

Humax Freeview Play HD Recorder
Model: FVP-5000T

Product Manual

Welcome to your Humax FVP-5000T Freeview Play HD Recorder.

This manual contains all the detailed information for you to explore and enjoy all the great features of this smart HD TV recorder.

If you require any help installing or setting up, feel free to call us on **0344 318 8800** (Mon-Fri 9am-5pm).

Your default PIN is: 0000

Text too small? Our latest product manuals can also be found online at:

uk.humaxdigital.com/support

HUMAX

Contents

GETTING STARTED

Product Overview	2
Connections	3
Remote Control	4
Navigation	5

WATCHING TV

Live TV	6
Watching and recording live TV	
Programme info & mini guide	
Display options	
On-screen icons	
TV Guide	8
Browsing the guide	
Setting reminders/recordings	
Catch up via TV Guide	
Smart Search	10
Freeview Play Home	11
Players	12
Top Picks	13
On Demand	
On Now	
Next	
Recordings	
Recordings	14
Accessing your recorded content	
Watching your recorded content	
Media	15
via Home Network	
via USB/Hard Drive	
Playback content	
HUMAX Live TV App	18

SETTINGS

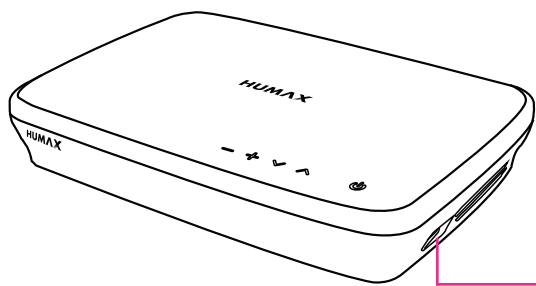
General Settings	20
Parental control	
On-screen display	
Network Settings	21
Wi-Fi/Ethernet settings	
Network sever and file share	
PVR Settings	22
Recording options	
Storage options	
Channel Settings	23
Setting favourite channels	
Automatic/manual search	
Advanced Settings	24
System Settings	25
Software update	
Power management	
Factory resetting	
On-screen Setup	26

ADDITIONAL INFORMATION

Specification	28
Glossary	29
Troubleshooting	30
Universal Remote Control	34
For your information	36
For your safety	38
Open Source License Agreement	40

Product Overview

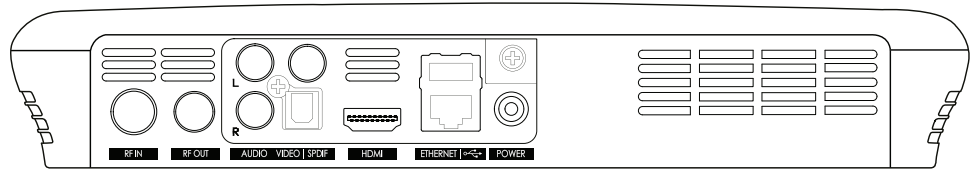
Front & Side



Components

	Power (Standby)
	Channel up
	Channel down
	Volume up
	Volume down
	LED (Facing down on surface)
	Side USB 2.0 port

Back



Connection Ports

RF IN	Aerial in port
RF OUT	Aerial out port (loop-through)
AUDIO VIDEO SPDIF	Audio Video SPDIF port

HDMI	HDMI audio/video port
ETHERNET USB 2.0	Ethernet and USB 2.0 port
POWER	AC Power adapter port

What's in the box



Remote Control
& Batteries



HDMI Cable



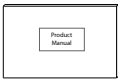
Ethernet Cable



AC Power
Adapter



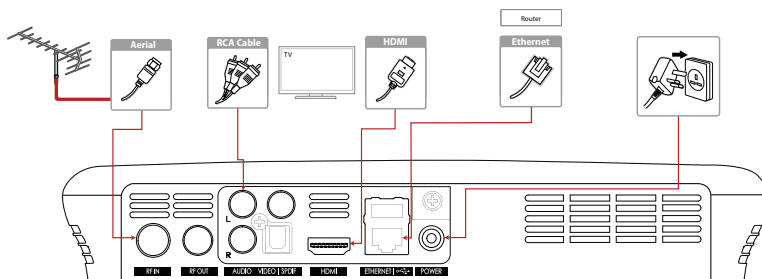
Quick Setup
Guide



Product
Manual

Connections

Here's what goes where for your new Freeview Play Recorder



Connecting the aerial

This product is compatible with an aerial connection only.

Use the aerial connection that comes in to your house from the main antenna. If you do not have one, you can try an indoor aerial. (Satellite connections are not compatible.)

The cable from the aerial will plug in to the **RF IN** port at the back of your box.

This recorder also supports loop-through functionality. If you would like to receive a direct aerial signal back in to your compatible TV, connect an aerial cable to the back of your TV and the other end in to the **RF OUT** port at the back of your box.

Connecting to the TV

Using a HDMI cable

Use a HDMI cable to connect to the TV. This will provide up to 1080p HD picture quality.

Plug one end in to your TV's HDMI port and the other in to the **HDMI** port at the back of your box.

Using a RCA cable

For the best picture quality, we recommend using a HDMI cable.

Alternatively use a RCA cable to connect one end to your TV and the other in to the **AUDIO | VIDEO | SPDIF** port on the back of your box.

Tips:

- Make sure all the cables are secure before you power on.
- See the system settings section for on-screen setup instructions.
- Set Power Saving Mode to OFF when using the aerial loop-through function (RF OUT).
- Connecting your TV directly to the audio/video output of the product will assure a more vivid picture and enhance your viewing enjoyment.

Connecting to the internet

Ethernet Wired Connection (LAN)

Connect an Ethernet cable to your broadband router and plug the other end in to the **ETHERNET** port at the back of your box.

The internet should connect automatically, but if you have trouble connecting you can find the on-screen settings later by navigating to:

Freeview Play Home > SETTINGS > Network Settings

Wi-Fi Wireless Connection (WLAN)

Your product has a built-in wireless receiver.

You can configure these settings at any time by navigating to:

Freeview Play Home > SETTINGS > Network Settings > Configure WLAN

Connecting the power

Use the AC adapter provided and plug in to a power socket.

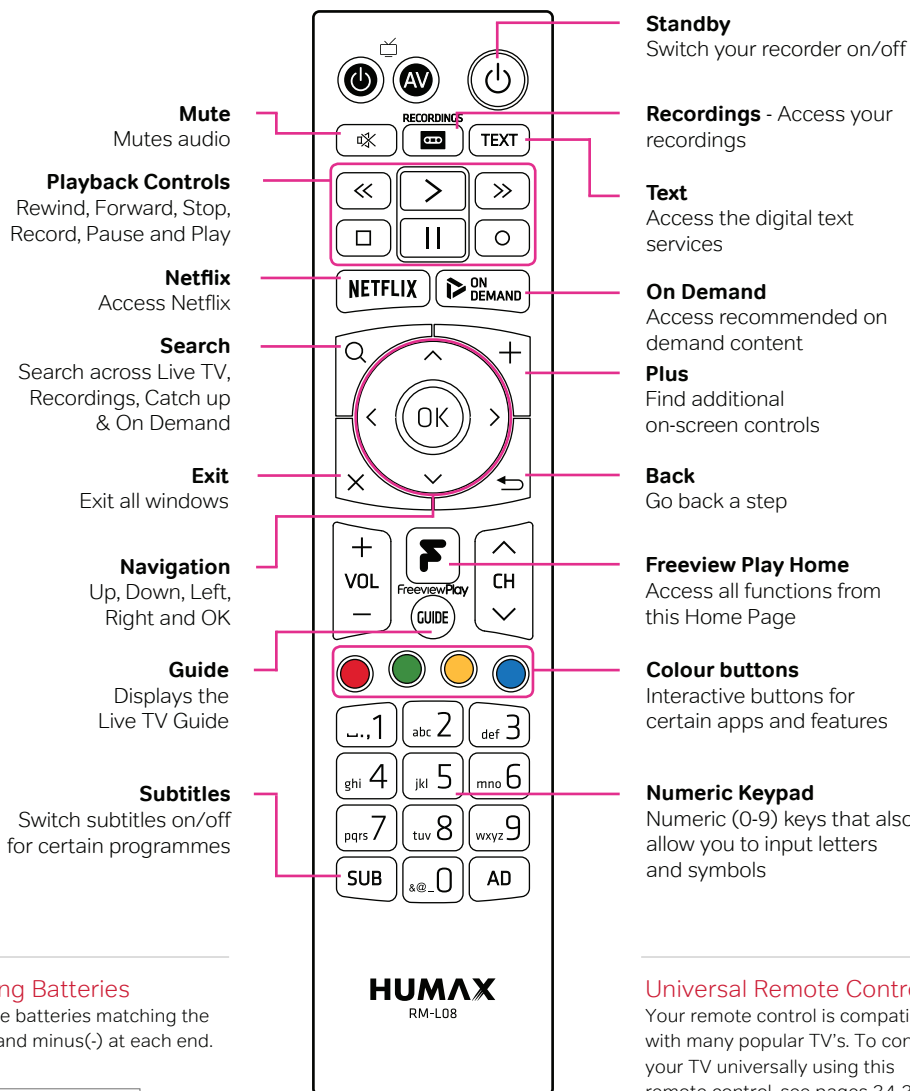
Plug the other end in to the **POWER** port at the back of your box.

HDMI CEC

HDMI CEC (Consumer Electronics Control) lets you to control the TV and HDMI CEC supported devices through the HDMI input. If your TV supports this feature, it will turn on/off automatically when the recorder is powered on/off.

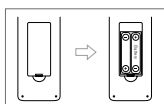
Remote Control

Breakdown of which buttons do what on your remote



Inserting Batteries

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

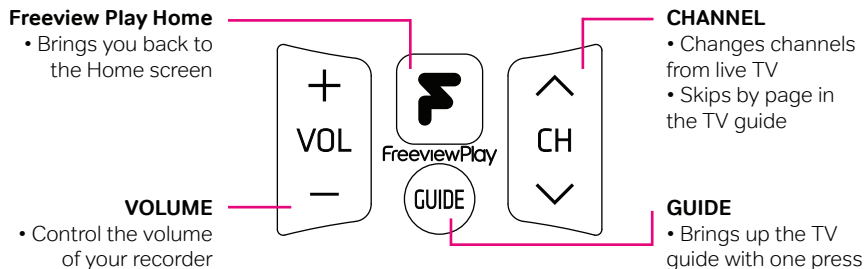
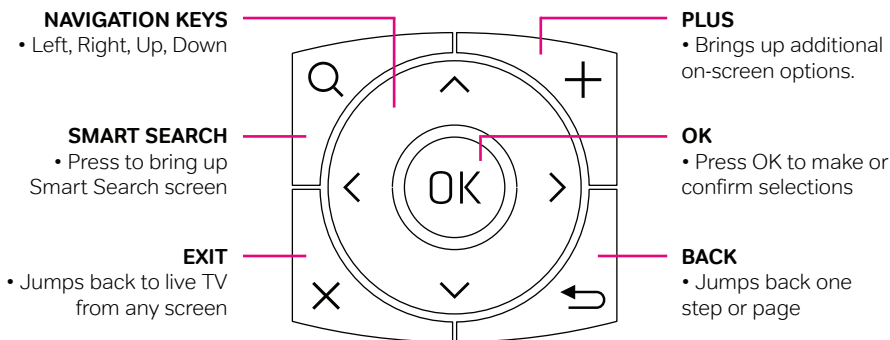
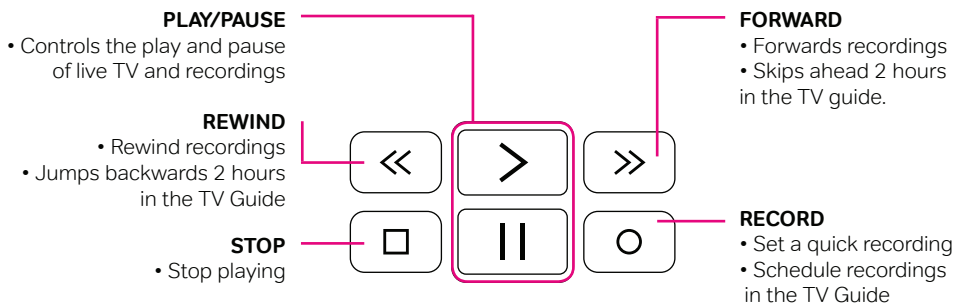


Tips:

- If the remote controls batteries are running low, the STANDBY and TV STANDBY buttons will blink twice every time you press the Freeview Play home button.

Navigation

Get to know these buttons on your remote, they'll come in handy

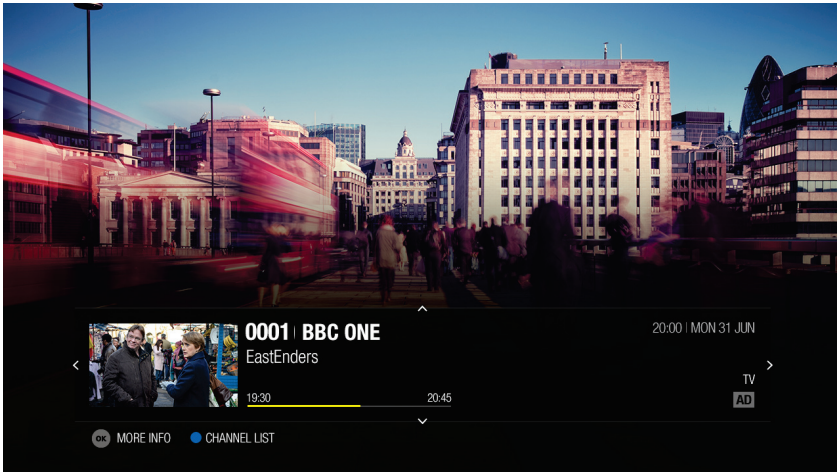


Tips:

- If you have a HDMI CEC enabled TV, you can control the volume of your TV universally at the same time. See page 34.

Live TV

Watch programmes live and find out more about them



Watching live TV

You can enjoy plenty of live TV channels in real time.



Use the channel buttons to flick through individual channels.



Directly input channel numbers with the numerical pad.

Bringing up the Channel List



Pressing the arrow keys will bring up the channel list.



You can also press the BLUE button within the mini-guide to access this screen.

Pause, rewind and record live TV

Pausing live TV



Press the PAUSE button to pause live TV.



Press the PLAY button to continue watching from where you paused live TV.

Pressing the Pause button starts a time gap between live TV and the point you pressed pause.

Rewinding live TV to watch missed scenes



Press the REWIND button to start rewinding back to where you paused live TV. Press the Play button at the point you want to start watching.

Forwarding live TV to skip scenes



Press the FORWARD button when there is a time gap between the current watching point and the live broadcast point.

Instantly recording live TV



Whilst watching, press the RECORD button to record to the end of the programme.



Press STOP if you want to manually end the recording.

Tips:

- You can rewind live TV by up to x64 normal speed.
- Your recorder will start to temporarily store live TV footage 10 seconds after switching to that channel.

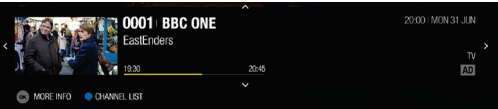
Time Shifted Recording (TSR)

Your Freeview Play Recorder supports time shifted recording (TSR) that allows you to pause a live programme and return to it later where you left off. The TSR function temporarily records the programme you are watching on the hard drive for up to 2 hours.

Programme information

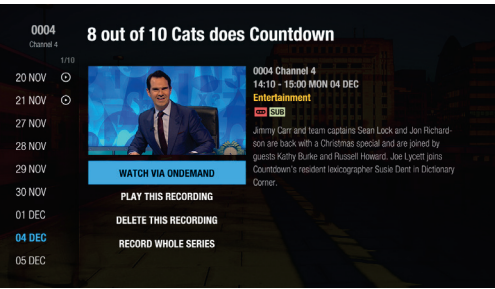
Mini-guide (simple guide)

- Pressing OK on live TV will bring up programme information of what's currently on.



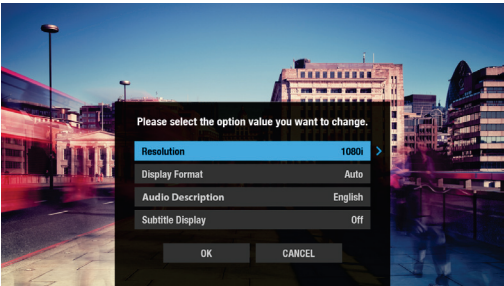
Additional programme information

- Press OK again to bring up additional programme information. From here record this programme, record whole series and set reminders.

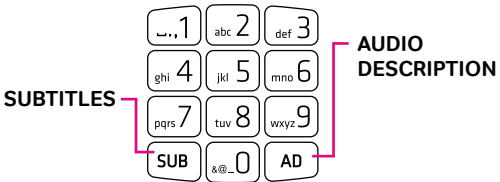


Display options

- You can access the display options by pressing the PLUS button.
- Change the resolution, display subtitles and enable audio descriptions.



Accessibility keys on your remote



On-screen icons

Recording icons

- Watching completed
- Partly watched
- Recording in progress
- Failed recording
- Programme with subtitles
- Series recording
- New recording available
- Also available in HD

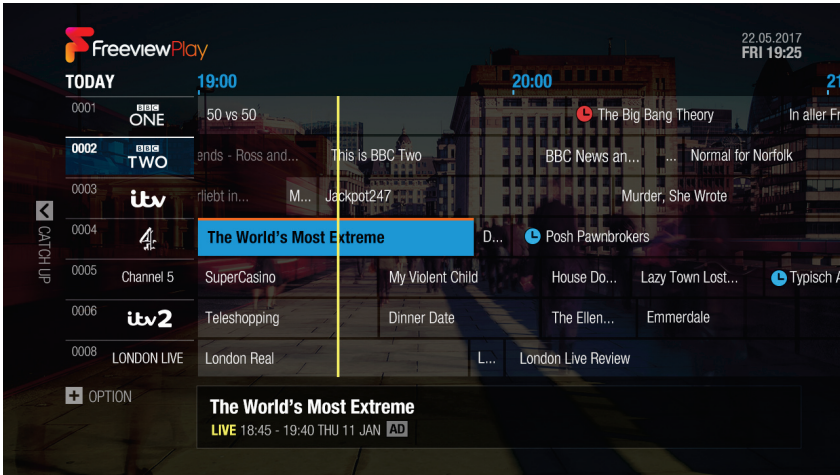
Programme icons

- High Definition programme
- Parental Guidance programme
- Blocked by digital recording management
- Encrypted programme
- Locked programme
- Dolby Audio
- Available with Audio Description
- Split programme

- Tips:
- Access smart search from live TV by pressing the search button on your remote control.
 - The TSR function will reset each time you change channels.

TV Guide

Browse up to 8 days in advance using the on-screen TV Guide



Use the  button on your remote to access this screen.

Making a selection

Select a programme and press the OK button to start watching it live or to bring up additional options. Alternatively, you can enter the channel numbers to jump to that channel.

Changing programme genre

1. Press the PLUS button and select GENRE SEARCH.
2. Select the genre and press the OK button.

You can see the channels categorised for each genre.

Setting quick reminders or recordings

Set a quick reminder



In the guide you can set a reminder by pressing OK on a programme and selecting SET REMINDER.

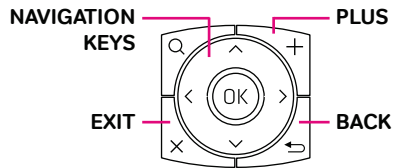
Set a quick recording



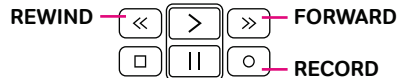
Press the RECORD button on your remote when a programme is highlighted in the guide. Press OK for further options including series record.

Navigating the TV Guide:

Use the navigation keys to scroll listings one at a time. Pressing the PLUS button will bring up further on-screen options.



Use the FORWARD and REWIND buttons to scroll the time-line back and forth by 2 hours.



Tips:

- Use change by group to quickly sort SD channels, HD channels and Radio channels.

Setting reminders or recordings within the TV Guide

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.

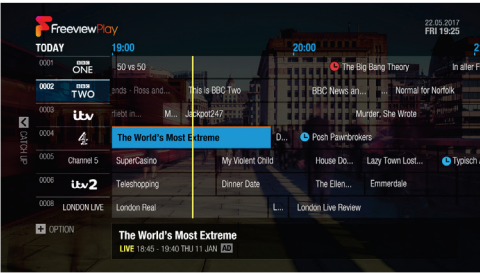
Note:

- If the programme conflicts with another programme, adjust the scheduling appropriately.
- 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 customer services.

Next or Previous Programmes

Viewing what's on next via the TV Guide

- + Press the PLUS button and use JUMP TO DATE to search for programmes up to 8 days in advance.
- ⏮ Alternatively, long press the navigation keys to move to a previous or next day.



Watching previous shows via catch up

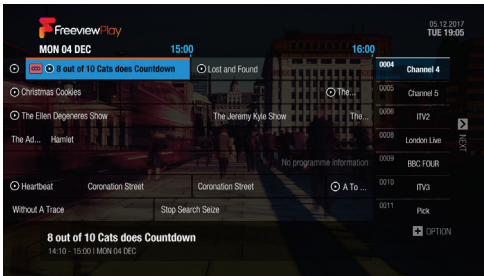
You may have noticed the  icon next to certain programmes within the TV Guide.

This means you can watch that programme directly on demand without waiting.

1. Press the LEFT navigation key to go back in the guide to see past 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:

Catch up programmes are accessible only when connected to the internet and that programme is available on catch up from the broadcaster.



On-screen Icons:

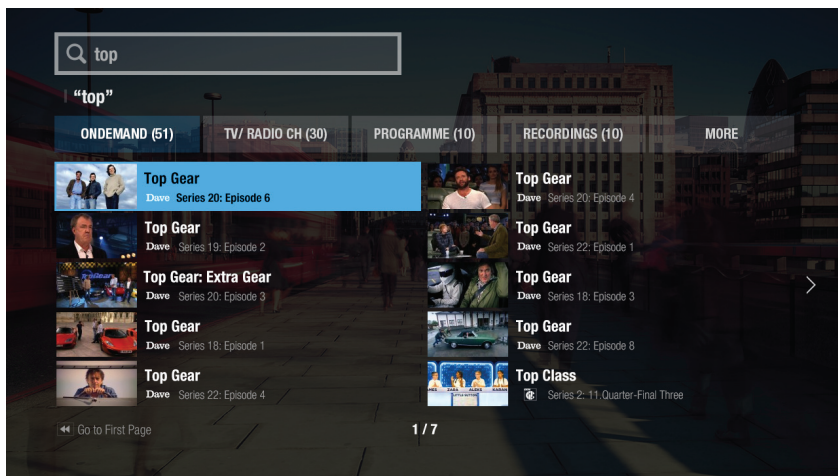
-  Watching completed
-  Partly watched
-  Recording single episode
-  Recording series set
-  Recording in progress
-  Reminder set
-  Coming soon on demand
-  In your recordings

Tips:

- Alternatively, you can access this screen by navigating to TV Guide on the Freeview Play Home screen.
- Use the BACK button to exit programme selections.

Smart Search

Find your favourite shows with our powerful search feature



Use the  button on your remote to access this screen.

Searching via keyword

You can search for your favourite shows from Live TV, Catch up, Recordings and On Demand.

 Press the SEARCH button.

 Start entering a keyword using the numerical pad or select characters on-screen.

Suggested searches will appear on screen after you start typing the first 3 characters.

Your recorder will categorize content by On Demand, TV/Radio Channels, Programme, Recordings, Apps or Network Server.

With the categorised content, you can search for your favourites at a glance and watch it right on your TV.

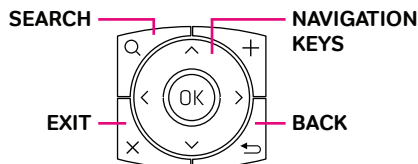
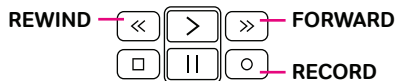
Navigating the Smart Search screen:

Pressing the rewind button will go back to the first page of results.

Use the navigation keys to select a programme.

Confirm selections by pressing OK.

Set recordings by pressing the record button in programme listings.

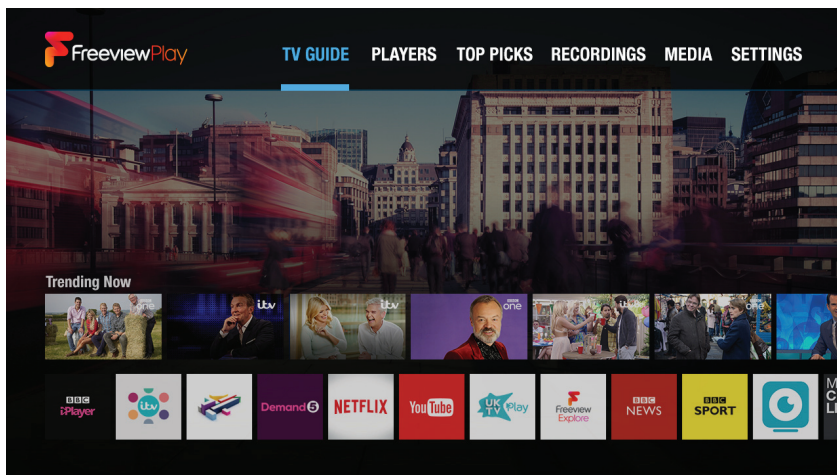


Tips:

- Access smart search wherever you are by using the search button on your remote control.
- Enter at least three characters to start predictive searches.

Freeview Play Home

The heart of your TV entertainment



Use the  button on your remote to access this screen.

From the Freeview Play Home screen, access:

TV Guide

Browse through tons of TV channels, set reminders and recordings all from one place.

Players

Access all on demand players from here.

Top Picks

View unmissable TV suggestions via Live TV, On Demand, Catch up and Recordings.

Recordings

Your Freeview Play recorder will store recorded content here.

Media

Playback your own custom media from video, music and photos.

Settings

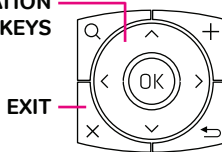
Access the settings of your Freeview Play recorder.

Navigating Freeview Play Home:

Use the navigation keys to browse through the selections.

Press OK to confirm selections.

NAVIGATION KEYS



EXIT

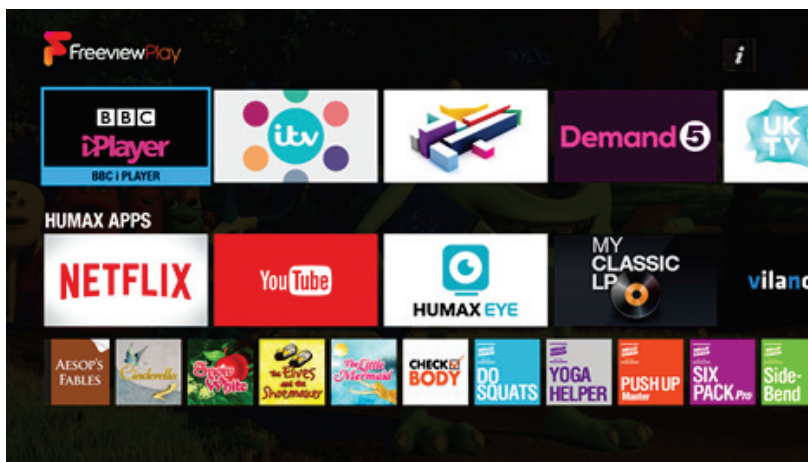
Press EXIT to switch back to live TV.

Tips:

- To get the most out of your product, make sure it is connected to the internet.
- Top Picks allows you to enjoy trending content that Freeview and Humax have recommended.

Players

Catch up and on demand all in one place



Use the  button and navigate to PLAYERS to access this screen.

Catch up apps and Players

It's easier than ever to browse and watch the hottest media content right on your TV.



Press the Freeview Play button to access Players.



Press OK to select a service and continue to follow the on-screen setup instructions.

NETFLIX

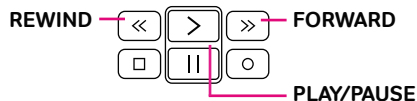
Use the Netflix hot-key located on your remote to quickly access your favourite Netflix shows.
(Netflix streaming membership required.)

Note:

- Apps may differ based on geographical location.
- TV APPS are subject to change without notice. HUMAX is not responsible for the content or the discontinuity of the services.

Navigating the Players section:

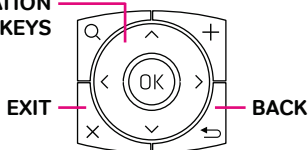
Use the playback control buttons to control the content on the selected player app.



Use the navigation keys to scroll listings one at a time.

Confirm selections by pressing OK.

NAVIGATION KEYS



Use the channel buttons to jump by page.

Tips:

- Remember to take full advantage of the Freeview Play and various HUMAX services offered by connecting your recorder to the internet.

Top Picks

Popular content based on suggestions and your viewing history

Use the  button on your remote to access this screen.



You can also press the Freeview Play button and navigate to TOP PICKS.

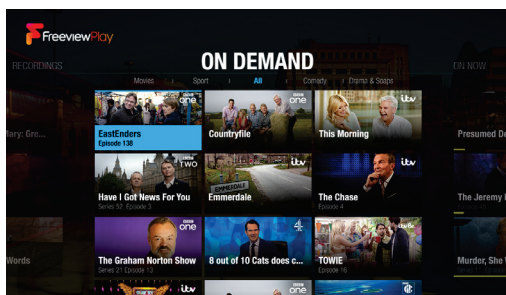
Find On Demand, On Now, Next and Recordings under the Top Picks menu. Freeview and Humax recommend featured content based on live viewing trends and categorise shows accordingly.

On Demand

View Freeview On Demand recommendations. Recommended programmes are categorised by genre and thus enables you to search content with ease.



Press OK on the selected programme to be taken to the content provider's on demand app.



On Now

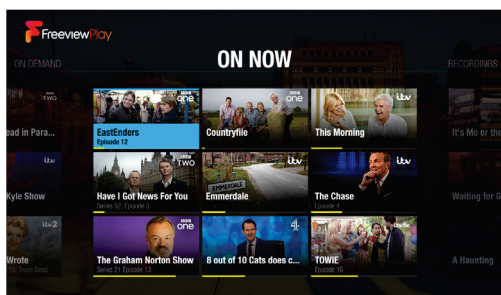
Easily see what's on featured channels in real-time making programme selection easier.



Press OK to watch the selected programme.



Press the PLUS button to replace channels.



Next

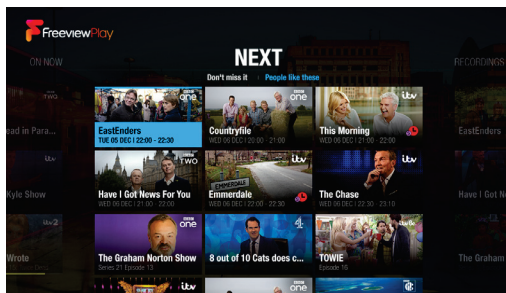
Not to be missed programmes coming on later in the day across popular channels.



Press RECORD to set a quick recording.



Press OK on the selected programme to set a reminder.

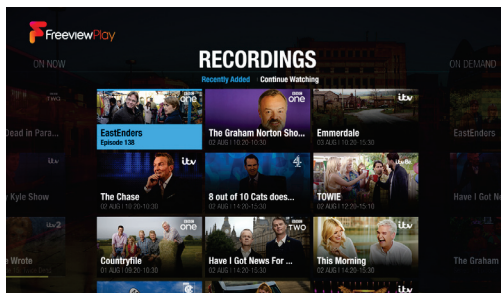


Recordings

Saved recordings are categorised into two groups, Recently Added and Continue Watching.



Press OK on the selected programme to start or resume watching.

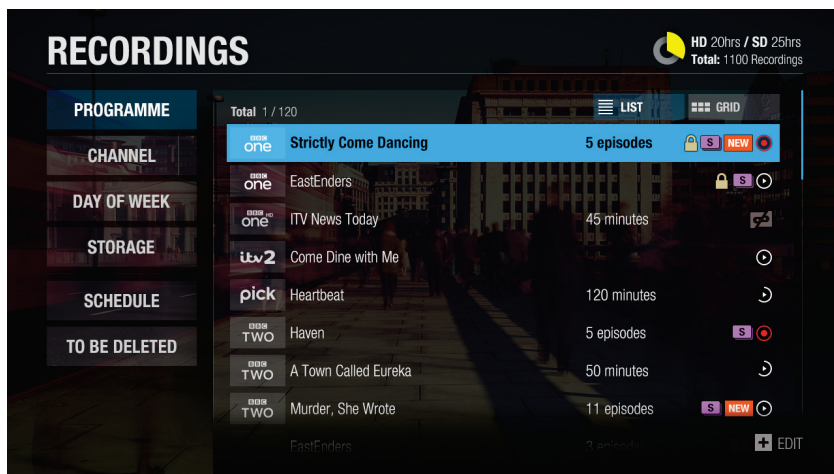


Tips:

- Top Picks helps select the most popular shows for you all in one place.
- Make sure you are connected to the internet to access all services.

Recordings

Access all of your recordings from one place



Use the  button on your remote to access this screen.

Playing recorded programmes



You can also press the Freeview Play button and navigate to RECORDINGS.

From here you can watch the recordings stored on your built-in hard disk drive. Recordings are categorised so that it's easier for you to find the programme you want.

Playing Recordings

1. Press the Freeview Play button and select RECORDINGS.
2. Select one from the recording category list and press the OK button. The recorded programmes will be listed in the right column.
3. Select a recording and press the OK button.
You can play back the programme, delete it or record whole series if the programme is part of a series.

Recording on screen icons



Watching completed



Failed recording



Partly watched



New recording available



Recording in progress



Locked programme

Tips:

- Recording Conflicts - When you attempt to schedule many programmes at the same time, the guide will suggest alternative recording times to avoid clashes.

Ways to record

Record via TV Guide



Press the GUIDE button to select a programme you want to record. Press the RECORD button and a prompt will ask to record once or the series.



Record via Live TV



Press the OK button whilst viewing live TV to bring up the mini programme information and then press RECORD. A prompt will ask you to record once or the series.



Scheduling Recordings



You can schedule recordings or reminders manually.



1. Press the Freeview Play button, navigate to RECORDINGS and then SCHEDULE.



2. Select ADD A SCHEDULE.



3. Set a schedule manually.



4. Select OK and press OK to confirm.

Editing Recordings or Schedules



Navigate to RECORDINGS and SCHEDULE then press the PLUS button.

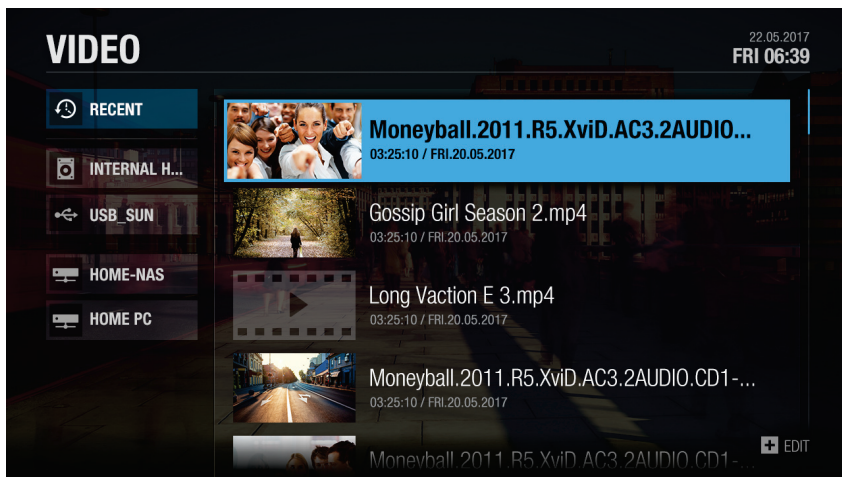


Select DELETE or RESCHEDULE.

Select OK and press OK to confirm.

Media via Home Network

Set up and access your own content via your home network



Use the  button and navigate to MEDIA to access this screen.

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 Freeview Play button.
2. Navigate to SETTINGS and press OK.
3. Select Network Settings.
4. Set the options for the LAN or Wireless LAN.

Playing Files from Home Network Devices

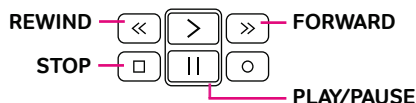
1. Select a home network device.
2. Select VIDEO, MUSIC or PHOTO.
3. Select files you want to play.

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.
- 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.

Playing content:

Use the playback control buttons to control your recorded programmes.

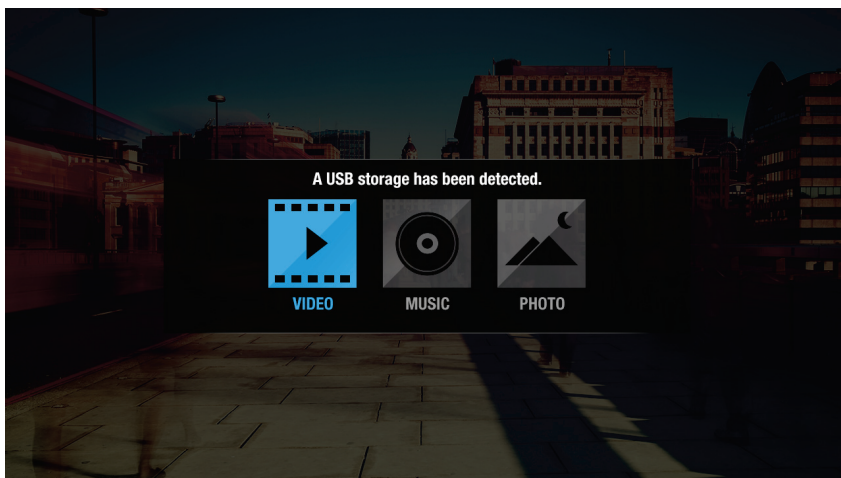


Tips:

- Refer to the instructions of your operating system for setting up home network server.

Media via USB/Hard Drive

Playback content via USB/Hard Drive



Use the  button and navigate to MEDIA to access this screen.

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:

- Use USB storage devices formatted by ext3, FAT or NTFS only.
- 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.

Tips:

- 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.

Accessing your media:

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.
- Some playback control buttons may not function depending on the contents.
- HUMAX is not responsible for any data loss or file damage.

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

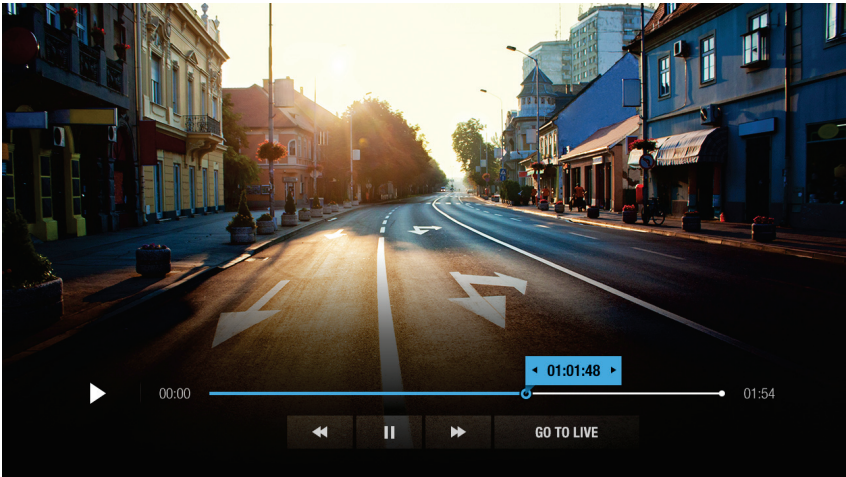
Editing files

You can delete, copy, move files and change storage configurations.

- + Select a file and press the PLUS button for on-screen options.

Media Playback

Here's how to play and control your own content



Playing your content

You can play video, music, photo files from the connected storage, home network devices or the internal hard drive.

 Press the Freeview Play button and navigate to MEDIA.

 Press OK to make selections.

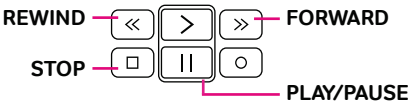
Supported file formats

- Video:** MP4, VOD, AVI, ASF, MKV, MPEG-2TS
- Photo:** JPEG, PNG, BMP, GIF
- Music:** MP3

Using the media controls:

Use the playback control buttons to control your content.

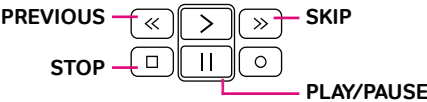
Video content



Displaying subtitles

 Press the SUBTITLES button and press OK whilst the play-bar is on screen to enable/disable subtitles.

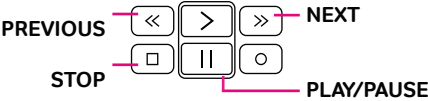
Music content



Playback options

 Press the PLUS button for repeat, normal or shuffle.

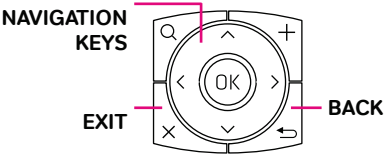
Photo content



Playback options

 Press the PLUS button for slideshow speed and music.

Use the navigation keys to scroll listings one at a time. Confirm selections by pressing OK.



Tips:

- Subtitle files may not be available for some video files. (Compatible files only.)
- You can play music whilst watching a photo slideshow by setting Play Music to ON.

Humax Live TV App

View live TV and your recordings via the Humax Live TV App

How to get started

1. Download the app



The FREE Humax Live TV App is available on both Android & iOS.

On the App Store search for: **HUMAX Live TV**

Once installed, click to open the app.

2. Register to myhumax

To ensure access to all the features provided, we recommend you register to myhumax.

Follow the registration process within the app:

Open App > Settings/Help > MyProfile > Register or online at: <https://www.myhumax.net>

3. Pair with your recorder

On your recorder:

Navigate to:

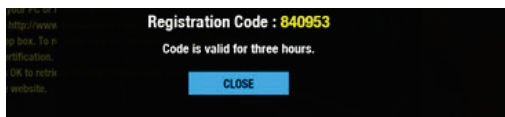
SETTINGS > Advanced Settings > Server Management and make sure the Network Server is set to On.

On the app:

1. Tap on the LIVE TV tab and press CONNECT.
2. Select the recorder to pair with your smart device.
3. The app will ask for a registration code.
To retrieve a registration code, on your recorder go to:

HOME > SETTINGS > Advanced Settings >

Recorder Registration > Retrieve Registration Code



Note:

- Pay TV channels may be limited.
- Live TV App performance relies on the recorder's built-in tuner and aerial signal.
- If no HUMAX product is detected, please check your wireless network settings.
- The Humax Live TV App is subject to changes without notice.

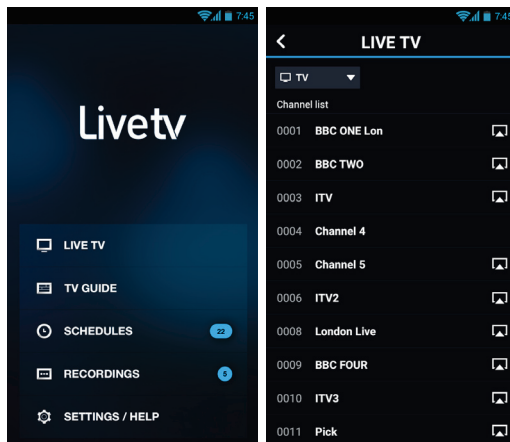
Tips:

- Disable power saving mode to remotely access functionality from the recorder while it's in stand by.
- Your recorder and smart device should be connected to the same local network.

Accessing Live TV

Watch live TV, play back recordings, schedule recordings or reminders and more from HUMAX Live TV App.

You can stream live TV directly to your mobile devices.



Watching live TV content on your smart device

You can bring a live programme from your TV to your mobile device.

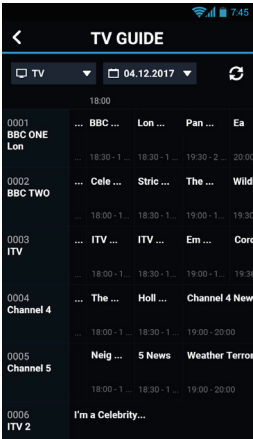
1. Tap anywhere while watching to display the icons on the screen.
2. Tap the icon  to bring the programme from your TV to your mobile device.

Sending live TV programmes to watch on your recorder

You can send your watching programme on your mobile device to your TV.

1. Tap anywhere while watching to display the icons on the screen.
2. Tap the icon  and select your HUMAX product. The programme plays on your TV.

Accessing the mobile TV Guide



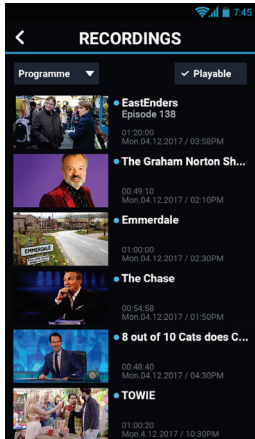
From the home screen, tap TV GUIDE.

Explore a full TV Guide on your mobile and select programmes to watch live whilst paired with your recorder.

Set reminders or recordings from the TV Guide.

Tap a programme to bring up additional options.

Accessing your recordings



From the home screen, tap RECORDINGS.

View recordings that are available on your recorder.

(Some recordings may be subject to copyright/play-back law.)

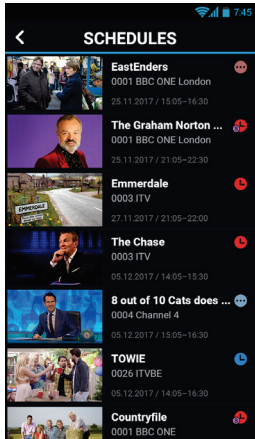
Schedule a remote reminder/recording



You can schedule recordings or reminders on your HUMAX product remotely using your mobile device.

1. Tap GUIDE to go to TV Guide.
2. Select a programme.
3. Tap Record this programme or Set reminder.

Accessing your schedules



From the home screen, tap SCHEDULES.

Tap a programme for additional options.

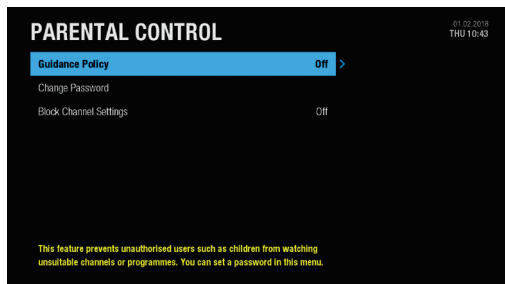
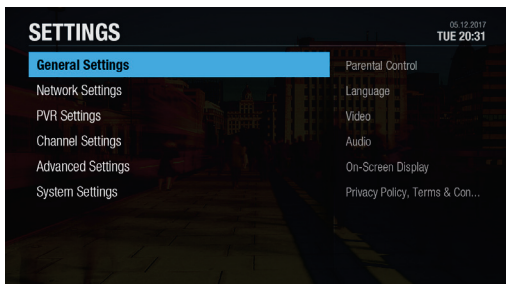
You can schedule recordings for whole series if the programme is part of a series.

Tips:

- Some features are not available outside of the home network.
- HUMAX Applications require at least Android 4.0 or later, and iOS 8 or later.

General Settings

Control what content is displayed on your recorder



Use the  button and navigate to SETTINGS to access this screen.

Parental Control

- **Guidance Policy:** You can set parental guidance on recordings or internet content during the watershed period between 21:00-05:30 for adult content.
- **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 subtitles. (If applicable)

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.

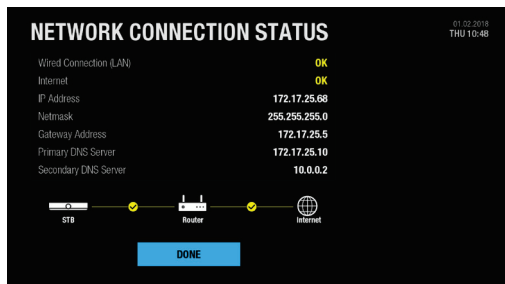
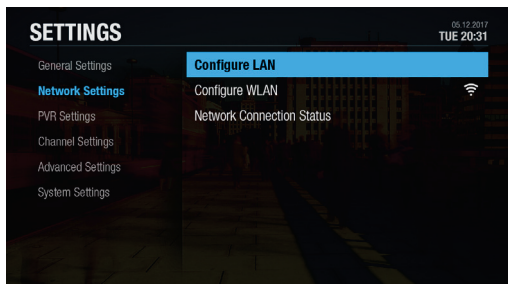
Privacy Policy, Terms & Conditions

You can agree or disagree to send HUMAX your watching information.

Your watching information will be helpful for HUMAX to improve products, software and services.

Network Settings

Optimise your internet connection for the best performance



Use the  button and navigate to SETTINGS to access this screen.

Configuring LAN

1. Select Configure LAN for wired connection.
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 be automatically assigned.
 - 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 for wireless connection.
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.

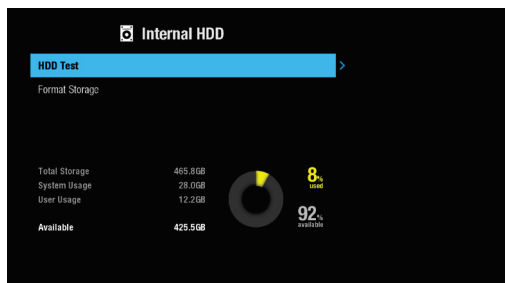
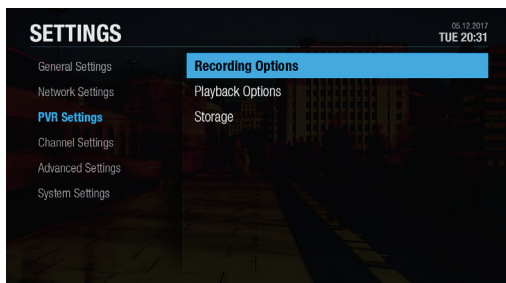
Network Connection Status

You can view the connection status of the local area network or the Internet.

Select RETRY if either network is disconnected.

PVR Settings

Set recordings outside of the home and optimise storage



Use the  button and navigate to SETTINGS to access this screen.

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 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

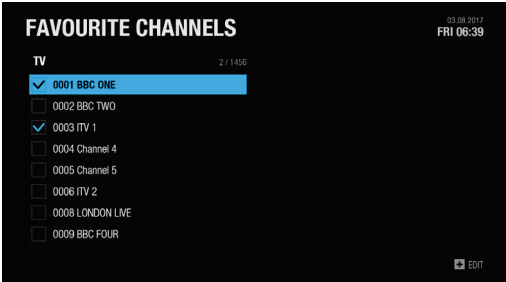
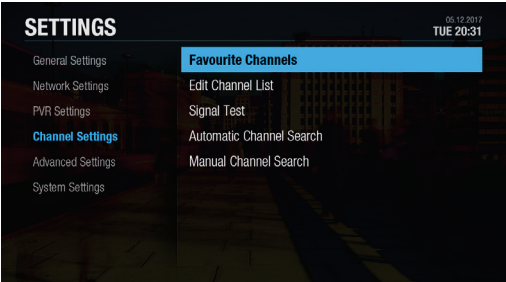
You can check the capacity of each storage or format the storage when necessary.

- 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.

Channel Settings

Add channels manually and create favourites



Use the  button and navigate to SETTINGS to access this screen.

Favourite Channels

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 Favourite. Select the group and press the OK button.

Signal Test

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

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.

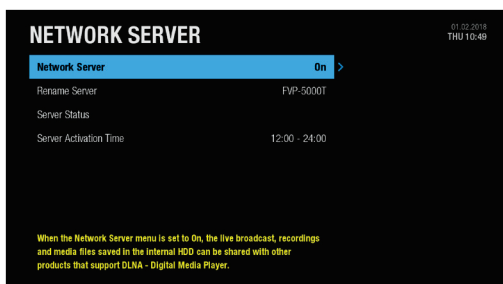
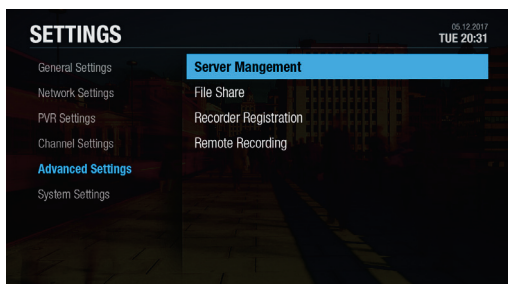
Automatic Channel Search

You can search channels automatically without entering any other information as long as your aerial is connected. 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.

Advanced Settings

Server, file sharing, recorder registration and remote record



Use the  button and navigate to SETTINGS to access this screen.

Server Management

- 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.
- Server Activation Time: You can turn on the server during the time even when the product is in standby mode.

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.

Recorder Registration

You can set up recordings on your product from your PC or mobile devices. To use this feature, you need to register your product in the website.

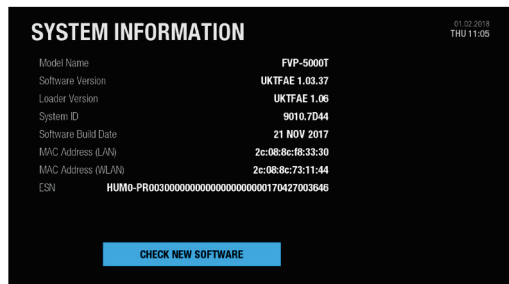
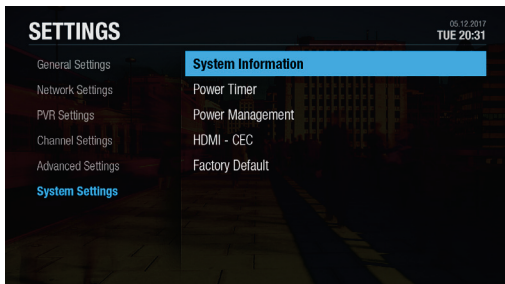
1. Go to <https://www.myhumax.net> and create an account and register your product.
2. To register your product, you need a registration code for certification. Select Retrieve Registration Code and press the OK button.
3. Enter the registration code in the website.

Remote Recording

- Remote Recording: Set to On to use the remote recording feature.
- Update Period: Set the period to receive the recording schedule from the HUMAX server.
- Update Interval: Set the update interval.

System Settings

Search for system software updates and more



Use the  button and navigate to SETTINGS to access this screen.

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 Mode: Select On to reduce the power consumption in standby to below 0.5W. If set to Off, the product will continue to transmit a signal even in standby (required if the H3* smart streamer is connected).

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.

*H3 sold separately.

HDMI-CEC

You can set your TV to turn on or off automatically alongside the recorder.

Factory Reset

You can restore your HUMAX recorder to its factory default settings with this option.

Use this if you need to reset your HUMAX recorder to it's out of the box settings.

WARNING: This will delete any preferences, recordings and settings which can not be undone.

Shortly after you complete the factory reset, the On-screen setup will appear automatically.

See the next page for a full walk through.

On-screen setup

A step-by-step guide to get your box up and running

1. Preferred Language

Select your preferred language.

Press OK to continue.

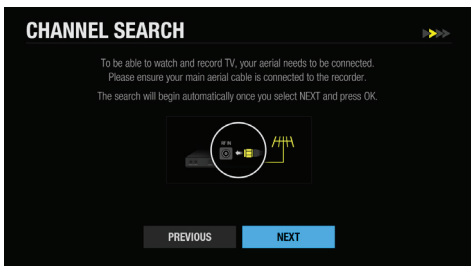


2. Channel Search

This is where your aerial will automatically pick up any available channels. Select NEXT and press OK to start searching.

Save the found channels once the search is complete.

Note: You can also search channels manually. See Channel Settings on page **

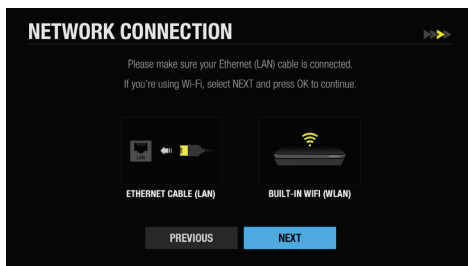


3. Network Connection

Make sure your Ethernet cable is connected to your box and router.

The internet connection should be made automatically once you select NEXT and press OK.

If you're using Wi-Fi, select NEXT and press OK to continue and follow the on-screen instructions.



Tips:

- The installation wizard operates automatically when you power on the product for the first time or complete a factory reset from the settings menu.

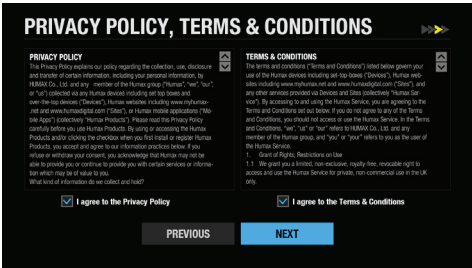
4. Privacy Policy, Terms & Conditions

Please read through the privacy policy and terms & conditions to use HUMAX services.

Don't forget, we will always treat all your personal information as private and confidential.

Agreeing will help us improve our products, software and services in the future.

Select NEXT and press OK to continue.



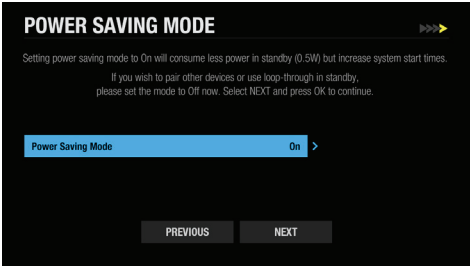
5. Power Saving Mode

Setting power saving mode to On will consume less power in standby mode (0.5W) but increase system start times.

If you use loop-through or will use other devices to interact with the recorder in standby mode, please set this feature to Off now.

You can choose to enable/disable this feature at any time within the settings.

Select NEXT and press OK to continue.



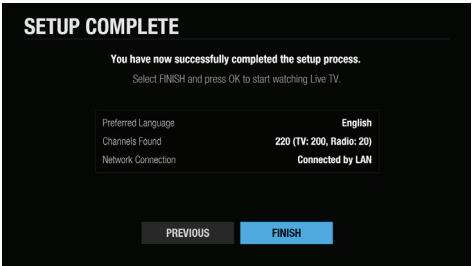
6. Setup Complete

Congratulations. You should see a summary of how many channels your box has picked up within your area.

The on-screen setup is now complete. Select next to go to the home screen.

You can now select channels, browse the TV guide, view on-demand and more.

Select FINISH and press OK.



Tips:

- If you exit the installation wizard without fully completing the channel searching procedure, you may not have all of the channels available. To add additional channels, on your recorder go to:

Freeview Play Home>SETTINGS>Channel Settings>Search Channels

Specification

Tuner & Demodulator	
Number of Tuners	3 Tuners
RF Input Connector	IEC 169-2, female
RF Loop though Connector	IEC 169-2, male
Input Frequency Range	470MHz ~ 862 MHz
Modulation	OFDM
Mode	DVB T: 2K, 8K DVB T2: 1K, 2K, 4K, 8K, 16K, 32K
FEC Mode	DVB T: 1/2, 2/3, 3/4, 5/6, 7/8 DVB T2: 1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Guard Interval	DVB T: 1/4, 1/8, 1/16, 1/32 DVB T2: 1/4, 1/8, 1/16, 1/32, 1/128, 19/128, 19/256
Constellation	DVB T: QPSK, 16-QAM, 64-QAM DVB T2: QPSK, 16-QAM, 64-QAM, 256-QAM
Audio/Video Decoding	
Audio Decoding	MPEG/MusiCam Layer I & II
Audio Mode	Single channel/Dual channel/Joint stereo/Stereo
Video Decoding	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Video Format	4:3, 16:9
Video Resolution	1080p, 1080i, 720p, 576p, 576i
Memory	
Flash Memory	512MB
RAM	DDR3 1GB
Audio/Video In/Out	
Video	RCA, HDMI/HDCP
Audio	Audio L/R, S/PDIF
Data In/Out	
USB	USB 2.0 Host (5 V $\overline{\text{---}}$ 0.5A) x 2EA
File Format	JPEG, MP3

Hard Disk	
HDD	500GB/1TB/2TB
Power Supply	
Input Voltage	200V - 240V ~ 50/60Hz 0.8A
Type	Adaptor
Power Consumption	12V $\overline{\text{---}}$ 2.5A (Standby under 0.5W)
Protection	Separate internal fuse. The input should be protected against lightning.
Physical Specification	
Size (w/h/d)	280 x 48 x 200 (mm)
Weight	1.03 kg

Note: The specification is subject to change without notice.

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 Bit-stream. 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 aluminium 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 playback programmes directly using the built-in Hard Disc Drive.

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.

UHF (Ultra High Frequency)

Channels 14-51 - Designation for radio frequencies in the range between 30 megahertz (MHz) and 300 (MHz)

VHF (Very High Frequency)

Channels 2-13 - Designation for radio frequencies in the range between 300 megahertz (MHz) and 3 gigahertz (GHz)

Troubleshooting

Take a look at solutions to commonly known problems

Before contacting the customer service centre, make sure to read the tips below carefully. If the problem persists after you complete the following procedure, please contact customer services on: **0344 318 8800** (Mon-Fri 9am-5pm).

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 Freeview Play > 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.

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 Freeview Play > 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 Freeview Play > SETTINGS > Networks Settings > Network Connection Status. Note: If your product stays connected to the network, every-time you turn off the product it will search for any updates available on air. • To manually search for any updates available, go to Freeview Play > 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 Freeview Play > 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 Freeview Play > Settings > System Settings > System Information and check Software Version.
Randomly Shuts itself off	Automatic Power Down Option On Timer is set	• Go to Freeview Play > SETTINGS > System Settings > Power Management and then check if Automatic Power Down is set to On. • Go to Freeview Play > SETTINGS > System Settings > Power Timer and then check if Power Off Timer is set to On.

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

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 Freeview Play > SETTINGS > PVR Settings > Recording options and set the padding times. - Check if your product recognizes problems with the HDD. Go to Freeview Play > 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 Freeview Play > SETTINGS > PVR Settings > Recording Options and set the padding times.
How enter passive mode		Go to Freeview Play > 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 Freeview Play > 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 Freeview Play > MEDIA 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 Freeview Play > MEDIA 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 Freeview Play > 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 Freeview Play > 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 to run slowly.

Media

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 Freeview Play > SETTINGS > Advanced Settings > Server Management 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 compliant 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 Freeview Play > 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 Freeview Play > SETTINGS > Advanced Settings > File Share and set SAMBA Server to On. • Make sure that the FTP server is activated. Go to Freeview Play > SETTINGS > Advanced Settings > File Share and set FTP Server to On. • Check if the password is correct. Go to Freeview Play > SETTINGS > Advanced 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.

Universal Remote Control

Set the universal remote control by entering 3 digit code

1. Press the TV STANDBY and OK buttons at the same time for 3 seconds. The TV STANDBY button will light on.
2. Direct the remote control to your TV and 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. Once your TV turns off press the OK button to lock the code. Your TV will turn off when matched with the code.
4. The TV STANDBY button will blink three times if the universal remote control setting is successful.

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.

Set the universal remote control to search mode

1. Press the TV STANDBY and OK buttons at the same time for 3 seconds. The TV STANDBY button will light on.
2. Direct the remote control to your TV and press the CH ^/v button to search the brand code of the TV.
3. Once your TV turns off press the OK button to lock the code. Your TV will turn off when matched with the code.
4. The TV STANDBY button will blink three times if the universal remote control setting is successful.

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

Brand	Code
Acer	261, 278, 305
Acoustic Solutions	210, 312, 324, 370, 386, 428, 477
Akai	102, 006, 098, 144, 145, 111, 061, 043, 074, 148, 232, 280, 128, 122, 461, 109, 462, 489, 094, 084, 083, 065, 035, 034, 033, 028, 023, 011, 004, 002, 154, 321
Alba	006, 144, 134, 204, 087, 064, 036, 005, 108, 473, 455, 447, 388, 099, 084, 077, 072, 065, 059, 034, 023, 002
Bang & Olufsen	014
Beko	006, 144, 086, 145, 111, 064, 072, 172, 361, 405
BenQ	223, 328, 329
Black Diamond	444, 204, 211
Brionvega	006, 014, 062
Bush	102, 006, 144, 134, 204, 138, 087, 061, 043, 036, 005, 108, 376, 373, 370, 361, 355, 352, 327, 388, 430, 431, 432, 440, 448, 451, 473, 476, 477, 478, 002, 033, 035, 044, 045, 056, 059, 065, 066, 095, 133, 164, 210, 213, 229, 232, 250

cello	397, 410, 418, 419, 420
Crown	006, 144, 134, 204, 086, 145, 087, 111, 143, 064, 361, 135, 072, 071, 053, 033, 002
Daewoo	102, 006, 124, 444, 036, 441, 406, 341, 338, 271, 249, 195, 192, 190, 164, 133, 119, 091, 079, 066, 035, 034, 002
Dell	235, 278
DMTech	260, 438, 449, 454, 456
Ferguson	006, 120, 098, 103, 030, 204, 012, 020, 029, 046, 052, 054, 077, 292, 447, 476
Finlux	102, 006, 144, 145, 333, 327, 172, 122, 118, 094, 089, 084, 083, 070, 055, 035, 023, 018, 017, 014, 011, 010
Fujitsu	002, 011, 032, 035, 042, 137, 173, 187
Fujitsu General	002, 032, 035, 137
Fujitsu Siemens	172, 211, 230, 246, 268, 369
Funai	144, 134, 043, 275, 336, 369, 407
GoldStar	006, 144, 145, 111, 061, 001, 007, 020, 023, 027, 034, 035, 047, 067
Gooding	087
Goodmans	102, 006, 120, 144, 103, 134, 124, 444, 204, 087, 043, 036, 005, 478, 211, 232, 477, 250, 476, 271, 445, 355, 370, 373, 440, 376, 382, 383, 386, 002, 004, 011, 035, 047, 052, 054, 065, 066, 084, 091, 094, 119, 121, 133, 172, 195, 210
Graetz	144, 087, 061, 023, 053, 065, 211
Grundig	102, 006, 030, 087, 142, 005, 108, 498, 476, 448, 447, 445, 430, 405, 370, 271, 267, 250, 225, 135, 121, 010, 101, 096, 028, 077
Grunkel	211
Hannsree	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 see MDB1.3 for a complete list of supported codes from the following website:

<http://www.humaxdigital.com/global/support/rcucodelist.asp>

For your information

Copyright © 2018 HUMAX Corporation

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

Meaning of Symbols

	To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.
	This symbol indicates dangerous voltage inside the product that presents a risk of electric shock or personal injury.
	This symbol indicates important instructions accompanying the product.

Warnings, Cautions and Notes

Throughout the whole manual, pay special attention to the following headlines that indicate hazardous situations.

Warning:
Indicates a hazardous situation which could result in serious injury

Caution:
Indicates a situation which could damage the equipment or other apparatus

Note:
Indicates additional information to make the user aware of possible problems and information of any importance to help understand, use and maintain the installation.

Warranty

The warranty does not cover parts which may become defective due to misuse of the information contained in this manual.

1. The HUMAX Warranty is valid for a period of one year 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 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.

Trademarks

- Manufactured under license from Dolby Laboratories.
Dolby, Dolby audio and the double-D symbol are trademarks of Dolby Laboratories.
- HDMI, the HDMI Logo, and High-Definition Multimedia interface are trademarks and registered trademarks of HDMI Licensing LLC.

This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.



Note: The model name is located on the bottom of this product.

Simplified EU Declaration of Conformity

The simplified EU declaration of conformity referred to in Article 10(9) shall be provided as follows: Hereby, HUMAX declares that the radio equipment type [FVP-5000T] is in compliance with Directive 2014/53/EU and relevant directives.

The full text of the EU declaration of conformity is available at the following internet address:

- United Kingdom : <http://www.humaxdigital.com/uk/ec.php>
- Germany : <http://de.humaxdigital.com/ec>



Wireless equipment use information

1. In France
Authorization for outdoor usage is limited to Channels 1~7 (2.400 ~ 2.454 GHz).
2. In Italy
For outdoor usage a general authorization is required from the national spectrum authorities.
3. In Latvia
For outdoor usage an authorization is required from the Electronic Communications Office.
4. 5GHz Radio Local Area Networks (RLANs) Band only indoor use.
5. This equipment may be operated in all European Union member countries and Turkey.

Appliance Classes

	Double insulated Class II equipment (IEC 60417-5172). Do not require an earth connection.
	For indoor use only (IEC 60417-5957).
	Direct current (IEC 60417-5031).
	Stand by (IEC 60417-5009).

Radio Frequency Specification	
Frequency mode (band)	Wi-Fi b/g/n (20/40MHz)
RF output power	Maximum power level is not exceeding 20dBm
Frequency range (MHz)	2.4GHz

Radio Frequency Specification	
Frequency mode (band)	Wi-Fi a, n(20/40MHz), ac(20/40/80MHz)
RF output power (EIRP)	Maximum power level is not exceeding 23dBm (for TPC) / 20dBm (for without TPC)
Frequency range (MHz)	5150MHz to 5350MHz

Radio Frequency Specification	
Frequency mode (band)	Wi-Fi a, n(20/40MHz), ac(20/40/80MHz)
RF output power (EIRP)	Maximum power level is not exceeding 14dBm
Frequency range (MHz)	5725MHz to 5875MHz

For your safety

'WEEE' Instructions



This product should not be disposed with other household waste at the end of its working life. Please separate this from other types of waste and recycle it responsibly to promote the sustainable reuse of material resources. This will prevent possible harm to the environment or human health from uncontrolled disposal.

Domestic users:

Please contact either the retailer where you purchased this product or their local government office for details of where and how they can take this item for environmentally safe recycling.

Business users:

Contact your supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial waste for disposal.

Safety

1. POWER SUPPLY

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

2. OVERLOADING

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

3. LIQUID

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

4. CLEANING

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

5. VENTILATION

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

6. ATTACHMENTS

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

7. LIGHTNING, STORM OR NOT IN USE

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

8. EXTRANEIOUS OBJECTS

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

9. REPLACEMENT OF PARTS

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

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

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

11. CONNECTION TO THE TV

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

12. 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.

13. LOCATION

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

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 discolouration.

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.

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

linux
busybox
cso7progs
cso70
iptables
dnsmasq
libnet-2.0
compiler
mtd-utils
parted
k9sprog
dosfstools
samba
proftpd

GPL Software

uClibc
libxif
c5lib
libc
Frmpeg
DirectFB

FreeType License (FTL) Software

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

OpenSSL License Software

This product includes cryptographic software written by Eric Young (ey@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 (GPL) v2 is shown below.

The GNU General Public License (GPL)

Version 2, June 1991
The 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 programs use special license arrangements. To learn more, see the section entitled "Other Free Software Licenses".) 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 to 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. To copy, distribute, or modify the Program, you must first distribute 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 license is addressed "as you," meaning that the recipient of the Program or a copy of this License also receives the Program. If you 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 the facts.

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 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 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 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, the purpose of this section is to ensure the correct distribution 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.

- a) 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:
 - i) 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
 - ii) 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
 - iii) Accompany it with the information you received as to the offer to distribute corresponding source code. This alternative is allowed only for non-commercial 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 (if applicable). 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 code is to be distributed, unless that component itself accompanies the executable code. Source code for a work 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 (if applicable). 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 code is to be distributed, unless that component itself accompanies the executable code or object code to be 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 must pay to copy the source code.
- b) You may not copy, modify, sub-license, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sub-license 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 they remain in full compliance.
- c) You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to copy or distribute the Program or to modify it, and thus to extend the warranty provided 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.

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 the terms of 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 requirements 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 you may not distribute the Program, 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.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyright infringement or otherwise, your distribution must be limited to those countries, so that distribution is permitted only in or among countries not thus excluded. In such a 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 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 the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; for software which is copyrighted by others, write to the copyright holder. 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
THE PROGRAM IS PROVIDED 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.

11. NO LIABILITY FOR CONSEQUENTIAL DAMAGES. IN NO EVENT SHALL THE FREE SOFTWARE FOUNDATION OR 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. The 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:

GNU Gnomovision version 69, Copyright (C) 1989 by Free Software Foundation, Inc.
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, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

There is absolutely no warranty for this program.

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:

GNU Gnomovision version 69, Copyright (C) 1989 by Free Software Foundation, Inc.
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, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

There is absolutely no warranty for this program.

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:

GNU Gnomovision version 69, Copyright (C) 1989 by Free Software Foundation, Inc.
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, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

There is absolutely no warranty for this program.

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:

GNU Gnomovision version 69, Copyright (C) 1989 by Free Software Foundation, Inc.
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, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

There is absolutely no warranty for this program.

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:

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.

There are four main kinds of license which we sometimes 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 mean it in the sense of free as in freedom, not price. Our most common 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 release it in its new version, without any restrictions; that you can improve the software and release 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 also give the whole of the source code of the library (not just the library object file) or you 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 re-link them with the library after making changes to the library and recompiling it. And you must not alter these terms by adding more restrictions. We protect your rights with a two-part 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 sure that there are no terms which are restrictive of the library itself. The following licenses are based on the above, so the recipients should know that what they have, not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others. We wish to make sure that a company cannot effectively restrict the use 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, are covered by the Lesser General Public License. This license is more liberal than the 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 regarded as a derivative of the library, because the program's future behavior depends on the library. We therefore permit 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 most libraries. However, if the library is part of a system that is itself non-free, and the library is used, 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 the system, there is little to be gained by restricting their use. Therefore, the Lesser General Public License is used in these 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 the use of the GNU C programming language on a wide range of machines. One 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. (Notice that the distributor's responsibility for ensuring 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. The Free Software Foundation (FSF) and the copyright holder of the library, 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 object files linked together to form an executable. A "work" means a program or 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, this means all the source code needed to compile, link, and install the library, including 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 installing 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 does and 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 include a copy of this License with each copy of the source code. 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. You may copy and distribute such modifications or your 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.

3. 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 data, the facility still operates, and performs whatever part of its purpose remains. To assist the user, you may include, 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 such that 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; you separate work. But if the sections are part of the work which you distribute, then the License applies to the Library, the distribution of the whole must be on the terms of this License, whose permissions for those sections extend to the entire whole, and thus to each and every part regardless of who wrote it. If a section is derived from the Library, it is covered by this License. If the section is not derived from the Library, it is not covered by this License. If the section is derived from the Library, then 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 a work based on the Library, in 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. (Note that the 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. If you copy the ordinary GNU General Public License into the source code, 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 it for sale, the price must be the same as the price for a machine-readable copy of 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 distribution of the Library or a derivative work is considered a "distribution" for the purposes of this License by being compiled or linked with it, it is called a "work that uses the Library," such 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 and the work must be distributed under the terms of the Library. If the work is a derivative work, this 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 pieces of text and machine code (as in the case of less in length), then the use of the Library is unproblematic, regardless of whether it is legally a derivative work. (Executables containing the object code plus portions of the Library will still fall under Section 6.) Otherwise, if a 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.

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 Library 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 to the work in the work which must be distributed under Sections 1 and 2 above; and, if the work is an executable, you must also include the Library, which is itself a derivative work that uses the Library, as object code and/or source code, so that the user can modify the Library and then re-link 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 recompilate the application.
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 copies of the library, and (2) does not require copying the library into the user's program. If the user installs one, as long as the modified version is interface-compatible with the version that the user who produces the contents of definitions files in the Library will not necessarily be able to recompilate the application.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in section 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) You may offer the user 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 that are necessary for reproducing the executable, but it 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 encompasses the executable.

You may however, if you wish, distribute the Library under the terms of the 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.

6. Each licensee is asked to make two versions of the work, the library side-by-side in a single binary 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 the combined work is not a derivative work of the Library.
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 that you have modified the Library.

7. 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, sub-license, link with, or distribute the Library is void, and anyone who attempts to do so is liable to the copyright holder for damages. You may not convey copies, or rights, from under this License will not have their licenses terminated so long as such parties remain in full compliance.

8. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or to 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, distribution and modification.

9. If you distribute the Library or any work based on the Library, you must also distribute a copy of this License. If you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original copyright holder 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 with third parties with this License.

10. 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, you do not exclude 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 holder requires that all code which uses the Library be licensed under their system, then you receive copies directly or indirectly through you, then the only way you could satisfy both 1 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 this License. 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.

11. 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 geographic exclusion to the License for those countries, and no attempt to enforce this License in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

12. 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.

13. This License applies to any copy made or modified under the terms of this License. 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 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. 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 YOURS. YOU SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT SHALL THE AUTHOR BE LIABLE TO INFRINGING IN TO INFRINGING WITH 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 PROFITS), EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE, OR IF A THIRD PARTY 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 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 the terms of (or alternatively, under the terms of the ordinary General Public License). To apply these terms, attach the following text to the source code, and make sure that it appears on 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 license is found. One line to give the library's name and an indication of what it does, a pointer to where the full license is found, and a pointer to where 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 a derivative work of the GNU Lesser General Public License (version 2.1) and is intended to be used under the terms 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, 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. Your warranty, if any, should be: Yooyodine, Inc., hereby disclaims all copyright interest in the library "Frob" (a library for tweaking knobs) written by Dr. Smith.

Signature of Ty Coe, 1 April 1990

Signature of Ty Coe, 1 April 1990

Don't be anti-social

For news, support and offers find us on:



HumaxUK



@HumaxUK



@Humax_UK

Subscribe to our monthly newsletter at: **uk.humaxdigital.com**

Need some
extra help?

Customer support

For help with installing or setting up your new Freeview Play Recorder, feel free to call us on **0344 318 8800** (Mon-Fri 9-5pm).

Alternatively visit **uk.humaxdigital.com/support** where you can find FAQs, software updates, user manuals, etc.