$  button.
2. Select one option among **Auto**, **1/4**, **1/8**, **1/16** and **1/32** using the  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) 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  $\blacktriangle/\blacktriangledown$  button, and press the **OK** (  $\odot$  ) or  $\blacktriangleright$  button.
2. Select one option between **Enable** and **Disable** using the  $\blacktriangle/\blacktriangledown$  button.



#### 6. Search

You can complete the setting and start searching.

1. Select **Search** and press the **OK** (  $\odot$  ) button to start Manual Search.
2. The next procedures are the same as those for Automatic Search. Please refer to Automatic Search.

## 8. Installation

### 8.4 Regular Auto Update

You can specify the Regular Auto Update.

1. Select the **MENU** (☰) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (⊙) or ► button.
3. Select **Regular Auto Update** from Installation menu using the ▲/▼ button, and press the **OK** (⊙) or ► button.
4. Select **Update Target, Auto Search in Standby, Auto Search in Operate, Search Time, or Frequency** using the ▲/▼ button, and press the **OK** (⊙) or ► button.



#### 1. Update Target

You can select update target.

Select among **All**, **Channel** and **Software** using the ▲/▼ button, and press the **OK** (⊙) button.

#### 2. Auto Search in Standby

You can automatically search the update target in the Standby mode.

Select one option between **Enable** and **Disable** using the ▲/▼ button.

#### 3. Auto Search in Operate

You can automatically search the update target in the Operate mode.

1. Select **Enable or Disable** and press the **OK** (⊙) or ► button whether or not setting the Search time automatically.
2. When you select **Enable**, set the **Search Time** using the **NUMERICAL** (0~9) buttons, and select **OK**, and press the **OK** (⊙) button.
3. If you wish to cancel the entered time, select **Cancel**, and press the **OK** (⊙) button.
4. When you select **Enable**, set the **Frequency** using the ▲/▼ button to select **Daily or Weekly**.

#### Starting Automatic Update

Select **OK** and press the **OK** (⊙) button to start updating. Select **Cancel** and press the **OK** (⊙) button to return to the previous menu without updating.

#### Progressing Automatic Update

Select **Stop** and press the **OK** (⊙) button to stop updating.

#### Ending Automatic Update

Select **OK** and press the **OK** (⊙) button to end updating.

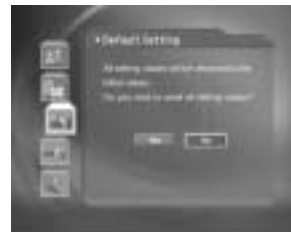
## 8.5 Default Setting

Default Setting restores the receiver to the default settings.

To perform Factory Default:

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

1. Press the **MENU** (⊖) button.
2. Select **Installation** using the **▲/▼** button, and press the **OK** (⊖) or **▶** button.
3. Enter **Password** using the **NUMERICAL** (0-9) button.
4. Select **Default Setting** using the **▲/▼** button, press the **OK** (⊖) or **▶** button.
5. Select **Yes** and press the **OK** (⊖) button to restore all setting to Factory Default. Select **No** and press the **OK** (⊖) or **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** (⊖) 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**.



## 8. Installation

### 8.6 Antenna Power

When you connect an active antenna to the **ANTENNA IN** connector on the rear of the receiver.

1. Press the **MENU** (⊖) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (⊕) or ⏏ button.
3. Select **Antenna Power** from Installation menu using the ▲/▼ button.
4. Press the **OK** (⊕) or ⏏ button to select **On** or **Off**.

**On** 5V power supply from the active antenna cable.  
**Off** No power supply.



## 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 the Humax website - <http://www.humaxdigital.com>.

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

### 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.

## 9. 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** (⊕) 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** (⊖) button.
2. Select **Installation** using the **▲/▼** button, and press the **OK** (⊕) or **▶** button.
3. Enter **Password** using the **NUMERICAL** (0~9) buttons.
4. Select **Software Update** using the **▲/▼** button, and press the **OK** (⊕) or **▶** button.









### 3. If a 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** (⊕) button to start upgrading. Select **No** and press the **OK** (⊕) button to return to the previous menu.



#### 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** () or  button.
2. Automatically search for new software. Select **Cancel** and press the **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.
4. Select **Yes** and press the **OK** () button to start updating. Select **No** and press the **OK** () button to return to the previous menu without updating.
5. When completing the software update, the product is automatically powered off and on again.







## 9. Software Update

### 5. Manual Update

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

1. Select **Manual** from **Software Update Menu** screen using the / button, and press the **OK** () or  button.
2. Select the **channel number** which provides update software. You can also enter the frequency instead of channel number in which updated software is provided.
3. Select **Mode**. If the information is not known, then Auto can be selected.
4. 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**.

5. Select **Search** and Press the **OK** () button to search software.
6. It is displayed whether or not New Software exist. If new software does not exist, press the **OK** () button to return to the Manual Update Menu.
7. Select **Yes** and press the **OK** () button to start updating. Select **No** and press the **OK** () button to return to the previous menu.
8. Performs Software Update. Please wait until it is completed.
9. When completing the software update, the product is automatically powered off and on again.



## 10. System Information

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

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



### 10.1 Status

You can view System information.

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



### 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** (⊖) 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.



**Note:** It doesn't display a Strength and Quality in the analog channel. It doesn't display a Mode and Guard Interval in the digital channel.

## 10. System Information

### 10.3 Modem Setup

This mode helps you to setup Phone Prefix, Dialing, Modem Speed, Country, and Default ISP Setting to connect modem.

1. Press the **MENU** (☰) button.
2. Select **System** using the ▲/▼ button, and press the **OK** (⊙) or ▶ button.
3. Select **Modem Setup** from System menu using the ▲/▼ button.
4. Press the **OK** (⊙) or ▶ button to select **each item**.



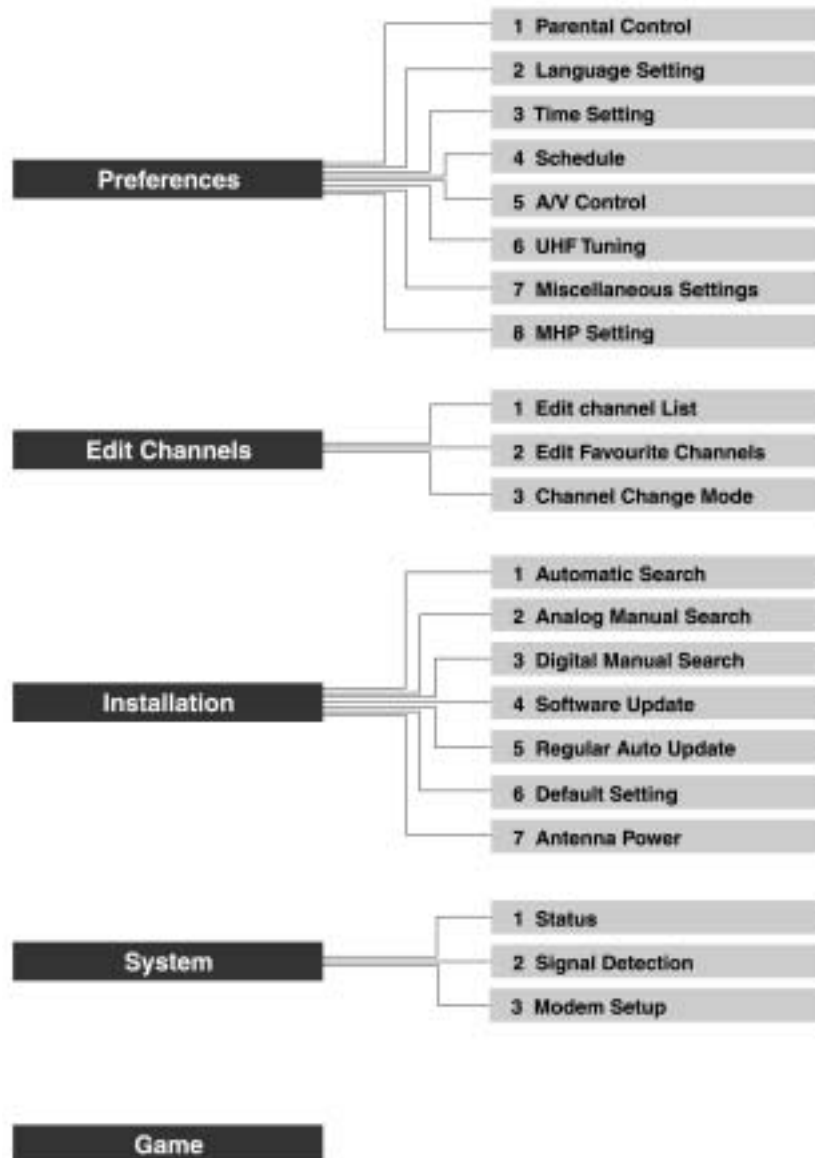
## 11. Games

This product provides various games for user's entertainment.

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

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

## 12. Menu Map



## 13. Trouble Shooting

### 13.1 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.
7. Watching scrambled channel is not available
  - Check the correct Smart Card is plugged in.
  - Check whether the Smart Card is damaged.
8. The Active cable is short-circuited.
  - If the following message - The Active cable is short-circuited - appears on the screen while using normal external or indoor antenna other than Active Antenna, please switch off the power of Active Antenna in order to keep good video quality.

## 13. Trouble Shooting

### 13.2 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. Smart Card is not plugged in. The Smart Card is not correct. Smart Card is not correctly plugged in. Smart Card is broken.	Confirm if the channel is currently on air.  Cannot watch the channel in usual way. Plug in Smart Card. Plug in suitable Smart Card. Pull out the Smart Card, and plug it in again. Replace the Smart Card.
The audio is not available.	The channel has signal, but no Audio.	Press the Audio button to confirm if the channel has Audio.

## 14. Specification

Tuner & Channel	
Input Connector	IEC-Type, IEC 169-2, Female
RF Loop through Output connector	IEC-Type, IEC 169-2, Male
Frequency Range	177.5MHZ 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
Video 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

## 14. Specification

Memory	
Flash Memory	8 Mbytes
Graphics (MPEG) & System DEAM	64 Mbytes
EEPROM	8 Kbytes
RF-Modulator	
RF/Loop-through Output Connector	75 $\Omega$ , 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 (CVBS) 2 Output SCART-TV/VCR (RGB/CVBS/S-video)
Audio	2 Output RCA (Audio L/R) 1 Optical digital audio output (Resolution: 20bits)
S/PDIF	Digital Audio Output, Fiber-Optic (Resolution : 20 bits)
RS-232C	Transfer Rate :115Kbps
Power Supply	
Input Voltage	AC 90 ~ 250V, 50/60Hz
Type	Switching Mode Power Supply (SMPS)
Power Consumption	Operation mode : Max. 17 W Standby mode : $\leq$ 11 W
Protection	Separate internal fuse & Lightning protection
Physical Specification	
Size	310 mm x 60 mm x 237 mm
Weight (Net)	2.4Kg
Operating Temperature	0 $^{\circ}$ C to +45 $^{\circ}$ C
Storage Temperature	-10 $^{\circ}$ C to +70 $^{\circ}$ C

## 15. 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.

## 16. 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

<a href="http://www.humaxdigital.com">http://www.humaxdigital.com</a>	English
<a href="http://www.humaxdigital.com/Deutsch/">http://www.humaxdigital.com/Deutsch/</a>	Deutsch
<a href="http://www.humaxarabia.com">http://www.humaxarabia.com</a>	Arabic

#### HCSA (Humax Customer Service Area)

Software Download, Information and Technical Q&A	
<a href="http://www.humaxdigital.com/hcsa/">http://www.humaxdigital.com/hcsa/</a>	English
<a href="http://www.humaxdigital.com/Deutsch/hcsa/">http://www.humaxdigital.com/Deutsch/hcsa/</a>	Deutsch

#### E-mail (Technical Q&A)

<a href="mailto:tech-info@humax-digital.co.uk">tech-info@humax-digital.co.uk</a>	Europe & North Africa
<a href="mailto:techinfo@humax-digital.de">techinfo@humax-digital.de</a>	Germany
<a href="mailto:callcenterME@humaxdigital.com">callcenterME@humaxdigital.com</a>	Middle East
<a href="mailto:Webmaster@humaxdigital.com">Webmaster@humaxdigital.com</a>	Asia & Other area

## 16. 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)