

User's Manual

HMS-1000S/EU

The default password is 0000.

For Your Safety

Safety Instructions

1. POWER SUPPLY

- Operate this product only from the type of power supply shown on the marking label. If you do not know the type of power supplied to your home, contact your local power company.
- Disconnect the power supply before you start any maintenance or installation procedures.

2. OVERLOADING

- Make sure that the wall outlet, extension cord and adapter have a sufficient power rating for the appliance. If not, this can cause an electric fire shock.

3. LIQUID

- Do not expose this product to liquids. Do not put objects filled with liquid on the product.

4. CLEANING

- Disconnect the product from the wall outlet before you clean it.
- Use a moist cloth to clean the product. Do not use solvents. Wipe the surface gently with a soft cloth as it may get scratched.

5. VENTILATION

- Make sure that the slots on top of the product are not blocked. It is necessary to have a sufficient airflow into the unit.
- Do not put electronic equipment on the product.
- Do not put objects on the product. This will block the ventilation or cause damage to the surface.

6. ATTACHMENTS

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

7. 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.

8. EXTRANEIOUS OBJECTS

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

9. REPLACEMENT OF PARTS

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

10. CONNECTION TO THE SATELLITE DISH LNB/CABLE TV SIGNAL/AERIAL

- Disconnect the power supply before you connect or disconnect the cable from the satellite dish/cable TV signal/aerial. If not, this can cause damage to the LNB/cable TV line/aerial.

11. CONNECTION TO THE TV

- Disconnect the power supply before you connect or disconnect the cable from the TV. If not, this can cause damage to the TV.

12. EARTHING (satellite only)

- Earth the LNB cable to the system earth for the satellite dish.

13. LOCATION

- Place the product indoors to avoid exposure to lightning, rain or sun. Do not place it near a radiator or heat register.
- Keep at least 10 cm clearance from any other appliances susceptible to electromagnetic influences such as a TV or a VCR.
- If you place the product on a rack or a bookcase, make sure that there is adequate ventilation and that you have followed the manufacturer's instructions for mounting.
- Do not place the product on an unstable surface where it can fall. A falling product can cause serious injury to a personnel and serious damage to the appliance.

14. Environment

- Attention should be drawn to the

environmental aspects of battery disposal.

- Care is required for the use of this apparatus in tropical and/or moderate climates.

Cautions and Warnings

1. To avoid damage of the power cord or plug

- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord.
- Make sure to disconnect the power cord while you hold the plug.
- Keep heating appliances as far as possible from the power cord to prevent the cover vinyl from melting.
- The mains plug, as a disconnection device, shall remain readily accessible by the user.
- All-pole main switch shall remain readily operable. (For products with power switch)

2. To avoid electrical shock

- Do not open the main body.
- Do not insert metal or inflammable objects inside the product.
- Do not touch the power plug with wet hands.
- Disconnect the power cord in case of lightning.
- Unplug the power cable before you install the antenna cable.

3. To avoid damage of product

- Do not use the product when it is out of order. If you continue to use the product when defective, this may cause serious damage. Make sure to contact the customer service centre if the product is out of order.
- Do not insert metal or alien substance into the slots for the modules or Smartcards. It may cause damage to the product and reduce its life span.

4. To avoid damage of the hard disk drive (PVR only)

- Do not move the product or turn the power off suddenly while the hard disk drive is running.
- The company shall not be liable for any corruption of data on the hard disk drive caused by carelessness or misuse of the user.

Contents

For Your Safety	3
Contents & Accessories.....	4
Contents	
Accessories	
Quick Start Guide	5
Front & Rear	
Remote Control	
Connections	
Wizard	
Watching TV	
TV Guide.....	12
Recording & Playback.....	14
Recording	
Playback	
Editing	
Media Center	
TV Apps	
General Settings	
Network Settings	

PVR Settings	
System Settings	
Channel Settings	
Search Channels [Fixed Antenna]	
Search Channels [SCD Antenna]	
Smart Search	26
Smart Search	
Appendix.....	32
Trouble Shooting	
HUMAX Customer Support	
Error Messages	
Using the Universal Remote Control	

Accessories



Remote Control
/ Batteries



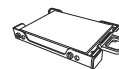
Quick Start Guide



HDMI Cable



Screws

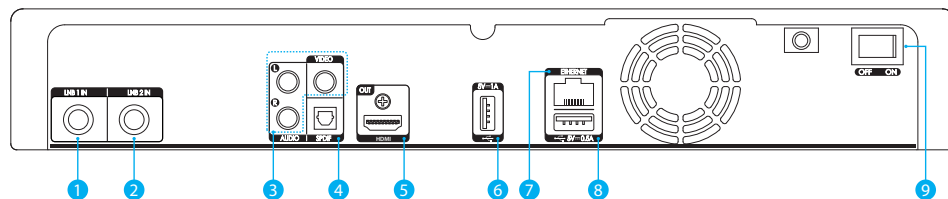
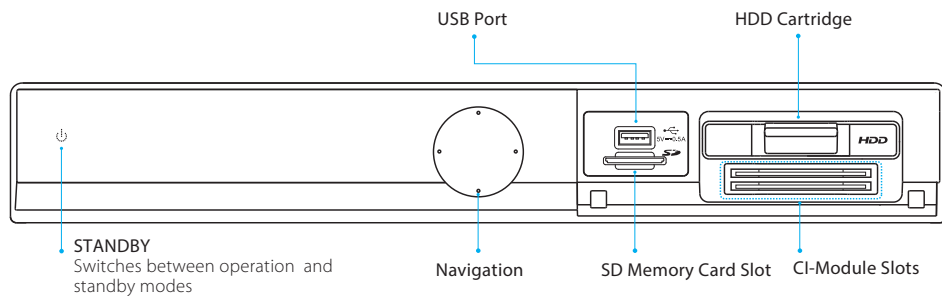


Detachable HDD
Cartridge

Note: Accessories may vary according to area.

Front & Rear

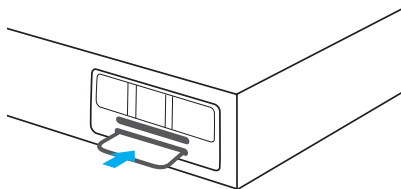
Note: The image may differ from the actual product.



- 1 **LNB 1 IN:** Connect a satellite antenna cable.
- 2 **LNB 2 IN:** Connect a satellite antenna cable.
- 3 **VIDEO/AUDIO:** Use an RCA cable to connect to the TV.
- 4 **SPDIF:** Use an SPDIF cable to connect to the digital audio device.
- 5 **HDMI:** Use an HDMI cable to connect to the TV.
- 6 **USB:** Connect a USB memory device.
- 7 **Ethernet:** Connect a LAN cable.
- 8 **USB:** Connect a USB memory device.
- 9 **Switch:** Power on/off.

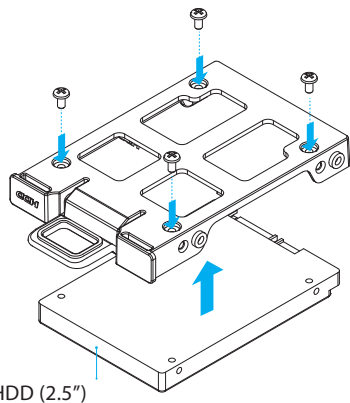
Inserting the CI-Module

1. Insert the Smartcard into the CI-Module.
2. Insert the CI-Module into the slot.



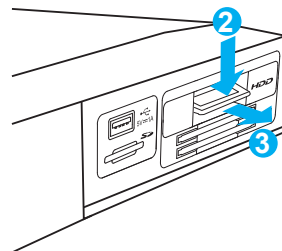
Assembling the HDD

1. Mount the HDD into the HDD cartridge.
2. Assemble the HDD with four screws on the bottom of the cartridge.



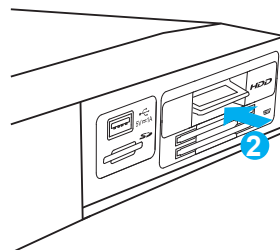
Detaching the HDD Cartridge

1. Turn off the power.
2. Press down the HDD cartridge gently until you hear a clicking sound.
3. Keep pressing down and pull out the HDD cartridge.



Attaching the HDD Cartridge

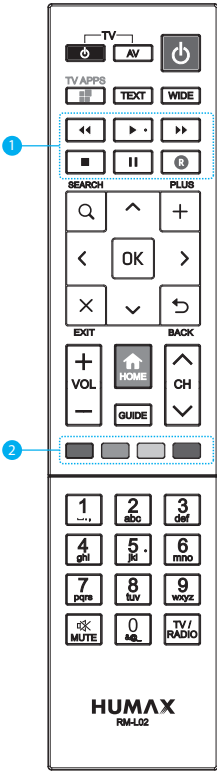
1. Turn off the power.
2. Push in the HDD cartridge until you hear a clicking sound.



Note:

- If you attach a HUMAX HDD cartridge during operation, the system may reboot automatically.
- The HUMAX HDD cartridge is inserted in the HDD slot upon purchase.
- HUMAX does not guarantee proper operation for all HDD or SD card models.

Remote Control

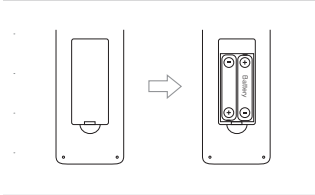


	TV STANDBY	Turns the TV on/off
	TV AV	Switches the input source of the TV
	STANDBY	Switches between operation and standby modes
	TV APPS	Goes to HUMAX TV APPS
	TEXT	Enters the digital text service
	WIDE	Sets the display format
1	Playback Control Buttons	◀◀ Fast Rewind, ▶▶ Play, ▶▶ Fast Forward, ■ Stop, Pause, ⏻ Record,
	SEARCH	Runs Smart Search
	PLUS	Displays option menus
	ARROW Buttons	Moves the cursor up, down, left or right
	OK	Select a menu or confirms the selection
	EXIT	Exits all On-Screen Display (OSD) screens
	BACK	Returns to the previous channel or the previous screen
	VOL +/-	Changes the audio volume
	HOME	Displays the HOME menu
	GUIDE	Displays the programme guide
	CH ^/v	Changes the channel or page
2	COLOUR Buttons	For interactive applications
	NUMERIC	(0-9)

	MUTE	Mutes audio
	TV/RADIO	Switches between TV and radio modes

Inserting Batteries

Insert the batteries matching the plus(+) and minus(-) at each end.

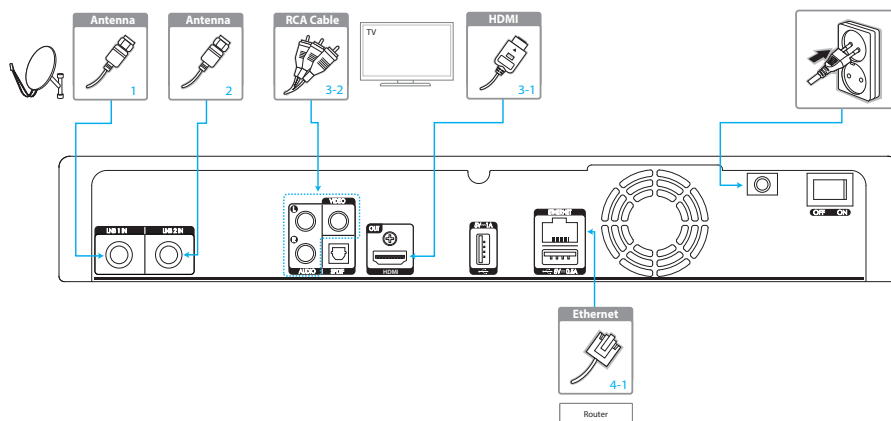


Note: You can check if the remote control batteries need to be replaced. Press the **HOME** button and the **STANDBY** button. Then, the **STANDBY** button and the **TV STANDBY** button will blink twice. A message indicating low battery is displayed.

Connections

This section describes how to connect your product to match your particular devices and to gain optimum signal quality.

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



Note:

- If you encounter any problems setting up your product, please contact your local retailer or HUMAX Customer Service.
- Connecting your TV directly to the audio/video output of the product will assure a more vivid picture and enhance your viewing enjoyment.

Connecting the Antenna

Connect the aerial to the **LNB1 IN** or **LNB2 IN**.

Connecting the TV

3-1 Using an HDMI cable

For the best picture quality, use an HDMI cable to connect to the TV.

3-2 Using an RCA cable

Using an RCA cable provides a lower resolution because the HD signal cannot be transmitted.

Note:

- Use an S/PDIF cable to connect to the audio system for digital audio.
- Programmes restricted by Digital Rights Management (DRM) may not be viewed via the HDMI cable. For such programmes, use a composite cable.

Connecting the Network

4-1 Connecting to the LAN

1. Use the Ethernet cable to connect the product and the LAN router.
2. Set the options for the LAN.
(Refer to **HOME>Settings>Network Settings** for details.)

Quick Start Guide

4-2 Connecting to the Wireless LAN

1. Go to **HOME>Settings>Network Settings>Configure WLAN** and set the options for the wireless LAN.

Note:

- We recommend the network connection over a direct LAN.
- Make sure that the distance between the Wireless LAN access point and the product is not too far away. This may lower the quality of service.

Powering On

1. Connect the power cord of the product to a wall outlet.
2. Ensure the **ON/OFF** switch at the rear of the product is switched to **ON**.
3. Power on by pressing the **STANDBY** button on the remote control or the **STANDBY** button at the front panel.

HDMI CEC

HDMI CEC (Customer Electronics Control) lets you to control the TV and HDMI CEC supported devices through the HDMI cable.

If your TV supports HDMI CEC, it will turn on or off automatically when the receiver is turned on or off. However, turning the TV on or off does not affect the receiver.

Wizard

The installation wizard operates automatically when you power on the product for the first time or do factory default in menu.

Note: If you exit the installation wizard without fully completing the channel searching procedure, you may not have all of the channels available. In this case, go to **HOME>Settings>Channel Settings>Search Channels** and search for more channels.

1. Language

Select the appropriate language from the list.

2. Network Connection

Make sure that the LAN cable is connected to the Ethernet port or the wireless LAN is connected. Configure the network setting.

3. Country

Select the country.

4. Channel Search

Select your satellite antenna cable connection first. Channel search will begin automatically. Save the found channels when the search is complete.

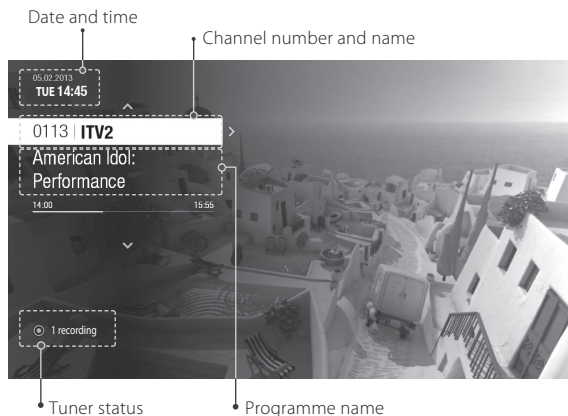
5. Result

The result of the installation wizard will show. Select **EXIT**.

Watching TV

Live TV

If you press the **OK** button while watching live TV, the Simple Guide appears. You can change channels, see what's on later or watch recorded programmes when available. Press the **EXIT** button to hide the Simple Guide.



Note:

- Press the **HOME** button to go back to the home menu wherever you are.
- Press the **▼** button to go to **RECENT** and see the recently watched contents. Press the **▲** button to go back to **HOME**.

Changing Channels

Press the **P▲/▼** button to view the channel list. Select a channel and press the **OK** button. You can also enter the channel number directly.

Changing Channel Group

Press the **PLUS** button while the channel list is displayed. Select a channel group and press the **OK** button.

Seeing What's On Later

Press the **►** button to see what's on later.

Watching Recorded Programmes

Press the **◀** button to watch recorded programmes.

Recorded programmes are accessible only when they are available.



Instant Recording

Press the **RECORD** button while the cursor is on a on-air channel to start instant recording. Press the **RECORD** button again to extend the recording duration. Press the **STOP** button to cancel recording.

Programme Detail

If you want to find out more about the programme you are watching, press the **OK** button. To see programme detail on recorded programmes and future programmes, press the **◀▶** button. Place the cursor on the programme thumbnail and press **OK**. You can watch an episode of a recorded programme on the left column or set reminders or recordings for future programmes.

Note: Press the **BACK** button to return to the previous screen. Press the **EXIT** button to exit.



Episode Icons		Programme Icons	
	Reminder (blue)		HD programme
	Playback possible		Rating information
	Currently recording		CAS programme
	Scheduled recording (red)		Blocked by Digital Recording Management
	Series recording		Locked programme
			Recorded programmes

Setting TV Options

Changing Resolution

Press the **PLUS** button while watching live TV and select **Resolution**.

Changing Display Format

Press the **PLUS** button while watching live TV and select **Display Format**.

Displaying Audio Language

Press the **PLUS** button while watching live TV and select **Audio Language**.

Displaying Subtitle

Press the **PLUS** button while watching live TV and select **Subtitle Display**.

Changing Aspect Ratio

Press the **WIDE** button.

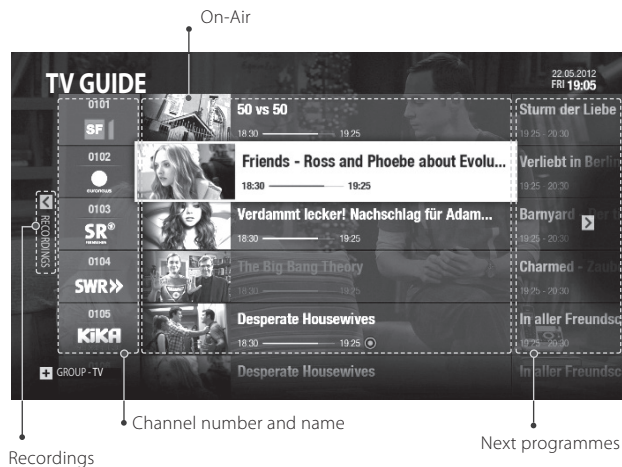
Displaying Teletext

Press the **TEXT** button.

TV Guide

You can access the TV guide in several ways.

- Press the **GUIDE** button.
- Press the **HOME** button and select **TV Guide**.



Note:

- Select a programme from next/recorded programmes and press the **OK** button to view the programme detail.

Watching Live TV

Select a programme using the **▲/▼** button and press the **OK** button. You can also enter the channel number directly.

Searching Programmes

Press the **SMART SEARCH** button while the cursor is on a programme to search more related contents. For more specific search, enter a keyword in the virtual keyboard.

Instant Recording

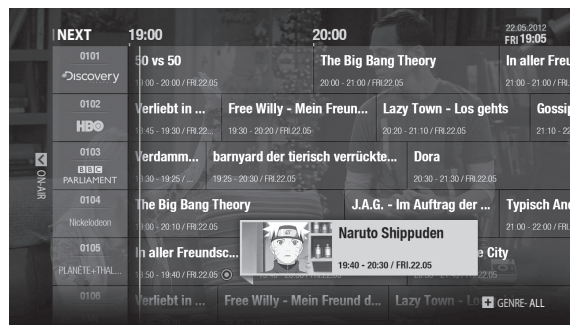
Press the **RECORD** button while the cursor is on an on-air channel to start instant recording. Press the **RECORD** button again to extend the recording duration. Press the **STOP** button to cancel recording.

Changing Channel Group

To sort the channels in groups, press the **PLUS** button. Select the channel group using the **▲/▼** button and press the **OK** button.

Seeing What's On Later





Press the **▶** button to see the next programmes.



TV Guide

Setting Reminders or Recordings

1. Select a programme and press the **OK** button
2. Select an episode in the left column using the **▲/▼** button.
3. Select **RECORD WHOLE SERIES**, **RECORD THIS PROGRAMME** or **SET REMINDER** and press the **OK** button.

	Reminder (blue)		Recording in process
	Recording (red)		Series recording

Note:

- If the programme conflicts with another programme, adjust the reservation appropriately.
- If the channel is locked, you will be prompted to enter your password to complete the reservation. The default password is 0000. If you have forgotten your password, please contact your local distributor.

Changing Programme Genre

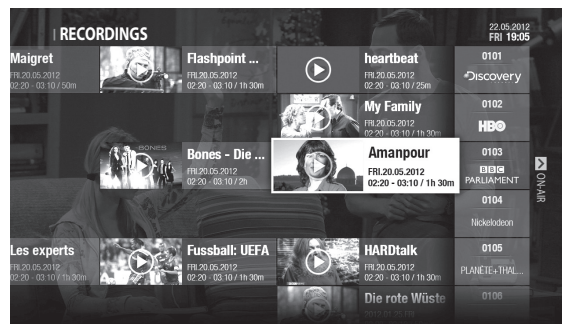
Press the **PLUS** button when the cursor is on a next programme to change a programme genre. Select a genre using the **▲/▼** button and press the **OK** button.

Quick Navigation

To move to the TV Guide of a certain date, long press the **◀/▶** button. Select a date using the **◀/▶** button and press the **OK** button.

Recorded Programmes

Press the **◀** button to watch recorded programmes. Select an programme you want to watch using the **▲/▼** button and press the **OK** button. Press the **▶** button to go back to the TV Guide of live TV.



Recording

You can record programmes to the hard disk drive and play back the recorded programmes whenever you want.

Connecting a Detachable Hard Disk Drive

When you connect a detachable hard disk drive for the first time, you will be prompted to format the hard disk drive. All data will be removed after formatting.

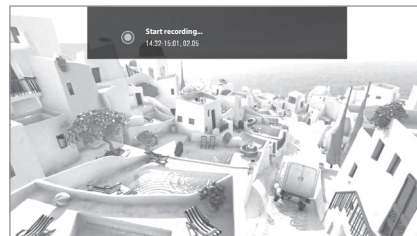
1. Turn off the power and push in the HDD cartridge until you hear a clicking sound.
2. Turn the power on. A message will appear. Select **YES** and press the **OK** button.
3. To format the storage manually, go to **HOME>Settings>PVR Settings>Storage** and select **Format Storage**.
Formatting may take several minutes depending on the size of the hard disk drive.

Instant Recording

To start recording the programme you are currently watching, press the **RECORD** button. Recording will start from the current broadcast point and the record banner will display for a few seconds.

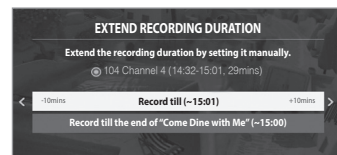
The recording will continue till the end of the current programme. However, if the programme ends within ten minutes, it will continue till the end of the next programme. When no programme information is provided, the recording will continue for two hours.

Press the **STOP** button to stop recording.



Changing Recording Duration

1. Press the **RECORD** button while recording.
2. Set the duration manually or select till the end of the current or next programme.



Scheduled Recording

You can easily schedule recordings in **TV Guide**, **Recordings** or **Programme Detail**.



Scheduling Recordings in TV Guide

Press the **GUIDE** button to go to **TV Guide**. Select a next programme and press the **Record** button.

Scheduling Recordings in Recordings

Go to **HOME>RECORDINGS** and select **SCHEDULE**.

- To add a schedule, select **ADD A SCHEDULE** and press the **OK** button.
- To delete, select a schedule and press the **PLUS** button. Select **Delete** and press the **OK** button.
- To reschedule, select a schedule and press the **PLUS** button. Select **Reschedule** and press the **OK** button. You can change the recording options.

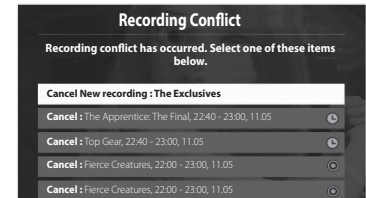
Scheduling Recordings in Programme Detail

Press the **►** button while watching a programme. Move the cursor to a thumbnail of a future programme and press the **OK** button. Select a recording option.

Resolving Recording Conflict

Recording Conflict

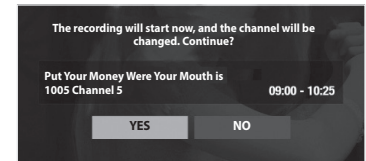
When you attempt to start recording a channel when four recordings are already in process, a recording conflict occurs. You need to cancel one of the recordings.



Tuning Conflict

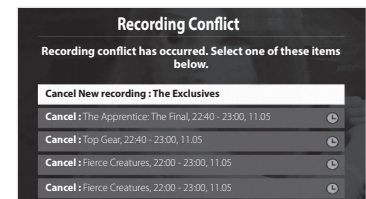
If a scheduled recording is about to start while you are watching a programme and a tuner conflict occurs, a record notice will pop up 30 seconds before the scheduled recording starts.

- **Yes** : The channel will change at the start time and the scheduled recording will start automatically.
- **No** : The scheduled recording will be canceled.



Scheduling Conflict

When a new scheduled recording conflicts with the previously set recording you will be prompted to select the programme you want to cancel.



Playback

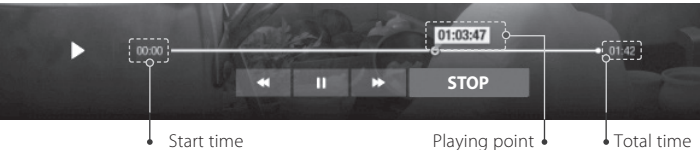
Playing Recordings

You can access to **RECORDINGS** and play the recorded programmes.

- Press the **HOME** button and select **RECORDINGS**.

Select a recording and press the **OK** button. The programme detail appears. Put the cursor on the recording and press the **OK** button. To delete, select **DELETE THIS PROGRAMME**.

If you press the **OK** or **PLAY** button during playback, the play bar appears.



You can also jump scenes using the ◀▶ buttons when the cursor is on the playbar. You can fast rewind, fast forward, pause or stop the recording during playback. If you stop playback and play it again later, you will be asked to watch from where you left off or to watch from the beginning. The playbar is displayed when you press the playback control buttons during playback. You can press the buttons on the remote control or select the keys on the screen and press the **OK** button.

Playback Controls

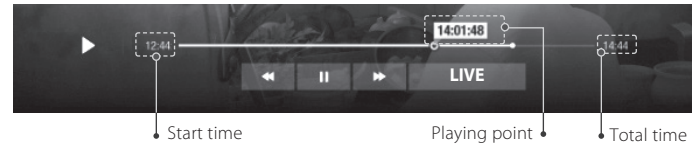
	Play
	Pause
	Fast rewind
	Fast forward
	Stop

Pausing and Rewinding Live TV (TSR)

Time Shifted Recording (TSR) allows you to pause a live broadcast and return later where you left off.

The TSR function temporarily saves the programmes you watch to the hard disk drive automatically.

TSR lasts for 90 minutes.



To pause the programme you are watching

Press the **PAUSE** button. Press the **PAUSE** button to return. Pause makes a time gap between the live broadcasting point and watching point. The time gap is equivalent to the period the programme has been paused. Press the **FAST FORWARD** button to close the time gap and go to live programme.

To rewind and watch missed scenes

Press the **FAST REWIND** button. Press the **PLAY** button at the point where you want to start watching. You can pause, rewind or fast forward within the programme. You can fast rewind back to the start point. If you reach the start point while rewinding, the programme automatically plays at normal speed.

To fast forward and skip scenes

Press the **FAST FORWARD** button. You can fast forward only when there is a time gap between the current watching point and the live broadcasting point caused by pause or rewind. You can fast forward up to the current broadcasting point. If you reach the live broadcasting point while fast forwarding, the programme automatically plays at normal speed.

Editing

Editing Recordings

The recordings are sorted in **PROGRAMME**, **CHANNEL**, **DAY OF WEEK** or **STORAGE** order.

Note: **STORAGE** menu appears only when a detachable HDD is connected.



Select a recording and press the **PLUS** button.

Delete	Select Delete and press the OK button.
Copy	Select Copy and press the OK button. Select a storage and press the OK button.
Move	Select Move and press the OK button. Select a storage and press the OK button.
Lock/Unlock	Select Lock/Unlock and press the OK button. To unlock, enter the password.
Select	Mark the recordings you want to select.
Select All	Select Select All and press the OK button. Select Cancel to release.

Managing Recording Schedule

Adding Schedules

Select **ADD A SCHEDULE** and press the **OK** button. Set the options and select **OK**.

Deleting Schedules

Select a schedule and press the **PLUS** button. Select **Delete** and press the **OK** button.

Rescheduling

Select a schedule and press the **PLUS** button. Select **Reschedule** and press the **OK** button. Set the options and select **OK**.

Programme Detail

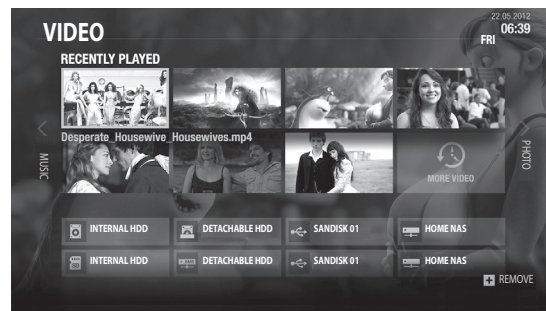
Select a schedule and press the **OK** button to see the programme detail.

Note: Go to **Watching TV>Programme Detail** to see more.

Media Center

You can access your recent media files directly. Play media files from any storage or network server and watch them again later.

- Press the **HOME** button and select **Media Center**.



Direct Access to Video/Photo/Music Files

- Select a storage or network server. The recently played files will appear.
- Move the cursor **◀/▶** to move from video/photo/music files.
- To remove a file, select the file and press the **PLUS** button.

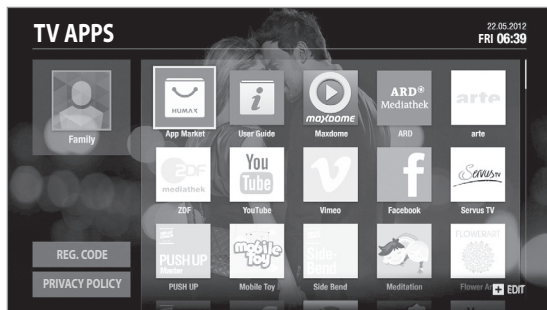
TV Apps

Download TV applications and enjoy them on your TV.

It is recommended to create an account to use all services TV APPS provides.

To use TV APPS, connect to the internet first.

- Press the **HOME** button and select **TV APPS**.



Note:

- You may need to agree to the Privacy Policy before using certain apps.
- The types of apps may differ depending on your region.

Creating an Account

Go to myhumax.net and create an account.

Signing In with Account

Place the cursor on the user profile in the left column and press the **OK** button.

Select your user profile and enter the user password.

Moving Apps

Select an app and press the **PLUS** button. Select **Move** and move the app to the location you want using the navigation buttons.

Deleting Apps

Select an app and press the **PLUS** button. Select **Delete** and press the **OK** button.

Signing In to SNS


To use SNS apps, you have to create an account first. Go to myhumax.net and create an account. Sign in to your SNS account with the ID and password you have registered in myhumax.net.

Downloading Apps

Select **App Market** and press the **OK** button. Select the app you want to download.

Note: TV APPS is powered by independent service providers and the services are subject to change without notice. The services may be discontinued temporarily or permanently without further notice. HUMAX is not responsible for the content or the discontinuity of the services. Available services may vary depending on countries.

General Settings

 **HOME** > Settings > General Settings

Parental Control

- **Maturity Rating:** You can block the programme if the programme is above the age limit.
- **Change Password:** Enter a new password.
- **Block Channel Settings:** Set **On** if you want to block access to the Channel Settings you have previously made.

Note:

- Enter the password to view the blocked programmes.
- The default password is 0000. If you have forgotten your password, please contact your local distributor.

Language Setting

You can set the system language, audio language or subtitle language.

Video Setting

- **Screen Ratio:** You can select the screen ratio of your TV.
- **Display Format:** You can select the display format according to the screen ratio of your TV.
- **Resolution:** You can set the resolution of the screen.

Audio Setting

- **S/PDIF:** You can select the digital audio signal output.
- **HDMI:** You can select the digital audio signal for HDMI output.
- **Audio Type:** You can select the audio type.
- **Lip-Sync Delay:** You can adjust the sound difference between audio and video.


On-Screen Display

- **Info Display Time:** You can set the duration the Simple Guide is displayed whenever you change the channel.
- **Subtitle Font:** You can set the subtitle font.

Privacy Policy

Select **Accept** if you agree to send HUMAX your user data which will be used for improvement of both product and service.

Network Settings

 **HOME** > Settings > Network Settings

Configuring LAN

1. Select **Configure LAN**.
2. Select your IP configuration type between **DHCP** and **Manual**.
 - **DHCP:** If you use a router or modem that has a DHCP (Dynamic Host Configuration Protocol) server function, select **DHCP**. The IP address will automatically be determined.
 - **Manual:** If there is no DHCP server on the network and you want to set the IP address manually, select **Manual**. Enter the values for IP Address, Netmask, Gateway Address and DNS Address.
3. Select **APPLY** to connect to the selected network and press the **OK** button.

Note:

- When entering the IP address manually, enter 3 digits in a row.
- The network is connected by wired LAN when both wireless and wired LAN are activated.
- HUMAX recommends the network connection over a wired LAN.

Configuring Wireless LAN

1. Select **Configure WLAN**.
2. Select the wireless LAN network and press the **OK** button.
3. Press the **BACK** button to save.

Note: If you choose a locked wireless network, you need to enter the password to proceed.

Network Connection Status

Displays the connection status of the local area network or internet. Select **RETRY** if either network is disconnected.

Network Server

- **Network Server:** Set to **On** to share the live broadcast, recordings and media files saved in the internal HDD with other products that support home network media player.
- **Rename Server**
- **Server Status**
- **Server Activation Time:** When **Server Activation Time** is set to **On**, the network server remains active during the time period you have entered even when the product is in standby mode. You can share live broadcasts, recordings and media files without turning the product on.

File Share

- **SAMBA Server:** When **SAMBA Server** is set to **On**, the internal HDD can be accessed as a network disk drive from your PC. You can copy the video, music, photo files from the internal HDD to the PC storage.
- **FTP Server:** When **FTP Server** is set to **On**, you can copy the video, music, photo files from the internal HDD to the PC storage using the FTP client programme.
- **Password:** If Password is set, you can access the internal HDD only by entering the password.
- **Download Folder:** When Download Folder is set to **Enable**, you can copy the video, music, photo files in the PC to the download folder in the internal HDD.

Bluetooth

Set to **On** to list the bluetooth devices such as headsets or speakers and detect more if available. If the device is connected, the audio is output via the connected device only.


SAT>IP

For stable performance of SAT>IP features on the client device, the system must enter SAT>IP mode. Note that you cannot watch or record programmes in SAT>IP mode. Visit www.satip.info for more information.

- **Enter SAT>IP Mode:** All recordings or HUMAX live TV streaming must be stopped to enter SAT>IP mode.
- **SAT>IP Notification:** If the SAT>IP Notification menu is set to **On**, a notification message will be displayed whenever the SAT>IP client device is in use.

Note: Performance of SAT>IP may be limited depending on a client device.

PVR Settings

 **HOME** > Settings > PVR Settings

IP EPG

Set to **On** to enjoy advanced EPG services over the internet.

Remote Recording

Remote Recording allows you to set up recordings on your set-top box from your PC or mobile devices. Go to myhumax.net and create an account and register your set-top box. To register your set-top box, you need a registration code for certification. Select **Retrieve Registration Code** and press the **OK** button to retrieve the registration code and register your set-top box in the website.

- **Remote Recording:** Set to **On** to receive the scheduled data you have scheduled remotely using a mobile device or PC.

Settings

- **Update Period:** Select the period the remote recording data is updated.
- **Update Period:** Select the period the remote recording data is updated.
- **Update Interval:** Select the update interval the remote recording data is updated.
- **Retrieve Registration Code:** Press the **OK** button to retrieve the registration code and register your product in the website.

Note: IP EPG menu must be set to **On** to use Remote Recording.

Recording Options

- **Start/End Padding Time:** Set the recording padding time.
- **Auto Descrambling in Standby:** Set to **On** to descramble scrambled recording files during the night time.

Playback Options

- **Series Play:** Set to **On** to playback all episodes of a programme successively.
- **Instant Replay Time:** Select the replay time
- **Skip Forward Time:** Select the skip time


Storage

You can check the capacity of each storage or format the storage when necessary.

- **Internal HDD:** You can run the HDD test.
- **External Devices:** To remove the storage, select **Remove Storage Safely** first.

Note: All files in the storage will be deleted after formatting.

System Settings

 **HOME** > Settings > System Settings

System Information

You can view the system information. Select **CHECK NEW SOFTWARE** to see if new software is available.

Power Timer

You can set the time the receiver powers on or powers off.

Power Management

- **Automatic Power Down:** Select **On** to enter standby mode automatically if no user interaction occurs for 3 hours.
- **Power Saving in Standby:** Select **On** to inactivate certain functions and reduce the power consumption in standby to below 0.5W.

Note: A message will display 2 minutes before the product enters standby mode. If you ignore this message, the product enters standby mode automatically.

Common Interface

You can view the Common Interface information.

Factory Default

1. Select **Factory Default**.
2. A popup will appear. Select **YES**.
3. You will be prompted to enter the password. Enter the password.

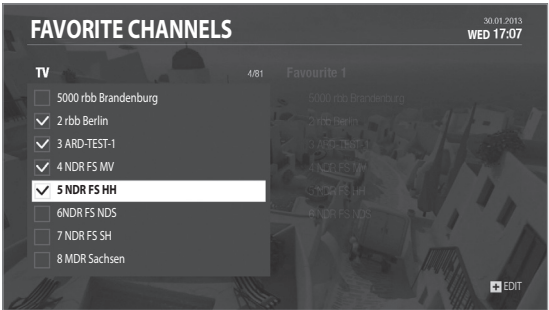
Note: The default password is 0000. If you have forgotten your password, please contact your local distributor.

Warning: Note that once you perform factory default, all user configured data will be reset. Shortly after you complete the factory default, the installation wizard will appear automatically.

Channel Settings

Setting Favourite Channels

 **HOME** > Settings > Channel Settings > Favourite Channels



Note:


- Press the **EXIT** button to exit. Press the **BACK** button to return to the previous screen.

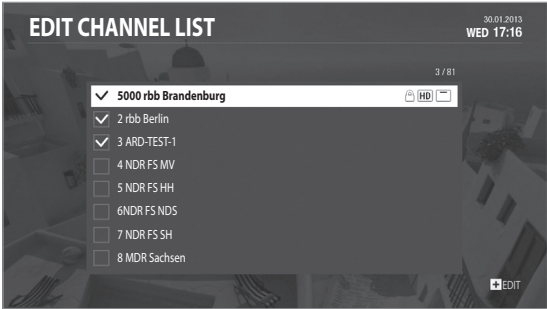
Select the channels from the left column using the **▲/▼** and **OK** button and then press the **PLUS** button.

Add	Adding to Favourite Channels Select Add To Favourite and press the OK button.
Remove	Removing from Favourite Channels Select Remove and press the OK button.
Move	Moving Favourite Channels Select Move and press the OK button. Move the channel using the ▲/▼ and OK button.




Select/Deselect All	Select Select/Deselect All and press the OK button.
Change Group	Changing Favourite Group To list the channels of other favourite groups, press the PLUS button and select Change Favourite . Select the group you want using the ▲/▼ and OK button.
Rename Group	Renaming Favourite Group To rename favourite groups, press the PLUS button and select Rename Favourite . Select the group you want to rename using the ▲/▼ and OK button. Enter the name in the keyboard.

Editing Channel List

 **HOME** > Settings > Channel Settings > Edit Channel List



Note:


-  : Locked channel,  : HD channel,  : Scrambled channel (CAS icons)
- Press the **EXIT** button to exit. Press the **BACK** button to return to the previous screen.

Settings

Select the channels using the ▲/▼ and OK button and press the PLUS button.

Delete	Select Delete and press the OK button.
Lock/Unlock	Select Lock/Unlock and press the OK button. To unlock, enter the password.
Rename	Select Rename and press the OK button. Enter the name in the keyboard.
Move	Select Move and press the OK button. Move the channel using the ▲/▼ and OK button.
Select/Deselect All	Select Select/Deselect All and press the OK button.
Change Group	To list the channels of other groups, press the PLUS button and select Change Group . Select a group you want using the ▲/▼ and OK button.

Editing Preferred List

 **HOME** > Settings > Channel Settings > Edit Preferred List

Edit Preferred List will help you manage the channels 1~99 in the preferred list.



Note:

- You must enter a PIN code to access this menu. The default PIN code is 0000.
- Press the **EXIT** button to exit. Press the **BACK** button to return to the previous screen.
- The channels that are automatically numbered by the broadcaster cannot be deleted or moved.

Add	<p>Adding to Preferred Channels</p> <p>Select the channels to add from the left column using the ▲/▼ and OK button and then press the PLUS button. Select Add and press the OK button.</p>
Remove	<p>Removing from Preferred Channels</p> <p>Select the channels to remove from the right column using the ▲/▼ and OK button and then press the PLUS button. Select Remove and press the OK button.</p>
Move	<p>Moving Preferred Channels</p> <p>Select the channels in the right column using the ▲/▼ and OK button and then press the PLUS button. Select Move and press the OK button. Move the channel using the ▲/▼ and OK button.</p>
Change Group	<p>Changing Channel Group</p> <p>To list the channels of other channel groups, press the PLUS button and select Change Group.</p>
Select/Deselect All	Select Select/Deselect All and press the OK button.


Signal Test

 **HOME** > Settings > Channel Settings > Signal Test

You can check the signal strength and quality of the searched channels.

Search Channels [Fixed Antenna]

Search Channels allows you to configure your antenna and search the TV and radio channels.

 **HOME** > Settings > Channel Settings > Search Channels

- 1 Press the **PLUS** button and select **Antenna Type**.
Select **Fixed Antenna** and press the **OK** button.
- 2 Select **Switch Type** and select **LNB Only** or **DiSEqC**.
- 3 Select a satellite figure and press the **OK** button.
 - **Satellite:** Select the satellite.
 - **LNB Frequency:** Select the LNB frequency.
 - **22kHz Tone:** Select **On** or **Off**.
 - **DiSEqC:** Select the DiSEqC switch.
 - **Test Transponder:** Check the signal status of each transponder and select the one with the best quality.
 Select **OK**.
- 4 Select **Transponder** under the activated satellite figure and press the **OK** button.
Select a value in the transponder list.
- 5 Select **SEARCH** and press the **OK** button. The found channels will be listed.
- 6 When the search is completed, select **SAVE** and press the **OK** button.

Note:

- Select **User Define** to enter the options directly.
- Select **STOP** and press the **OK** button to stop the channel search.
- All channels will be deleted if you change the antenna type.
- The default password is 0000. If you have forgotten your password, please contact your local distributor.

Changing Search Option

- **Network Search:** Select **On** to search more channels based on the network information of the selected transponder.
- **Scrambled Type:** All – FTA – CAS
- **Channel Type:** All – TV – Radio

Select **OK** and press the **OK** button.



Search Channels [SCD Antenna]

Single Cable Distribution enables the delivery of broadcast programming over a single cable to multiple users eliminating the numerous cables required to support other electronics devices. If you are using more than one satellite receiver, set one receiver at a time and turn off the others while setting. Refer to the satellite antenna manual for details.

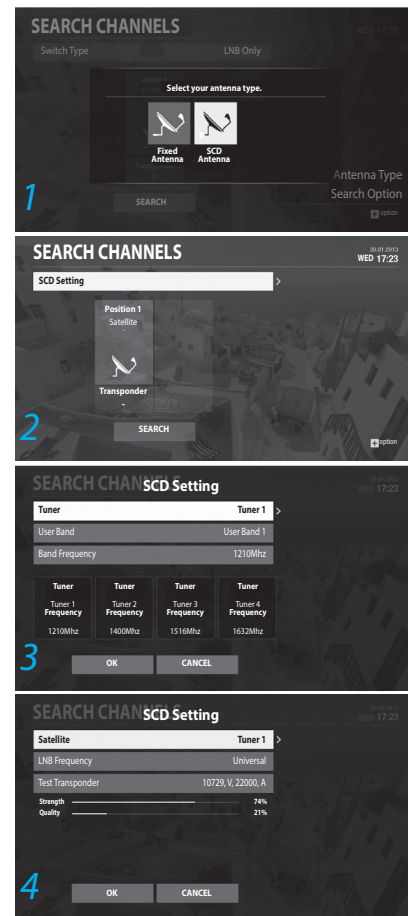


HOME > Settings > Channel Settings > Search Channels

- 1 Press the **PLUS** button and select **Antenna Type**.
Select **SCD Antenna** and press the **OK** button.
- 2 Select **SCD Setting** and press the **OK** button.
 - **Tuner:** Select from Tuner 1~4.
 - **User Band:** Select from User Band 1~8.
 - **Band Frequency:** The frequency is set based on the channel of tuner. Select **OK**.
- 3 Select a satellite figure and press the **OK** button.
 - **Satellite:** Select the satellite.
 - **LNB Frequency:** Select the LNB frequency.
 - **Test Transponder:** Check the signal status of each transponder and select the one with the best quality. Select **OK**.
- 4 Select **Transponder** under the activated satellite figure and press the **OK** button.
Select a value in the transponder list.
- 5 Repeat the steps above to set more satellites.
- 6 Select **SEARCH** and press the **OK** button. The found channels will be listed.
- 7 When the search is completed, select **SAVE** and press the **OK** button.

Note:

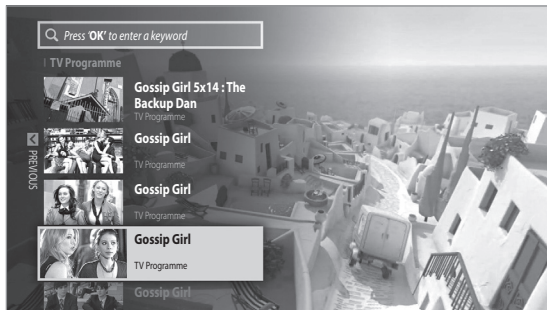
- Select **User Define** to enter the options directly.
- Select **STOP** and press the **OK** button to stop the channel search.
- All channels will be deleted if you change the antenna type.
- The default password is 0000. If you have forgotten your password, please contact your local distributor.
- The user band and band frequency of each tuner has to be set differently.



Smart Search

Smart Search Button

Smart Search helps you search episodes of your favourite programmes and look up related programmes by a simple button press. You can select a programme and play back immediately.



To start smart search, press the **SEARCH** button

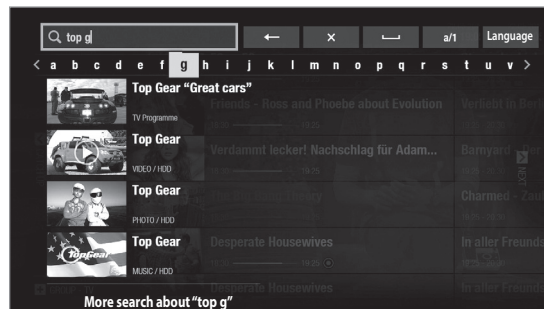
- While watching live TV
- Playing back a recorded programme
- When the cursor is on a programme in TV Guide

Note: If you press the **SEARCH** button while the cursor is not on a programme, Search by Keyword appears.



Search by Keyword

To search related contents such as channels, applications and media files also, put the cursor on the search window and press **OK**. Enter a keyword in the virtual keyboard.



Note: You must enter at least 3 characters to search programmes or media files. If you enter less than 3 characters, channel names and app names are searched.

Media List

You can play video, music or photo files stored in USB storage devices or home network devices.

 **HOME** > Media Center

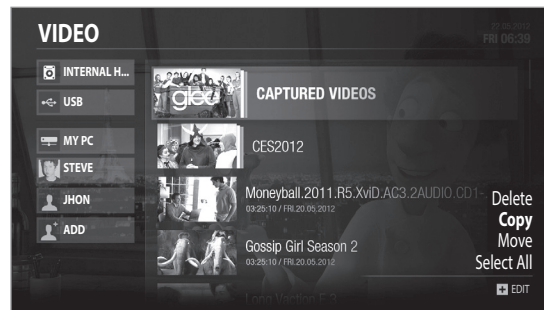
Note:

- Make sure to connect the power if you use the USB storage device which requires an external power supply.
- If the USB storage device is connected in standby mode, it will automatically be recognised when the product is turned on.
- Do not disconnect the USB storage device during playback, the stored files or the USB storage device may be damaged.
- USB storage devices below USB 2.0 are supported, but they may not work properly.
- HUMAX cannot guarantee compatibility with all USB storage devices and assumes no responsibility for any loss of data.

Managing Video Files

You can play video files stored in the connected USB storage device or the home network devices.

 **HOME** > Media Center > Video



Note:

- Make sure that the USB storage device or network is connected correctly.
- Some playback control buttons may not function depending on the contents.
- Press the **BACK** button to go back to the previous menu.
- If the file is in a network storage, you cannot edit the files.
- If you copy or move a file to an external device, the file is copied to the root folder of the external device.
- Copying or moving files may not be possible if the storage is full or if the file size is too large.








Selecting Storage

Move the cursor using the **▲/▼** buttons on the left column.

Playing Video Files

Select a storage and then a group. Select a file and press the **OK** button.

Media List

	Play
	Pause
	Fast rewind
	Fast forward
	Stops playback
	Exit and go to the previous screen
	Subtitle options

Deleting Video Files

Select a file and press the **PLUS** button. Select **Delete** and press the **OK** button.

Copying Video Files

Select a file and press the **PLUS** button. Select **Copy** and press the **OK** button.
Select a storage and press the **OK** button.

Moving Video Files

Select a file and press the **PLUS** button. Select **Move** and press the **OK** button.
Select a storage and press the **OK** button.

Selecting All

Press the **PLUS** button. Select **Select All** and press the **OK** button.

Changing Subtitle Option

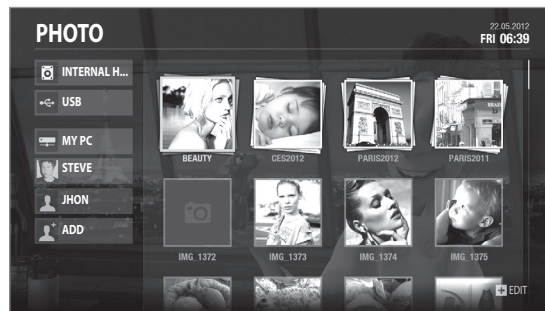
When the playbar is on the screen, press the **PLUS** button.
Set the subtitle options.

Note: Subtitles may not be available for some video files played over the network.

Managing Photo Files

You can play photo files stored in the connected USB storage device or the home network devices.

 **HOME** > Media Center > Photo



Note:

- Make sure that the USB storage device or network is connected correctly before using Media List.
- Press the **BACK** button to go back to the previous menu.

Selecting Storage

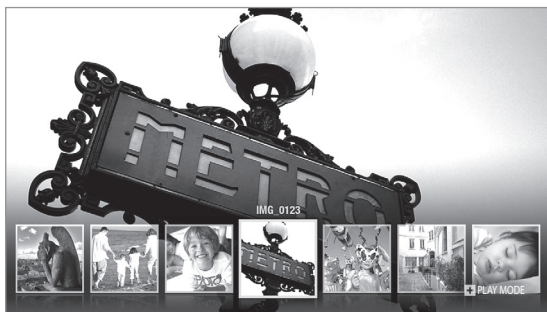
Move the cursor using the **▲/▼** buttons on the left column.

Media List

Photo Slideshow

Select a storage and then a group. Select a file and press the **OK** button. All files in the group will play successively.

Press the **OK** button to pause slideshow and display the photos in thumbnail list. Press the **OK** button again to continue slideshow.



	Play
	Pause
	Move cursor to left/right
	Exit slideshow and go to the previous screen
	Play mode

Changing Play Mode

Press the **PLUS** button to set the slideshow speed or play music files during slideshow.

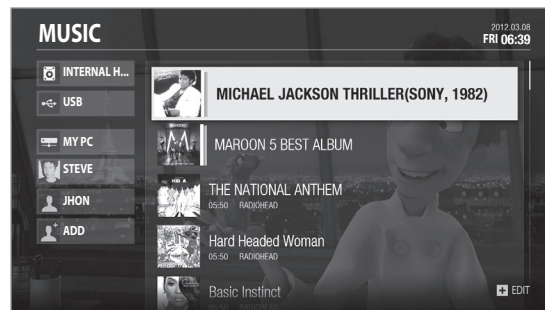
- **Slideshow Speed:** Select the display time per photo in slideshow.
- **Music Play:** Select **On** to play music files during slideshow.

Note: You can delete, copy, move the photo files and change the storage. Refer to **Managing Video Files**.

Managing Music Files

You can play music files stored in the connected USB storage device or the home network devices.

HOME > Media Center > Music



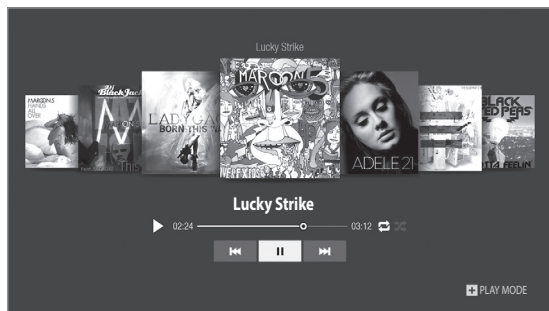
Note:

- Make sure that the USB storage device or network is connected correctly.
- Press the **BACK** button to go back to the previous menu.

Media List

Play List

Select a storage and then a group. Select a file and press the **OK** button. All files in the group will play successively.



	Play
	Pause
	Move cursor to left/right
	Move the cursor from the music files to the play buttons
	Exit music player and go to the previous screen
	Play mode

Note: You cannot delete or move music files in the playlist.

Changing Play Mode

Press the **PLUS** button to change the play mode options.

- **Repeat Option:** Set the repeat option in the play list.
- **Play Mode:** Select **Normal** or **Shuffle**.

Note: You can delete, copy, move the music files and change the storage. Refer to **Managing Video Files**.

Connecting to Network Server

To access files from the network server, select **Network** from the left column. Make sure the network is connected.

If the network server is SAMBA server, you may have to enter the ID and password of the PC to access to the shared folders.

Note:

- To use the SAMBA server, make sure that the settings in your Windows7 PC is ready to connect to the SAMBA server.
- You can share your media files even when you are away from home. Go to **HOME>Settings>Network Setting>Network Server** and set **Server Activation Time to On**.

Controlling the USB Device

Connecting the USB Device

Connect a USB device to the USB port on the front or rear of the product. When the device is detected, select the type of media file.

Ejecting the USB Device

Select a USB device from the left column and press the **PLUS** button. Select **Eject** and press the **OK** button to remove the USB device safely.

Renaming the USB Device

Select a USB device from the left column and press the **PLUS** button. Select **Rename** and press the **OK** button. Enter the name in the keyboard.

Deleting All Files from the USB Device

Select a USB device from the left column and press the **PLUS** button. Select **Delete All Files** and press the **OK** button.

Using the Home Network Media Server

Your receiver is a home network compliant device capable of sharing media files with other home network compliant devices such as the PC, NAS or another HUMAX PVR when they are connected to the same home network.

You can play the video, music or photo files that are stored in your PC on your receiver when the PC is connected to the same home network.

Connecting to Home Network

1. Connect the receiver to your home network by connecting to the router.
2. Press the **HOME** button and go to **Settings>Network Settings**.
3. Set the options for the LAN or Wireless LAN.

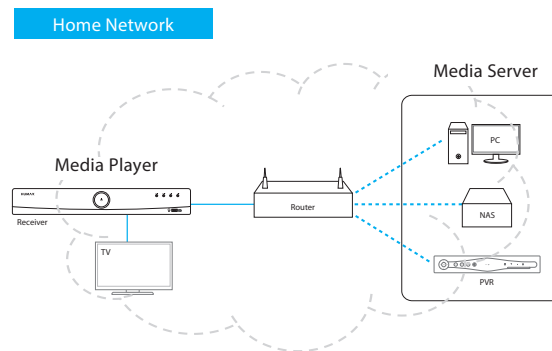
Playing Files On Your Receiver

: Files stored in the PC, NAS or another HUMAX PVR

1. Press the **HOME** button.
2. Select **Media Center**.
3. Select video, photo or music.
4. Select the storage using the ▲/▼ buttons on the left column.
5. Select the files you want to play.

Note:

- Home network media server software such as Window Media Player 12 must be installed and executed on the PC to share media files stored in the PC. The media files must be stored in the library folder of the PC.



Trouble Shooting

Before contacting the customer service centre, make sure to read the tips below carefully. If the problem persists after you complete the following procedure, please contact HUMAX customer service for further instructions.

1. No message is displayed on the front display. (The product will not switch on.)

- Check the main power cable and make sure it is plugged into a suitable power outlet.
- Check that the mains supply is switched on.
- Connect the power cable to a different power outlet.
- Check that the power switch is on at the rear of the product. (where applicable)

2. No picture

- Make sure that the product is powered on and in operation mode. (Press the STANDBY button)
- Make sure that the AV cable is firmly connected to the TV.
- Make sure that the antenna cable is properly connected to the product.
- Be sure to activate channel search.
- Check the brightness level of the TV.
- Check if the channel is currently on air.
- Make sure that STB or PVR is selected as input on the remote control.
- Make sure that the antenna setting in the menu is correct. (satellite only)

3. Poor picture/sound quality

- Make sure there is no mobile phone or microwave oven near the product.
- Keep the power cable and the RF cable apart from each other.

Note: If the antenna is covered with snow or the RF is weakened by heavy rain, the condition of the sound and picture may temporarily be poor. However, poor sound and picture quality due to weather conditions cannot be accepted as malfunction of product.

[Satellite]

- Change the satellite dish for a larger one as this will increase the signal levels received.
- Replace the LNB with a lower noise factor in case the noise factor is too high.
- Replace the LNB with a new one in case it is damaged or out of order.

- Install the antenna in an obstacle-free place.
- Check the signal levels and adjust your antenna if the level is too low. The signal level may be affected by weather conditions.

4. No or poor sound

- Check that your AV cable is connected correctly.
- Check the volume levels of your TV set and the product.
- Check if the product or TV is on mute.
- Check audio type or soundtrack option. (where applicable)

5. Remote control does not operate.

- To control the product, the top end of the remote control should point directly towards the receiving part of the product.
- Remove and reinsert the batteries in the remote control.
- Replace the batteries in the remote control for a new set.
- Set the remote control to STB or PVR mode, if you are using the universal remote control. (where applicable)

6. Cannot make reservations.

- Check that no previous reservations are conflicting with the new reservation.

7. No password information is given.

- The default password is 0000.

8. Channel search does not work.

- **[Satellite]** Make sure that the antenna setting in the menu is correct.

9. Cannot update new software.

- If the product does not show a message requesting update, this means no software is available.

10. Cannot watch scrambled channels.

- Check that you have the appropriate Smartcard or CI-Module. Reinsert the Smartcard or CI-Module and make sure it initialises correctly.
- Check in the menu that the product is detecting the Smartcard or CI-Module.
- Check in the menu that you have a valid subscription to the channels you want to view.
- Make sure that the Smartcard or CI-Module is not damaged.

11. Cannot watch pay channels.

- Check in the menu that you have a valid and working subscription to the channels you wish to view.

12. The product makes a humming noise.

- The noise is from the fan; the hard disk is operating normally.

13. Cannot record programmes.

- The hard disk is full. Delete unnecessary programmes and make space for new recording.
- Check if the recording conflicts with another channel. Stop the current recording or wait until the recording is finished.
- Check that the product is switched on when the recording starts.

14. Cannot operate Time Shifted Recording.

- TSR may not be available during recording. Wait until the recording is finished.
- Delete unnecessary programmes and make space for new recording.

15. Cannot playback.

- To playback the recorded file of a scrambled channel, use the Smartcard. In case it has been a long time since you last recorded, this may not work. Contact the product distributor.
- The signal during recording may be weak or the hard disk too full.

16. Cannot change channels while recording.

- Certain channels may not be changed due to restriction of the tuner or connection type.

HUMAX Customer Support

More information on your product is provided in the HUMAX website. Should your product require warranty service, please contact the following to obtain the appropriate authorization.

Österreich	Tel: Öffnungszeiten: E-Mail: Website: Sprache:	0820 400675 (€ 0,14/Min) Mo-So 08:00-20:00 Uhr techinfo@humax-digital.de www.humax-digital.de Deutsch/Englisch/Türkisch
Deutschland	Tel: Öffnungszeiten: E-Mail: Website: Sprache:	01806-778870 (€ 0,20/Min) Mo-So 8:00-20:00 Uhr techinfo@humax-digital.de www.humax-digital.de Deutsch/Englisch/Türkisch
Italia	Tel: Orario: Lingua:	+39 199 309 471 (€1+ VAT/min) Lun.-Ven. 8:00-18:00 Italiano
Suomi	Puh: Aukioloajat: Website: Kieli:	010 3108114 ma-pe 8:00-16:00 www.infocare.fi Suomi/Englanti
Sverige	Tfn: Öppettider: Språk:	+46 (0)8 5900 2600 Mån-fre 09:00-12:00, 12:45-16:00 Svenska/Engelska
Danmark	Tel: Åbningstider: Sprog:	+45 70 13 20 80 Man-tors 08.30-16.00, Fredag 08.30-15.30 Dansk/Engelsk
UK	Tel: Opening Hours: E-mail: Website: Language:	0844 669 8800 Mon-Fri 09:00-17:30 uksupport@humax-digital.co.uk www.humax-digital.co.uk English

Note:

- For hardware repair, please visit our website.

Error Messages

Error messages	Possible causes	What to do
No or bad signal [Satellite]	The satellite dish is not pointing at the satellite.	Adjust the dish alignment.
	Signal is too weak.	Increase the LNB voltage or connect a signal amplifier.
	Satellite dish is too small.	Change to a larger dish.
	Problem with LNB	Change the LNB.
	Wrong antenna setting	Set the antenna correctly.
The channel is scrambled or not available.	The channel has a signal but no audio or video.	Check if the channel is currently on air.
	The channel has been deleted by the broadcasting company.	Check if the channel is currently on air.
	The channel is for data broadcasting.	Remove the channel from the channel list and check for new transponder details.
The audio is not available.	The channel has a video signal but no audio.	Press the audio button to confirm that the channel has audio options.
No access	No access	Make sure you have a subscription to the channel.
	No authorisation	If the product has been in standby or power off for a long time, please wait for authorisation. It may take up to 60 minutes.
No card inserted	Smartcard is not inserted.	Insert the Smartcard.

Error messages	Possible causes	What to do
Incorrect card	Wrong Smartcard is inserted.	Insert the correct Smartcard.
	Smartcard is not inserted correctly.	Remove the Smartcard and reinsert it.
	Smartcard is damaged.	Contact your Smartcard retailer or channel broadcaster and ask for replacement.
CI-Module not installed	CI-Module not installed CI-Module is not inserted.	Insert the CI-Module.
	CI-Module is not inserted correctly.	Remove the CI-Module and reinsert it.
	CI-Module is not recognised.	Insert another CI-Module to check if the current one is working.
Invalid CI-Module	Wrong CI-Module	Insert the correct CI-Module.
	CI-Module is damaged.	Replace the CI-Module.
The antenna cable is short-circuited. [Satellite]	LNB cable is short.	Replace the LNB cable.
	LNB is internally short.	Replace the LNB.
	Alien substance is inserted into the LNB IN port. The port may be damaged.	Remove the alien substance and contact the service centre if the port is damaged.

Using the Universal Remote Control

Setting the Universal Remote Control

Set up the universal remote control so that you can control your TV with this universal remote control.

1. Press the **TV STANDBY** button and **OK** button at the same time for 3 seconds. The **TV STANDBY** button will light on.
2. Enter the 3-digit code. The button will blink when each digit is entered and it will blink twice after the last digit is entered.
3. Press the **OK** button. The **TV STANDBY** button will blink three times.

Note:

- When no code is entered for 20 seconds, the universal setting mode will switch to normal mode.
- Try several setting codes and select the code that has the most functions.

Setting the Code Randomly

1. Press the **TV STANDBY** button and **OK** button at the same time for 3 seconds. The **TV STANDBY** button will light on.
2. Use the **P▲/P▼** button to search the brand code of the TV. If the TV powers off, this means that the TV brand code matches with the TV.
3. Press the **OK** button. The **TV STANDBY** button will blink 3 times.

Note: If the code setting process is not completed, the previously set code remains as default.

Brand	Code
Acer	261, 278, 305
Acoustic Solutions	210, 312, 324, 370, 386, 428, 477
Akai	102, 006, 098, 144, 145, 111, 061, 043, 074, 148, 232, 280, 128, 122, 461, 109, 462, 489, 094, 084, 083, 065, 035, 034, 033, 028, 023, 011, 004, 002, 154, 321
Alba	006, 144, 134, 204, 087, 064, 036, 005, 108, 473, 455, 447, 388, 099, 084, 077, 072, 065, 059, 034, 023, 002
Bang & Olufsen	014
Beko	006, 144, 086, 145, 111, 064, 072, 172, 361, 405
BenQ	223, 328, 329
Black Diamond	444, 204, 211
Brionvega	006, 014, 062
Bush	102, 006, 144, 134, 204, 138, 087, 061, 043, 036, 005, 108, 376, 373, 370, 361, 355, 352, 327, 388, 430, 431, 432, 440, 448, 451, 473, 476, 477, 478, 002, 033, 035, 044, 045, 056, 059, 065, 066, 095, 133, 164, 210, 213, 229, 232, 250
cello	397, 410, 418, 419, 420
Crown	006, 144, 134, 204, 086, 145, 087, 111, 143, 064, 361, 135, 072, 071, 053, 033, 002
Daewoo	102, 006, 124, 444, 036, 441, 406, 341, 338, 271, 249, 195, 192, 190, 164, 133, 119, 091, 079, 066, 035, 034, 002
Dell	235, 278
DMTech	260, 438, 449, 454, 456
Ferguson	006, 120, 098, 103, 030, 204, 012, 020, 029, 046, 052, 054, 077, 292, 447, 476
Finlux	102, 006, 144, 145, 333, 327, 172, 122, 118, 094, 089, 084, 083, 070, 055, 035, 023, 018, 017, 014, 011, 010
Fujitsu	002, 011, 032, 035, 042, 137, 173, 187
Fujitsu General	002, 032, 035, 137
Fujitsu Siemens	172, 211, 230, 246, 268, 369
Funai	144, 134, 043, 275, 336, 369, 407
GoldStar	006, 144, 145, 111, 061, 001, 007, 020, 023, 027, 034, 035, 047, 067

Gooding	087
Goodmans	102, 006, 120, 144, 103, 134, 124, 444, 204, 087, 043, 036, 005, 478, 211, 232, 477, 250, 476, 271, 445, 355, 370, 373, 440, 376, 382, 383, 386, 002, 004, 011, 035, 047, 052, 054, 065, 066, 084, 091, 094, 119, 121, 133, 172, 195, 210
Graetz	144, 087, 061, 023, 053, 065, 211
Grundig	102, 006, 030, 087, 142, 005, 108, 498, 476, 448, 447, 445, 430, 405, 370, 271, 267, 250, 225, 135, 121, 010, 101, 096, 028, 077
Grunkel	211
Hannspree	262, 263, 264, 342, 401, 402, 463
Hantarex	006, 002, 094, 190, 260, 289
Hinari	006, 043, 036, 005, 002, 033, 059, 077, 443
Hisense	102, 092, 165, 254, 265, 366, 491
Hitachi	006, 098, 124, 204, 208, 005, 019, 037, 146, 152, 153, 163, 169, 193, 197, 007, 206, 210, 217, 227, 295, 296, 330, 377, 399, 424, 483, 020, 021, 023, 027, 035, 054, 056, 060, 076, 081, 083, 084, 085, 089, 091, 094, 018, 106, 107, 011
Humax	505, 299, 506, 507, 245, 319, 322, 411, 433, 479
Hyundai	164, 190, 192, 241, 244, 271, 291, 317, 338, 340, 341, 439
Inno Hit	036, 002, 011, 035, 045, 047, 094, 211
Irradio	006, 036, 002, 047, 065, 147
JVC	111, 036, 005, 129, 130, 015, 029, 065, 072, 137, 149, 207, 264, 362, 408, 496
Keymat	258, 300, 398, 436, 437
Lenoir	002, 214
LG	102, 006, 144, 145, 138, 061, 064, 248, 281, 354, 367, 368, 384, 396, 416, 417, 425, 426, 215, 209, 067, 047, 035, 034, 027, 023, 002, 001, 236, 257
Loewe	006, 064, 014, 048, 093, 094, 123, 131, 167, 414, 434
Logik	204, 001, 003, 029, 162, 195, 224, 292, 376, 464, 465, 466

Appendix

Logix	134, 095
Luxor	098, 204, 061, 023, 033, 035, 047, 055, 056, 060, 083, 084, 122, 211
Manhattan	006, 134, 204, 164, 192, 237, 293
Marantz	102, 006, 071, 140, 277, 317
Marks and Spencer	420
Matsui	102, 006, 144, 030, 204, 087, 005, 080, 074, 153, 195, 097, 094, 369, 445, 077, 447, 065, 059, 056, 052, 044, 035, 033, 028, 011, 008, 004, 003, 002
Mitsubishi	102, 006, 204, 005, 019, 014, 015, 027, 093, 096, 191, 311
Mivar	034, 035, 047, 048, 094, 112
NEC	005, 002, 003, 025, 035, 040, 049, 066, 140, 239, 379
Nokia	098, 113, 111, 061, 023, 033, 049, 053, 055, 056, 066, 083, 084, 089, 122
Nordmende	006, 144, 103, 030, 020, 046, 054, 242, 280, 499
Onida	207, 226
Orion	102, 006, 144, 204, 467, 458, 457, 456, 448, 445, 443, 385, 218, 195, 131, 097, 094, 077, 071, 059, 050, 049, 003
Online	006, 036
Ormond	134, 204
Orsowe	094
Pacific	102, 144, 204, 208, 077, 256
Packard Bell	254, 293
Panasonic	006, 098, 061, 129, 038, 023, 063, 094, 187, 251, 294, 353, 359, 279, 306
Panavision	006, 070
Philco	006, 064, 014, 021, 072
Philips	102, 006, 061, 459, 435, 429, 395, 310, 302, 297, 247, 125, 110, 101, 073, 066, 054, 029, 014, 002
Phonola	102, 006, 014, 029, 034
Pioneer	006, 086, 061, 064, 020, 023, 024, 046, 073, 093, 136, 159, 233, 277, 286, 381
Pionier	086, 064, 327
Radiomarelli	006, 014, 094

Relisys	190, 192, 193, 194, 220, 221, 271, 310, 333, 338, 341, 355, 390
Saba	120, 098, 144, 103, 061, 014, 020, 023, 046, 052, 054, 090, 094, 335
Sagem	113, 080, 182, 253, 337
Samsung	102, 006, 043, 064, 108, 115, 231, 252, 276, 287, 332, 345, 350, 351, 372, 442, 474, 488, 490, 492, 228, 176, 175, 127, 095, 047, 035, 034, 033, 027, 023, 011, 009, 002
Sanyo	204, 064, 005, 019, 442, 370, 363, 358, 357, 356, 222, 200, 150, 140, 097, 053, 048, 035, 034, 033, 025, 023, 017, 011, 008, 003, 002, 240
Schaub Lorenz	098, 144, 086, 111, 061, 056, 066, 215, 256, 267
Schneider	102, 006, 144, 134, 204, 061, 208, 036, 451, 450, 293, 128, 097, 095, 065, 056, 054, 042, 035, 023, 010
SEG	006, 134, 204, 087, 043, 036, 005, 285, 211, 210, 119, 062, 056, 035, 034, 002
Sei-Sinudyne	006, 014, 032, 094, 097
Seleco	023, 032, 042, 055, 062, 065, 070, 075, 099
Sharp	005, 130, 216, 015, 029, 088, 094, 177, 274, 334, 365, 409, 166, 288
Siemens	006, 030, 028, 096, 101
SKY	006, 195, 271, 300, 307, 308, 340, 341, 342, 343, 344, 391, 400, 421
Sonoko	006, 043, 002, 035, 045
Sony	006, 301, 005, 446, 412, 393, 375, 360, 325, 255, 203, 185, 174, 058, 003
Strong	210, 211
Technika	422, 428, 465, 468, 480, 493
TechniSat	102, 131, 237
Technisson	144, 242, 361
Technosonic	102, 120, 091, 195, 256, 258, 436, 437, 451, 468
Telefunken	006, 120, 144, 103, 086, 320, 202, 105, 090, 082, 055, 054, 052, 046, 020, 016, 012, 348
Tevion	102, 006, 144, 134, 204, 208, 468, 405, 403, 376, 355, 327, 298, 246, 242, 232, 230, 172, 128

Thomson	006, 120, 103, 020, 046, 052, 054, 056, 082, 335
Toshiba	030, 204, 005, 115, 129, 092, 447, 364, 313, 304, 242, 212, 211, 183, 100, 039, 022, 020, 010, 009, 004, 236, 257
Tosumi	451
Vestel	006, 134, 204, 035, 211, 333, 370
Videocon	092
Viewsonic	307, 308, 323, 335, 349, 391, 394, 259, 331
Wharfedale	102, 006, 095, 189, 256, 327, 370, 452, 453, 477, 502
Yamaha	169, 314, 330, 184
Zanussi	032, 035
TV/VCR Combo	
Aiwa	445
Amstrad	026
Beko	086
Daewoo	444, 119
GoldStar	006
Grundig	102, 006, 030, 101, 445
Irradio	147
LG	027
Philips	102, 006
Saba	120
Samsung	442
Sanyo	442
Sharp	015
Thomson	120
United	445
TV/VCR/DVD Combo	
Grundig	448
Orion	448

If the code for your equipment is not listed, visit the following website and see **MDB1.3** for a complete list of supported codes.
(<http://www.humaxdigital.com/global/support/rucodelist.asp>)

