

Notice

Copyright (Copyright © 2001 HUMAX Corporation)

Not to be copied, used or translated in part or whole without HUMAX's prior consent in writing except approval of ownership of copyright and copyright law.

Warranty

The information in this document is subject to change without notice. HUMAX does not have any responsibility for direct, indirect, accidental, necessary and other damage due to your offer or use of the information contained in this manual.

Trademarks

VIACCESS™ is a trademark of France Telecom.

CryptoWorks(TM) is a trademark of Philips Electronics N.V.

Irdeto is a trademark of Mindport BV.

Nagravision is a registered trademark of KUDELSKI S.A.

Conax is a trademark of Telenor Conax AS.

'Dolby' and the double-D symbol are trademarks of Dolby Laboratories.

Manufactured under license from Dolby Laboratories.

Thank you for purchasing a HUMAX satellite 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, check what the result 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 satellite receiver has been manufactured to comply with 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 supply indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your local power company. Disconnect the 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, should 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 equipment on top of the receiver.

6. ATTACHMENTS

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

7. CONNECTION TO THE SATELLITE DISH LNB

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

8. CONNECTION TO THE TV

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

9. EARTHING

The LNB 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 lightning, rain or sun.

Do not place it near a radiator or heat register.

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

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

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

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

11. LIGHTNING, STORM, or NOT IN USE

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

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.

Unauthorized 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 wet hands.
Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, a 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.

Contents

1. Before Using the Receiver	GB7
1.1 Package Contents	GB7
1.2 Front Panel	GB8
1.3 Rear Panel	GB10
1.4 Remote Control	GB11
2. Setup	GB13
2.1 Connecting the Antenna	GB13
2.2 Powering On	GB15
3. Installation Wizard	GB16
3.1 Language	GB16
3.2 Area Setting	GB16
3.3 Antenna Setting	GB16
3.4 Automatic Search	GB18
3.5 Time Setting	GB18
4. Basic Operation	GB19
4.1 Switching Channel	GB19
4.2 Volume Control	GB19
4.3 Motion Still	GB19
4.4 Change the Subtitle Language	GB19
4.5 Change a Audio Language	GB20
4.6 Programme Information (I- plate)	GB20
4.7 Option List	GB22
5. Channel List	GB25
5.1 Displaying and Switching Channel List	GB25
5.2 Changing Channel List Group	GB26
5.3 Edit Channels	GB26
5.4 Edit Favourite Channels	GB29
5.5 Channel Change Mode	GB32
6. Programme Guide	GB33
6.1 Viewing Programme Guide Information	GB33
6.2 Finding a Programme	GB35
6.3 Viewing Reserved Programme	GB36

Contents

7. Setting Preferences	GB38
7.1 Parental Control	GB38
7.2 Language Setting	GB40
7.3 Time Setting	GB41
7.4 Schedule	GB43
7.5 A/V Control	GB43
7.6 UHF Tuning	GB46
7.7 Miscellaneous Settings	GB47
8. Installation	GB48
8.1 Antenna Setting	GB48
8.2 Automatic Search	GB51
8.3 Manual Search	GB53
8.4 Other Search	GB56
8.5 Motor Antenna	GB59
8.6 Default Setting	GB65
9. Software Update	GB66
9.1 OTA (Over the Air)	GB66
9.2 S/W Upgrade from PC	GB68
10. System Information	GB69
10.1 Status	GB69
10.2 Signal Detection	GB69
10.3 Conditional Access	GB70
10.4 Mail Messages	GB70
11. Games	GB71
12. Menu Map	GB72
13. Trouble Shooting	GB73
13.1 Trouble Shooting	GB73
13.2 Error Message	GB74
14. Specification	GB75
15. Glossary	GB77
16. Service and Support	GB78

1. Before Using the Receiver

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

1.1 Package Contents

Please check all package contents before using your receiver.



IR-ACE II



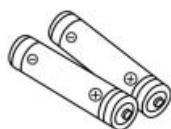
IR-ACE SII



Remote Control Unit



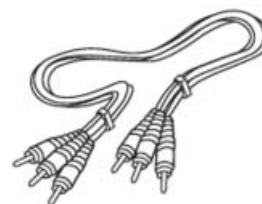
User's Manual



Batteries



RF Cable



RCA A/V Cable

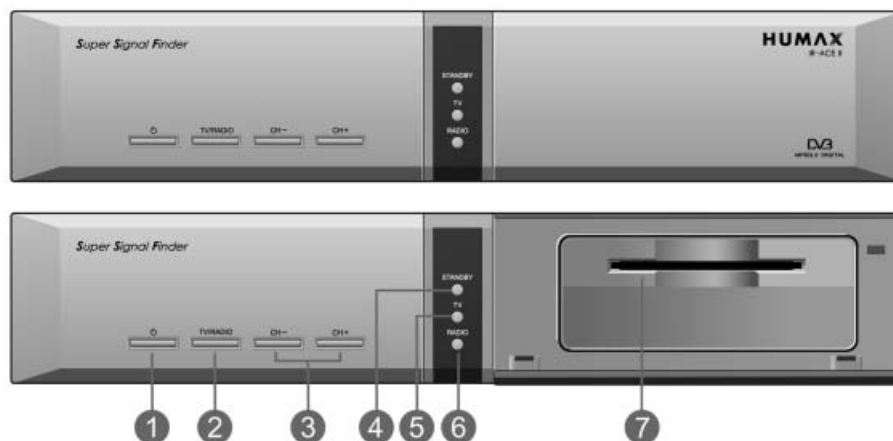
Note:

- Since faults may occur if the remote controller is being left without a battery for a long time, always keep the battery inserted in the remote controller.
- Package contents can be changeable according to the area.

1. Before Using the Receiver

1.2 Front Panel

IR-ACE II



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.

7. SMART CARD SLOT

Slot for a smart card.

IR-ACE SII



1. STANDBY LED

Red light is displayed when the product is in the Standby mode.
Green light is displayed when the product is in operation.

2. STANDBY Button ()

Switches between Operation and Standby modes.

3. TV/RADIO Button

Switches between TV and Radio.

4. CH - / CH +

Moves the TV/Radio channel up/down.

5. TV LED

Green light is displayed when the receiver is in TV mode.

6. RADIO LED

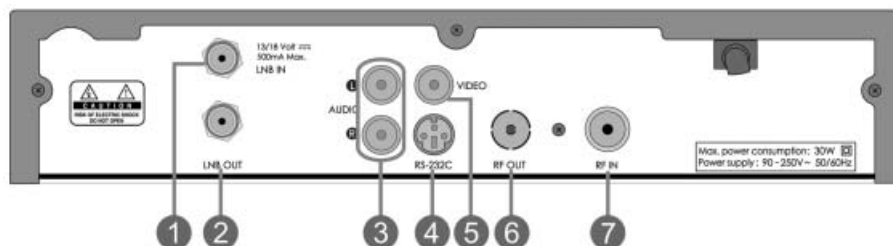
Amber light is displayed when the receiver is in Radio mode.

7. SMART CARD SLOT

Slot for a smart card.

1. Before Using the Receiver

1.3 Rear Panel



1. LNB IN

Connects a satellite antenna cable.

2. LNB OUT

Connect other digital satellite receiver.

3. AUDIO L/R

Connects to your TV or VCR and output Audio signals.

4. VIDEO

Connects to your TV or VCR and output Video signals.

5. RS-232C

Connects to your PC to update receiver's software programme.

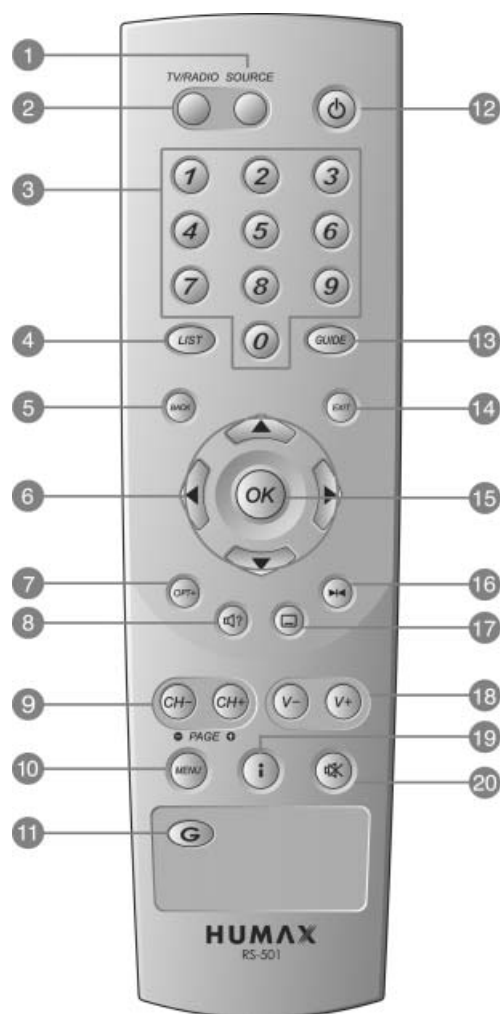
6. RF OUT

Connect a RF signal from the receiver to RF input jack on your TV.

7. RF IN

Connect a general aerial antenna with the cable jacks to the RF input jack on the receiver.

1.4 Remote Control



Note: The available remote controller may vary depending on the regions and models.

1. Before Using the Receiver

1. SOURCE

Selects the input source between TV and satellite receiver.

2. TV/RADIO

Switches between TV and Radio modes.

3. NUMERICAL (0~9) 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. OPT+ (OPTION)

Displays the channel attributes during watching a programme.

8. SOUNDTRACK

Displays the Soundtrack.

9. CH-/CH+ and PAGE-/PAGE+

Changes the Channel or Page.

10. MENU

Displays the main menu.

11. G (Game)

Displays the Game.

12. STANDBY

Switches between Operation and Standby modes.

13. GUIDE

Displays the Programme Guide.

14. EXIT

Exits the main menu or Guide screen.

15. OK

Selects a menu, or confirms the selected operation. And displays the channel list during watching a programme.

16. FREEZE

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

17. SUBTITLE

Changes the subtitle language.

18. V-/V+

Adjusts the audio volume.

19. i (INFORMATION)

Displays the information about the channel and programme.

20. MUTE

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

2. Setup

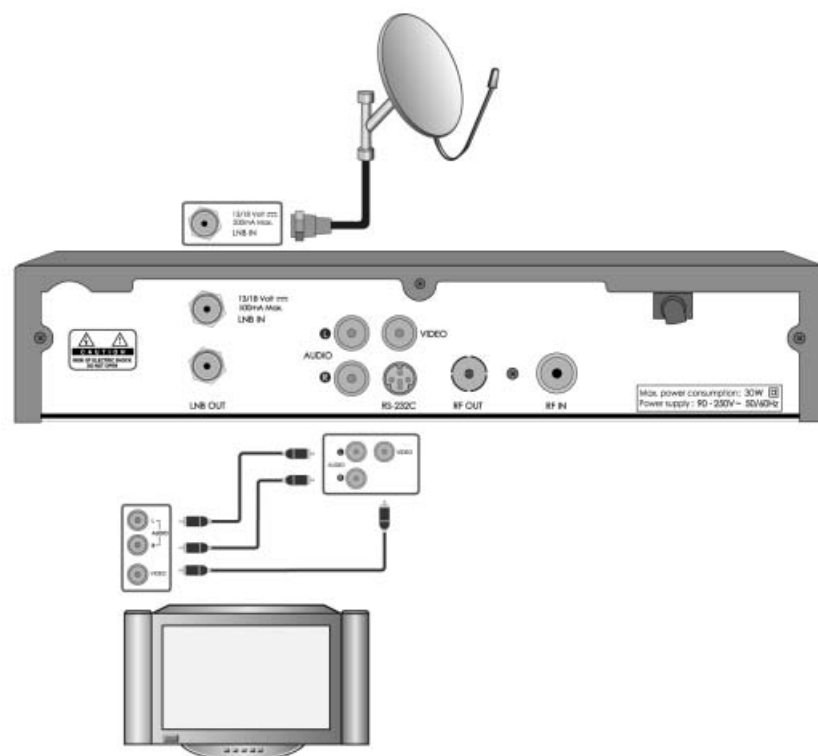
This chapter describes how to set up the receiver. Select the most appropriate procedure depending on your requirements.

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

2.1 Connecting the Antenna

1. Connecting TV

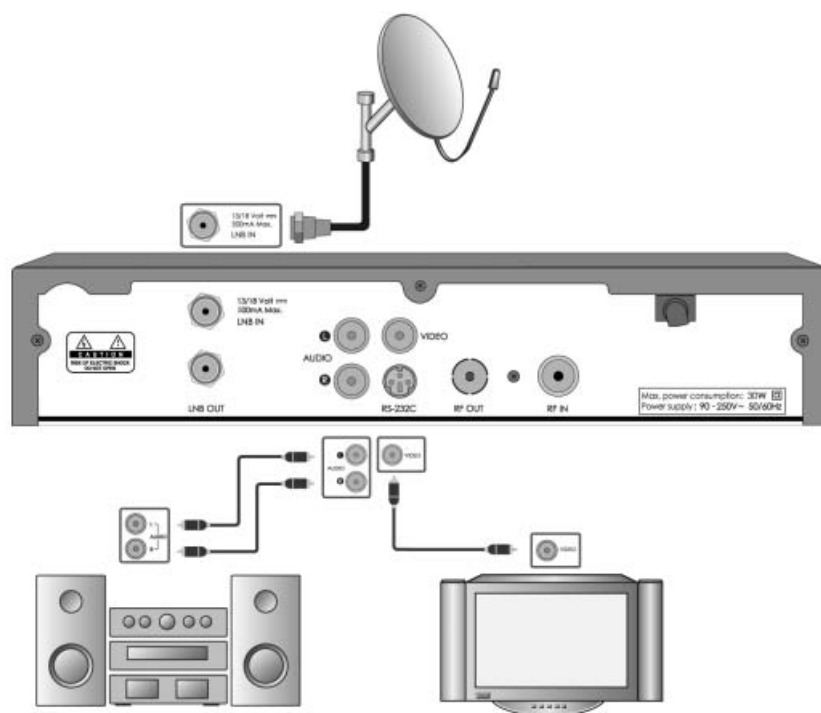
This is the most simple setup mode.



2. Setup

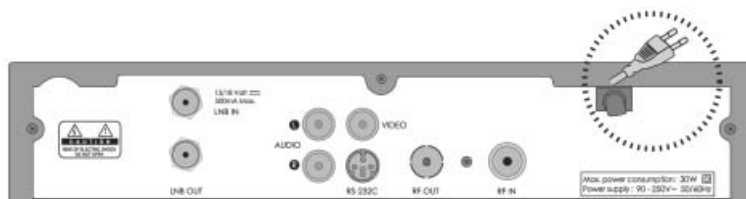
2. Connecting Hi-Fi system

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)



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 or the **STANDBY** button at the front of the receiver.

IR-ACE II



IR-ACE SII



3. Installation Wizard

When powering on your receiver for the first time after purchasing, the Installation Wizard is automatically started.

You can easily set-up using simple organisation and options, and watch the broadcasting after completing the set-up procedure. You can select items using the **NUMERICAL** (0~9) buttons.

Note: If you select **Back** while running the **Installation Wizard** and then Press the **OK** (OK) or **BACK** (BACK) button, you can return to the previous screen.

3.1 Language

You can select Menu, Audio, and the subtitled language.

Select the appropriate language from the list using the ▲/▼ button and press the **OK** (OK) button to save the selected language as a default language and move to the next step **Area Setting**.



3.2 Area Setting

You can select area.

Select the appropriate area from the list using the ▲/▼ button and press the **OK** (OK) button.



3.3 Antenna Setting

You can set the antenna's properties to watch the programme.

1. Select the **Satellite** which the antenna points to. Press the **OK** (OK) or ► button to display **Satellites List**. Select **Satellite** using the ▲/▼ button, and press the **OK** (OK) button.

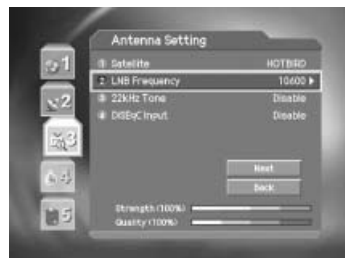


2. Set the **LNB Frequency** value

Press the **OK** (OK) or **▶** button to display **LNB Frequency List**.

Select **LNB Frequency** using the **▲/▼** button, and press the **OK** (OK) button.

If you cannot find the LNB Frequency value from the list, select **User Define**, manually enter the frequency using the **NUMERICAL** (0~9) button, and then press the **OK** (OK) button.



3. Set up **22kHz Tone**.

Select **22kHz Tone** using the **▲/▼** button, and press the **OK** (OK) or **▶** button to change the setting. When using 22kHz tone switch, select **Enable**. Otherwise, select **Disable**.



4. Select **DiSEqC Input** switch.

Select **DiSEqC Input** item using the **▲/▼** button, and press the **OK** (OK) or **▶** button to display DiSEqC Input Switch List.

Select DiSEqC Input Switch using the **▲/▼** button and then press the **OK** (OK) button.

5. When you complete the setting, select **Next** using the **▲/▼** button and press the **OK** (OK) button to start Automatic Search.



Note:

- If the antenna is correctly set up, the level at signal strength bar and quality bar, which are located at the bottom of the screen, are generally moved up.
- If you encounter any problems or questions when setting up the antenna, please contact your local product installer or distributor.

3. Installation Wizard

3.4 Automatic Search

You can automatically search for satellites according to the Antenna Setting.

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

If the Automatic Search is stopped or finished, the selected result is automatically saved and go to the next step.



3.5 Time Setting

You can set the current time.

Press the **OK** (OK) or **▶** button to display the values for **GMT Offset**. Select the appropriate GMT Offset value using the **▲/▼** button and press the **OK** (OK) button to set the current time. Check the current time at the bottom of the screen to see if it's correctly set up. Then select **Next** using the **▲/▼** button and press the **OK** (OK) button to finish Installation Wizard.



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 **Menu - Installation - Antenna Setting** and **Channel Search** 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/R) 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.
2. Press the **MUTE** (M) button to stop the sound temporarily.

4.3 Motion Still

Press the **FREEZE** (FF) button at remote controller to pause the current programme. Press the **FREEZE** (FF) button again to continue the programme.

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** (S) button to display the subtitle language list.
2. Select your desired subtitle language using the **▲/▼** button, and press the **OK** (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

4.5 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 **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.



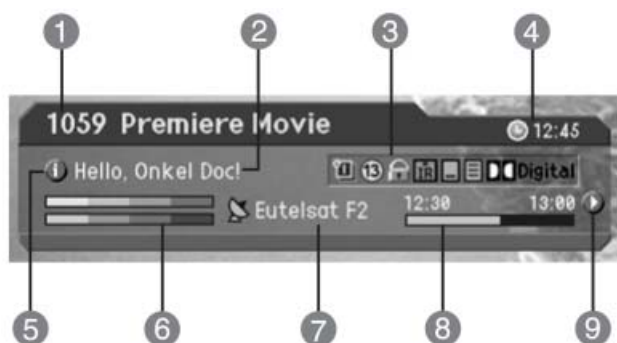
Note: You can select your desired default audio language by selecting **MENU - Preferences - Language Setting -Audio Language**.

4.6 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** (⏻) button to hide the I-plate.2.8








1. General Information

The General Information is displayed as following 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.
-  Digital Displayed only when the programme is a Dolby Digital one.

4. Current time

5. Detail programme information: displayed if detailed programme information is provided.

6. Signal strength and signal quality : indicates signal level.

7. Satellite name or channel change mode : If you select **All channels** by selecting **MENU - Edit channels - Channel Change Mode** the Satellite name, which the current channel is belonged to, is displayed; if you select **Within the current channel list**, the channel list, which user selected, is displayed.

8. Programme broadcasting time and progress bar : displays programme playing time and progress bar.

9. 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 (i) button where I-plate is displayed to view detailed information.

Note:

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



4. Basic Operation

4.7 Option List

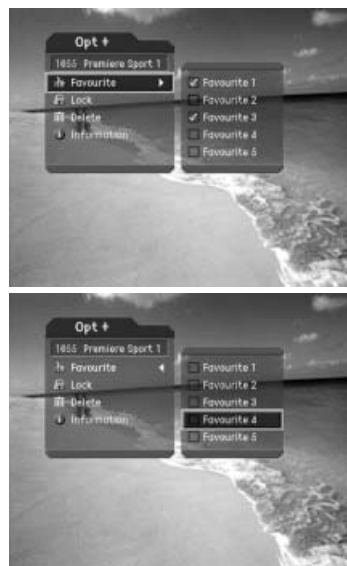
You can view and confirm detailed information about the current channel and change the information in necessary.

Note: Press the **OPT+** (Ⓞ) 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 **OK** (Ⓞ) or **▶** 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**.

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 **OK** (Ⓞ) or **▶** 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 **OK** (Ⓞ) or **▶** button.
3. Select **Yes** in the confirmation message and press the **OK** (Ⓞ) button.
4. Enter password using the **NUMERICAL** (0~9) buttons to delete the current channel and move to the next channel.



4. Basic Operation

4. Channel Information

You can display detailed information about the current channel while watching a programme.

1. Press the **OPT+** (OPT) button.
2. Select Information using the **▲/▼** button to display Channel Information automatically.



The following information is displayed on the Information.

- | | |
|-----------------|---|
| 1st Line | Provider Name |
| 2nd Line | Satellite and CAS type |
| 3rd Line | Transponder Information for the channel (Frequency, Polarisation, Symbol rate, FEC) |
| 4th Line | Video PID, Audio PID, PCR PID (Packet Identification) |
| 5th Line | Service ID (SID), Network ID (NID) |

5. Channel List

5 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.
- Satellite** The lists of channels classified by satellites. The result of Channel Search decides the number of sub-group.
- Scramble** The lists of channels classified by CAS types. The number of subgroup is decided by the result of channel search.

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) buttons 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/R) button while the channel list is displayed, the channel list will be switched between TV and Radio channel list.

5. 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. And the sub-group of Satellite and Scramble channel list may exist or not depending on the result of Channel Search.

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 you are watching a programme.



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)** buttons.

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 controller to select **Edit Channel List** menu.



1. Select a Channel Group

You can select the channel list group to edit. TV or Radio, and the sub-groups from the Channel Search for Satellite Channel Lists are included as Channel List Groups.

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.



5. Channel List

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) buttons to watch Locked channel.



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 (OK)** button. You can select multiple channels.
3. Select **Move** in the right using the **▶** button, and press the **OK (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 (OK)** button.
5. The selected channel(s) is moved to the selected location in order.

Note: **Move** is not available for Satellite or Scramble channel list.



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** (OK) button.
You can select only a single channel
3. Select **Rename** in the right using the ▶ button, and then press the **OK** (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** (OK) button.



6. 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.

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** (0~9) buttons for each menu. Press the **MENU - 2 - 2** in order on the remote controller to select the **Edit Favourite Channels** menu.



5. Channel List

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 controller.



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 into 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.
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.

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

5. Channel List

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 **ALL** button to unselect all the selected channel.

5.5 Channel Change Mode

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

1. Press the **MENU** (**MENU**) button.
2. Select **Channel Change Mode** using the **▲/▼** button, and press the **OK** (**OK**) or **▶** button.
3. Select **All Channels or Within the Current Channel List** using the **▲/▼** button, and press the **OK** (**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 other desired channel using ▲/▼ 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) buttons at 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 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.



6. Programme Guide

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.

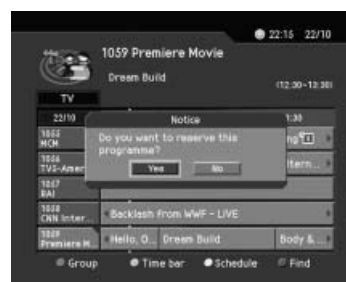
5. Select  and press the **OK** (OK) button to exit the Time Bar.

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 reservation has been completed, the  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.



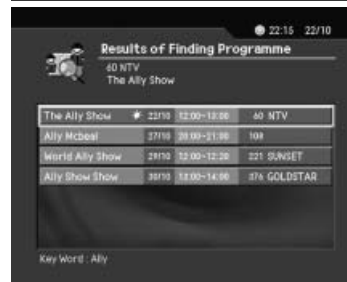
6.2 Finding a Programme

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**, 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 watching 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 watching.

Note:

- If you select **Previous** or **Next** on the Keyboard displayed on the screen and press **OK** (OK) button, the keyboard layout is switched.
- The results of the finding programme may differ depending on the provided programme information.

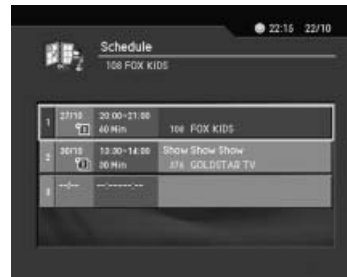


6. Programme Guide

6.3 Viewing Reserved Programme

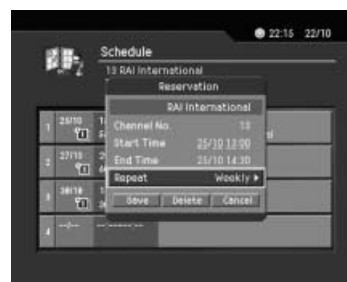
You can add or edit watching-reserved programme by viewing watching-reserved programme list.

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 watching schedule.



1. Editing 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** and press the **OK** (OK) button to delete the reserved programme.
5. Select the **Cancel** and press the **OK** (OK) button to cancel the editing.
6. Select the **Save** and press the **OK** (OK) button to complete the editing.



2. Adding Reservation

1. Enter your desired channel number using the **NUMERICAL** (0~9) buttons. The channel name is automatically displayed by channel number.
2. Enter your desired Start Time using the ◀/▶ button and the **NUMERICAL** (0~9) buttons.
3. Enter your desired End Time using the ◀/▶ button and the **NUMERICAL** (0~9) buttons.
4. Select one of Repeat mode options among **Once**, **Daily**, and **Weekly** using the ◀/▶ button.
5. Select the **Save** and press the **OK** (OK) button to complete entering.
6. Select the **Cancel** and press the **OK** (OK) button to cancel the reservation.



Note:

- You can reserve up to 20 programmes.
- If your desired programmed is already reserved or overlapped with **Power Off time**, 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 prompting message is displayed to ask Password, enter the Password using the **NUMERICAL** (0~9) buttons.



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



- View All** All programmes can be watched because there is no age limitation.
- 7** Programmes are blocked under the age of 7.
- 12** Programmes are blocked under the age of 12.
- 15** Programmes are blocked under the age of 15.
- 18** Programmes are blocked under the age of 18.
- Lock All** 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 OK (OK) or ► button.
2. Select Enable or Disable the **Allow Time Control** using the ▲/▼ button, and press the OK (OK) or ► 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 OK (OK) or ► button.
2. Enter **New Password** using the **NUMERICAL** (0~9) buttons, 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. Setting Preferences

7.2 Language Setting

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

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



1. Menu/Audio/Subtitle Language

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

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

2. Audio Priority

The receiver doesn't provide this function.

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 **OK** (Ⓞ) or ► 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** (OK) or ► 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 **OK** (OK) or ► button to display **GMT list**. GMT is changed by from 30 minutes to 1 hour.
3. Select your desired item and press the **OK** (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 **OK** (OK) or ► 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 **Time** using the **NUMERICAL** (0~9) buttons, and press the **OK** (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 **OK** (OK) or ► 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** (Ⓜ) 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**.

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.



1. TV - SCART

The receiver doesn't provide this function.

7. Setting Preferences

2. VCR - SCART

The receiver doesn't provide this function.

3. Audio Output

Set the Audio Output.

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

Note: When you select Mono, the sound is softer than Stereo.

4. Screen Ratio

You can set the aspect ratio of your TV.

1. Select **Screen Ratio** using the ▲/▼ 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.

5. Display Format

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

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

6. TV Standard

You can select the TV Standard: PAL or NTSC.

1. Select **TV Standard** using the ▲/▼ button, and press the **OK** (OK) or ► button
2. Select one option among **Auto/PAL/NTSC** using the ▲/▼ button, and press the **OK** (OK) button.

AUTO	The TV supports both PAL and NTSC.
PAL	The TV supports only PAL.
NTSC	The TV supports only NTSC.

7. NTSC Mode

If TV Standard is set to NTSC, set the following mode.

1. Select **NTSC Mode** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option from **3.58/4.43** using the ▲/▼ button.

Note: Only when TV Standard is set to Auto, set the NTSC mode.

7. Setting Preferences

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.

CH21~CH69	PAL I/G for Europe
CH28~CH69	PAL B for Europe/Australia
CH13~CH62	PAL D for China
CH21~CH69	PAL K for Russia

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/PAL D/PAL K** using the ▲/▼ button, and press the **OK** (Ⓞ) button.

3. UHF Offset

You can adjust fine tuning setting.

1. Select **UHF 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.

7.7 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.

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** (Ⓞ) or ► button.
2. Select one option from **On/Off** using the ▲/▼ button, and press the **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 Antenna Setting

You can set Antenna and LNB Information channel search. If antenna is not correctly set, you cannot search channel, therefore, you cannot watch a programme, either.

1. Press the **MENU** (MENU) button.
2. Select **Installation** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button.
3. Password is required to use Installation Menu. Enter Password to directly move to Installation Menu.
4. Select **Antenna Setting** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button to enter **Antenna Setting**.

Note: If no satellite is registered from **Antenna Setting** menu, Channel Search such as **Automatic Search**, **Manual Search**, **Multiple Manual Search**, **Advanced Search** is not available.



Satellite

You can select satellite for Channel Search.

1. Select **Satellite** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button.
2. Select one option that is the antenna heads for from the alphabetically sorted satellite list using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) button.
3. If no desired satellite exists in the list, select User Define Satellite item. When you are prompted to select whether or not to edit User Define Satellite, select **Yes**, and press the **OK** to display keyboard to edit the Name. Enter Satellite Name directly, select **OK** and press the **OK** (OK) button.



Satellite Alternative

You can search and watch a programme by using the antenna headed for the selected satellite.

1. Select **Satellite Alternative** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Then, you can change into one of the following options.

Disable Does not search the selected satellite.
Enable Searches the selected satellite.

Note: If there is no satellite that Satellite Alternative is set to **Enable**, Channel Search is not available.



LNB Frequency (MHz)

You can enter LNB Frequency.

1. Select **LNB Frequency** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one value from **Universal, 9750, 10600, 5150, 11475, User Define** using the ▲/▼ button. If you have selected **User Define**, enter LNB Frequency value directly, and press the **OK** (OK) button

Note: If you have selected **Universal**, select **9750/10600**. In this case, the **22KHz tone** value is **disabled**.



22kHz Tone

You can select whether or not to use 22KHz Tone.

1. Select **22kHz Tone** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select whether or not to use 22KHz Tone using the ▲/▼ button, and press the **OK** (OK) button.

Enable Selects **Enable** if Dual LNB is used or 2 antennas are connected to the 22kHz tone switch box.

Disable Selects **Disable** if 22kHz Tone is not used.



8. Installation

DiSEqC Input

You can select DiSEqC switch.

1. Select **DiSEqC Input** using the ▲/▼ button, and press the **OK** (OK) or ► button.
Select the **DiSEqC Switch** using the ▲/▼ button, and press the **OK** (OK) button.
You can select one option among **Tone burst A~B**, **DiSEqC A~D**, **DiSEqC A~D for 2.0** and **Disable**.



LNB Voltage

The receiver doesn't provide this function.

8.2 Automatic Search

If you select the satellite to search channel according to the Antenna Setting, you can automatically search the satellite without entering any other information. And you cannot watch any programme without searching channel.

1. Select **MENU** (MENU) button.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (OK) or ► button.
3. Select **Automatic Search** from Installation menu using the ▲/▼ button, and press the **OK** (OK) or ► button.



Satellite

You can select which satellite to search the channel.

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

Note: Channel Search is performed only for the satellites that have been set to **Enable** in Antenna Setting-Satellite Alternative menu. If you wish to search channels for satellites, which is not listed on the Satellite List of Automatic Search, move to **Antenna Setting** and set the Satellite Alternative item as **Enable**.



Search Type

You can set Search Type to search by Free channel.

1. Select **Search Type** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select **All, FTA and CAS** using the ▲/▼ button, and press the **OK** (OK) button.

All Searches all channels.
FTA Search only free channels.
CAS Searches channels for selected CAS type.



8. Installation

Channel Type

You can search by TV or Radio channel.

1. Select **Channel Type** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one option among **All**, **TV** and **Radio** using the ▲/▼ button.

All Searches all channels.
TV Search only TV channels.
Radio Searches only Radio Channel.



Search

You can complete the setting and start searching.

1. Select **Search**, and press the **OK** (OK) button to start Automatic Search.
2. When the search is in progress, the cursor is located at **Stop**. Therefore, if you press the **OK** (OK) button during the search, the operation comes to a stop and the channels having been found by then will be displayed.
3. If search operation is successfully completed, and the channel does not exist, press the **OK** (OK) button and try again if necessary to reset the search operation.
4. You can delete unnecessary channels from the searched channels. Select your desired channels to delete and press the **OK** (OK) button. Then select **Delete** and press the **OK** (OK) button. To delete all channels, select **Select All** to select all channels, then select **Delete**, and press the **OK** (OK) button.
5. When completing Channel Search and deleting unnecessary channels, select **Save** to save the changes.



8.3 Manual Search

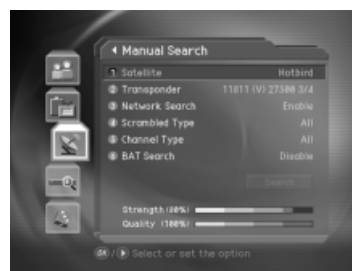
You can search channels of the selected satellites by transponders if you know the Transponder information.

1. Satellite

Select a satellite to search from the satellites set in **Antenna setting**.

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

Note: If the satellite scheduled to search channel is not exist in the Satellite list, move to **Antenna Setting** menu, set Antenna for the Satellite, and then try again.

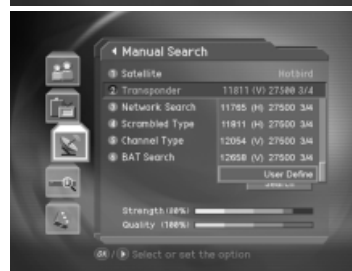


2. Transponder

Sets transponder value for the satellite

1. Select **Transponder** using the ▲/▼ button and press the **OK** (OK) or ► button.
2. Select one value from the Transponder value using the ▲/▼ button, and press the **OK** (OK) button.
3. If you cannot find your desired Transponder information from the Transponder List, select **User Define**, and press the **OK** (OK) button to change the Transponder information as follows.
 - Enter Transponder frequency using the **NUMERICAL** (0~9) buttons.
 - Select **Polarization** and press the **OK** (OK) or ► button to select one option among **Auto/Horizontal/Vertical**.

Note: Horizontal outputs 18V, and Vertical outputs 13.5V through LNB line.



8. Installation

- Select **Symbol Rate (ks/s)** and press the **OK** (OK) or ► button to select one Symbol Rate value from **27500/26000/22000**. If your desired value does not exist, select **User Define** to enter Symbol Rate value directly using the **NUMERICAL** (0~9) buttons.
- Select **FEC (Forward Error Correction)** option and press the **OK** (OK) or ► button to select one option among **Auto, 1/2, 2/3, 3/4, 5/6, and 7/8**.
- When completing entering Transponder information, select **Done** and press the **OK** (OK) button to finish entering User Define Transponder value.



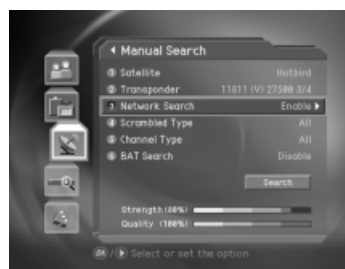
Note:

- For channel transponder information, you can find your desired information from Satellite channel magazine, Satellite channel related home pages, news release and home page of broadcasting company, etc.
- If you have correctly completed setting the Transponder information, Strength bar and Quality bar should represent as High. If the Level is close to 0, please try to reset.

3. Network Search

If your desired transponder provides the information of other transponder, you can determine whether or not to search the channel for other transponder.

1. Select **Network Search** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select either **Enable** or **Disable** and press the **OK** (OK) button. Select **Enable** to run Network Search.



4. Search Type

You can determine whether or not to search only free channels.

1. Select **Search Type** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select one option among **All**, **FTA** and **CAS** using the ▲/▼ button, and press the OK (OK) button.

All	Searches all channels.
FTA	Searches only Free Channel.
CAS	Searches channels for selected CAS type.



5. Channel Type

You can search by TV or Radio Channel.

1. Select **Channel Type** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select one option among **All**, **TV** and **Radio** using the ▲/▼ button.

All	Searches all channels.
TV	Searches only TV Channel.
Radio	Searches only Radio Channel.



6. BAT Search

If you desired transponder provides from the contracted broadcasting, you can determine whether or not to search the channel for other transponder.

1. Select **BAT Search** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select either **Enable** or **Disable** and press the OK (OK) button. Select **Enable** to run BAT Search.



7. Search

You can complete the setting and start searching.

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

8. Installation

8.4 Other Search

You can directly enter the Packet ID value or find how to search channel using the antenna for common use.

1. Press the **MENU** (Ⓜ) button to run **Menu**.
2. Select **Installation** using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button.
3. Select Other Search, and press the **OK** (Ⓞ) or ► button. Press the **BACK** (Ⓜ) or ◀ button to return to the previous menu.

1. Advanced Search

You can find your desired channel by entering Video, Audio and PCR Packet ID directly In Other Search Menu, sele **Advanced Search** using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button to start Advanced Search.

Satellite, Transponder

The setting for Satellite and Transponder is the same as that of Manual Search. Refer to the Satellite and Transponder setting for Manual Search.

Video PID, Audio PID, PCR PID

You can enter the PID value for specific channel.

1. Select the **PID** to set using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button.

Video PID	Enter the Video PID value.
Audio PID	Enter the Audio PID value.
PCR PID	Enter the PCR PID value.



2. Set PID value.

Auto	Search PID value automatically.
Hexadecimal	Enter PID value in Hexadecimal numeric.
Decimal	Enter PID value in Decimal .

- When you have selected **Hexadecimal** or **Decimal**, enter PID value directly using Keyboard.
- When completing entering PID value, select **OK**, and press the **OK (OK)** button.



Search

You can complete setting and start searching.

- Select **Search** and press the **OK (OK)** button to start Advanced Search.
- The next procedures are the same as those of Automatic Search. Please refer to Automatic Search.

2. SMATV Search

If your receiver uses the antenna for common use, operate SMATV Search. For SMATV Search, Channel Search is performed by the antenna for common use regardless of the setting value in Antenna Setting.

Select **SMATV Search** in Other Search Menu using the **▲/▼** button, and press the **OK (OK)** or **▶** button.

Frequency

- Select **Frequency** using the **▲/▼** button, and press the **OK (OK)** or **▶** button.
- Enter the down converted frequency through common LNB. You can enter the frequency between 950 and 2150 MHz.



Polarisation

- Select **Polarisation** using the **▲/▼** button, and press the **OK (OK)** or **▶** button.
- Select one from **Disable/Auto/Horizontal/Vertical** and press the **OK (OK)** button.

Note: Horizontal outputs 18V, and Vertical outputs 13.5V through LNB line. Select Disable when LNB Power is not necessary.



8. Installation

Symbol Rate

1. Select **Symbol Rate** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select the symbol rate of the transponder.
If the rate does not exist in the List, select **User Defined** and enter the value directly.



FEC

1. Select **FEC** using the ▲/▼ button, and press the OK (OK) or ► button.
2. Select one option among **Auto**, **1/2**, **2/3**, **3/4**, **5/6**, **7/8**, and press the OK (OK) button.



Search

You can complete setting and start searching.

1. Select **Search** and press the OK (OK) button to start SMATV Search.
2. The next procedures are the same as those of Automatic Search. Please refer to Automatic Search.

3. Multiple Manual Search

If you wish to search multiple Transponder at the same time, you can run Multiple Manual Search. This function is useful when repeating Manual Search.

1. Select **Multiple Manual Search** from Other Search Menu using the ▲/▼ button, press the OK (OK) or ► button to enable the Multiple Manual Search.
2. Select one option among **Satellite**, **Edit TP List**, **Search Type**, **Channel Type** using the ▲/▼ button, and press the OK (OK) or ► button.
3. Set the selected item.



Note: Settings for Satellite, Search Type, and Channel Type are the same as those of Manual Search. Refer to Manual Search.

Edit Transponder List

You can edit TP list to search at a time and change the setting for Transponder.

1. Select **TP List Edit** from **Multiple Manual Search**, and press the **OK** (OK) or **▶** button.
2. Select **Add** and press the **OK** (OK) button to add a new Transponder data.
3. Select a specific TP from the **Transponder List**, press the **OK** (OK) button, select **Edit**, and then press the **OK** (OK) button to edit Transponder data.
4. Select a specific TP from the **Transponder List**, press the **OK** (OK) button, select **Delete**, and then press the **OK** (OK) button to delete Transponder data. You can select multiple TPs to delete.
5. When completing configuring **Transponder list**, press the **BACK** (BACK) button to return to parent menu. Select **Yes** and press the **OK** (OK) button to confirm to save before moving.

Note: When you select **Default List** and press **OK**, Transponder list display.



8.5 Motor Antenna

If you use Motor Antenna, which is operated by motor, you should set the antenna as Motor before Channel Search.

1. Press the **MENU** (MENU) button.
2. Select **Installation** using the **▲/▼** button, and press the **OK** (OK) or **▶** button.
3. Select **Antenna Setting** using the **▲/▼** button, and press the **OK** (OK) or **▶** button.
4. Press the **OPT+** (OPT+) button on the **Antenna Setting** screen to switch into **Motor Antenna Menu**.



8. Installation

1. Motor Type

You should set the Motor Type before Motor Antenna Setting.

1. Select **Motor Type** from Motor Antenna, and press the **OK** (OK) or ► button.
2. Set LNB Frequency.
 - Select **LNB Frequency** using the ▲/▼ button, and press the **OK** (OK) or ► button.
 - Enter **LNB Frequency value** using the **NUMERICAL** (0~9) buttons.
 - When completing entering LNB Frequency, press the **OK** (OK) button.
3. Set LNB Voltage.
The receiver doesn't provide this function.
4. Select **Motor Kind** using the ▲/▼ button, and press the **OK** (OK) or ► button to select Motor Kind.

DiSEqC1.2 General Motor Antenna using DiSEqC 1.2.

USALS Motor Antenna using USALS.

5. Set My Longitude.
 - Select **My Longitude** using the ▲/▼ button, and press the **OK** (OK) or ► button to select Motor Type.
 - Enter **Longitude value** using the **NUMERICAL** (0~9) buttons.
 - Set **East/West** using the ◀/▶ button.
 - When completing setting, press the **OK** (OK) button.
6. Set My Latitude.
 - Select **My Latitude** using the ▲/▼ button, and press the **OK** (OK) or ► button.
 - Enter **Latitude value** using the **NUMERICAL** (0~9) buttons.
 - Set **North/South** using the ◀/▶ button
 - When completing setting, press the **OK** (OK) button.



2. Edit Satellite Data

You can set the position of the Satellite, which the Motor Antenna heads for, and decide whether or not to use the satellite.

1. Select **Edit Satellite Data** from **Motor Antenna Menu** using the ▲/▼ button.
2. Move to Edit Satellite Data by pressing the OK (OK) button.
3. Select **Satellite** using the ▲/▼ button, and press the OK (OK) button.
4. Select a satellite to edit, and press the OK (OK) button.
5. Select **Satellite Alternative** using the ▲/▼ button and press the OK (OK) button to decide whether or not to use the selected Satellite.

Enable Currently selected satellite is listed on Motor Setting. Channel Search is available.

Disable Currently selected Satellite is regarded as out of existence. Channel Search is unavailable.

6. Select **Satellite Longitude** using the ▲/▼ button, and press the OK (OK) button.
7. Enter the Longitude value for Satellite using the NUMERICAL (0~9) buttons. Change East/West value using the ◀/▶ button.



8. Installation

3. Motor Setting

1. Select **Motor Setting** from **Motor Antenna** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select Satellite.
 - Select **Satellite** using the ▲/▼ button, and press the **OK** (OK) or ► button.
 - Move the Motor to select which satellite the Antenna heads for.
 - Press the **OK** (OK) button.

Note: The satellite is displayed in the Satellite List only if the satellites have been set to **Enable** in Satellite Alternative item of Edit Satellite Data menu. For detailed information about setting Satellite Alternative item, refer to the instruction about Edit Satellite Data.

3. Select **Transponder** using the ▲/▼ button, and press the **OK** (OK) or ► button.
4. Set Motor Driving.
 - Select **Driving Mode** using the ▲/▼ button, and press the **OK** (OK) or ► button.
 - Select **Driving Mode Type**, and press the **OK** (OK) button.
 - Continuous: Motor moves continuously.
Step Motor moves by specified unit.
Time Motor moves during specified time.
 - Adjust **Driving Size** using the ◀/▶ button.
Step by Impulse
Time by Second
 - Select **OK**, and press the **OK** (OK) button.
5. Move the Antenna to the position of the selected Satellite.
 - Select **Go to Stored Position** using the ▲/▼ button.
 - Press the **OK** (OK) button to move Antenna to the position of the Satellite. Please wait during the Antenna is moving.



6. Confirm Signal Strength and Quality Level and fine-tune the Antenna direction.
 - Select **Go to Stored Position** using the ▲/▼ button.
 - Move the Antenna to East/West by pressing ◀/▶ button. Adjust **Signal Level** to maximum.
7. Save the adjusted position of Satellite.
 - Select **Store Current Position** using the ▲/▼ button.
 - Press the **OK** (OK) button to save the Antenna position headed for the selected Satellite.
8. You can set antenna position by satellite by repeating the above procedure.
9. You can recalculate positions for all other satellite based on one satellite. Adjust position of antenna by satellite based on one set position without setting each position of antenna by satellite.
 - Select **Recalculation** using the ▲/▼ button.
 - Press the **OK** (OK) button.
 - To adjust all positions again, select **Yes** and press the **OK** (OK) button.



Note: If you select Recalculation with selecting Reference for Satellite option, the antenna is reset to default.

8. Installation

4. Installer Menu

You can set default setting and operation limit for Motor Antenna.

1. Select **Installer Menu** from **Motor Antenna Menu** using the ▲/▼ button.
2. Press the **OK** (OK) button to move to Installer Menu.

Motor Limit Setting

You can set the maximum Motor Limit both East and West to prevent damage to the antenna.

1. Select **Motor Limit** using the ▲/▼ button.
 2. Set Motor Limit to **Disable** by pressing the **OK** (OK) or ► button.
- Enable** Motor Limit is already set. Motor does not move more than the amount of limit.
- Time** Motor Limit is disabled. Setting is released.
- Note:** When newly setting Motor Limit, set the value to **Disable**.
3. Select **Limit Position** using the ▲/▼ button.
 4. Select the **Direction of Limit** by pressing the **OK** (OK) or ► button.

East Motor sets East limit to move.

West Motor sets West limit to move.

5. Select **Set Limit** using the ▲/▼ button.
6. Move antenna to the **Limit Position** to set using ◀/▶ button.
7. Press the **OK** (OK) button to set Limit.
8. If Limit is set, **Motor Limit** option is automatically changed into **Enable**.



Reset Position

You can restore the position saved at Motor Antenna to the default setting.

1. Select **Reset Positions** using the ▲/▼ button.
2. Press the **OK** (OK) button.
3. Select **Yes** and press the **OK** (OK) button to restore all saved value at Motor Antenna to the default setting.
4. Please wait during the Motor Antenna is restored.

Note: Motor Antenna may not be reset depending on Antenna condition. In this case, please repeat the above procedure again.



8.6 Default Setting

Default Setting restores the receiver to the default settings

Warning: Please note that once you perform Default Setting, all data such as **Antenna Setting** information 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 **PIN** using the **NUMERICAL** (0~9) buttons.
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 settings 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 **PIN** using the **NUMERICAL** (0~9) buttons 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 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 the software can be downloaded where the manufacturer reserves the right to decide when and where to release through Antenna system.

Over the Air (OTA) is simply an alternative method for downloading new versions of software. 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 antenna systems. Note that OTA is only limited to certain geographical regions mainly due to different antennas having different footprints (area where the signal can be received). The software update via satellite system 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 antenna system
3. The equipment must be **tuned** properly to the same antenna that the manufacturer uses.
4. Upgrade software when the quality of receiving signal strength is high. If the weather is not so good and 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 (LNB 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.

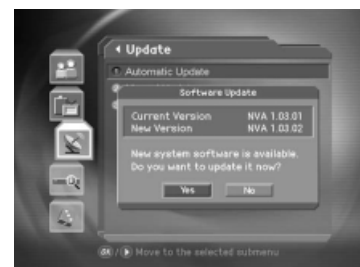
2. If updating software from Menu

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 **Update** using the **▲/▼** button, and press the **OK** (OK) or **▶** button.



3. If new version of software is detected while 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.

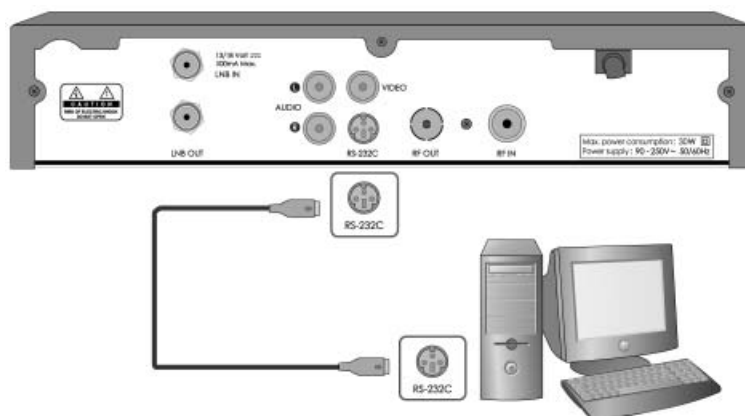


9. Software Update

9.2 S/W Upgrade from PC

You can connect your receiver to the PC directly and upgrade 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, Common Interface, Conditional Access and mail messages information.

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. Select either **IRD Status** or **Loader Status** using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button.
3. Confirm the information about each status.



10.2 Signal Detection

You can view the signal strength and signal quality receiving from satellite via your satellite dish.

1. Select **Signal Detection** using the ▲/▼ button, and press the **OK** (Ⓞ) or ► button.
2. Display information about the satellite and transponder, which current channel belongs to and the graphs and percentage of Signal Strength and Quality of the channel.

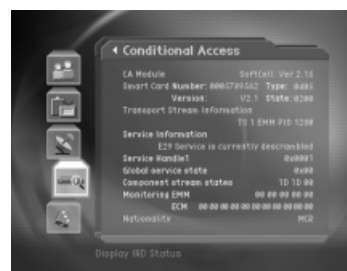


10. System Information

10.3 Conditional Access

You can view the current status of conditional access.

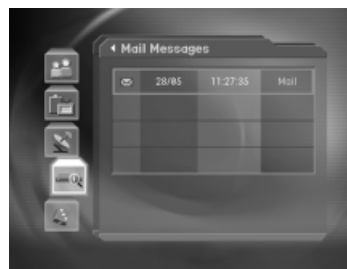
1. Select **Conditional Access** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Confirm the information.



10.4 Mail Messages

You can view the mail message receiving from a broadcasting station.

1. Select **Mail Messages** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select your desired message among several messages using the ▲/▼ button, and press the **OK** button.
3. If you come back the previous screen, select the **OK** using ◀ or ► button, and press the **OK** (OK) button.
If you delete the message, select the **Delete** using ◀ or ► button, and press the **OK** (OK) button.



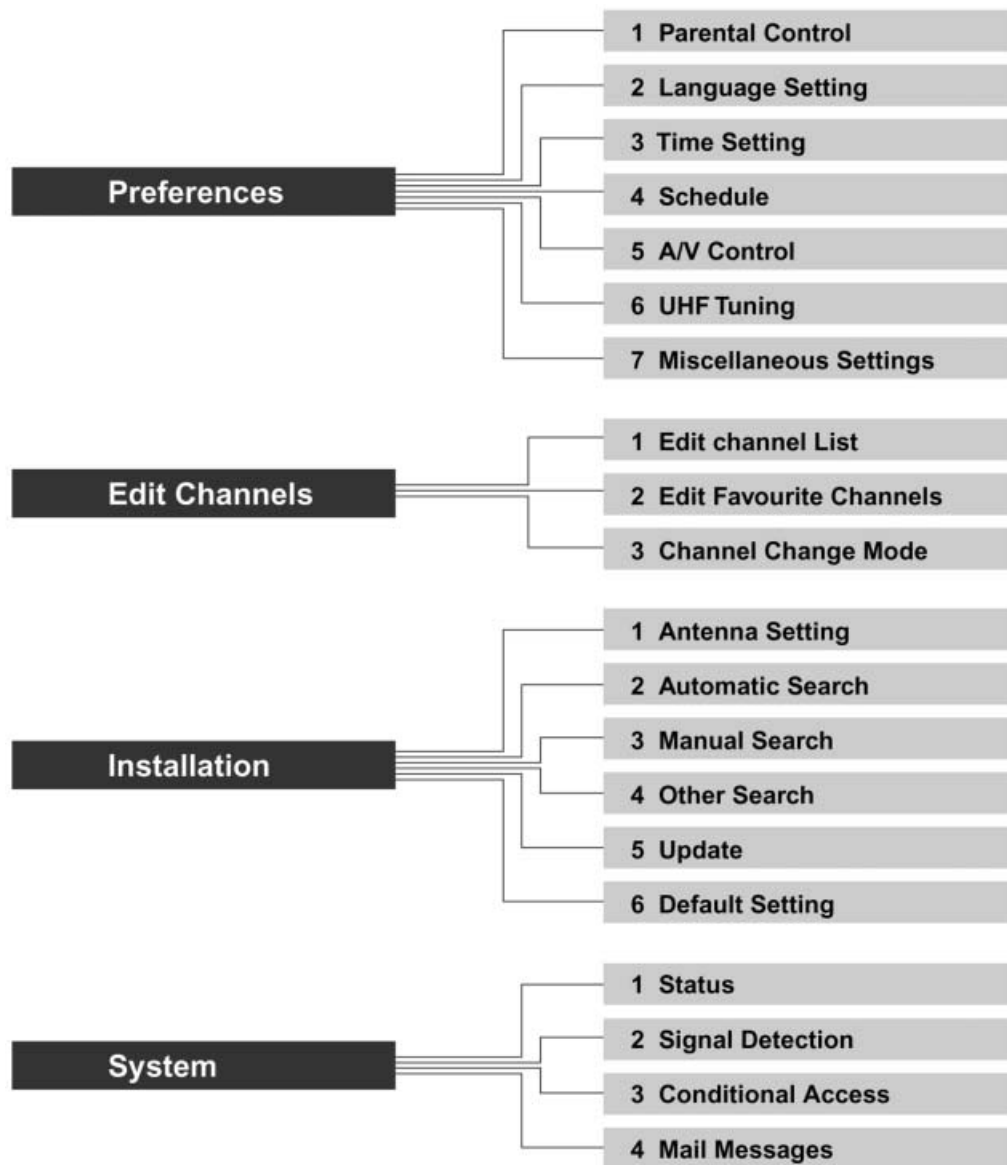
11. Games

This product provides various games for user's entertainment.

1. Press the **MENU** (Ⓜ) button.
2. Select **Games** using the ▲/▼ button, and press the **OK** (Ⓞ) button.
3. According to the instruction displayed on screen, you can enjoy the game using ▲/▼/◀/▶ 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 you observe the following instructions. If the product does not work normally after completing the following trouble shooting, please contact your local product distributor or service centre.

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 the 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 Antenna line is correctly connected to the equipment.
 - Make sure that **Antenna Setting** is correct.
 - Check the brightness level of TV.
 - Check the channel is on air.
3. Poor picture and sound quality
 - Install the antenna in a place where there is no obstacle.
 - Make sure there is no mobile phone or microwave oven near the equipment.
 - Use 75 Ω coaxial cable to connecting TV and antenna.
 - Keep the product and the antenna cable for satellite far away from each other.
 - Make sure the receiving level, and adjust antenna if the level is low. The receiving level can be influenced by weather.

Note: If the CS Antenna is covered with snow or the RF is weakened by heavy rain, sound and picture may temporarily be poor. However, these poor sound and picture quality because of weather conditions cannot be not accepted as a malfunction of equipment.

 - Change satellite dish into bigger one if satellite dish is small.
 - Replace LNB with the one with low noise factor if the noise factor is high.
 - Replace LNB with new one if it is damaged or out of order.
4. No or poor sound
 - Check the volume level of the TV and Receiver.
 - Check the Mute status of the TV and product.
 - Press the Audio button to change the Sound Track type.
5. Remote controller does not operate
 - To control the equipment with the remote controller, the remote controller's top end should directly point towards the receiving part of receiver's remote controller.
 - Check the battery of Remote controller.
6. Reservation is unavailable
 - Check whether it is not overlapped with other reservation.
 - Check whether the power switch is off.

13. Trouble Shooting

13.2 Error Message

Error message	Possible causes	What to do
No or bad signal	The satellite dish is not pointing at the satellite. Signal too weak. Satellite dish is too small. LNB is faulty. Wrong antenna setting.	Adjust dish. Increase the LNB voltage or connect a signal amplifier. Change to a large dish. Change the LNB. Set the antenna correctly.
The channel is 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 audio is not available.	The channel has signal, but no Audio.	Press the Audio button to confirm if the channel has Audio.
LNB short	LNB cable is shorten. LNB is internally shorten. LNB In Port is inserted by alien substance or damaged.	Replace LNB Cable. Replace LNB. Remove the alien substance and contact local service center if it is damaged.

14. Specification

Tuner and Channel	
Input Connector	F-type, IEC-169-24, Female
Frequency Range	950MHz to 2150MHz
Input Impedance	75 Ω
Signal Level	-25 to -75dBm
LNB Power & Polarisation	Vertical: +13.5V (+14V at high voltage) Horizontal: +18V (+18.5V at high voltage) Current: 500mA Max. Overload Protection
22kHz Tone	Frequency: 22 \pm 4kHz Amplitude: 0.6 \pm 0.2V
DiSEqC Control	Version 1.0, 2.0, 1.2, USALS
Demodulation	QPSK
Input Symbol Rate	2 ~ 45 Ms/s
FEC mode	Convolutional Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 with Constraint Length K=7
MPEG Transport Stream A/V Decoding	
Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG2 MP@ML
Input Rate	15 Mbit/s Max
Aspect Ratio	4:3, 16:9 , Letter box
Video Resolution	720x576, 720x480
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode16	Single channel/Dual channel/ JointStereo/Stereo
Sampling	32, 44.1 and 48kHz
Memory	
Flash Memory	2M byte
Graphic (MPEG) & System DRAM	8M byte
EEPROM	8K byte

14. Specification

RF Modulator	
RF Input/Loopthrough output	75 Ω , IEC 169-2
Frequency	470 ~ 860 MHz
Output Channel	CH 21~69
TV Standard	PAL B/G/I/D/K
A/V and Data In/Out	
Video	RCA Video Output (CVBS, S-Video, RGB)
Audio R/L	RCA Volume and Mute Control (Resolution : 20 bits DAC, MAX, 2Vrms)
RS-232C	Transfer Rate:115Kbps, 3 pin Socket type
Power Supply	
Input Voltage	90~250V AC, 50/60Hz
Type	SMPS
Power Consumption	Max. 30W
Stand by Power	IR-ACE II : $\leq 7W$ IR-ACE SII : $\leq 9W$
Protection	Separate Internal Fuse The input should be protected against lighting.
Physical Specifications	
Size	260 * 50 * 182 mm
Weight (Net)	1.2 Kg
Operating Temp	0 °C to + 45 °C
Storage Humidity	5% ~ 95% RH (Non-Condensing)

15. Glossary

DiSEqC (Digital Satellite Equipment Control)

A standard through which it is possible to let a DiSEqC compatible receiver send a signal over the RF cable to a switching device to switch between different LNBs or dishes. The DiSEqC uses the 22KHz signal to control the switching device.

Programme Guide (Electronic Programme Guide, EPG)

A electronic program guide (EPG) that comes with the broadcast to a particular satellite, note that every station fills the EPG differently or not, so differences in the EPG are not necessarily receiver errors.

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.

Hi-Fi (High Fidelity)

The characteristics of audio devices that can play back all the audio frequencies of the human, which is the range of 16Hz ~ 20KHz, uniformly from the low frequency to high frequency. Sometimes it is used to indicate good quality of an audio device such as stereo tape recorder.

LNB (Low Noise Block)

An electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by this product.

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 satellite system.

RF (Radio Frequency)

Frequencies occupied by radio waves of the total frequency range of electromagnetic waves.

Transponder

An automatic device that receives amplifies and retransmits a signal on a different frequency.

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

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

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)