

Notice

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<p>Thank you for purchasing a HUMAX Personal Video Recorder. Please read this user manual carefully to be able to safely install, use and maintain the recorder at maximum performance. Keep this user manual next to your recorder for future reference.</p>

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

2. OVERLOADING

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

3. LIQUIDS

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

4. CLEANING

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

5. VENTILATION

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

6. ATTACHMENTS

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

7. CONNECTION TO THE CABLE TV SIGNAL AND TV

Connect all components before plugging any power cords into the wall outlet. Always turn off the product, TV and other components before you connect or disconnect any cables.

Safety and Warning

8. LOCATION

Place the product 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 from where it can fall. A falling product can cause serious injury to a child or adult, and serious damage to the appliance

9. LIGHTNING, STORM, or NOT IN USE

Unplug the product from the wall outlet and disconnect the cable 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.

10. EXTRANEIOUS OBJECTS

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

11. REPLACEMENT of PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer, or those that have the same characteristics as the original part.

Unauthorized substitution may result in additional damage to the unit.

Warning

1. Follow these directions in order not to damage the power cord or plug.
Do not modify or process the power cord or plug arbitrarily.
Do not bend or twist the power cord too much.
Make sure to disconnect the power cord with the plug held.
Keep heating appliances as far as possible from the power cord in order to prevent the cover vinyl from melting.
2. Follow these directions. Failure to follow one of them may cause electrical shock.
Do not open the main body.
Do not insert metals or inflammable objects inside the product.
Do not touch the power plug with wet hands.
Disconnect the power cord in case of lightning.
3. Do not use the product when it is out of order. If you continue to use the product when defective, 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 product and reduce its life span.

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1. Before Using the Recorder

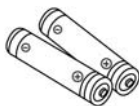
This chapter provides detailed instructions on the product and its accessories.

1.1 Package Contents

Please check all package contents before using your product.



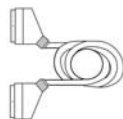
**Remote Control
Unit**



Batteries



User's Manual



Scart Cable

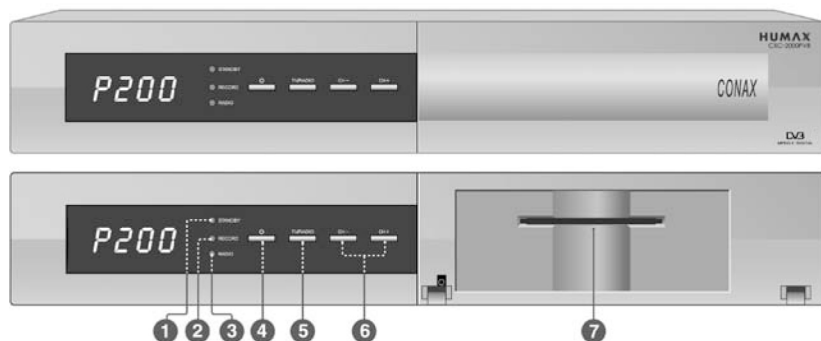
Note:

- Package Contents can be changeable according to the area.
- 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.

Warning:

- To install a hard disk drive, contact your product provider.
- The company shall not be liable for problems caused by installing a hard disk drive by user.
- This product provides best performance with Seagate ST380012ACE(80G) or Maxtor 4R080L0(80G) Hard Disk Drive.
- This product provides only 80GB of hard disk drive. The company shall not be liable for problems caused by the installation of hard discs bigger than 80GB.

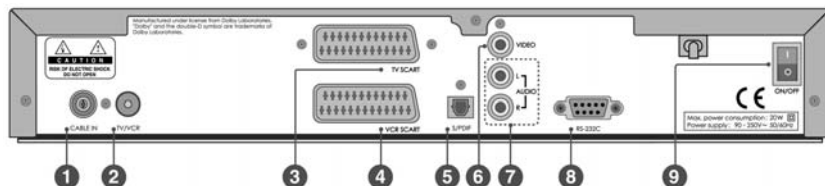
1.2 Front Panel



1. **STANDBY LED**
Red light is displayed when the product is in the standby mode.
2. **RECORD LED**
Green light is displayed when the product is in recording.
3. **RADIO LED**
Yellow light is displayed when the recorder is in radio mode.
4. **STANDBY Button**
Switches between operation and standby modes.
5. **TV/RADIO Button**
Switches between TV and Radio.
6. **CH - / CH +**
Moves the TV/Radio channel up/down.
7. **SMART CARD SLOT**
Slot for a smart card.

1. Before Using the Recorder

1.3 Rear Panel



1. CABLE IN

Connects a cable to a CABLE input jack on the Recorder.

2. TV/VCR

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

3. TV SCART

Connects a TV SCART cable.

4. VCR SCART

Connects a VCR SCART cable.

5. S/PDIF

Outputs the digital audio signals.

6. VIDEO

Connects to your TV or VCR and output Video signals.

7. AUDIO L/R

Connects to your TV or VCR and output Audio signals.

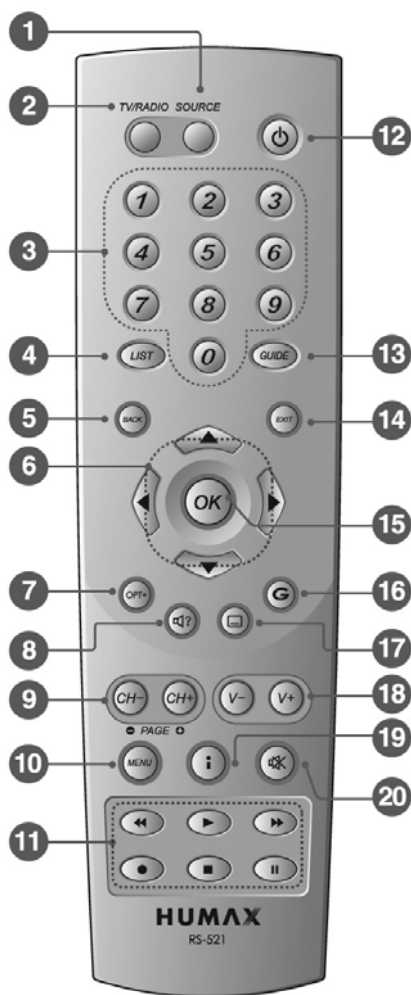
8. RS-232C

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

9. ON/OFF

Power on/off.

1.4 Remote Control Unit



1. Before Using the Recorder

1. SOURCE

Selects the input source between TV and recorder.

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. AUDIO

Displays the Audio list.

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

Changes the Channel or Page.

10. MENU

Displays the main menu.

11. PLAYBACK CONTROL BUTTONS

Includes fast rewind, play, fast forward, record, stop, pause buttons.

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. G (Game)

Displays the Game.

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

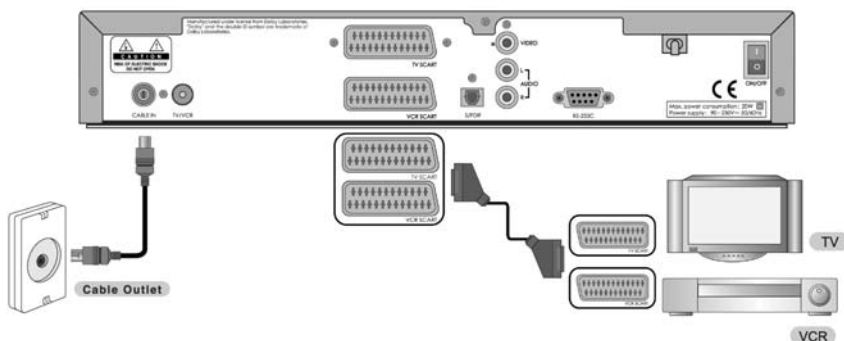
This chapter describes how to set up the Recorder. Select the most appropriate procedure depending on your requirements.

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

2.1 Connecting the Cable

1. Connecting TV and VCR

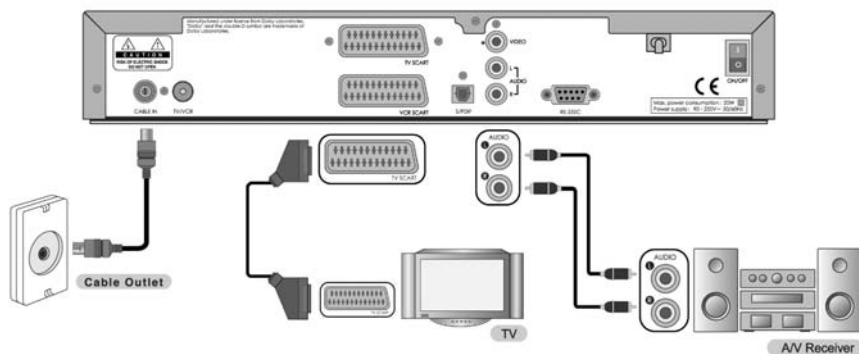
This is the most simple setup mode.



2. Setup

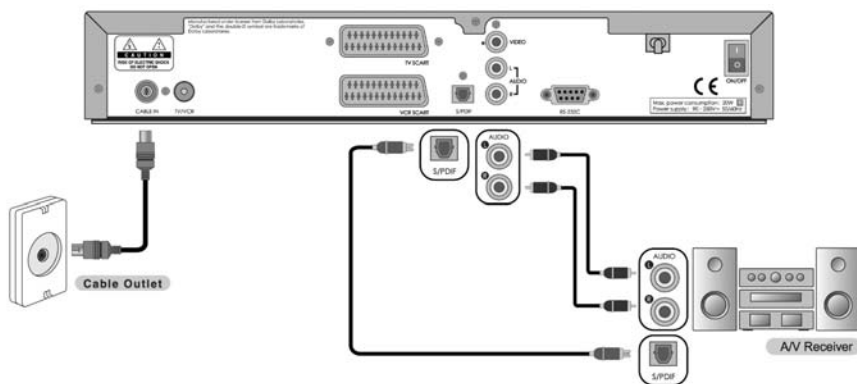
2. Connecting Hi-Fi system 1

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



3. Connecting Hi-Fi system 2

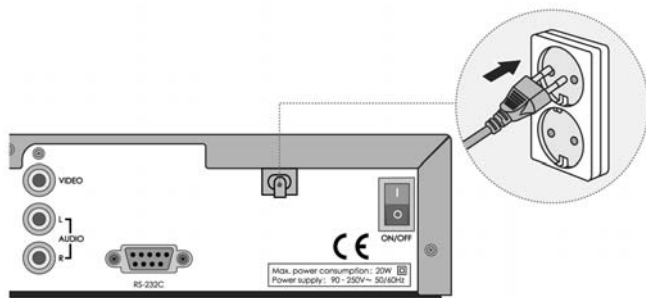
If you wish to connect S/PDIF to the optical S/PDIF terminal and Dolby digital decoder to listen digital audio, connect as following.



2. Setup

2.2 Powering On

1. Connect the power cord of the recorder to a wall outlet.
2. Turn on the power switch, located at the left on the back of the recorder.
Make sure that the Standby LED indicator is turned on Red.



3. Power on by pressing the **STANDBY** (⏻) button at Remote Controller or the **STANDBY** button at the front of the Recorder.



3. Installation Wizard

When powering on your Recorder 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) button.

Note:

- If you press the **BACK** (⏮) button or select **Back** and press the **OK** (⏹) button while running the Installation Wizard, you can return to the previous screen.
- Press the **EXIT** (⏻) button to exit the Installation Wizard when running the Installation wizard.

3.1 Language

Select the appropriate language from the list using the ▲/▼ button and press the **OK** (⏹) button to save the selected language as a default language for Menu, Subtitle, and Audio.



3.2 Area Setting

You can select country.

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

Select **Next** and press the **OK** (⏹) button to go to the next step.



3. Installation Wizard

3.3 Channel Search

You can search channels automatically or manually. If you select Manual search, you have to set parameters for search.

- **Search Type:** Select **Auto** or **Manual**. If Manual is selected, the following options will be activated.
- **Frequency:** The default value is set to **300000**. If you wish to set your desired frequency value, select **User Define**, and enter the value using the **NUMERICAL** (0~9) button.
- **Symbol Rate:** Select your desired symbol rate using the **▲/▼** button, and press the **OK** (OK) or **►** button. If the desired value is not listed, then select **User Define**, and enter the value using the **NUMERICAL** (0~9) button.
- **Network Search:** When using the network search, select **Enable**. When entering the Network ID, select **User Define**. You can also disable the network search by selecting **Disable**.



Select **Next** and press the **OK** (OK) button to start channel search.

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

If the Channel Search is stopped or finished, you can edit the found channels.

- **Select All:** Select all the found channels.
- **Unselect All:** Unselect all the found channels.
- **Delete:** Delete the selected channels.



Select **Save**, and press the **OK** (OK) button to save the result and go to the next step.

3.4 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.

Select **Next** using the **▲/▼** button and press the **OK** (OK) button to go to the next step.



3.5 Result

It displays the default language, the default time offset, and channel search result.

Select **Finish** using the **▲/▼** button and press the **OK** (OK) button to complete the Installation Wizard.



4. Basic Operation

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

4.1 Switching Channel

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

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

Note: You can switch channel using the Channel List or Programme Guide. Please refer to Chapter 7 and 8 for more information.

4.2 Volume Control

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

Note: The mute function keeps enabled while you change the channel.

4.3 Teletext








When the channel supports teletext, the teletext icon (T) is displayed on the I-plate. To enter Teletext mode, press the **SUBTITLE** (SUBTITLE) button to display teletext.

1. Using Teletext Menu




1. Press the **MENU** (MENU) button to display teletext menu in teletext mode.
2. Select your desired teletext function using the **◀/▶** button.
3. Press the **OK** (OK) button.



Teletext Functions

	Index	Return to index page. If there is no index page, jump to page 100.
	Sub-page	Search the sub-page using the sub-code written by users. If it's not in the teletext mode, display the current time.
	MIX	Adjusts transparency of teletext screen.
	Cancel	Hides the teletext except page number.
	Reveal	Displays the concealed information.
	Double Size	Displays the text size as double size.
	Page Hold	Holds the current page not updating it.

2. Viewing Teletext Page

1. Enter your desired page number using the **NUMERICAL** (0~9) buttons to move to the page directly.
2. Press the **▲** button to move to the next page in increased number.
3. Press the **▼** button to move to the previous page in decreased number.
4. Press the **CH-/CH+** () () buttons to move to previous/next page.
5. Press the **BACK** () button to move back up to 7 recently viewed pages in sequence.



4. Basic Operation

4.4 Changing the Subtitle Language

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

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

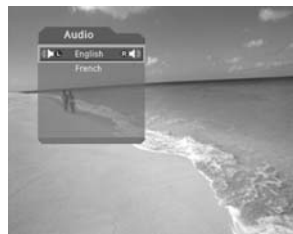


Note: You can select a default subtitle language by selecting **MENU - Preferences - Language Setting - Subtitle Language**.

4.5 Changing 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 **AUDIO** (🔊) button to display **Audio list**.
2. Select your desired audio language using the ▲/▼ button, and press the **OK** (Ⓞ) button.
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**.
- If the programme is Dolby digital one, you cannot set the audio direction such as left, right, and stereo.

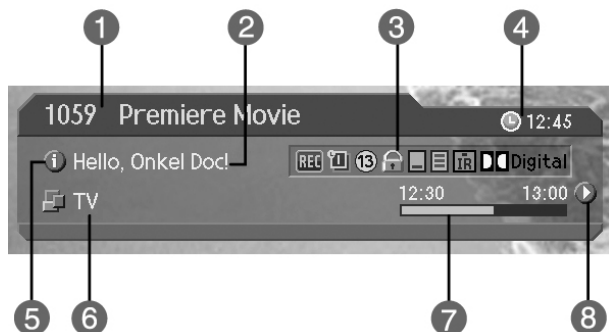
4.6 Programme Information (I- plate)

Programme information is displayed for a specific period of time whenever you switch channels. You can view the programme information by pressing the **i** (i) button while watching a programme.

Press the **EXIT** (exit) button to hide the I-plate.

1. General Information

General Information is displayed as follows on the screen.



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



Displayed only if this programme is recording.



Displayed only if this programme is reserved.



Represents parental level. It indicates the minimum level of ages that the programme is targeted at.



Displayed only when the channel is a locked channel.



Displayed only when the channel is a scrambled channel.



Displayed only when subtitle information is available.



Displayed only when there is any teletext information.



Displayed only when the programme is a dolby digital one.

4. Basic Operation

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

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

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



4.7 Option List

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

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

1. Add a channel to favourite group

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

1. Press the **OPT+** (OPT) button.
2. Select **Favourite** using the **▲/▼** button, and press the **▶** or **OK** (OK) button.
3. Select **favourite group** using the **▲/▼** button and press the **OK** (OK) button to register for Favourite Group.
4. Press the **OK** (OK) button again on the selected **Favourite Group** to release the registered channel.
5. Move to the parent menu using the **◀** button to save the changes automatically.

Note: For detailed information about how to change Favourite Group's name and how to register Favourite Channel for the whole channels, refer to **Chapter 7**.



4. Basic Operation

2. Lock/Unlock a Channel

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

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

Note: When switching to the Locked Channel, you must enter the password to watch a programme. The Default Password is '0000'.



3. Delete a Channel

You can delete the current channel while watching a programme.

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

Note: The Default Password is '0000'.

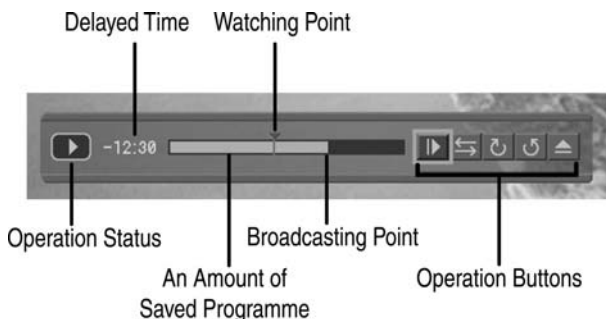


5. Time Shifted Recording

This unit automatically saves the programme on air so that users can watch programmes as they watch a video tape using functions such as rewind, fast forward, replay and pause.

5.1 Time Bar

If you press playback control buttons while watching TV, the Time bar appears on the bottom of the screen.



Time bar displays the current operation status, the time difference between the broadcasting point and watching point, and an amount of temporarily saved programme. Time bar also provides 5 operation buttons on the right side for additional time shift operations.

5.2 Pause

If you press the **PAUSE** (⏸) button on the remote controller, the current programme is paused. If you press the **PLAY** (▶) or **PAUSE** (⏸) button once again, the programme is resumed from that point.

Note:

Pause makes the time difference or delay between the broadcasting point and watching point. The time difference is equal to the paused time period. You can check the time difference in the Time bar. Other operations such as slow motion and rewind also make the time difference.

Press the **STOP** (■) button to remove the time difference, and watch the programme on air presently.



5. Time Shifted Recording

5.3 Rewind to Previous Scene

Press the **REWIND** (⏮) button on the remote controller to watch the scene passed by. Whenever you press the **REWIND** (⏮) button, the rewind speed increases by 3 steps.

If you press the **PLAY** (⏮) button, the rewinding operation stops, and the programme is played at normal speed.

Note: You can rewind to the point when you have changed to the current channel. If the watching point reaches the start point during rewinding, the programme is played at normal speed from the point.



5.4 Fast Forward to the Next Scene

Press the **FORWARD** (⏭) button on the remote controller to fast forward the programme. Whenever you press the **FORWARD** (⏭) button, the speed increases by 3 steps.

If you press the **PLAY** (⏭) button, the fast forward operation stops, and the programme is played at normal speed.

Note: You can use the fast forward operation only when there is a time difference between the current watching and the broadcasting point caused by some previous operations such as pause, slow motion, and rewind. You can fast forward to the current broadcasting point. If the watching point reaches to the broadcasting point, the programme is played at normal speed.



5.5 Recording

Press the **REC** (⦿) button on the remote controller to start recording the current programme. While the time shift operation records the programme temporarily, record operation records the programme permanently so you can playback the recorded programme at any time. For more information about recording, refer to **Chapter 6**.

5.6 Additional Time Shift Operations Using Time Bar

You can perform additional time shift operations using the 5 operation buttons on the right side of the time bar.

1. Slow Motion

Select **SLOW MOTION** (⏮) and then press the **OK** (OK) button to play the current programme in slow motion. Press **SLOW MOTION** (⏮) once again to play the programme at normal speed.

2. Direct Jump

Select **DIRECT JUMP** (⏮) and then press the **OK** (OK) button. A moving arrow appears in progress bar. Move this arrow to a desired time point using the ⏮/⏭ button, and then press the **OK** (OK) button to play the programme from the specified time point.

3. Replay

Select **REPLAY** (⏮) and press the **OK** (OK) button, to replay the current programme from the 7 seconds before. When the replay has been completed, the programme is normally played from the point.

4. Skip

Select **SKIP** (⏮) and then press the **OK** (OK) button to play the programme from the time point 30 seconds forward from the current watching point.

You can use the skip operation only when there is a time difference between the current watching and the broadcasting point while you use the fast forward operation. If the time difference is less than 30 seconds, the programme is played from the current broadcasting point.

5. Displaying a Playlist

Select **PLAYLIST** (📄) and press the **OK** (OK) button to display the currently saved programme list.

Select desired programme and then press the **OK** (OK) button to playback the programme.

You can perform the time shift operations like VCR functions using the Playback control buttons while playing a programme.

Press the **STOP** (■) button to stop playing the current saved programme, and watch the current programme on air.



6. Recording and Playback

You can record a programme without an external media device such as a VCR.

6.1 Instant Recording

Press the **REC** (👁️) button on the remote controller to record the current programme instantly.

Press the **STOP** (■) button to stop recording.

Note:

- You cannot change channels during the recording operation.
- Ensure that there is enough free space before recording, because if the free space on the hard disk drive is insufficient, recording will stop. Recording 1 hour of programme may require up to 3GB of free space of hard disk space. The space for recording 1 hour of programme may be different depending on the programme recorded.

6.2 Recording Reservation

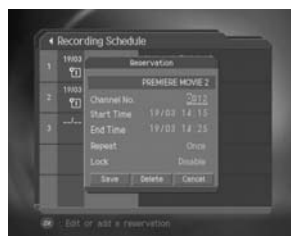
You can reserve recording to record your desired programme automatically. You can reserve recording of a programme using **Menu - Record - Recording Schedule** and **Guide**. For detailed information on recording reservation using Guide, refer to **Chapter 8**.

1. Press the **MENU** (☰) button.
2. Select **Record** using the **▲/▼** button and press the **OK** (OK) or **▶** button.
3. Select **Recording Schedule** using the **▲/▼** button and press the **OK** (OK) or **▶** button to display the reserved recording list on the screen.
4. Select a blank list and press the **OK** (OK) button to add a new recording reservation.
5. Select the reserved list and press the **OK** (OK) button to edit the existing reservation information.



1. Adding Recording Reservations

1. Enter **Channel Number** using the **NUMERICAL** (0~9) buttons. The channel name changes automatically according to the input channel number.
2. Enter **Recording Start Time** using the **◀/▶** button, and **NUMERICAL** (0~9) buttons.
3. Enter **Recording End Time** using the **◀/▶** button, and **NUMERICAL** (0~9) buttons.
4. Select **Repeat** mode from Once/Daily/Weekly using the **◀/▶** button.



5. Select **Programme Lock** mode using the ◀/▶ button.
6. When you have finished, select **Save**, and then press the **OK** (OK) button.
7. Select **Cancel**, and then press the **OK** (OK) button to cancel the reservation.

Note:

- You can reserve 20 programmes for recording.
- If the programme to reserve overlaps with the existing one, adjust the reservation so as not to overlap.
- If the target channel is locked, restricted by watching time or parental control, you have to enter a password for reservation.

2. Editing Recording Reservations

1. Change **Recording Start Time** using the ◀/▶ button, and **Numerical** (0~9) buttons.
2. Change **Recording End Time** using the ◀/▶ button, and **Numerical** (0~9) buttons.
3. Change **Repeat** mode using the ◀/▶ button. You can select from Once, Daily, and Weekly.
4. Change **Programme Lock** mode using the ◀/▶ button.
5. Select **Delete**, and then press the **OK** (OK) button to delete a reservation.
6. Select **Cancel**, and then press the **OK** (OK) button to cancel an edit operation.
7. Select **Save**, and then press the **OK** (OK) button to finish editing operation.



Note: If you have configured **Lock** on a recording reservation, you have to enter a password to playback the recorded programme.

6. Recording and Playback

6.3 Programme Playback

Select your desired programme from the recorded programme list, and then press the **PLAY** (▶) button to playback the recorded programme.

You can view the programme list recorded by instant recording or recording reservation by selecting **Menu - Record - Recorded Programme**. Otherwise, you can easily view the recorded programme list using **PLAYLIST** (📁) on the right side of the Time bar while you are watching a programme.

1. Press the **MENU** (☰) button.
2. Select **Record** using the ▲/▼ button, and press the **OK** (⏵) or ▶ button.
3. Select **Recorded Programme** using the ▲/▼ button, and press the **OK** (⏵) or ▶ button to display the record programme list.
4. Select the desired programme to playback using the ▲/▼ button, and then press the **PLAY** (▶) button to playback the programme.
5. Press the **STOP** (■) button to stop the current programme, and watch the current programme on air.
6. You can perform time shift operations like VCR functions such as rewind, forward, slow motion, pause, skip, and replay using the Playback control buttons on the remote controller or the additional buttons on the right side of the time bar while you are playing back a programme.



Note: For more information on the time shift operations like VCR functions, refer to **Chapter 5**.

6.4 Editing Recorded Programmes

Select **Menu - Record - Recorded Programme**, and then select the desired recorded programme to edit the information of the programme.

1. Press the **MENU** (☰) button.
2. Select **Record** using the ▲/▼ button, and press the **OK** (⏵) or ▶ button.
3. Select **Recorded Programme** using the ▲/▼ button, and press the **OK** (⏵) or ▶ button. The recorded programme list appears.
4. Select the desired programme, and then press **OK** (⏵) to display the edit screen.



Note: If you press the **i** (i) button while playing a programme, a screen appears showing the information on the recorded programme.

1. Deleting a Recorded Programme

Select **Delete** in the edit screen, and then press the **OK** (OK) button.

2. Changing The Name of a Recorded Programme

1. Select **Programme** in the edit screen, and then press the **OK** (OK) button to display a keyboard on the screen.
2. Enter the desired programme name on the screen keyboard using the ▲/▼, and **OK** (OK) button.
3. Select **OK**, and then press the **OK** (OK) button to complete.



3. Protecting Recorded Programmes from Deletion

1. Select **Protect** in the edit screen, and then press the **OK** (OK) or ► button to change **Enable** or **Disable**.
2. You have to enter a password to change the status from Enable to Disable.

Note: If the protect option of the programme is configured to **Enable**, you cannot delete the programme. Therefore, you have to change the protect option to **Disable** to delete a protected programme.

4. Locking a Recorded programme

1. Select **Lock** in the edit screen, and then press the **OK** (OK) or ► button to change **Enable** or **Disable**.
2. You have to enter a password to change the status from Enable to Disable.

Note: If the Lock option of a programme is configured to **Enable**, you have to enter a password to playback the programme.

6. Recording and Playback

6.5 Checking Hard Disk Drive

You can check the free space of the hard disk drive, and can format the disk drive if necessary.

1. Press the **MENU** (MENU) button.
2. Select **Record** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button.
3. Select **HDD Control** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button.
4. You can check the used and free space of the HDD.
5. Select **Format** and press the **OK** (OK) button to remove all the recorded programmes saved on the HDD, and initialise the HDD.
6. Select **OK** for the format confirm message, and enter a password to start formatting the HDD.



Note:

- You have to be careful because performing format deletes all the recorded programmes saved on the HDD.
- Even if you have removed the HDD because it is out of order, you can still watch programmes.




7. Channel List

Three 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.


7.1 Displaying and Switching Channel List

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

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



Note:

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

7. Channel List

7.2 Changing Channel List Group

You can select channel list by group.

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



Note:

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

7.3 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 $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button.
3. Select **Edit Channel Lists** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (OK) or \blacktriangleright button.
4. You will be prompted to enter your password. Enter your password using **NUMERICAL** (0–9) button.



Note:

- Press the **BACK** (BACK) or \blacktriangleleft 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 **NUMERICAL** (0–9) buttons for each menu. Press the **MENU - 3 - 1** in that order on the remote controller to select the **Edit Channel Lists** 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 Scramble Channel Lists are included as Channel List Groups.

1. Press the **OK** (OK) or \blacktriangleright button in group to display **Channel List Group**.
2. Select your desired **Channel List Group** using the $\blacktriangle/\blacktriangledown$ 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.

7. Channel List

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** on 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** on the right using the **►** button, and press the **OK (OK)** button.



Note:

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



4. Select/Unselect All Channels

You can select/unselect all channels at a time.

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

7.4 Edit Favourite Channels

You can edit Favourite channel or Favourite channel list.

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



Note:

- Press the **BACK** (BACK) or ◀ button to save the changes and return to the previous menu. Press the **MENU** (MENU) or **EXIT** (EXIT) button to exit the Menu screen.
- You can easily navigate all menu items using the assigned numerical button for each menu. Press the **MENU - 3 - 2** in order on the remote controller to select the **Edit Favourite Channels** menu.




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



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

7. Channel List

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 .



2. Move favourite channels





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

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



3. Rename a favourite channel list

You can rename Favourite channel list.


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

Select a favourite channel list

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



7. Channel List

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, **123** is switched into **123**. Press this button to order channels by number.

Unselect all the selected channels

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

7.5 Channel Change Mode

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

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



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

8. 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.

8.1 Viewing Programme Guide Information

You can view programme information for all channels.

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



1. Viewing Guide Information by Groups

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

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



8. Programme Guide

2. Viewing Programme Information Using Time Bar

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

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



Now Moves to the current programme where the cursor is located.

◀ Moves to the previous programme or 30 minutes before.

▶ Moves to the next programme or 30 minutes after.

◀◀ Moves to 2 hours before.

▶▶ Moves to 2 hours after.

◀Day Moves to one day before.


Day▶ Moves to one day after.

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

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

3. Reserving a Recording

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

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



8.2 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.

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

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



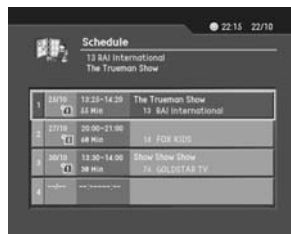
Note: The results of the finding programme may differ depending on the provided programme information.

8. Programme Guide

8.3 Viewing Reserved Programme

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

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



1. Editing a Reserved Programme

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

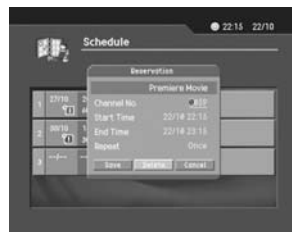


2. Adding a Reservation

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



9. 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.

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



1. Set Censorship

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

1. Select **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 for children under the age of 7.
12	Programmes are blocked for children under the age of 12.
15	Programmes are blocked for children under the age of 15.
18	Programmes are blocked for children under the age of 18.
Lock All	Programmes are blocked without considering the age level.

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

2. Set Allow Watch Time

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

1. Select **Allow Time Control** using the ▲/▼ button.
2. Select Enable or Disable **Allow Time Control** using the ► or **OK** (OK) button.

Disable You can watch a programme whenever you want regardless of Allow Time.

Enable You can watch a programme 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 **Cancel** button, and press the **OK** (OK) button.

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



9. Setting Preferences

3. Change Password

You can change the existing password into new one.

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



9.2 Language Setting

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

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



1. Menu/Audio/Subtitle Language

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

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

2. Audio Priority

You can select the priority of audio.

1. Select **Audio Priority** using the ▲/▼ button.
2. Select one option from **Language** or **Dolby Digital** using the ► or OK (OK) button.

Language

You can watch programme in the selected language.

Dolby Digital

You can listen sound in Dolby Digital mode.

3. Subtitle Display

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

1. Select **Subtitle Display** using the ▲/▼ button.
2. Select one option from **Auto** or **Manual** using the ► or OK (OK) button.

Auto

Subtitles are displayed automatically in the predefined subtitle language.

Manual

Subtitles are displayed in the language when you select the subtitle language by pressing the **SUBTITLE** (SUB) button on the remote controller.

4. Subtitle Font

You can select the Subtitle font.

1. Select **Subtitle Font** using the ▲/▼ button.
2. Select one option from **Variable** or **Fixed** using the ► or OK (OK) button.

Variable

Uses the horizontally variable Subtitle Font.

Fixed

Uses the fixed Subtitle Font.

9. Setting Preferences

9.3 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.Set Current Time

You can set the GMT Offset for current time.

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



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

The default item is **Auto**.

If GMT offset is Auto, it is automatically set depending on your country. However, if the time is NOT set properly, you can change GMT Offset to fit your local time.

2. Power On

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

1. Select **Power On** using the $\blacktriangle/\blacktriangledown$ button.
2. Select either **Enable** or **Disable** the Power On using the \blacktriangleright or **OK** (\odot) button.

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

Disable Not uses the Power On.

3. When you have selected **Enable**, enter **Channel No** and **Time** using the **NUMERICAL** (0-9) buttons, and press the **OK** (\odot) button.



3. Power Off

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

1. Select **Power Off** using the $\blacktriangle/\blacktriangledown$ button.
2. Select either **Enable** or **Disable** **Power Off** using the \blacktriangleright or **OK** (\odot) button.

Enable Uses the Power Off and sets the Power Off time.

Disable Not uses the Power Off.

3. When you have selected **Enable**, enter the **Time** using the **NUMERICAL** (0-9) button, and press the **OK** (\odot) button.

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

9.4 A/V Control

You can set Audio or Video Output Control.

1. Press the **MENU** (\odot) button.
2. Select **Preferences** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (\odot) or \blacktriangleright button.
3. Select **A/V Control** using the $\blacktriangle/\blacktriangledown$ button, and press the **OK** (\odot) or \blacktriangleright button.



9. Setting Preferences

1. TV-SCART

You can set TV SCART Output.

1. Select **TV-SCART** using the **▲/▼** button, and press the **OK (OK)** or **▶** button.
2. Select one option among **CVBS/RGB/S-Video** using the **▲/▼** button, and press the **OK (OK)** or **▶** button.

2. VCR-SCART

You can set VCR-SCART Output.

1. Select **VCR-SCART** using the **▲/▼** button, and press the **OK (OK)** or **▶** button.
2. Select one option from **CVBS/S-Video** using the **OK (OK)** or **▶** button.

3. Audio Output

You can set the Audio Output.

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

4. Screen Ratio

You can set the aspect ratio of your TV.

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

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 among **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 among **Auto/Pillar box/Full mode** using the **▲/▼** button, and press the **OK (OK)** button.

9.5 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 channel range 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

2. PAL

You can select the PAL standard.

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

3. UHF Offset

You can adjust fine tuning setting.

1. Select **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.

9. Setting Preferences

9.6 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 (OSD).

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 whether or not to display the scrambled icon in channel list.

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

On	Scramble icon displays in the channel list.
Off	Scramble icon disappears in the channel list.

10. Installation

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

10.1 Automatic Search

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

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.
4. product starts to search channels automatically



Search

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

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



10. Installation

10.2 Linear Search

You can search channels by setting the range of frequencies and other parameters. This will be more convenient than Manual Search for searching several channels.

1. Start Frequency and End Frequency

1. Select **Start / End Frequency** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Set the Start/End Frequency which the Linear Search start from/to in order to set the frequency range to seek.



2. Step

1. Select **Step** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Set the step frequency that will be added start frequency. Your product will search channels at the increasing frequency by step frequency. If you don't know the value, please select Auto



3. Network Search

1. Select **Network Search** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one among **Disable** / **Enable** / **User Define** using the ▲/▼ button, and press the **OK** (OK) button.
3. When you select **User Define** to set your desired network manually, enter network value using the **NUMERICAL** (0~9) button.



4. Append Symbol Rate

1. Select **Append Symbol Rate** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select the symbol rate using the ▲/▼ button, and press the **OK** (OK) button.
3. It will be displayed symbol rates that you selected. Product will search channels by all of symbol rates that you selected.



5. Search

You can complete the setting and start searching.

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

10. Installation

10.3 Manual Search

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

1. Frequency

1. Select **Frequency** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select desired frequency value using the ▲/▼ button, and press the **OK** (OK) button.
3. When you select **User Define** to set frequency manually, enter frequency value using the **NUMERICAL** (0~9) button.



2. Symbol Rate

1. Select **Symbol Rate** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select desired symbol rate value using the ▲/▼ button, and press the **OK** (OK) button.
3. When you select **User Define** to set symbol rate manually, enter symbol rate value using the **NUMERICAL** (0~9) button.



3. Network Search

1. Select **Network Search** using the ▲/▼ button, and press the **OK** (OK) or ► button.
2. Select one among **Disable / Enable / User Define** using the ▲/▼ button, and press the **OK** (OK) button.
3. When you select **User Define** to set your desired network manually, enter network value using the **NUMERICAL** (0~9) button.



4. 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 for Automatic Search. Please refer to Automatic Search.

10.4 Default Setting

Default Setting restores the product to the default settings

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

To perform Factory Default:

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



11. 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.

11.1 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 cable.

Over the Air (OTA) is simply an alternative method for downloading software versions. However, the manufacturer reserves the right to decide when and where this software update can take place by latest software versions over the cable. The software update 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.

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 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 update is completed.
4. When completing the software update, the equipment is automatically powered off and on again.

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

1. A message will be displayed to notify that new software is found.
2. Select **Yes** and press the **OK** (OK) button to start upgrading. Select **No** and press the **OK** (OK) button to return to the previous screen.



3. If using Automatic Update

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

1. Press the **MENU** (MENU) button.
2. Select **Installation** using the **▲/▼** button, and press the **OK** (OK) or **▶** button.
3. Enter **Password** using the **NUMERICAL** (0~9) buttons.
4. Select **Software Update** using the **▲/▼** button, and press the **OK** (OK) or **▶** button.
5. Select **Automatic Update** using the **▲/▼** button, and press the **OK** (OK) or **▶** button.
6. Automatically search for new software. Select **Stop** and press the **OK** (OK) button to finish Search.
7. When detecting update software, the following result is displayed. If new software is not found by Automatic, use Manual Update.
8. Select **Yes** and press the **OK** (OK) button to start updating. Select **No** and press the **OK** (OK) button to return to the previous menu without updating.



11. Software Update

- When completing the software update, the product is automatically powered off and on again.



4. Manual Update

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

- Press the **MENU** (Ⓜ) button.
- Select **Installation** using the **▲/▼** button, and press the **OK** (Ⓞ) or **▶** button.
- Enter **Password** using the **NUMERICAL** (0~9) buttons.
- Select **Software Update** using the **▲/▼** button, and press the **OK** (Ⓞ) or **▶** button.
- Select **Manual Update** using the **▲/▼** button, and press the **OK** (Ⓞ) or **▶** button.
- Set the **Frequency** which provides update software.
- Select the **Symbol Rate**. You can enter the specific value by selecting **User Define**

Note: How to setting parameters in **Manual Update** is the same as how to set parameters in **Manual Search**. Refer to **Manual Search**.

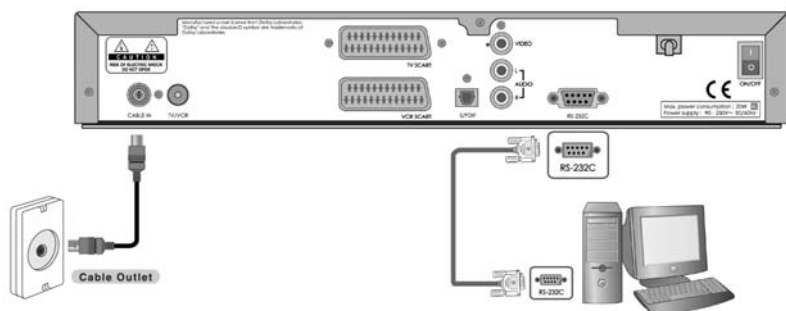
- Select **Search** and press the **OK** (Ⓞ) button to search software.
- It is displayed whether or not New Software exist.
If new software does not exist, press the **OK** (Ⓞ) button to return to the Manual Update Menu.
- Select **Yes** and press the **OK** (Ⓞ) button to start updating. Select **No**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



11.2 Software Update from PC

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

1. Download new software file(HDF files) equivalent for this recorder model from our website into your computer(<http://www.humaxdigital.com>).
2. Download and install download tool from our website into your computer.
3. Connect your PC to this recorder 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 recorder operating.



12. System Information

You can view all system information, signal strength, and common interface information.

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



12.1 Status

You can view System information

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



12.2 Signal Detection

You can view the signal strength and signal quality.

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



12.3 Conditional Access (for Conax embedded)

1. Product Ordering

This item is for IPPV and it will be reserved until software is updated. When the cursor is located in this menu, there will be no action even after selecting.



2. Subscription Status

This shows the authorised list of Conax channels in the smart card.

3. Event Status

This menu shows the channel ordered using PPV.

4. Change CA PIN

This lets you change the Smart Card PIN code.

5. Maturity Rating

This menu lets you set the level of authorization to watch the Conax scrambled channel. To watch the event beyond the set level, you should enter the Smart Card PIN code.




6. About Conax CA

It displays information about Conax CA - software version, interface version, card number, number of session, language, and conditional access system identification.

Note: The supported functions vary depending on CAS version.

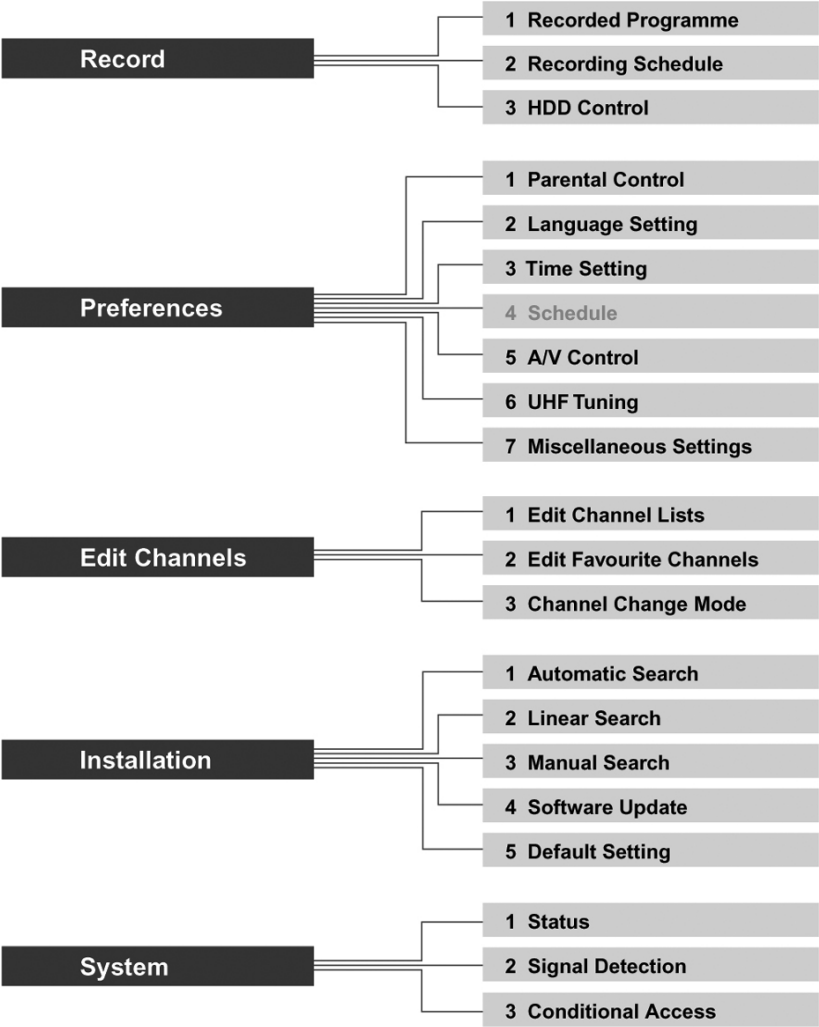
13. Games

This product provides various games for user's entertainment.

1. Press the **GAME** () button.
2. According to the instruction displayed on screen, you can enjoy the game using using the  button, and **OK** () button.

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

14. Menu Map



This recorder doesn't support a gray item.

15. Troubleshooting

15.1 Troubleshooting

Before contacting your local service, please read the following instructions. If the product does not work normally after completing the following troubleshooting, 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 Cable line is correctly connected to the equipment.
 - Check the brightness level of TV.
 - Check the channel is on air.
3. Poor picture & sound quality
 - Make sure there is no mobile phone or microwave oven near the equipment.
4. No or poor sound
 - Check the volume level of the TV and product.
 - Check the Mute status of the TV and product.
 - Press the Audio button to change the audio type.
5. Remote controller does not operate
 - To manipulate the equipment with remote controller, the remote controller's emitting part should directly point towards the receiving part of product's remote controller.
 - Check the battery of Remote controller.
6. Reservation is unavailable
 - Check whether it is not overlapped with other reservation.
 - Check whether the power switch is off.
7. Watching scrambled channel is not available
 - Check the correct Smart Card is plugged in.
 - Check the correct smart card is plugged in, and correctly plug the smart card again.
 - Check whether the Smart Card is damaged.

15.2 Error Message

Error message	Possible causes	What to do
No or bad signal	The cable is not connected.	Make sure the cable is connected properly.
	The cable may be damaged or defective.	Exchange the cable.
	The channel is not broadcasting.	Delete the channel, and search channels again. Search all channels again by performing default setting.
The channel is scrambled or not available.	The channel has signal, but no audio or video.	Confirm if the channel is currently on air.
	The channel is deleted by broadcasting company.	
	The channel is for data broadcasting.	Cannot watch the channel in usual way.
	Smart Card is not plugged in.	Plug in Smart Card.
	Wrong Smart Card is plugged in.	Plug in suitable Smart Card.
	Smart Card is not correctly plugged in.	Pull out the Smart Card, and plug it in again.
The audio is not available.	Smart Card is broken.	Replace the Smart Card.
	The channel has signal, but no Audio.	Press the AUDIO button to confirm if the channel has Audio.

16. Specification

Tuner and Channel	
Input Connector	IEC-type, IEC-169-2, Female
Frequency Range	47MHz to 862MHz
Input Impedance	75 Ω
Signal Level	-13 to +15 dBm
Demodulation	QAM
Input Symbol Rate	1.5-7Ms/s
Constellation	16-QAM, 32-QAM, 64-QAM, 128-QAM, 256-QAM
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	720 x 576
Audio Decoding	MPEG/MusiCam Layer I and II
Audio Mode	Single channel/Dual channel/Joint Stereo/Stereo
RF Modulator	
RF/Loop-through Output Connector	75 Ω , IEC 169-2
Output Channel	CH 21 ~ 69
TV standard	PAL I/G/B
Preset Channel	CH 36
Memory	
Flash Memory	2M bytes
Graphic (MPEG) DRAM	24M bytes
EEPROM	8K bytes

A/V and Data In/Out	
Video	RCA/SCART Video Output (CVBS, S-Video, RGB)
Audio R/L	RCA/SCART Volume and Mute Control (Resolution: 20 bits DAC, MAX, 2Vrms)
S/PDIF	Digital Audio Output, Fiber-Optic (Resolution: 20 bits)
RS-232C	Transfer Rate : 115,200bps, 9 pin Socket type
Power Supply	
Input Voltage	90~250V AC, 50/60Hz
Type	SMPS
Power Consumption	Max. 20 W
Standby Power	Max. 10W
Protection	Separate Internal Fuse. The input should be protected against lightning
Physical Specifications	
Size	370 mm x 60 mm x 262 mm
Weight (Net)	Around 3.5Kg
Operating Temp	0 °C to + 45 °C
Storage Humidity	5% ~ 95% RH(Non-Condensing)

17. Glossary

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.

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.

Programme Guide (Electronic Programme Guide, EPG)

An electronic programme guide provides on-screen listing of current and scheduled programmes. Multi-functional Set Top Box such as Personal Video Recorder allows the viewer to record an upcoming programme.

SCART

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

S/PDIF (Sony/Philips Digital Interface format)

Standard format for digital audio output. It outputs audio signals directly as digital audio signals without changing into analog signals because conversion into analog signals can degrade signal quality.

18. 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

18. Service and Support

Call Center

Humax Middle East Call Center (Dubai, UAE)

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

E-mail: callcenterME@humaxdigital.com

Open: Local Time in Dubai (GMT+4)

9:00 - 20:00 (Saturday - Thursday, close on Friday)

Support Language: English/Arabic

Humax Hotline (Germany)

Germany: 01805 778 870 (€ 0,12/Min)

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

Open: Local Time in Germany (GMT+1)

8:00 - 20:00 (Monday - Friday)

8:00 - 18:00 (Saturday)

Support Language: Deutsch/English

Humax BTCL Hotline (Premiere Model)

Germany: 01805-778900 (€ 0,12/Min)

Austria: 0900-900633 (€ 0,33/Min)

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