HD Digital Recorder

User's Manual

FVP-4000T

The default password is 0000.

HUMAX

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. EXTRANEOUS 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. 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.

13. 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 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 aerial 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. It may cause damage to the product and reduce its life span.
   • Do not overly pile objects on the product. It may cause cracks, deformation and discoloration.

4. TO AVOID DAMAGE OF HDD
   • 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

Accessories


Remote Control / Batteries

User Manual /Quick Start Guide

HDMI Cable

Ethernet Cable

AC Adaptor

Note: Accessories may vary according to area.

Product Overview
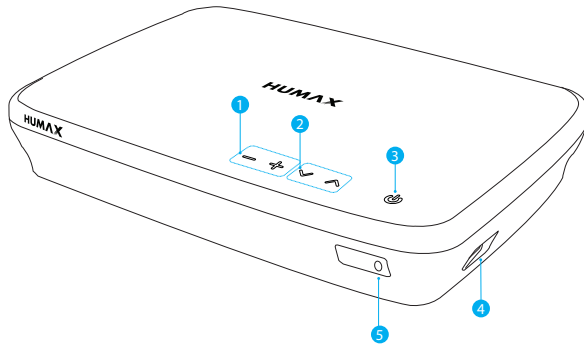
1 **VOLUME:** Changes the audio volume.
2 **CHANNEL:** Changes the channel or page.
3 **STANDBY:** Switches between operation and standby modes.
4 **USB:** Connect a USB memory device.
5 **LED:** Lights red in standby mode and blue in operation mode.
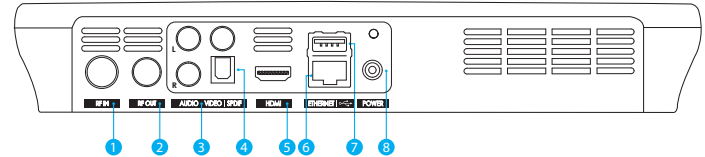
1 **RF IN:** Connect to a TV antenna.
2 **RF OUT:** Connect to the TV or VCR using an RF cable.
3 **VIDEO/AUDIO:** Use a RCA cable to connect to the TV.
4 **SPDIF:** Use an SPDIF cable to connect to the digital audio device.
5 **HDMI:** Use a HDMI cable to connect to the TV.
6 **ETHERNET:** Connect a LAN cable.
7 **USB:** Connect a USB memory device.
8 **POWER:** Connect the AC adaptor.

Note: The image may differ from the actual product.

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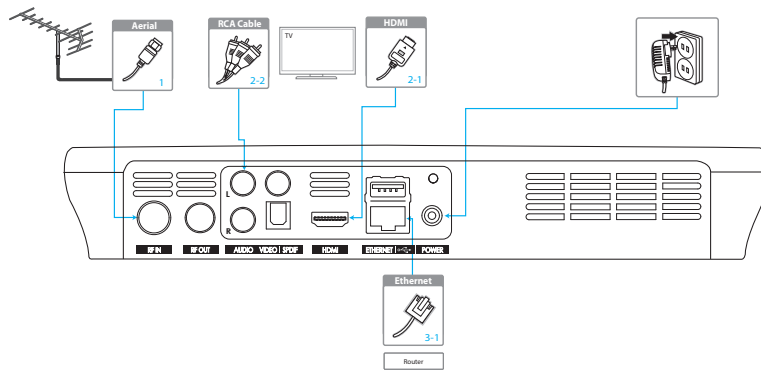
Note:
• If you encounter any problems setting up your product, please contact your local retailer or HUMAX Customer Service.
• Connecting your TV directly to the audio/video output of the product will assure a more vivid picture and enhance your viewing enjoyment.

HDMI CEC

HDMI CEC (Consumer 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 product is turned on or off.

Connecting the Antenna

Connect the aerial to the ANTENNA IN.

Connecting the TV

2-1 Using a HDMI cable

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

2-2 Using a RCA cable

Use a HDMI or RCA cable to connect to your TV set.
• For the best quality, use a HDMI cable.
• Use a RCA cable if you do not have a HDMI connection on your TV set.

Connecting the Network

3-1 Connecting to the LAN

1. Use the Ethernet cable to connect the product and the LAN router.
2. Set the options for the LAN.
   (Go to **HOME > SETTINGS > Network Settings** to set the network options)

3-2 Connecting to the Wireless LAN

Your product has a built-wireless network connection.
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.

Remote Control
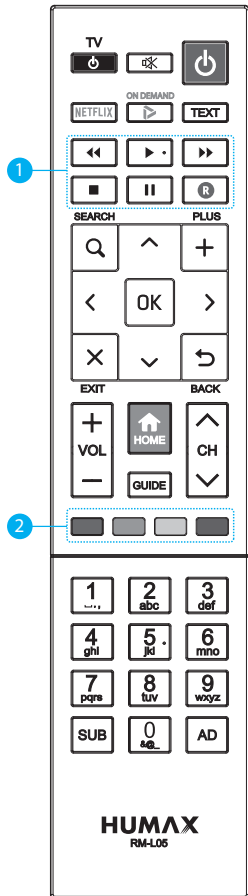
|		
⏻	TV STANDBY	Turns TV on/off
	TV AV	Switches the input source of the TV
⏻	STANDBY	Switches between operation and standby modes
	ON DEMAND	Goes to ON DENAMD
	TEXT	Enters the digital text service
	MUTE	Mutes audio
1	Playback Control Buttons	◀◀ Fast Rewind, ▶ Play, ▶▶ Fast Forward, ■ Stop, ❚❚ Pause, ⓡ Record
	SEARCH	Runs Smart Search
	PLUS	Displays option menus
	ARROW Buttons	Moves the cursor up, down, left or right
	OK	Selects a menu or confirms a 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 ⌃/⌄	Changes the channel or page
2	COLOUR Buttons	For interactive applications
	NUMERIC	(0-9)
	SUB	Sets the subtitle language
	AD	Displays the audio description

Inserting Batteries

Insert the batteries matching the plus(+) and minus(-) at each end.
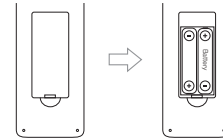
Note: If the remote control batteries are low, the **STANDBY** button and the **TV STANDBY** button will blink twice whenever your press the **HOME** button.

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. Preferred Language

Select a language for audio and subtitles and press the **OK** button.
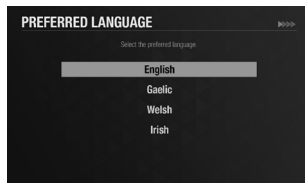
2. Network Connection

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

3. Privacy Policy

Agree or disagree to share anonymous data about how you use your products.
If you agree, this is very helpful for us to make better products.
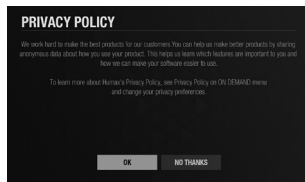
4. Channel Search

Set the search options and then search channels. You can search channels automatically or manually. Save the found channels when the search is complete.
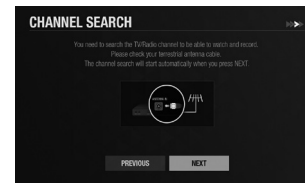
5. Quick Booting Mode

Set to **On** to decrease the standby power consumption.

6. Result

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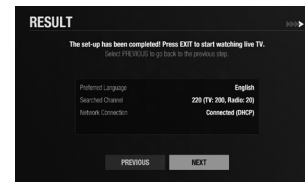
Home

You can go to the home menu by pressing the **HOME** button wherever you are. From the home menu, you can reach On Demand, TV Guide, Recordings, Media Center, and Settings.

- To see the recent list, press the ▼ button.
  You can easily go to the recently accessed contents or menus.

Simple Guide

You can change channels, see what's on later or watch catch-up programmes when available.

- Press the **OK** button while watching live TV to display Simple Guide.
- Press the ▲/▼ arrow buttons to display a channel list.
- Press the **EXIT** button to hide the Simple Guide.

Date and time   Channel number and name

Number of Recordings   Programme name
in progress
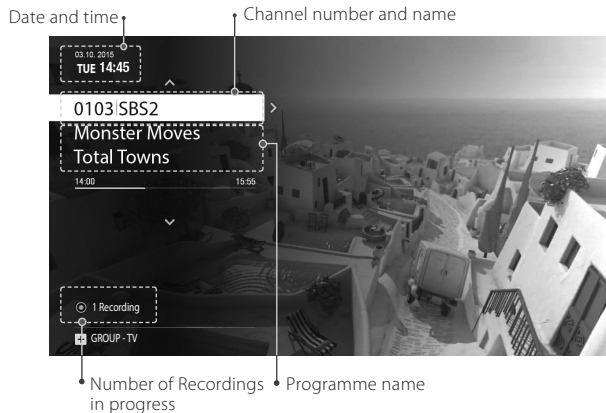
Watching Live TV

- When you have selected a programme from the Simple Guide press the **OK** button to change to that channel.
- You can also enter the channel number directly.

Pausing and Rewinding Live TV (TSR)

Time Shifted Recording (TSR) allows you to pause a live programme and return later where you left off. The TSR function temporarily records the programme you are watching to the hard disk drive automatically for up to 2 hours.

Start time   Playing point   Total time
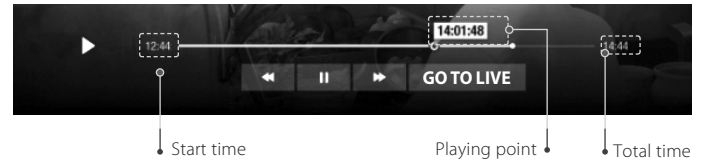
Note:
- Pausing Live TV will work after 10 seconds of changing to a channel.
- Each time you change channels the TSR will clear and start again

To pause the programme

1. Press the **PAUSE** button.
2. Press the **PLAY** button to watch from the pausing point.
   Pressing Pause starts a time gap between Live TV and the point you pressed pause.

To watch missed scenes

1. Press the **FAST REWIND** button.
2. Press the **PLAY** button at the point where you want to start watching.

To skip scenes

Press the **FAST FORWARD** button when there is a time gap between the current watching point and the live broadcasting point.
If you reach the live broadcasting point while fast forwarding, the programme automatically plays at normal speed.

Setting TV Options

- Press the **PLUS** button while watching live TV to change the resolution, display format, switch on audio description, and subtitles.
- Press the **SUB** button to switch on subtitles.
- Press the **AD** button to switch on audio description.

Changing Channel Group

1. Press the **OK** button while watching live TV to display Simple Guide.
2. Press the **PLUS** button.
3. Select a channel group and press the **OK** button.

Seeing What's On Later

1. Press the ▶ arrow button to see what's on later.
2. Select a programme and press the **OK** button.
   Programme detail appears. You can set recordings or reminders.

Watching Catch-Up Programmes

Press the ◀ arrow button to watch catch-up programmes.
Catch-up programmes are accessible only when the network is connected and that programme is available on Catch-up from the broadcaster.

Catch-up programmes

On-air programme
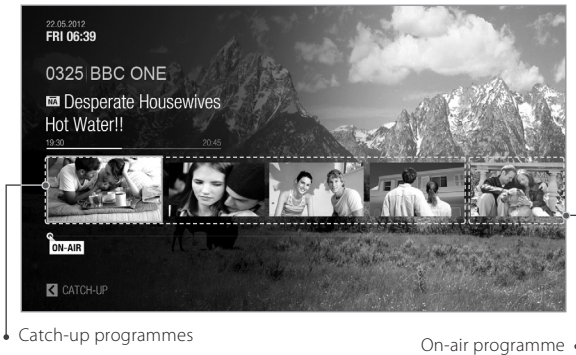
Programme Detail

1. To find out more about the programme you are watching, press the **OK** button.
2. Press the **OK** button again to display programme detail.
   You can watch an episode of a catch-up programme or set reminders or recordings for future programmes.

Channel number and name   Programme name

Episodes   Running time, date, genre
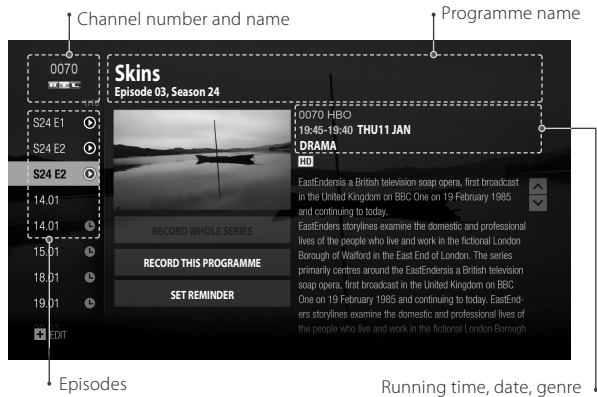
Episode Icons	
🕓	Reminder (blue), Scheduled recording (red)
▶	Playback possible
⦿	Recording in progress
ⓢ	Series recording
①	Daily
⑦	Weekly

Programme Icons	
HD	HD programme
G	Parental guidance programme
COPY	Blocked by digital recording management
ENC	Encrypted programme
🔒	Locked programme
DOLBY DIGITAL PLUS	Dolby digital plus
DOLBY DIGITAL	Dolby Digital
AD	Programme with audio description
▭	Programme with subtitle
◖	Split programme

Smart Search

You can search your favourite programmes by entering a keyword.

•   Press the **SEARCH** button and then enter a keyword.

Note: Enter at least three characters to search programmes or media files. If you
enter less than three characters, channels and Apps are searched.

TV Guide

GUIDE

You can see the programme schedule of each channel, and schedule recordings or reminders for future programmes.
• Press the **GUIDE** button.
• Use the arrow buttons on the remote control to navigate in the Guide.
• Select a programme from next or catch-up programmes and press the **OK** button to display the programme details.

Live TV

Catch-up   Channel number and name   Next programmes

Watching Live TV

Select a programme and press the **OK** button or enter the channel number directly.

Note: Press the **CH^/v** button to change a page.

Changing Channel Group

1. Press the **PLUS** button.
2. Select the channel group and press the **OK** button.

Quick Navigation

1. To move to a certain date, long press the ◄/► arrow buttons.
2. Select a date and press the **OK** button.

Seeing What's on Later

Press the ► arrow button to see the next programmes.
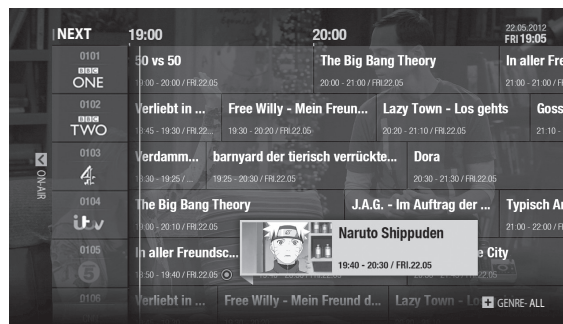
Setting Reminders or Recordings

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

⏱	Reminder (blue)	◉	Recording in process
⏱	Recording (red)	⏱ₛ	Series recording

Note:
• If the programme conflicts with another programme, adjust the scheduling appropriately. See page 16 for more information.
• If the channel is locked, you will be prompted to enter your password. 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.
• Select a genre and press the **OK** button.

Watching Catch-Up Programmes

1. Press the ◄ arrow button to go back in the Guide to see programmes available in Catch-Up.
2. Select a programme and press the **OK** button.
   If the programme has been recorded or is available on Catch-Up you can play it back.
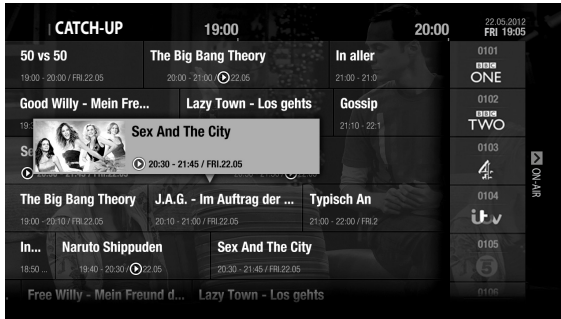
Note: Not all programmes will be available from the broadcasters on Catch-up.

You can record programmes instantly and schedule recordings in **TV Guide**, **Programme Detail** or **Recordings**. You can record up to four programmes at once while watching a different channel live.

Note: When recording four programmes you may have a limited number of channels you can view Live. Visit *www.humaxdigital.com/uk/support* for more information.

Instant Recording

Press the **RECORD** button to record the current programme. Press the **STOP** button to stop recording.

Extending recording duration

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

Note:
• Recording will continue until the end of the current programme. If it ends within ten minutes, the recording will continue until the end of the next programme.
• Recording continues for two hours if there is no programme information.

EXTEND RECORDING DURATION

Extend the recording duration by setting it manually.

◉ 104 Channel 4 (14:32-15:01, 29mins)

‹ -10mins **Record till (~15:01)** +10mins ›

Record till the end of "Come Dine with Me" (~15:00)
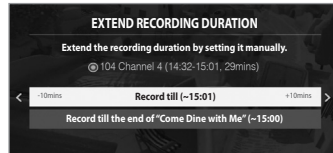
Scheduled Recording

You can schedule recordings in TV Guide, Programme Detail and Recordings.

TV Guide

Press the **HOME** button and select **TV GUIDE**.
Select a future programme and press the **RECORD** button.

Note: See page 13 for scheduling recordings or reminders in **TV GUIDE**.

Programme Detail

Press the ▶ button while watching a programme.
Select a future programme listed on the left to record and press the **OK** button.
Select a recording option.

Recordings

You can schedule recordings or reminders manually.
1. Press the **HOME** button. Select **RECORDINGS** and **SCHEDULE**.
2. Select **ADD A SCHEDULE**.
3. Set a schedule manually.
4. Select **OK** and press the **OK** button.

Set a schedule manually.

Channel	0101 ABC
Date	12.05.2014
Start Time	21:00
Duration	60 mins
Repeat	Once
Mode	Recording

OK   **CANCEL**
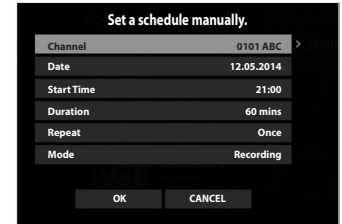
Editing Schedule

You can delete or reschedule the scheduled programmes.
1. Press the **HOME** button. Select **RECORDINGS** and **SCHEDULE**.
2. Select a scheduled programme.
3. Press the **PLUS** button.
4. Select **Delete** or **Reschedule**.

Note: You can set the padding time to record programmes with extra recording time. Go to **HOME** > **SETTINGS** > **PVR Settings** > **Recording Options**.

Recording Conflict

Recording Conflict

A recording conflict occurs:
- **Case 1** when you try to start a new recording while recording.
- **Case 2** when a new recording conflicts with the previously scheduled recordings.

Select one of the recordings to cancel.

Tuning Conflict

A tuning conflict occurs when a scheduled recording is about to start while you are watching another channel.
A record notice will pop up 30 seconds before the scheduled recording starts.
- **YES**: The channel will change at the start time and the recording will start.
- **NO**: The scheduled recording will be cancelled.

Playing Recorded Programmes

You can play the recorded programmes in **RECORDINGS**.
The recordings are categorised by groups, **PROGRAMME**, **CHANNEL**, **DAY OF WEEK** so that you can find the recordings you want easily.

Playing Recordings

1. Press the **HOME** button. Select **RECORDINGS**.
2. Select a recording and press the **OK** button.
3. Select **PLAY THIS PROGRAMME** and press the **OK** button.
   You can delete the recording or record whole series if the programme is part of a series.
4. Press the **OK** or **PLAY** button during playback, the play bar appears.

Start time   Playing point   Total time
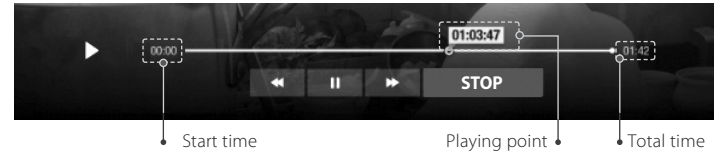
Playback Controls

▶	Play	◀◀	Fast rewind
❚❚	Pause	▶▶	Fast forward
■	Stop		

- **Fast Rewind / Fast Forward**: When the time bar is on screen, press the ◀◀/▶▶ button to scroll back or forward quickly.

- **Skip Backward / Skip Forward** : When the time bar is on screen press the ‹/› button to skip backwards or forwards.

You can play video, music, photo files from the connected storage devices or home network devices on your TV. Make sure that the USB storage device or network is connected correctly.

Press the **HOME** button. Select **MEDIA CENTER**.

Direct Access to Media Files

1. Select **VIDEO**, **PHOTO** or **MUSIC**.
2. Select a storage or network server.
   The recently played files appear.
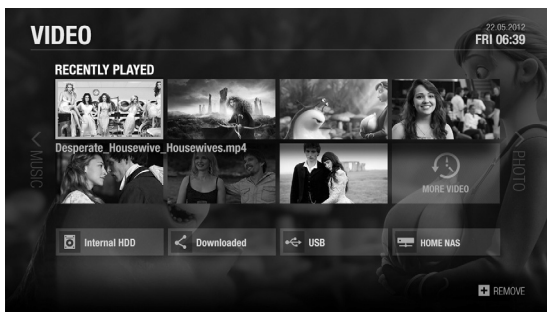
Note:
- You cannot play the recently played files from the external storage which is already disconnected.
- HUMAX is not responsible for any data loss or file damage.
- Some playback control buttons may not function depending on the contents.

Note: Certain files may not play depending on file formats or video and audio codec.

Playing Media Files

Playing Video

Select a video file and press the **OK** button.

	Play		Fast rewind
	Pause		Fast forward
	Stop		

Changing Subtitle Option

1. Select **SUB** and press the **OK** button when the play bar is on the screen.
2. Set the subtitle option.

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

Playing Photo

Select a photo file and press the **OK** button. Photo slideshow starts.

| ▶	Play	‖	Pause
�	Exit slideshow	+	Play mode

Changing Play Mode

You can set the slideshow speed or background music during slideshow. Press the **PLUS** button.
- **Slideshow Speed**: Select the display time per photo in slideshow.
- **Music Play**: Select **On** to play music files during slideshow.

Playing Music

Select a music file and press the **OK** button. All files in the group will play successively.
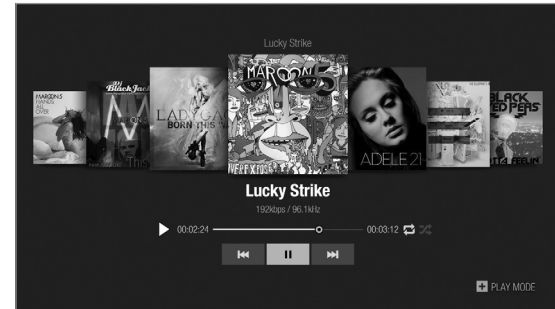
▶	Play	‖	Pause
�	Exit music player	+	Play mode

Changing Play Mode

You can set the slideshow speed or background music during slideshow. Press the **PLUS** button.
- **Repeat Option**: Set the repeat option in the playlist.
- **Play Mode**: Select **Normal** or **Shuffle**.

Editing Files

You can delete, copy, move files and change the storage.
Select a file and press the **PLUS** button.

Delete	Delete the file.
Copy	Copy the file to the storage you want.
Move	Move the file to the storage you want.
Select	Select a file.
Select All	Select all files.

Note:
- When you copy or move a file to an external storage device, the file is copied to its root folder.
- Files may not be copied or moved if the storage is full or the file size is too large.
- Files on a network server cannot be edited.

Playing Files by Storage

Playing Files from Storage Device

You can play files from the storage devices such as internal or external HDD and USB storage devices.
1. Select a storage device.
2. Select **VIDEO**, **MUSIC** or **PHOTO**.
3. Select files you want to play.
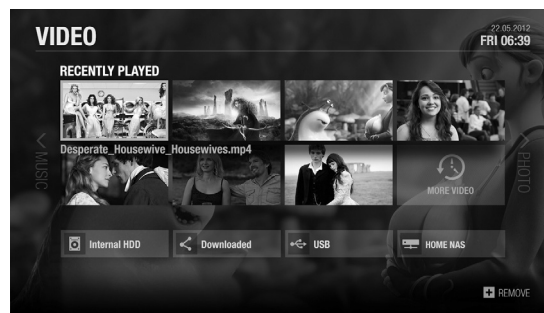
Note:
- Do not disconnect the USB storage device during playback, the files or the USB storage device may be damaged.
- It is recommended to use the USB storage devices requiring external power supply.
- If the USB storage device is connected in standby mode, it will automatically be recognized when the product is turned on.
- HUMAX cannot guarantee compatibility with all USB storage devices and assumes no responsibility for any loss of data.

Playing Files from Home Network Devices

Your HUMAX product is a home network device capable of sharing media files with other home network 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 saved in your home network devices on your product when the home network device is connected to the same home network.

Connecting to Home Network

1. Press the **HOME** button. Select **SETTINGS > Network Settings**.
2. Set the options for the LAN or Wireless LAN.

Note: See page 23 for connecting to the network.

Playing Files from Home Network Devices

1. Select a home network device.
2. Select **VIDEO**, **MUSIC** or **PHOTO**.
3. Select files you want to play.

Note:
• The list of supported home network media servers will appear automatically.
• 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.
• Refer to the instructions of your operating system for setting up home network server.

Playing Files from SAMBA Server

1. Select a **SAMBA** server.
2. Enter the ID and Password of the PC to access to the shared folders.
3. Play the files from the SAMBA server on your TV.

Note: Make sure that the settings in your Windows7 PC is ready to connect to the SAMBA server. Refer to the instructions of your operating system for setting up SAMBA server.

ON DEMAND

You can download TV Apps from App Market and enjoy them on your TV.
Press the **HOME** button. Select **On Demand**.

Note:
- Apps may differ depending on the region or service providers.
- You may need to agree to Privacy Policy before using certain Apps.
- TV APPS are subject to change without notice. HUMAX is not responsible for the content or the discontinuity of the services.

General Settings

Press the **HOME** button. Select **SETTINGS** and then **General Settings**.

Parental Control

*   **Guidance Policy**: You can set the guidance on the recordings or Internet contents during the watershed which is the time period (21:00 to 05:30) for adult contents.
*   **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 preferred language for audio and subtitle.

Video Setting

You can set the screen ratio, display format and screen resolution.

Audio Setting

*   **S/PDIF**: You can select the digital audio signal output.
*   **HDMI**: You can select the digital audio signal for HDMI output.
*   **Audio Description**: You can set to narrate the on-screen visuals which is used for visually impaired viewers.
*   **Lip-Sync Delay**: You can adjust the sound difference between audio and video.

Note: Not all channels will provide audio description. For further information, contact the broadcaster.

On-Screen Display

*   **Info Display Time**: You can set the duration the Simple Guide is displayed whenever you change the channel.
*   **Subtitle Display**: You can set to display the subtitle automatically or not.
*   **Hard of Hearing**: You can set to show the closed captions.
*   **Subtitle Font**: You can set the subtitle font.

Privacy Policy

You can agree or disagree to send HUMAX your watching information.
Your watching information will be helpful for HUMAX to improve both product and service.

Network Settings

Press the **HOME** button. Select **SETTINGS** and then **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 The network password is case-sensitive and cannot contain spaces.

Network Connection Status

You can view the connection status of the local area network or the 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-Digital Media Player.
- **Rename Server:** Enter a new name to change the server name.
- **Server Status:** You can see the information on network servers.

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 in the internal HDD to the PC storage.
- **FTP Server**: When **FTP Server** is set to **On**, you can copy the video, music, photo files in 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.

PVR Settings

Press the **HOME** button. Select **SETTINGS** and then **PVR Settings**.

IP EPG

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

Recording Options

- **Start Padding Time / End Padding Time**: You can set the recording padding time to add extra recording time to the start and end of all your scheduled recordings.
  Note: The start and end times set will override the broadcast Accurate recording.

- **Auto Delete**: Set to **On** to add old recordings to the list of **TO BE DELETED**.

Playback Options

- **Series Play**: Set to **On** to play back 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**: Run the HDD test or format the storage.
- **External Devices**: To remove the storage, select **Remove Storage Safely** first.

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

System Settings

Press the **HOME** button. Select **SETTINGS** and then **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 product 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 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.
- When set to **On** the product will not supply the loop through aerial signal to any connected device.

Factory Default

You can restore your receiver to factory settings.
Shortly after you complete the factory default, the installation wizard will appear automatically.

Warning: Note that once you perform factory default, all user configured data will be reset.

Channel Settings

Press the **HOME** button. Select **SETTINGS** and then **Channel Settings**.

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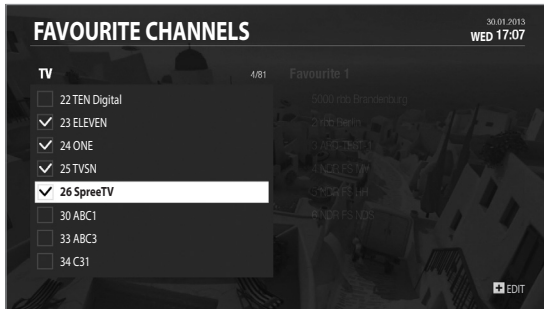
Note: Press the **EXIT** button to exit. Press the **BACK** button to return to the previous screen.

Select the channels from the left column and press the **PLUS** button.

Add to favourite	Add to favourite channels.
Change Group	List channels in another channel group.
Select / Deselect All	Mark or release all channels.

Select the channels from the right column and press the **PLUS** button.

Remove	Remove from favourite group.
Move	Move the channel in the favourite group.
Change Favourite	Change to another favourite group.
Rename Favourite	Rename the favourite group.
Select / Deselect All	Mark or release all channels.

Editing Channel List

You can delete, lock or rename channels in the channel list.
Select a channel and press the **PLUS** button.
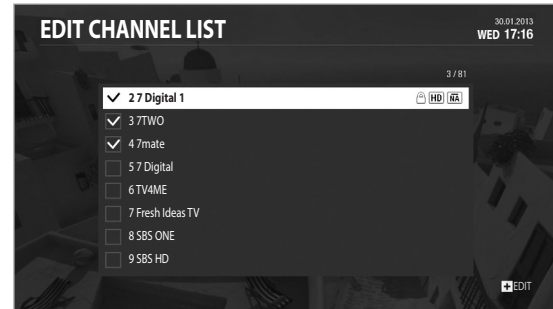
Delete	Delete channels from channel list.
Lock/Unlock	Lock channels to block access.
Rename	Change channel name.
Select/Deselect All	Mark or release all channels.
Change Group	To list the channels of another favourite group, press the **PLUS** button and select **Change Favourtie**. Select the group and press the **OK** button.

Signal Test

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

Automatic Channel Search

You can search channels automatically without entering any other information. When the channel search is complete, select **SAVE** and press the **OK** button to save the results.

Note: Select **STOP** and press the **OK** button to stop the channel search. The searched channels will remain.

Manual Channel Search

You can search channels manually by searching parameters.
- **Channel**: Select the channel.
- **Frequency**: Enter the frequency. The corresponding frequency value will be automatically displayed.
- **Transmission:** Select **DVB-T** or **DVB-T2**.
- **Bandwidth**: Select the bandwidth.
- **Network Search**: Select **On** or **Off**.

Appendix

Trouble Shooting

Before contacting the customer service center, 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.

General

Problem	Possible Cause	What to Do
No red or blue LED on the front panel of the product	Mains adaptor unplugged. Mains socket switched off.	• Check the main power cable and make sure it is plugged into a suitable power outlet. • Connect the power cable to a different power outlet.
No picture (Nothing shows on the TV)	HDMI cable not securely connected. TV Set not on correct Input / Source	• Make sure that the product is powered on and in operation mode. • Make sure that the AV or HDMI cable is firmly connected to the TV. • Check if the channel is currently on air. • Check that you TV is on the correct input / source for the HDMI / AV connection (refer to your TV manual for more details on how to change the input / source. • Check the brightness of the TV.
No picture (No channels)	Aerial is disconnected. Aerial is damaged/misaligned. Out of digital signal area. Aerial not positioned correctly.	• Make sure that the product is powered on and in operation mode. Press the **STANDBY** button. • Make sure that the AV or HDMI cable is firmly connected to the TV and the product. • Make sure that the aerial cable is properly connected to the product. • Press the Input or Source button on the TV remote and select AV or HDMI mode depending on how your product is connected to the TV. • Search channels again. Go to **HOME > SETTINGS > Channel Settings > Automatic Channel Search**. • Check if the channel is currently on air.
Poor Picture Sound quality	Electro magnetics from electronic devices around the product can cause the issue. Poor/faulty HDMI cable	• Make sure there is no mobile phone or microwave oven near the product. • Keep the power and the RF cables apart from each other. • Adjust the antenna direction to get a better picture. *Note:* If the antenna is covered with snow, the RF is weakened by heavy rain, or the aerial position is changed by strong wind, the condition of the sound and picture may temporarily be poor. However, the poor sound and picture quality due to weather conditions cannot be accepted as a malfunction of product.

Appendix

Problem	Possible Cause	What to Do
No sound	AV/HDMI cables are not connected properly or faulty. Volume is set to minimum or mute.	• Check that your AV or HDMI cable is connected correctly. • Check the volume levels of your TV and the product. • Check if the product or TV is on mute. • Check audio type or soundtrack option. (where applicable)
No volume control on HD channels	Check the HDMI Audio setting	• Go to **HOME > SETTINGS > General Settings > Audio Setting** - change the HDMI audio setting to Stereo.
No response to remote control	Low batteries	• Remove and reinsert the batteries in the remote control. • Replace the batteries in the remote control for a new set.
No password information		• The default password is always 0000.
Channel search does not work	Aerial is disconnected. Aerial is damaged/misaligned. Out of digital signal area. Aerial is not positioned correctly.	• Make sure that the aerial cable is properly connected to the product. • [Terrestrial] Use the appropriate aerial capable of receiving VHF or UHF channels for your area.

Cannot update the new software	Network is not set up.	• Check if the network is configured properly. You can check the network connection status by going to **HOME > SETTINGS > Networks Settings > Network Connection Status**.
		   Note: If your product stays connected to the network, everytime you turn off the product it will search for any updates available on air.
		• To manually search for any updates available, go to **HOME > SETTINGS > System Settings > System Information** and then select **CHECK NEW SOFTWARE**.
		• To update the software via USB,
		   1. Download the latest software version and save it to an empty USB memory stick.
		   2. Please make sure the software is saved in the root of the USB stick.
		   3. Insert the USB memory stick into a rear USB port of the product.
		   4. Go to **Home > Settings > System Settings > System Information** and press the **OK** button on **Check New Software**.
		   5. When the download progress stops it may take up to 5 minutes for it to restart so 'DO NOT TURN OFF the product'
		   6. To confirm successful update, please go to **Home > Settings > System Settings > System Information** and check **Software Version**.

Randomly Shuts itself off	Automatic Power Down Option On Timer is set	• Go to **HOME > SETTINGS > System Settings > Power Management** and then check if **Automatic Power Down** is set to **On**. • Go to **HOME > SETTINGS > System Settings > Power Timer** and then check if **Power Off Timer** is set to **On**.

Appendix

Recordings

Problem	Possible Cause	What to Do
Cannot schedule recordings or reminders	Conflict of recordings	• Check that there is a previous schedule conflicting with a new schedule. Cancel one of the schedules. • This product has 3 tuners. This allows you to record up to 4 different channels and watch another program. There may be limitations on the 4th channel you can record or the live TV channel you try to view depending on the channels you are recording.
Cannot record programmes	Full HDD Conflict of recordings	• The hard disk is full. Delete unnecessary programmes and make space for new recording. • Check if recording conflicts with another channel. Stop the current recording or wait until the recording is finished. • Check that the product is switched on when recording starts. • If you are missing first or end bits of the program, set the padding time. Go to **HOME > SETTINGS > PVR Settings > Recording options** and set the padding times. • Check if your product recognizes problems with the HDD. Go to **HOME > SETTINGS > PVR Settings > Storage**, select the storage, and run the HDD test.
Cannot change channels while recording.	Conflict of recordings	• This product has 3 tuners. This allows you to record up to 4 different channels and view a 5th Live TV channel. The 4th channel recording and the 5th you are trying to view maybe limited to channels being in the same broadcast groups as the first 3 programmes you have set to record.
How to set the padding time		• If you are missing first or end bits of the programme, set the padding time. Go to **HOME > SETTINGS > PVR Settings > Recording Options** and set the padding times.
How enter passive mode		• Go to **HOME > SETTINGS > System Settings > Power Management** and set **Power Saving in Standby** to **On**.

Playback

Problem	Possible Cause	What to Do
How to edit recorded programmes		• Go to **HOME > RECORDINGS** and select a file. Press the **PLUS** button and delete. If you want to delete more than 1 programme, press the **PLUS** button and select **Select**. You can mark files and then delete, copy or move the multiple files.
How to edit media files?		• Go to **HOME > MEDIA CENTER** and select **Internal HDD**. Select a file and press the **PLUS** button. You can delete, copy or move the file.

Problem	Possible Cause	What to Do
Does not recognize larger external HDDs.	HDD capacity is too large.	• HUMAX recommends to use external HDDs up to 1TB. • If the external HDD is making a ticking sound or not being recognized, this may indicate that the electricity is not sufficient. Please connect the power cable of the external HDD or connect another USB cable to the product.
How to read files from external HDD		• Go to **HOME > MEDIA CENTER** and select an external HDD. Select a file and press the **OK** button. • Some files may not be played depending on the file format.
How to delete root folder?		• You cannot delete the root folder that is to store the downloaded files.

Network

Problem	Possible Cause	What to Do
Cannot connect to the Internet	Too far from the wireless router Walls or obstacles between the product and the router cause interference. Faulty Ethernet cable Wrong password	• Check if the network is connected properly. Go to **HOME > SETTINGS > Network Settings** and select Network Connection Status. • If wireless network is not available in your home, use an Ethernet cable to connect the product and the router. • Turn off the product and the router and then on to refresh the network. • Move the product closer to the wireless router or remove any obstacles from between them. • If you use an Ethernet cable, change the Ethernet cable for another. • Check if other network devices in the same network are connecting to the Internet okay. • Check the network password. *Note:* The home network environment may cause the Internet speed slow down.
On Demand does not work.		• Check if the network is connected properly. Go to **HOME > SETTINGS > Network Settings** and select **Network Connection Status**. If not connected, refer to the troubleshooting guide for the network. *Note:* • Network traffic may cause temporary loss of network connectivity. • Poor network connection may cause On Demand run slowly.

Media Center

Problem	Possible Cause	What to Do
Cannot play YouTube video.	Some YouTube videos are played on PC only.	• Play another video to view.
Network server does not work	HUMAX product is not connected to the network or the network is not configured. Home network devices are not connected to the network or the network is not configured. PC/Router settings are not correct.	• Go to **HOME > SETTINGS > Network settings** and check if **Network Server** is set to **On**. When the network server option is set to on, files stored in the internal HDD can be shared with other home network devices in the same network. • Make sure that the options to share media files are enabled on your PC. • Check if any firewall settings on your PC or router blocks home network compatibility.
File share(SAMBA/FTP) does not work	Network connection error File sharing options	• Check if the network is connected properly. Go to **HOME > SETTINGS > Networks Settings** and select **Network Connection Status**. • Make sure that your product and PCs are in the same network. • Make sure that the SAMBA server is activated. Go to **HOME > SETTINGS > Network Settings > File Share** and set **SAMBA Server** to **On**. • Make sure that the FTP server is activated. Go to **HOME > SETTINGS > Network Settings > File Share** and set **FTP Server** to **On**. • Check if the password is correct. Go to **HOME > SETTINGS > Network Settings > File Share** and set a new password.

Others

Problem	Possible Cause	What to Do
Can I use a HUMAX product from other countries in UK?	Each country has their own broadcasting system. HUMAX product is made it possible for regional broadcasting environment.	• HUMAX products from other countries are not available in UK. Customer services may be limited.

Cautions: Electromagnetic interferences from other electronic devices or cables may cause malfunction to the HUMAX product.

HUMAX Customer Support

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

UK	Tel: Opening Hours: E-mail: Website: Language:	0344 318 8800 Mon - Fri 09:00 – 17:30 (excluding Bank Holidays) uksupport@humax-digital.co.uk www.humaxdigital.co.uk English

Glossary

CVBS (Composite Video Baseband Signal)
A technology for transmitting video signals via a cable. Mixes luminance (brightness) and the chrominance (colour) signals together.

Dolby Digital
An encoding system that digitally compresses up to 5.1 discrete channels of audio (left front, centre, right front, left surround, right surround) into a single Bitstream. A low frequency effect (LFE) channel is included providing the sound needed for special effects.

DVB (Digital Video Broadcasting)
A set of standards that define digital broadcasts using satellite, cable or terrestrial systems.

EPG (Electronic Program Guide)
An electronic equivalent to a printed television listings magazine. It is an application used with digital set-top boxes and digital television sets to list current and scheduled programs that are or will be available on each channel, including a short summary or commentary for each Program. The information supplied in the EPG is sent and updated by the channel broadcaster.

Frequency
The property of a signal measured in cycles per second (=Hz).

FTA (Free- To-Air)
An unscrambled broadcaster allowing customers to view channels or services without paying any subscription.

HDD (Hard Disk Drive)
The primary computer storage medium, which is made of one or more aluminum or glass platters, coated with a ferromagnetic material.

HDMI (High-Definition Multimedia Interface)
An all-digital audio/video interface that supports standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable. It transmits all ATSC HDTV standards and supports 8-channel digital audio.

OTA (Over the Air)
A standard for the transmission of software for equipment, through a broadcast system. Manufacturers reserve the right for deciding the release of the software for their products.

PVR (Personal Video Recorder)
A video recorder that can record and pla als and are then demodulated by the tuner of your TV or STBs.

RGB (Red – Green – Blue)
A technology for transmitting video signals via a cable. RGB is a system to represent red, green, and blue colours on a TV or monitor display. Red, green, and blue can be combined in various proportions to obtain any colour.

S/PDIF (Sony/Philips Digital Interface format)
A standard format for the transfer of digital audio signals. It allows the transfer of digital audio between two devices without any conversion to and from analogue, which could degrade the signal quality.

S-Video (Super-Video)
Sometimes referred to as Y/C video; a technology for transmitting video signals via a cable. It is a video signal transmission in which the luminance (brightness) and the chrominance (colour) signals are transmitted separately to achieve superior picture clarity.

TSR (Time Shifted Recording)
A function that records the present program temporarily to support trick-play.

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 **CH∧/CH∨** 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

Brand	Code
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
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
Orline	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/rcucodelist.asp**)

Open Source Software Notice

HUMAX products use certain open source operating system software distributed pursuant to GNU GENERAL PUBLIC LICENSE Version 2 and GNU LESSER GENERAL LICENSE Version 2.1 each as defined and published by the Free Software Foundation, Inc.

The following GPL and LGPL software source codes used in this product can be provided and this offer is valid for up to three years from the date of original download of the software or purchase of product containing such software. Please contact us at gnu@humaxdigital.com.

GPL Software
busybox
libext2fs
compiler
linux
e2fsprogs
mtd-utils
parted
xfsprogs
dosfstools
samba
proftpd

LGPL Software
libexif
uClibc
DirectFB
ffmpeg

FreeType License (FTL) Software
freetype
Portions of this software are copyright © <2007> The FreeType Project (www.freetype.org).
All rights reserved.

OpenSSL License Software
OpenSSL
This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).
This product includes software written by Tim Hudson (tjh@cryptsoft.com).
This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org)

Use, modification and redistribution of the Open Source Software is governed by the terms and conditions of the applicable Open Source License. The GNU General Public License v2 is shown below.

The GNU General Public License (GPL)
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too. When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's

free use or not licensed at all.
The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program. You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program. In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.) The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable. If distribution of executable or object code is made by offering access to copy from a designated place,

then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program. If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances. It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL,

INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.
END OF TERMS AND CONDITIONS
How to Apply These Terms to Your New Programs
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms. To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

One line to give the program's name and a brief idea of what it does.
Copyright (C) yyyy name of author This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details. You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA. Also add information on how to contact you by electronic and paper mail. If the program is interactive, make it output a short notice like this when it starts in an interactive mode:
Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items-whatever suits your program. You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.
signature of Ty Coon, 1 April 1989
Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU Lesser General Public License (LGPL)
Version 2.1, February 1999
Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.
[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below. When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things. To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it. For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights. We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the

library. To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs. When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library. We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances. For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License. In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system. Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library. The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables. The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".) "Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library. Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library. You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all

third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.) These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library. In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices. Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy. This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange. If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License. However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law. If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.) Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications. You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:
a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-

readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library. If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances. It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice. This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder

who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found. one line to give the library's name and an idea of what it does.> Copyright (C) year name of author This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version. This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail. You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.
signature of Ty Coon, 1 April 1990
Ty Coon, President of Vice

Warranty   Certificate

IMPORTANT:
Keep this Certificate together with the Original invoice or receipt in a safe place and show them to the retailer or place of purchase whenever a warranty repair is necessary.

- **Model No.:** _____

- **Serial No.:** _____

- **Date of Purchase:** _____

- **Dealer's Signature:** _____

- **Customer's Signature:** _____

HUMAX thanks you for your recent HUMAX product purchase.

For your benefit, we recommend that you record your serial number, found on the product, and other purchase information on this card and keep it with your personal records, along with proof of purchase. This information will allow us to better serve your needs.

■   **WARRANTY CONDITIONS**
Keep this Certificate together with the original invoice or receipt in a safe place and show them to the retailer or place of purchase whenever a warranty repair is necessary.

■   **HUMAX CONSUMER WARRANTY**
HUMAX warrants this product to be free of defects in materials and workmanship, subject to the conditions set forth overleaf.

■   **CONDITIONS**

1. The HUMAX Warranty is valid for a period of two years from the date of first purchase.
2. In the event that this product fails to function properly during the warranty period, the retailer or distributor will make this product capable of operating for the purpose of which it was designed, without charging for labour and parts.
3. This warranty will be honoured only if the Warranty Certificate has been duly completed by the purchaser and is presented to the retailer with the original invoice or receipt.
4. This warranty does not cover shipping or transportation charges from you to us.
5. The obligations of HUMAX are limited to the repair of defect parts. Costs and risks of transport to the retailer as well as removal and installation of the product, and any other costs directly or indirectly related to its repair, are not covered by the warranty.
6. All warranty repairs performed by non-authorized repair shops will not be reimbursed and if such repairs damage this product such damage will not be covered by this warranty.
7. This warranty is not applicable in cases other than defects in materials or workmanship and, in particular, does not cover:
   a. periodic check-ups, adjustments, maintenance or conversions as well as replacement of parts due to normal wear and tear;
   b. damage caused by accidents, negligence, modifications, use of non-HUMAX parts, improper use, installation or package;
   c. damage caused by lightning, water, fire, acts of war, public disturbances, incorrect mains voltages, incorrect ventilation or any other cause beyond the control of the HUMAX.
   d. products where the label bearing the serial number has been removed, defaced or is illegible.
8. This warranty is offered to any person who has legally obtained possession of this product within the warranty period.
9. HUMAX's maximum liability shall not exceed the actual purchase price paid by you for the product. In no event shall HUMAX be liable for special, incidental, consequential or indirect damages.

UK	
Tel:	0344 318 8800
Opening Hours:	Mon - Fri 09:00 – 17:30 (excluding Bank Holidays)
E-mail:	uksupport@humax-digital.co.uk
Website:	www.humaxdigital.co.uk
Language:	English