

ECHOSTAR

go beyond the box.

HDS-600RS



User Guide





IMPORTANT SAFETY INFORMATION!

Read these instructions carefully before using the product.

Install Safely

- Place the unit on its feet on a firm, stable, horizontal surface.
- Unplug the equipment from the power socket during installation and follow all connection instructions.
- The mains plug must remain easy to unplug from the power socket once the equipment is installed.
- DO NOT place heavy objects on the equipment.
- Keep plastic packaging away from babies and children.

Protect from water

- DO NOT expose the equipment to rain, moisture, dripping or splashing.
- DO NOT place objects filled with liquids, such as vases or drinks, on or near the equipment.

Prevent overheating

- Locate the equipment in an open, well ventilated area away from heat sources such as heaters, other electrical equipment or direct sunlight.
- DO NOT block any of the ventilation openings, for example with magazines, curtains or tablecloths.

General Precautions

- DO NOT place naked flames such as lighted candles on or near the equipment.
- Whenever it is plugged into a live power socket, this equipment is still connected to the mains even if the equipment is turned off.
- DO NOT remove the cover due to risk of electric shock from live parts inside.
- DO NOT allow objects to drop or be pushed inside the equipment, for example by children.
- DO NOT expose the remote control batteries to excessive heat such as fire or sunshine.

Equipment Care

- Unplug the equipment from the power socket before cleaning. Clean with a dry or slightly damp cloth.
- If the equipment is damaged, unplug it from the power socket and have it checked by qualified personnel before operating it any further.

Hard Drive

- DO NOT move the receiver whilst the power is on.
- DO NOT expose to receiver to intense vibration or magnetic objects, such as loud speakers, transformers etc.

Disposal

- The crossed-out wheeled bin symbol indicates that the equipment should not be disposed of with other household waste at the end of its working life and should be dealt with separately - contact the place of purchase or local authorities for details.
- Uncontrolled disposal of such waste can harm the environment and human health due to the presence of hazardous substances, so your role in preventing this is important.



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1. Introduction

Thank you for purchasing your EchoStar Sling-Loaded HDS-600RS **freesat+** set-top box.

The HDS-600RS is a state-of-the-art high definition digital video recorder (DVR) combining dual channel **freesat** satellite television reception with the flexibility of personal video recording.

- Slingloaded™ – watch **TV anywhere** and control the HDS-600RS from a PC or suitable mobile device over the internet.
- Receives over 140 subscription-free **freesat** channels.
- HDMI-enabled – watch high definition TV (when connected to a HDTV via HDMI).
- Pause and rewind live TV.
- Record two channels simultaneously or watch one channel while recording another.
- Integrated 500GB hard disk drive.
- Optical digital audio output for high quality audio, e.g. Dolby® Digital.

Unpacking the Box

Carefully unpack the box and familiarise yourself with each item:

- The HDS-600RS unit
- 1 Power cable
- 1 HDMI cable
- 1 Network cable
- 1 Remote control
- 2 AAA size batteries
- User manual and Quick Start Guide



Controls and Connectors

This section shows the main features of your HDS-600RS unit.

Front View

Sling Activity Light

LEDs flash to indicate remote access to unit via SlingPlayer.

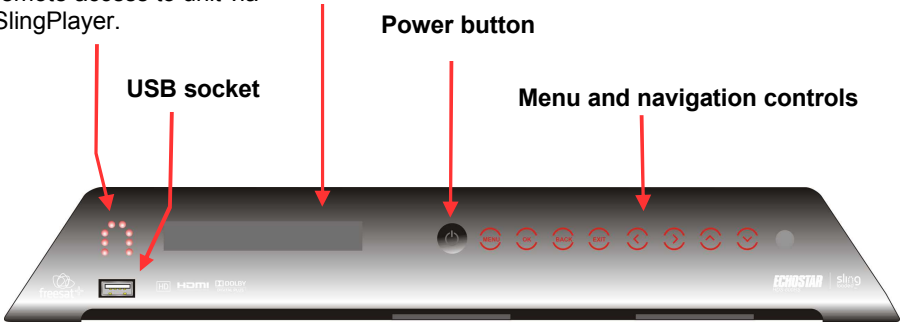
Status Display

Shows current channel and other information.

Power button

Menu and navigation controls

USB socket



Back View

Satellite Signal inputs

LNB1 | LNB2

SCART socket

VCR

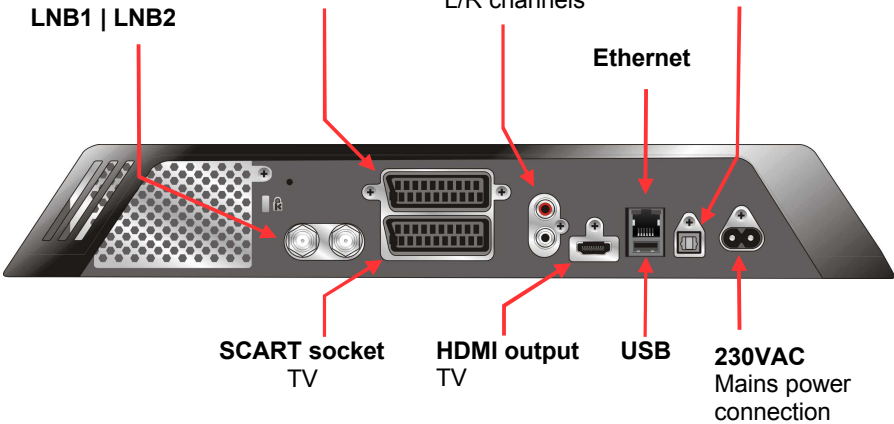
Stereo Audio Out

L/R channels

Digital Audio Out

Optical S/PDIF

Ethernet




Remote Control

TV control - see page 23
(left to right)

TV  : TV On/standby

TV AV : scroll TV inputs

 : HDS-600RS On/Standby



Record and Playback Controls (see page 28)

Main Menu

Library (see page 38)

Exit

Menu navigation buttons

Text services

Info bar on/off

Change channel up/down

View either TV or Radio channels in Programme Guide

Keypad for direct channel selection or SMS-style text entry

AD
Enable Audio Description for programme (if available)

Programme Guide
(see page 32)

Back

Subtitles on/off
(see page 26)

Coloured keys

Volume up/down
(see page 24)

Page up/page down
(in Programme Guide)

Mute (see page 24)

Audio
Display Audio menu
(see page 24)

2. Putting It All Together

This section describes the basic connections you need to operate your set-top box. Your HDS-600RS rear panel has connections for many types of audio and video equipment as well as two dish inputs. In particular, there are connections for two types of video output:

- TVs with HDMI input
- TVs and videos with SCART connectors

There are also connections for two types of audio output and USB ports for connecting memory sticks.

Satellite Inputs

The HDS-600RS is designed to use two satellite LNB inputs. It will operate with a single input but many of the advanced functions will not be available. **If you intend to use a single input ensure that is connected to LNB1 (see page 8).** We strongly advise that two feeds are connected.

Your satellite dish should be aligned to the Astra 2 satellite at 28.2°E.


Connecting to the Internet

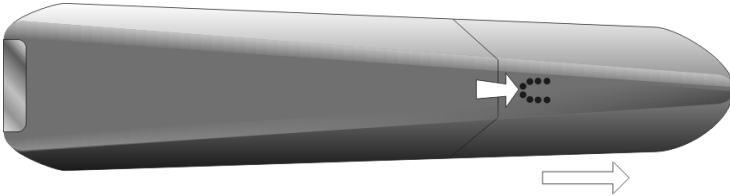
The HDS-600RS is designed to work with a wired Ethernet connection. If your router is not in the same room as your HDS600RS you can use a pair of 'Power-line' devices (for example: Sling Link, see www.myechoStar.com for details) which use the home electrical wiring to carry the Ethernet signal.

Before connecting an Ethernet cable to the HDS600RS, unplug the HDS-600RS from the mains. With the connection to your router in place, reconnect your HDS-600RS to the mains. It may take the HDS-600RS a few minutes to start up the first time once connected to a router – thereafter it should start up quickly.

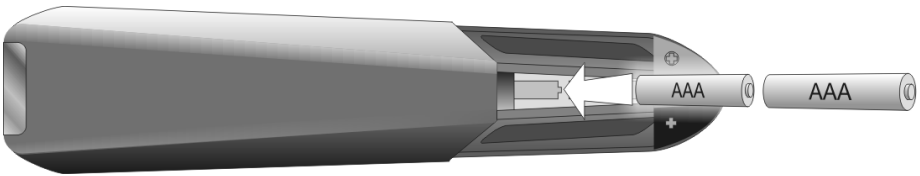
To check your internet connection, see page 42.

Remote Control

1. Remove the wrapping from the two AAA batteries supplied with the unit.
2. Turn the remote control over. Open the battery cover by pressing down on the  symbol and pushing the cover (as shown below).



3. Slide the two AAA size batteries into the compartment so that '+' and '-' marks on the batteries and inside the remote control match up.

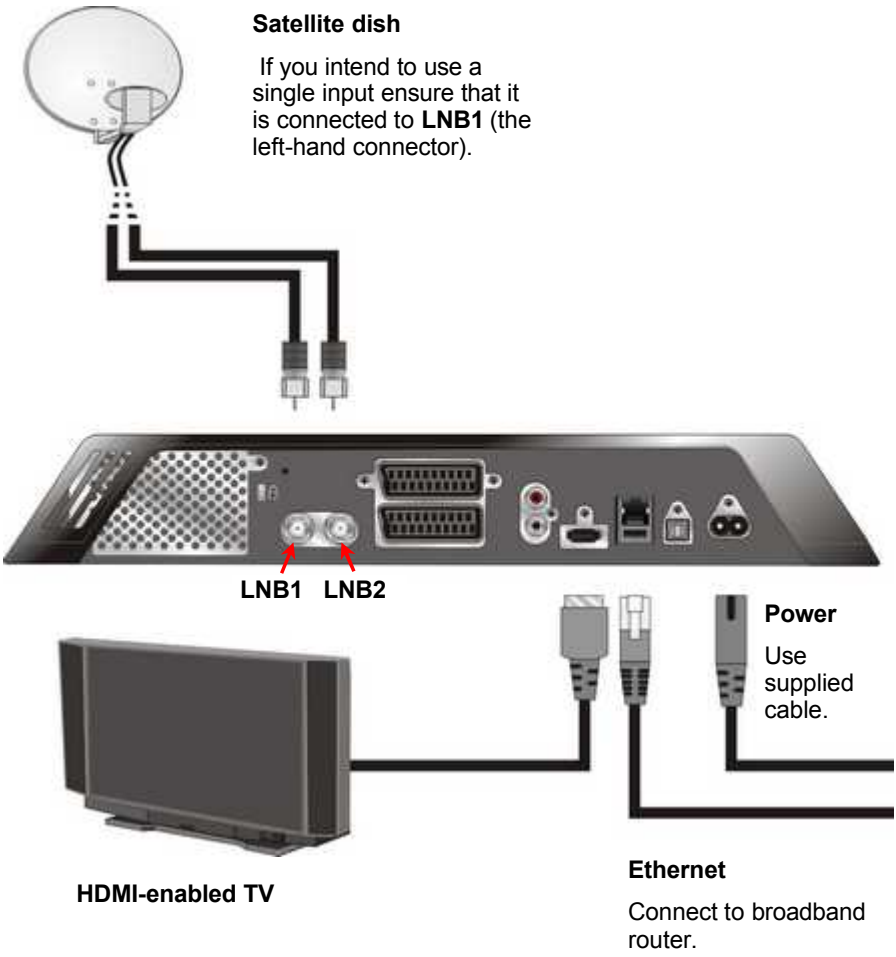


4. Replace the battery cover.

The unit displays a warning message on screen when the batteries need replacing. Also, the LED on the remote will make an additional flash after a button has been released.

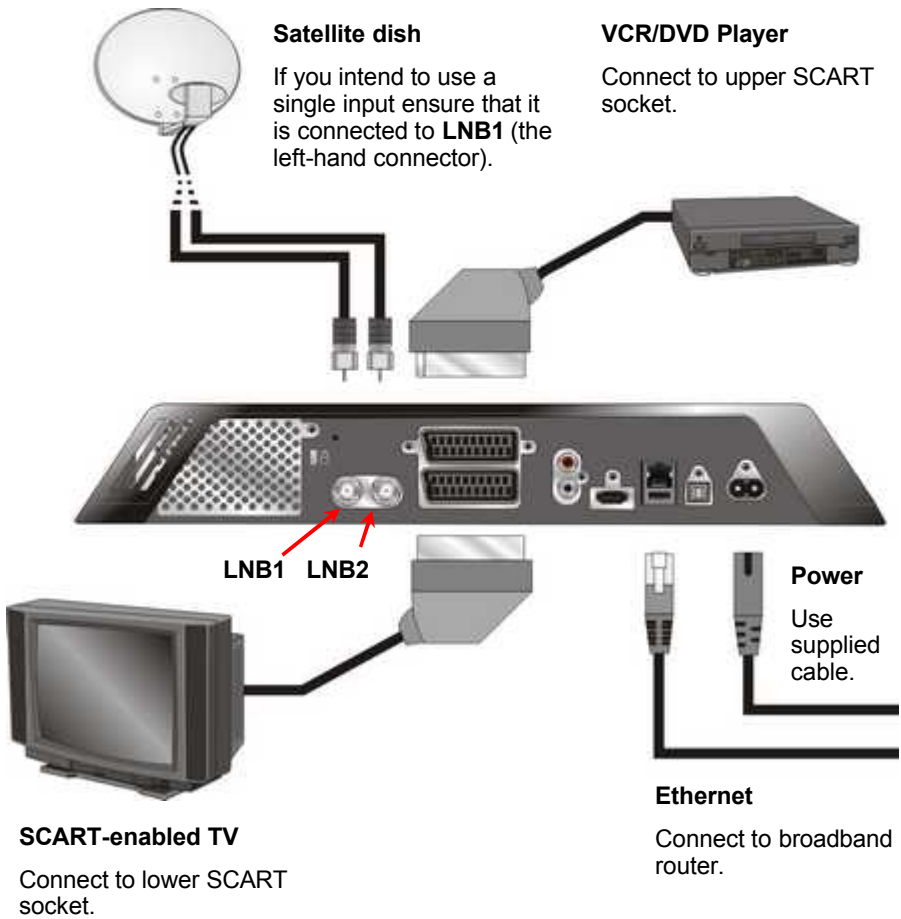
Tip. When changing the batteries, remove the cover and gently tap the remote into the palm of your hand and the batteries should drop out.

HDMI-TV Connections



You could also connect a VCR or DVD Player using the upper SCART socket.

SCART-based Connections



Tip. If you have the choice, you should use a HDMI connection for your TV. Only use good quality, screened cables.

Audio Connections

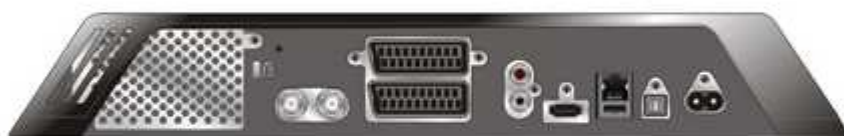
Your TV is equipped with basic speakers and audio is transmitted on the HDMI and SCART connections. However, for the best performance, you could connect external audio equipment such as a music centre or home theatre system using one of the two available audio outputs:

- RCA/phono sockets for stereo audio (white and red jacks).
- Digital audio output for Dolby Digital or DTS-capable receivers (Optical S/PDIF).

Tip. Cables not supplied for audio output.

Digital audio output (optical S/PDIF)

Dolby Digital or DTS-capable receivers, home theatre systems.



Stereo Audio

White: Left channel /mono
Red: Right channel




3. Getting Started

Before you switch on the power to your HDS-600RS, check the following:

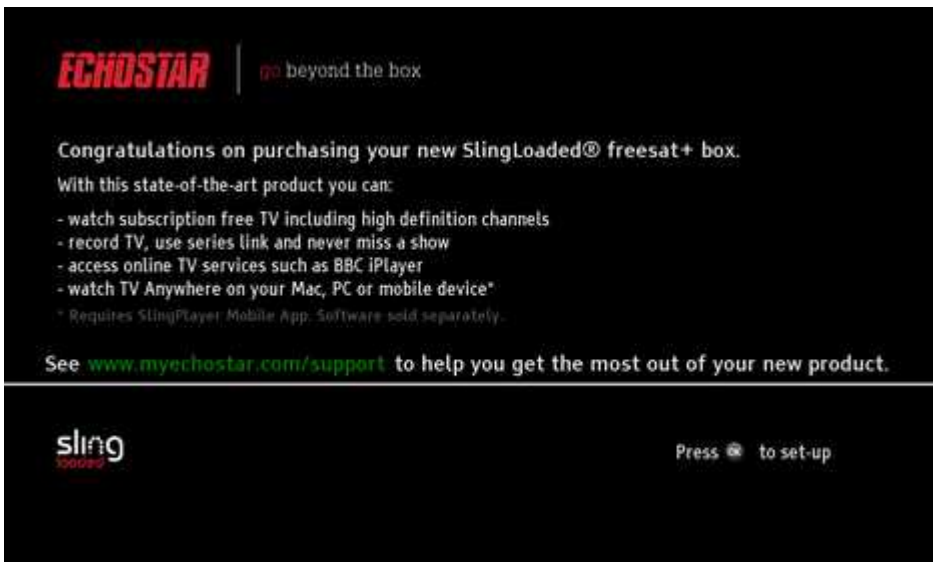
- Have you put batteries in the remote control (see page 11)?
- Is the unit connected correctly (see page 10)?
- Is the TV switched on?

Switching on for the First Time

Press  (On/Standby button) either on the remote or on the front of the unit.

Please be patient - the HDS-600RS may take up to a minute to initialise.

When you switch on your HDS-600RS for the first time, the Setup Wizard is displayed. This will guide you through the process of setting up your satellite signal and detecting **freesat** channels.



During this procedure, use the arrow keys (either on the remote or the front of the unit) to highlight the option you want and press the **OK** button to select it.

Press **OK** to start the installation process.

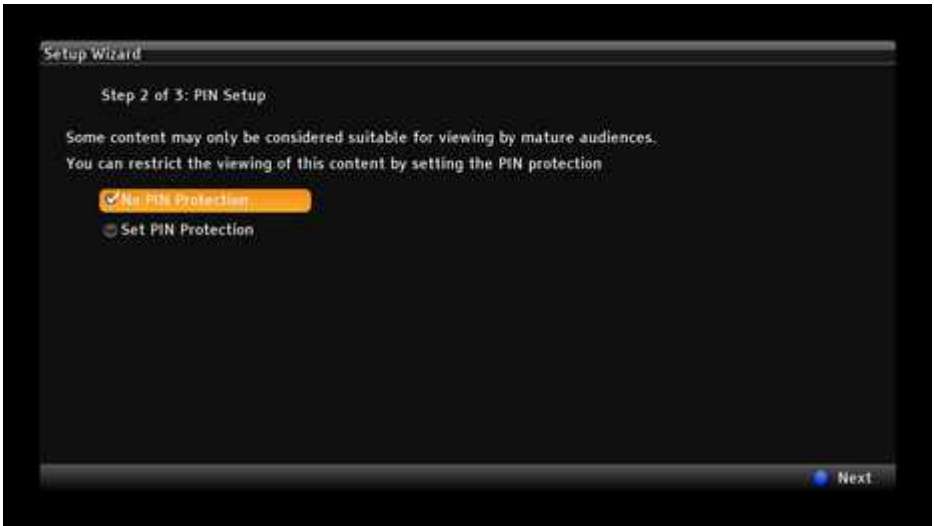
STEP 1: Enter your Postcode



1. Using the numbered buttons on the remote*, enter your postcode. The HDS-600RS needs your postcode to be able to download programme information relevant to your area.
2. If you make a mistake, press the **RED** button to delete the last character you entered.
3. When you've entered a valid postcode, you'll be prompted to press the **BLUE** button to continue. Check that the postcode is correct before you do so.

*This method of text input is called SMS (Short Message Service): the same system used to enter text messages on mobile phones. Each key represents 3 or 4 characters. For example, the "2" key represents **a**, **b**, **c** and **2**. To enter a **b** character, you would press the "2" key twice. To enter a number **2**, you would press the key four times. If you need two successive characters that are on the same key, enter the first one, then pause for a few seconds before entering the second one. So, to type **b2**, you would press the "2" key twice, pause, and then press the "2" key a further four times.

STEP 2: Set the PIN (optional)



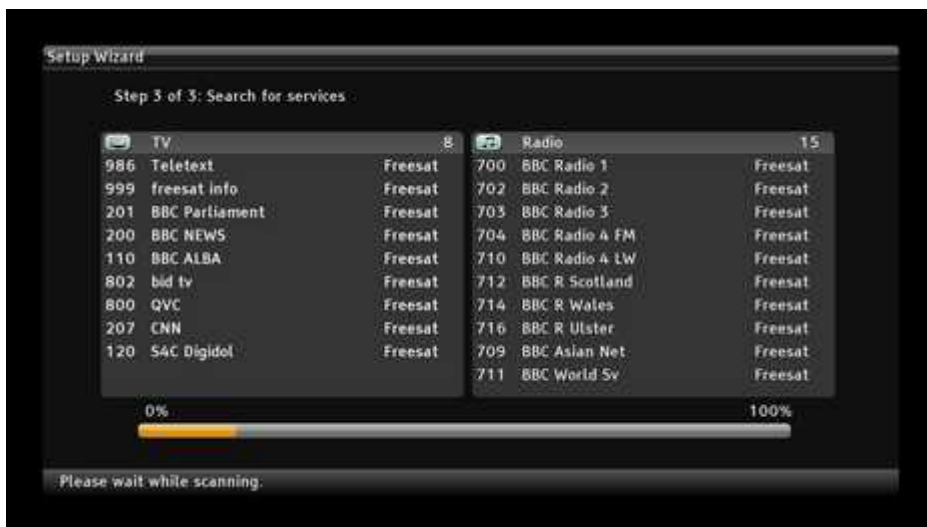
The unit now gives you the option to set a PIN code to restrict the viewing of any programmes broadcast or recorded with parental guidance advice. Before a user can view these programmes, they will need to enter the PIN code.

Tip. You don't have to worry about setting the PIN now, you can change it or turn this feature off at any time through the Settings menu (see page 50). If you prefer to Set Pin Protection later, just press the **BLUE** button to continue to Step 3.

1. Use the ▲ and ▼ keys to choose the required option:
 - No PIN Protection
 - Set PIN Protection
2. Press **OK** to accept.
3. If you select **Set PIN Protection**, use the numbered buttons on the remote to enter a PIN number.
4. Press the **BLUE** button to save the PIN.

Tip. If you don't enter a PIN, the unit will use the default code "0000". If you have forgotten your PIN, see page 50.

STEP 3: Search for Services



The HDS-600RS starts a search for channels and compiles a list of the TV and radio services it has found. A bar at the bottom of the screen shows the progress of the tuning process.

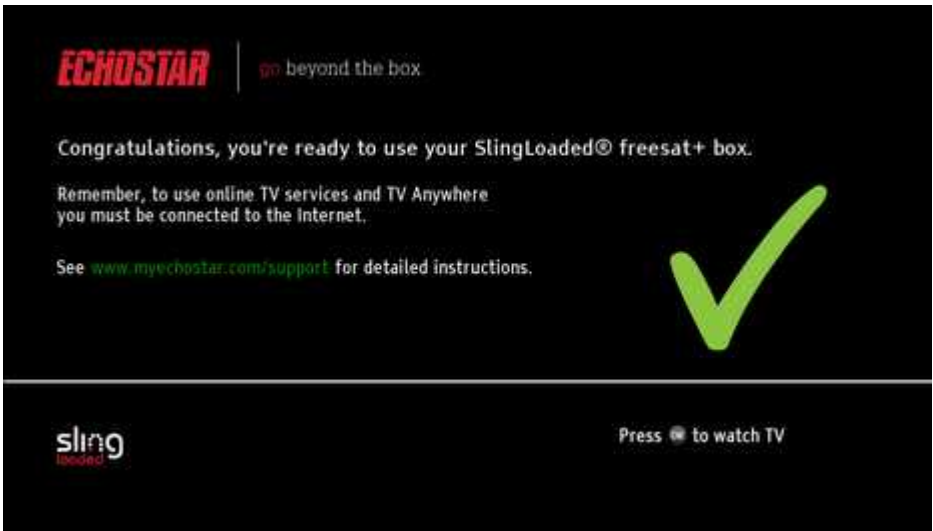
About freesat

freesat offers over 140 digital satellite TV and radio channels including BBC and ITV HD channels. It is a subscription-free service with channels and services being added all the time. If you have a broadband connection, you can also access BBC iPlayer.

For more information, and a complete list of channels, visit:

<http://www.freesat.co.uk/>

STEP 4: Watching TV



If the HDS-600RS has successfully completed its search for channels the screen shown above is displayed (if this is not the case, see **Tuner Issues** on the next page).

Press **OK** to watch TV. The unit will show the first channel in its list of detected channels.

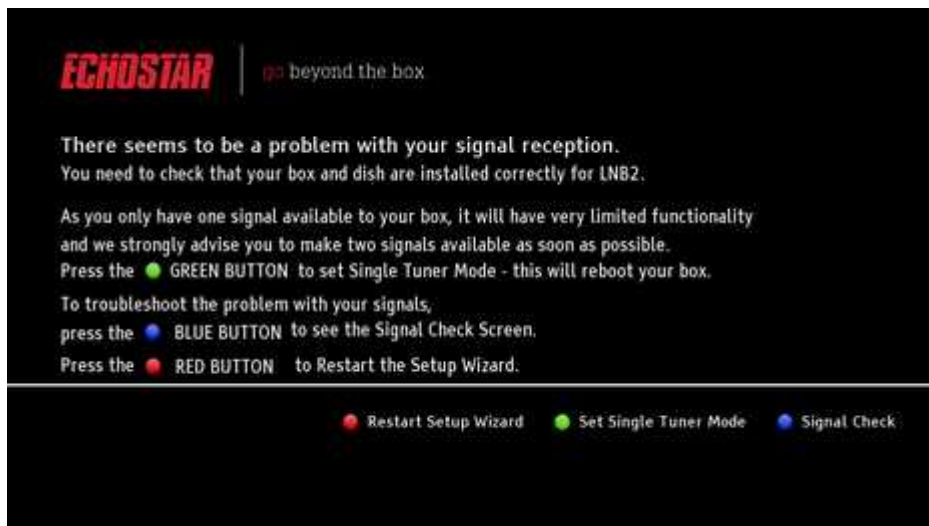
All done!

- To learn how to set up the remote for use with your TV, go to page 23.
- To find out how to make recordings, go to page 29.
- To read about the Programme Guide, go to page 32.
- To explore **TV anywhere**, go to page 43.

Tuner Issues

Your HDS-600RS will display one of the following screens if it discovers a problem with your satellite reception:

One input OK, problem with other input (in this example, LNB2):



Problem with both inputs:



If you see one of these screens, check your satellite input connections.

The unit offers you some or all of the following options:

- Press the **RED** button to run the wizard again. Choose this option if you have found and rectified a problem with your satellite connections. If you have not identified the cause of the problem yet, press the **BLUE** button (see *Checking the Signals* on the next page).
- Press the **GREEN** button if you have only connected a single input from your dish and this has been detected successfully by the unit (see *Single Tuner Mode*, below).
- Press the **BLUE** button to check your input signals (see *Checking the Signals* on the next page).

Single Tuner Mode

If you have only connected a single input from your dish, and it has been detected successfully by the unit, press the **GREEN** button to set the unit to **Single Tuner Mode**.

Note. Functionality will be limited if only one signal used. We strongly advise that 2 feeds are connected. If you do use a single feed, ensure you have connected it to LNB1 – see page 8.

Note. If your satellite dish only has a single LNB do not attempt to split this to create two inputs for the HDS-600RS. This approach does not work. You will need to install a multiple-LNB.

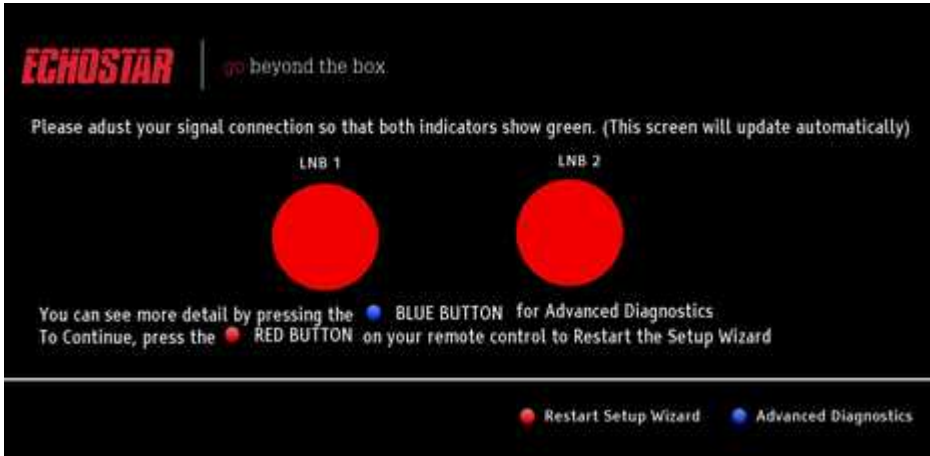
Upgrading from Single Tuner Mode

If you upgrade your satellite receiver from a single to a dual system, you will need to perform a factory reset to allow the unit's second tuner to operate (see page 52). This action will delete your timed recording schedules but will not delete existing recordings.

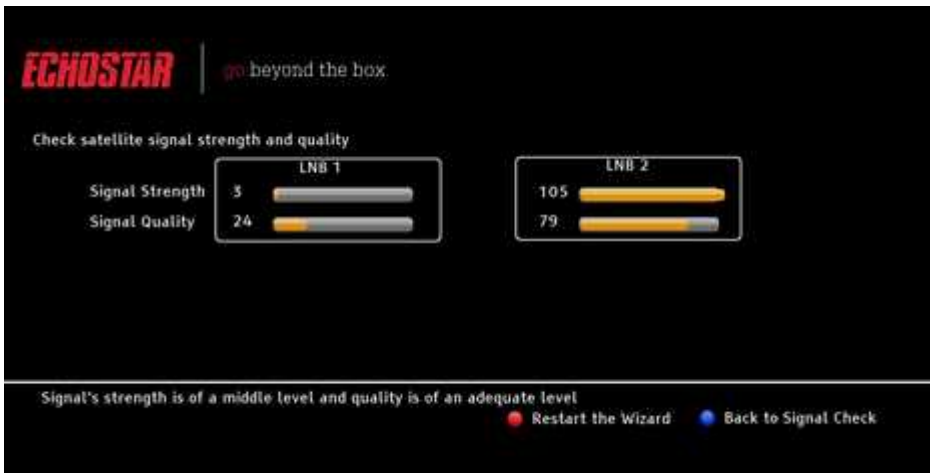
Checking the Signals

To check the signal strength after running the wizard, press the **BLUE** button.

The signal check page shows two spots on the screen, indicating the signal status on each of the inputs. A **RED** spot indicates a connection problem; a **GREEN** spot shows that the connection is acceptable.



Press the **BLUE** button again to see more information about signal strength on the two feeds. Make a note of this information if you need to contact your installer about a problem with your signal feeds.



Controlling your TV

The HDS-600RS remote control has a number of buttons that can be used to control your TV. These are:



Volume up/down Mute TV On/Standby TV source

To be able to use these buttons, your HDS-600RS remote needs to 'learn' the appropriate codes from your TV's remote (you could also program the remote with the appropriate control codes for your TV - see page 57).

To capture the control codes from your TV's remote control:

1. Position the HDS-600RS remote and the TV remote facing each other, on a level surface, 10cm apart.



HDS-600RS remote

TV remote

2. Press and hold down the **▼** and **OK** keys together. The **Main Menu** button will flash briefly and, after about 5s, will remain illuminated. Release the **▼** and **OK** keys. The remote is now in its learning mode.
3. On the HDS-600RS remote, press the key you want to programme, for example **Volume +**.
4. On the TV remote, press and hold the corresponding key (in this case, **Volume +**). The **Main Menu** button flashes; when it stops release the remote key.
5. The HDS-600RS remote has now learned the code for this function.
6. Repeat the procedure (from step 3) for the other keys you want to programme.
7. When you have finished, press the **OK** key.
8. The **Main Menu** button will flash rapidly 10 times to confirm programming is complete and return the remote to its normal mode.

Viewing

Changing Channel



You can change channel in several ways:

- Press the channel up or channel down key.
- Enter the channel number.
- Press **OK** to display the channel list and use the **▲** and **▼** keys to select the desired channel and then press **OK** to view.
- Press the **Guide** key, use the arrow keys to select a genre and then press **OK** (see page 32).
- To see a list of all available channels, press the **Guide** key twice.

Whenever you change channel, the information bar is displayed across the bottom of the screen for a few seconds.

Sound Controls

Tip. You will need to program the **VOL+/-** and **MUTE** keys to function with your TV (see page 23).



Adjusting the volume

To adjust the sound level, use the **VOL+ /-** button on the remote.

Muting the sound

To turn the sound off, press the **MUTE** button. To restore sound, press the **MUTE** button again or use the **VOL +/-** button.

The Audio menu

Press the **AUDIO** key to view audio quality options. Use the arrow keys to select the required option. Press **OK**.

The Information Bar



The Information Bar is displayed across the bottom of the screen for a few seconds whenever you change channel. It shows details about the current channel and programme.

You can also view it at any time by pressing the **i** key.

Use the **▲** and **▼** keys to view different channels.

Use the **◀** and **▶** to browse across the programmes scheduled for transmission on this channel.

Press the **GREEN** key to set a reminder; the unit will alert you when the program is about to start (see page 32).

Press the **BLUE** key to change the picture size (the current resolution is shown in the top right corner of the info bar's symbol area).

Press the **Record** button to record the highlighted programme (or stop the recording if it is already in progress).



Tip. The symbols on the right hand side give you additional information about the programme (see page 68). For example the type of transmission (HD or SD), the resolution, the availability of subtitles, text or interactive services.

Subtitles



Press the **SUB** key to display the Subtitle menu.

Use the ▲ and ▼ keys to select the subtitle language.
Press **OK** to select.

Tip. If you use subtitles, you won't be able to access text services at the same time. For Language selection, see page 47.

Text and Interactive Services

Some channels (BBC, ITV) offer text or interactive services. Press the **Text** key to display the service. These services are only available when you are watching live TV with subtitles off.



Watching freesat On Demand TV

To access BBC iPlayer, and soon ITV Player, your HDS-600RS must be connected to a suitable broadband connection (see page 42).

BBC iPlayer can be found at Channel 901 and ITV Player will be at Channel 903 when it launches.

You can also access BBC iPlayer from any BBC channel (except *CBBC* or *CBeebies*).

1. Press the **Text** or red button.
2. Follow the on-screen instructions to access BBC iPlayer (service 7001).

Tip. The appearance and operation of **freesat** On Demand TV may change since the services are undergoing continual development - visit www.freesat.co.uk for the latest information.

Pause, Rewind and Fast Forward

When watching TV, there's no need to miss any of the action. You can pause "live" TV for up to one hour. You can rewind a programme to see a scene again and then fast forward onwards to rejoin the live action.

When you pause a programme, the unit will continue to save the output from the current channel for up to one hour. Thereafter, it will begin to play back the programme from where you left off and continue to save live transmissions.

Tip. The HDS-600RS saves up to one hour of the current channel's transmissions for you to rewind and replay. This buffer is reset whenever you change channel: you can only rewind as far as the last channel change.



Press the **PAUSE** button to pause playback.

Press the **STOP** button to halt the current programme.

Press **FAST FORWARD** to double the playing speed. Repeated presses of the button doubles the fast forward speed up to 64 times normal playing speed.

Press **SKIP FORWARD** to advance viewing by 30 seconds.

Press the **PLAY** button to resume your viewing after pausing, rewinding or fast forwarding.

Press **FAST REWIND** to rewind the programme. Repeated presses of the button doubles the rewind speed up to 64 times normal playing speed.

Press **SKIP BACKWARD** to 'rewind' the programme by 10 seconds.

Tip. These buttons have the same functions when you are viewing recorded programmes.

Recording Programmes




Press the **RECORD** button to start recording live TV.

If you want to record a different channel:

- Press the **GUIDE** button, browse to and highlight the programme you want to record (see page 34) and then press the **RECORD** button.
- Press the **INFO** button, browse to and highlight the programme you want to record (see page 25) and then press the **RECORD** button.

Press the **LIBRARY** button to browse previously recorded programmes (see page 38).

You can also access the Library from the main menu (see page 31).

To show that a programme is scheduled to be recorded, a  symbol is shown in the icon section (see page 68) of the Info bar and Favourites list. In the Programme Guide, the scheduled programme is highlighted in red.

If you change your mind, and want to cancel a scheduled recording:

1. Select the programme in the Programme Guide.
2. Press the **RECORD** button.
3. Press the red button to cancel the recording.
4. Press **OK** to confirm.

Tip. Current and future recordings are listed in the **LIBRARY** under *Scheduled Recordings* and can be edited or deleted there (see page 38).

Stopping a Recording

To cancel the recording of a live programme, press the **■** (stop) button.

Press the **OK** button to stop the recording or press the **Back** button to dismiss the message and continue recording the programme.



To stop the recording of a future programme, select it in the guide (see page 34) or info bar (see page 25), press the Record button and then follow the on-screen prompts.

Series Linking

When you press the record button, the HDS-600RS displays this message if the programme is part of a series.

To just record the selected programme:



1. Press the **▼** key to highlight *Record Just This Programme*.
2. Press **OK**.

To record the selected programme and automatically record all other programmes in the same series, simply press the **OK** button.

4. Moving On

The previous chapter described the basic use of your HDS-600RS unit for watching TV and for making and viewing recordings. This section describes the advanced features: the Programme Guide, Favourites and Library.

The Main Menu

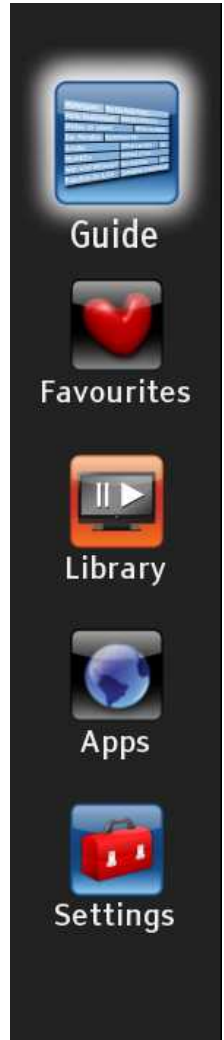


Press the **MAIN MENU** button on the remote to access the unit's advanced functions:

- Guide (see page 32)
- Favourites (see page 35)
- Library (see page 38)
- Apps (see page 42)
- Settings (for Sling settings, see page 44; for all other settings, see page 47)

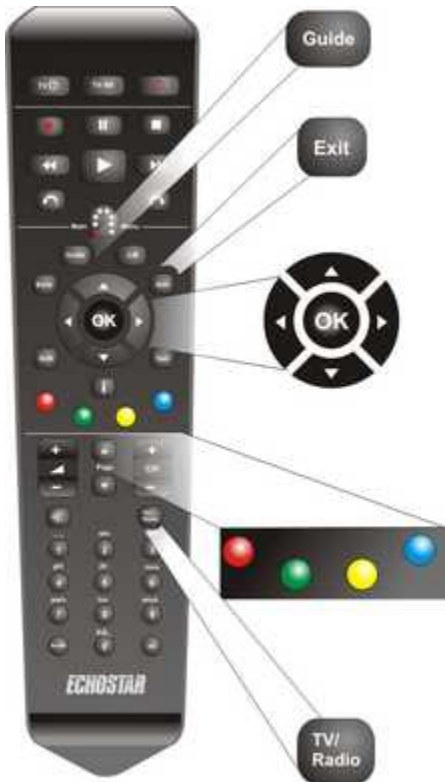
The Main Menu bar is displayed on the left side of the screen. To navigate the main menu and its sub-menus, use the arrow keys (either on the remote or the front of the unit) to highlight the option you want and press the **OK** button to select it.

Press the **EXIT** button to hide the Main Menu bar.



Using the Guide

The Guide lists all the channels you can view and has programme details for up to 7 days. You can use the guide to select your current viewing channel, to record another programme or to schedule future recordings.



Press the **GUIDE** key once to see the list of genres (or select GUIDE on the Main Menu). Press it twice to see all channels.

Press the **EXIT** key to return to your current program.

Use the **▲** and **▼** keys to select the channel of interest and then use the **◀** and **▶** keys to view current and future program details.

Press the **OK** key to view a highlighted program (if it is currently being broadcast). If the program is not currently being broadcast, pressing the OK button will set a reminder (see below).

The **RED, GREEN, YELLOW** and **BLUE** keys can be used to move the guide information forward or back by 2.5 hours (a full screen) or 1 day at a time.

Use the **TV/Radio** key to toggle between radio and TV services.

Setting Reminders

You can set a reminder from the Info bar (see page 25) or from the Guide (see above). When you do so, the HDS-600RS will alert you two minutes before the programme is scheduled to start so you can switch channels or record the programme. Unless you cancel the alert, it will remain on screen until two minutes after the scheduled start time.

Programmes with a reminder set are highlighted in green in the programme guide and have a green circle in the symbols area of the guide and info bar (see page 68).

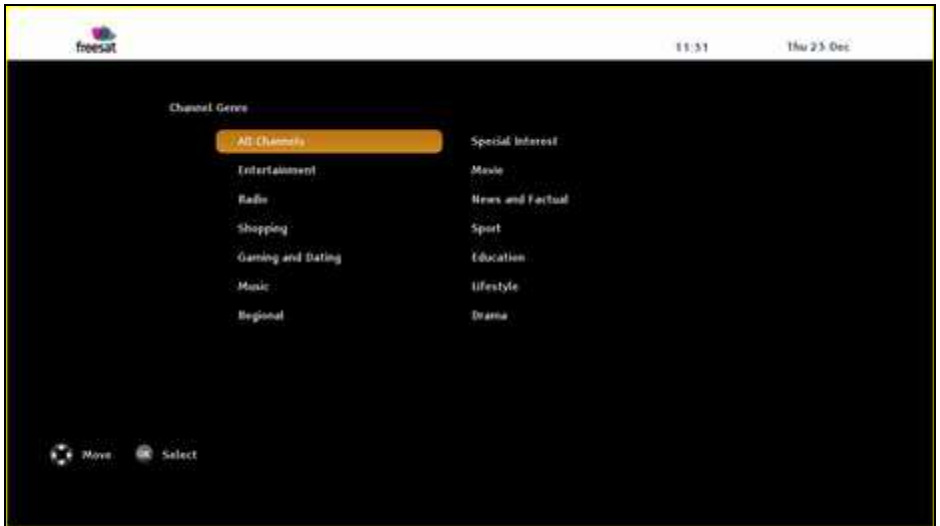
Dealing with a reminder

- Press **OK** to switch channels and view the programme.
- Press the **Record** button to record the programme and continue with your current viewing.
- Press the **Back** button to dismiss the reminder and continue with your viewing.



The Guide's Genres

freesat provides you with access to over 140 TV channels. To organise these, the Guide is divided into a number of genres.



Use the **▲** and **▼** keys to highlight a genre and then press **OK** to view its channels.

Tip. To view the *All Channels* category quickly, press the **GUIDE** button twice.

Using Programme Information

Within a channel list, use the ▲ and ▼ keys to select the channel of interest and then use the ◀ and ▶ keys to highlight programmes. Information about the programme is provided in the icon area at the top of the screen (see page 68).

Use the coloured buttons to move the guide information forward or back by 2.5 hrs (a full screen) or 1 day at a time:

RED Move guide back by 2.5 hours (not available for programmes already broadcast).

GREEN Move guide forward by 2.5 hours (a full screen).

YELLOW Move guide back by 1 day (not available for programmes already broadcast).

BLUE Move guide forward by 1 day.

Press **OK** to set a reminder for the highlighted programme.

Press the **Record** button to record the highlighted programme (or to stop a recording if it is already scheduled or in progress).

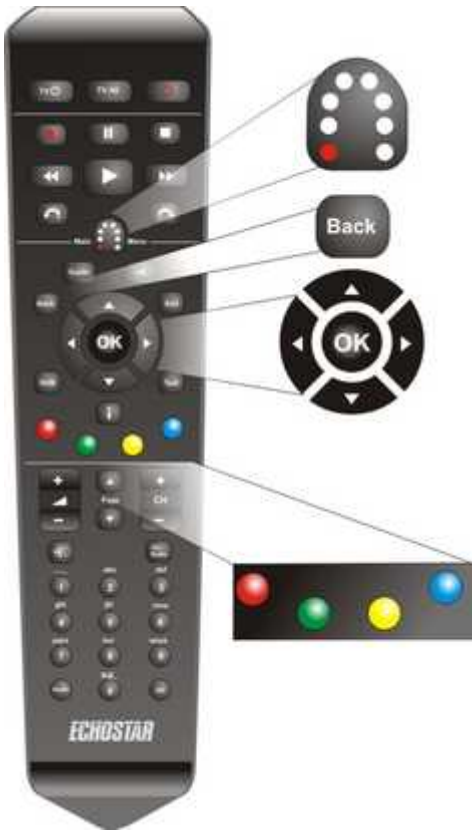
The screenshot shows a TV guide interface with the following elements:

- Channel List:** A list of channels from 101 to 110. Channel 101 (BBC 1 London) is selected.
- Program Grid:** A grid showing programs for Tue 21 Dec from 17:30 to 20:00. The program 'The Weakest Link' is highlighted in red, and 'The Simpsons' is highlighted in green.
- Information Icons:** A set of icons in the top right corner, including a red icon, a green icon, a yellow icon, and a blue icon.
- Navigation Buttons:** A row of buttons at the bottom: Move, Select, Now, Search, - 2.5 Hrs (red), + 2.5 Hrs (green), - 1 Day (yellow), + 1 Day (blue), and Record (red).

Three red arrows point to specific features:

- Scheduled for recording (red):** Points to a red icon in the program grid.
- Reminder set (green):** Points to a green icon in the program grid.
- Information icons (see page 67):** Points to a set of icons in the top right corner.

Creating a Favourites List



freesat provides you with access to over 140 TV channels. Finding your usual viewing channels in the full listing can therefore be difficult and time-consuming. To make channel selection easier, you can create up to four Favourites lists: reduced listings showing just those channels that you watch regularly.

To select or edit a Favourites list:

1. Press the **Main Menu** button.
2. Use the **▼** key to highlight **FAVOURITES**, then press **OK**.
3. Use the **▶** and **▼** keys to highlight the Favourites list you want to set up or edit. By default, the Favourites feature is turned off and the lists are named Favourites 1, 2, 3 or 4.
4. Press the **OK** button.

If the list has been set up, the unit enables it for channel selection. If the list is empty, a status message is displayed; press the **OK** button again to continue.

Renaming a Favourites List

Press the **GREEN** button to change the name of the selected favourite list. You can use the numeric keys to enter your text in SMS style or, alternatively, press the **YELLOW** button to use a virtual keyboard.

- In SMS style, you can press the **BLUE** button to switch to capital letters.
- In virtual keyboard mode, press the **BLUE** button to switch to symbols.

Press **GREEN** to save the new name or **RED** to discard any changes and revert to the original name.

Editing a Favourites List

Press the **YELLOW** button to create or edit the Favourites list. Press the **TV/RADIO** key on the remote to toggle between radio and TV services.



Adding channels

To add a channel to the Favourites list, select it in the left-hand list using the ▲ and ▼ buttons. Then press **OK**.

The channel is added to the Favourites list.

Deleting channels

To delete a channel from the Favourites list:

1. Use the ► key to scroll across to the list.
2. Use the ▲ and ▼ keys to highlight the channel to be removed from the list.
3. Press the **RED** button.

Reordering channels

To change the order of channels:

1. Use the ► key to scroll across to the list.
2. Use the ▲ and ▼ keys to highlight a channel to be moved.
3. Press the **OK** button.
4. Use the ▲ and ▼ keys to move the channel to its new position.
5. Press **OK**.

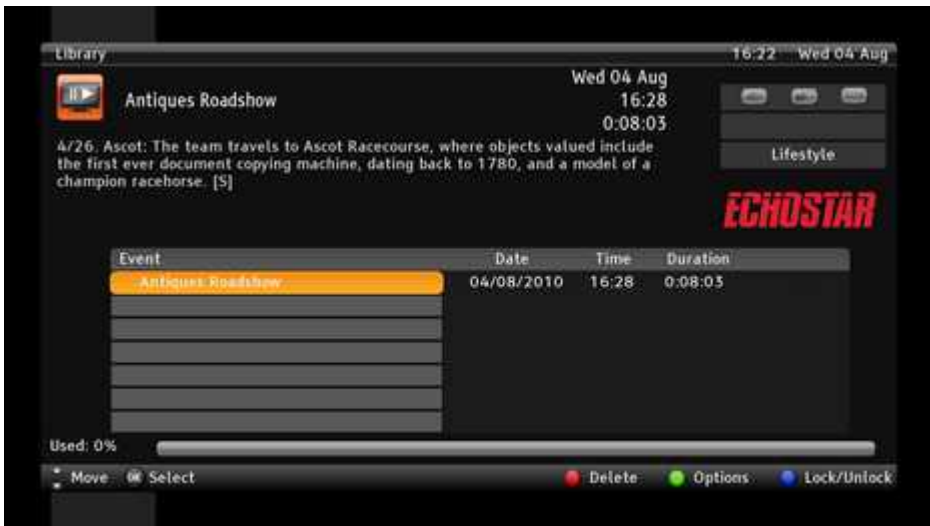
Using the Library

The Library stores your recorded programmes. You can access the **Library** from the Main Menu or directly by pressing the **LIB** key on the remote control.

Tip. Your HDS-600RS is fitted with a 500GB hard drive with a capacity to record about 120 hours of HD programmes or 300 hours of SD programmes. In the lower left corner of the *Library* screen the HDS-600RS displays the percentage of the drive currently occupied by recorded programmes.

Playing a recorded programme

Use the **▲** and **▼** buttons to highlight the recording you want to view and press **OK**. If you have viewed the recorded programme previously you can choose to resume viewing or restart from the beginning of the recording.



At the end of the recording the Library menu is re-displayed.

Tip. To preview any recording in the list, press the **i** key on the remote control.

Deleting a recording immediately

1. Select the recording you want to delete using the ▲ and ▼ buttons.
2. Press the **RED** key to delete the selected recording immediately.

Deleting a recording after a specified period

1. Select the recording in the Library list.
2. Press the **GREEN** key to change the protection options on the recording.
3. To save the recording for a specified period, press the ► key and choose from the following options:
 - Save forever (the default option)
The recording will not be deleted and a “lock” symbol will be displayed next to the recording title.
 - Save for 1 week.
 - Save for 2 weeks.
 - Save for 1 month.
 - Save for 2 months.
 - Delete now.

Tip. Recordings may be manually deleted at any time if there is insufficient space on the hard disk drive for a new recording.

Renaming a recording

1. Select the recording in the Library list, then press the **GREEN** key.
2. Press the ▼ key to select the *Rename* menu option.
3. Press the ► key and use the *SMS Style Text Entry* screen to enter a new name.
4. Press the **GREEN** button to save the new name or the **RED** key to discard any changes and revert to the original name.

Password-protecting recordings

1. Select the recording in the Library list.
2. Press the **BLUE** key to change the protection options on the recording. If the recording has previously been locked, you will need to enter the password to unlock it.

Managing Scheduled Recordings

To view a list of current and future recordings:

1. Select LIBRARY from the main menu.
2. Select the *Scheduled Recordings* option.



Creating a recording schedule manually

Tip. It is easier to schedule recordings of complete programmes using the guide. Use this option if you want to record a block of programmes or a small section of a long programme.

To create a new timer event:

1. Use the ▲ and ▼ keys to select an empty line and then press **OK**.
2. Use the ▲ and ▼ and ◀ and ▶ keys to navigate around the menu and change the *Channel number, Type, Date, Time and Duration, Repeat* and *Subtitle* options as required.
3. Press **OK** to save a new timer event.

Editing a recording schedule



To edit an existing timer event:

1. Use the ▲ and ▼ keys to select it and then press **OK**.
2. Use the ▲ and ▼ and ◀ and ▶ keys to navigate around the menu and change the *Channel number*, *Type*, *Date*, *Time* and *Duration*, *Repeat* and *Subtitle* options as required.

Tip. You can also use the numeric keypad to enter channel, dates and times directly.

Deleting a scheduled recording

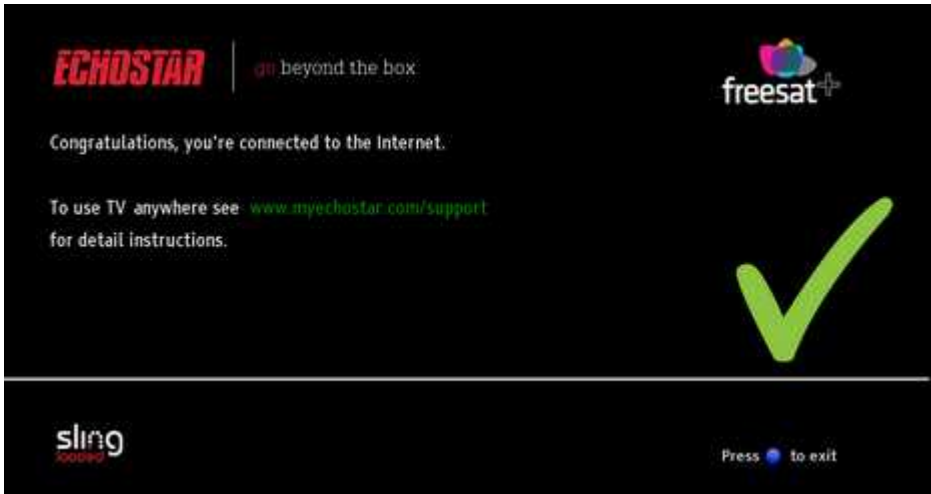
1. Use the ▲ and ▼ keys to navigate up and down the timer list. Select the listing to be deleted.
2. Press the **RED** key to delete an existing timer event.
3. Press **OK** to save settings and return to the Timer Menu.

Using Apps

The Apps menu is reserved for future Internet-based video, audio and information services. Services will automatically be added to this menu as they become available as part of HDS-600RS software updates (see page 53).

Internet Connection Information

Click on the **SlingLoaded** icon in the Apps menu for information about setting up **TV anywhere** and to check your internet connection.



5. Using TV anywhere

TV anywhere allows you to watch live or recorded programming from your HDS-600RS on a PC, MAC or supported mobile phone, anywhere in the world.

To use **TV anywhere** you need to:

1. Connect your HDS-600RS to the internet (see page 10).
You will require an unrestricted internet connection (upload from HDS-600RS) of at least 150kbps to watch on a mobile phone or 256kbps for a PC or MAC. These are the minimum specifications: higher bit rates will result in a better picture quality.
2. Set up your Sling account on a PC or MAC (see **Creating a Sling Account**, below).
3. Log in to your Sling account and access your HDS-600RS (see **Using SlingPlayer**, below)

Creating A Sling Account

1. Visit <http://www.slingbox.com/> and click on the **Watch tab**. Follow the instructions to create your account.

Note. You may need to install a browser plug-in to complete the setup.

Using SlingPlayer

1. Go to: <http://www.slingbox.com/>.
2. Log in to your account (see **Creating A Sling Account**, above).
3. Click on **Watch**.
4. Click on your HDS-600RS and enter the unit's password (see page 44). Should you require them, your default SlingPlayer password is 'admin', and your default PIN on the HDS-600RS is '0000'. The same PIN is used for parental controls (see page 50).

Your HDS-600RS Sling Settings

Press the **Main Menu** button.

Use the ▲ and ▼ keys to select the **Settings** option.

Use the ▲ and ▼ keys to select the **Sling** menu option.

The Sling menu is PIN-protected. The default is “0000”. Please change this to a more secure code as soon as possible (see page 50).



Sling ID

The **Sling ID** is a unique number that identifies your HDS-600RS. No matter where you are in the world, using the Sling ID, SlingPlayer can locate your HDS-600RS and connect to it.

You'll need the Sling ID to set up your Sling account (see page 43).

My Sling ID: _____

Sling Client Connections

- Enable All* All Sling Client connection requests are granted. Use this setting if you want to access your unit remotely over the internet.
- Disable All* No Sling Client connections are allowed. Use this setting for maximum security if you do not want to use SlingPlayer.
- Enable Local Only* Only Local (internet to the local network) Sling Client connection requests are granted. Connections originating from clients outside the local network (such as over the internet) are refused. Use this setting if you only want to view TV from other devices on your local network only.

Rename your HDS-600RS

Use the **0-9 & A-Z** keys to create a name for your unit. This identifies the device in your Sling account. If you access several Sling-loaded devices from your account, ensure that the name distinguishes it from other devices.

The default name is **HDS-600RS**.

Change Password

Use the **0-9 & A-Z** keys to change the Sling password.

You will need this to gain access to your unit from other devices when using SlingPlayer.

The default password is: **admin**. You should change the password as soon as possible.

Sling 'Activity Light' Settings

Use these settings to determine how the Sling activity lights (the LEDs on the left side of the set-top box) are used to indicate when the unit is being accessed remotely.



- Enable All* Display when someone is using Sling to connect to the box from a remote location (default setting).
- Disable All* Display always off. The display never illuminates.
- Enable Local Only* Display on for local connection only. The LEDs will illuminate when someone is using Sling to connect via a local network only.
- Enable WAN only* Display on for internet connection only. The LEDs will illuminate when someone is using Sling via the internet only.

6. Settings

The Settings menu allows you to configure the unit and to set personal preferences. Navigate the menus using the ▲ ▼ ◀ and ▶ keys. Press the **OK** key to choose an option.

Note. In the following tables, a setting marked by a * symbol is the default factory setting.

The main menu categories are:

- **Languages**
- **TV, Audio & Library Setup**
- **Sling** – see the previous chapter
- **Parental Control**
- **Menu Preferences**
- **Network Setup**
- **Power Options**
- **Technical Info**
- **Tuning**
- **Factory Reset**

Languages

The *Languages* menu allows you to choose the primary options for *Subtitles*, *Data Services* (digital interactive services) & *Primary Audio*:

Subtitles	<i>Off*</i> <i>English</i> <i>Welsh</i> <i>Gaelic</i>
Data Service	<i>Off</i> <i>English*</i> <i>Welsh</i> <i>Gaelic</i>
Primary Audio	<i>English*</i> <i>Welsh</i> <i>Gaelic</i>

TV, Audio & Library Setup

The *TV, Audio & Library* menu allows you to select the correct display and audio outputs to suit your TV and to set up the Library settings for the recording and playback of programmes. The following table lists the options. Please visit www.myechostar.com/support if you need any help.

Category	Menu	Sub-menu	Options
SD TV Setup	TV Type		4:3 16:9*
	Picture Format: Standard		RGB* Composite S-Video
	Screen Blanking		Wait 60 Seconds Off* Instant
HD TV Setup	HD Resolution		576i 720p* 1080i Best Available
	Picture Format		4.3 Deep Pillarbox* 14.9 Pillarbox 16.9 Centre Cutout Recommended Anamorphic "stretch"
	Screen Blanking		Wait 60 Seconds Off* Instant
	Restore Default Settings		
Audio Delay	Audio Delay		Digital Audio Output Analogue Audio Output
	Audio Adjustment		Off Low Medium High*

Category	Menu	Sub-menu	Options
Digital Audio Setup	HDMI		Auto* PCM Stereo Only
	SPDIF		PCM Stereo Dolby Digital*
	Midnight mode		Off* On
	HDCP Setup		Always On* Automatic
Library Setup	Recording Setup	Recording Start:	Timed Auto*
		Auto Conflict Resolution	No* Yes
		Series Recording	Never Always Prompt*
		Allow Recommendations	Never Always Prompt*
	Playback Setup	Default Skip Forward	5 Seconds* 10 Seconds 20 Seconds 40 Seconds
		Default Skip Backward	5 Seconds* 10 Seconds 20 Seconds 40 Seconds
		Re-Initialise Hard Disk	CAUTION! THIS WILL DELETE ALL YOUR RECORDINGS

Sling

See *TV anywhere* (page 43)

Parental Control

This menu allows you to safeguard your children from unsuitable programmes by restricting their access to certain channels or media types. It relies on you creating and applying a secure PIN code to channels or programmes. It should be memorable for you, but not for your children, and you should change it regularly.

Tip: If you forget your PIN then use “2846” to gain access and set a new PIN immediately.

The Parental Control menu options are as follows:

Change PIN	Choose this option to enter and confirm a new PIN. Note. This PIN also protects access to <i>TV anywhere</i> (see page 43).
Service Locks	Apply PIN protection to one or more channels. Use the arrow keys to highlight the channel you want to lock; then press the OK button. <i>Tip: use the Page Up/Page Down keys to step through the guide.</i> If you want to watch a locked channel, press the RED button and enter the PIN code.
Pin Protection	Protect all recorded programmes which carry a guidance notice. If an attempt is made to play such a recording before the 9pm watershed, the viewer is prompted to enter the PIN code. <i>PIN Required</i> <i>PIN Not Required*</i>
Hide Adult Channels	Hide all adult channels on the guide, information bar and favourites lists. This will also hide recordings taken from adult channels and delete any timers set for recording programmes from adult channels. <i>Show</i> <i>Hide*</i>

Menu Preferences

Use this menu to change the appearance of text in the settings menus.

Transparency	<i>Solid</i> (Menu background is opaque but clearer) <i>Low</i> <i>Medium*</i> <i>High</i> (Menu backgrounds are fully transparent)
---------------------	--

Network Setup

This menu can be used to view and configure network settings. In most cases, *Auto Setup* will correctly configure your network and internet connection via a local DHCP server or DHCP-enable router. If you encounter any networking problems, visit www.myechostar.com/support. It may be necessary to disable *Auto Setup* to configure the connection manually. Unless this is the case, or you are an experienced with network configurations, you are not recommended to change this setting.

Auto Setup	Enable* Disable
-------------------	--------------------

Tip. For more information about this or any other the menu settings, visit www.myechostar.com/support.

Power Options

Power-saving settings can be configured using this menu. Options allow you to select the power consumption in standby mode.

Power Mode Power saving mode used when unit enters standby:	<i>Ultra low power mode</i> Lowest power consumption but the receiver will take longer to switch to the active or ON state (Sling features will not be available). <i>Normal low power mode*</i> In this mode, library functionality and Sling features will be available.
Inactivity Standby	Define time period before the receiver goes into standby if no remote control or front panel keys are operated: <i>Off, 4 Hours*, 5 Hours, 6 Hours</i>

Technical Information

This menu displays software version and other technical information about the unit.

Tuning Preferences

Services	Choose the channel to be displayed when the HDS-600RS is powered up.
Autoscan	Perform a full scan for services.
Manual scan	Carry out a manual scan for services by setting <i>Set Frequency</i> , <i>Symbol Rate</i> and <i>LNB Polarisation</i> (advanced users only)
Regional channel customisation	Choose different regional channels to those assigned during setup.

Factory Reset

Choose this option to restore the default configuration settings.

Note. In addition to removing all your personal settings, this will cancel any scheduled recordings. Existing recordings are not affected.

7. Getting Help

Updates

Your HDS-600RS can be updated in three ways:

- Automatically, over the air via the satellite signal.
- Automatically, over your internet connection.
- Manually: download the update from www.myechostar.com/support, saving it onto a memory stick and then applying it yourself.

Over the Air Updates

Over the Air (OTA) updates, with new channel and transmission information, are provided by **freesat** from time to time. The HDS-600RS receives these automatically. A pop-up message will be displayed on screen whenever an update has occurred.

Automatic Software Updates

If a new version of the HDS-600RS software is available, a pop-up message is displayed on screen. Follow the instructions to download and install the update (requires an active internet connection).

Manual Software Update

To manually update your HDS-600RS:

1. Visit www.myechostar.com/support. Follow the on-screen instructions to download the latest software update to your PC.
2. Copy the update file to an empty USB memory stick.
3. Insert the USB memory stick into either the front or rear USB ports (see page 8). The screen displays a message confirming that the USB memory stick has been detected and showing the version number of the software update.
4. The HDS-600RS will reset and the front panel then displays “*Loading...*” followed by “*Please wait*”.
5. The updating process may take up to 5 minutes. When it is complete, the Welcome screen is displayed. Set up your HDS-600RS as described previously (see page 15).

FAQs

If you can't find a solution to a problem here, please visit www.myechostar.com/support

No lights on HDS-600RS; it doesn't switch on

- Check that the mains lead is plugged in to the power socket and the power socket is switched ON.
 - Try a different power socket.
 - Try a different power lead or check the fuse.
-

No TV picture

- Check that the HDS-600RS is plugged in, switched on and has had sufficient time to warm up.
 - Make sure the HDS-600RS is not in Standby (you can bring the unit out of standby by pressing the standby button on the front of the unit).
 - Ensure the AV cable (either HDMI or SCART) is firmly connected to the unit and to the TV.
 - Ensure that the antenna cables are firmly connected to the unit and are in good condition.
 - Ensure that the TV is set up with the HDS-600RS and is not configured to receive input from an external device such as a DVD Player.
 - Check that the TV is switched on and that the brightness level is set correctly.
 - Try changing channel: the selected channel may be off air.
-

No sound

- Ensure the AV cable (either HDMI or SCART) is firmly connected to the unit and to the TV.
 - Check the volume level of your TV or Audio/Theatre System (if connected).
 - Check that the HDS-600RS, TV or Audio/Theatre System are not set to MUTE.
-

Poor picture or sound quality

- Ensure that the satellite dish is installed correctly (away from trees or other obstacles) and is providing a good quality signal (see page 20).
- Picture quality may be temporarily affected by bad weather (heavy rain, snow). Check the signal level coming from your dish (see page 20).
- If you have poor signal strength you may wish to consider changing the satellite dish for a larger one as this will increase the signal levels received.
- Check the LNB for damage as moisture inside the LNB will affect signal strength

and quality.

Note. Newer LNBs will have a lower noise factor which will improve noise reduction.

- Check that the satellite input cables are connected properly.
- Try another channel; the problem may be due to a transmission fault.

The remote control doesn't work

- Does the Main Menu button light up on the remote when you press any buttons on the remote?
- Ensure that you are holding the remote control correctly with the lens at the top of the control pointing at the HDS-600RS.
- Ensure that the receiver on the HDS-600RS is not covered by, for example, papers and that the remote is within range.
- Check that the batteries have charge and are in good condition. Try removing and replacing the batteries making sure they are inserted in the correct orientation.
- Replace the batteries with a new set.

The remote doesn't control the TV or change the volume

- You need to ensure your remote control is set-up correctly to control your TV. – see page 11. This will be necessary whenever you change the batteries.

The HDS-600RS didn't record a programme

- Check that both antenna cables are connected.
- Check that your hard disk has sufficient space for further recordings (see page 38). To make space, delete some old recordings that you have already viewed.
- The unit should tell you if your scheduled recordings use more resources than the product can support – check the scheduled recording (see page 40) and make changes if necessary.
- Did the unit have power when the programme is scheduled to be transmitted? The HDS-600RS will wake from standby to record a programme but it must have power to be able to do this.

iPlayer isn't available

- Check that your HDS-600RS is connected to your router and that the Ethernet cables are firmly inserted at both ends.
- Check there is a broadband connection available (see page 42). Can you access the Internet from other devices?
- Check to make sure you are meeting the system requirements to use iPlayer.
- If you are experiencing issues with connecting and using iPlayer, please refer to the support section at www.myeostar.com.

***TV anywhere* doesn't work**

- Check that your HDS-600RS is connected to your router and that the Ethernet cables are firmly inserted at both ends.
- Check there is a broadband connection available (see page 42). Can you access the Internet from other devices? Contact your Internet Service Provider if there is a problem.
- Make sure you are meeting the system requirements to use the ***TV anywhere*** features. Is there adequate data bandwidth available on your Local Area Network?
- Ensure you are using the correct password (see page 44).
- If you continue to experience issues with connecting and using ***TV anywhere***, please refer to the support section on www.myechostar.com.

No channels found during installation

- As instructed by the Setup Wizard, press the Blue button to check the signal reception (see page 20). If there is no signal on one or both inputs, check the connections. Contact your satellite dish installer if there is no signal on either input and you are satisfied that the connection to the unit is sound.

Contacting Customer Support



For the latest product information, technical support, downloads and updates please visit:

<http://myechostar.com/support>

8. Remote Control TV Codes

Programming the Remote with Control Codes


Search the table in this section for your TV manufacturer. Make a note of the control code (or codes) used by the manufacturer. Use the following procedure to program your remote control:

1. Press and hold both the **TV**  and **OK** keys on the remote control for at least 5 seconds. The **Main Menu** button will illuminate.
2. Using the numbered keys, enter the 3 digit code listed for your make of TV.
3. The **Main Menu** button will flash once and remain lit.
4. Press the **OK** button.
5. The **Main Menu** button will flash 3 times and then turn off to confirm programming is complete.
6. Press the **TV**  button to test if your TV can be switched on and off.

If the manufacturer uses several codes, you may need to repeat the sequence until you find the right code.

Scanning through Control Codes

If the manufacturer of your TV is not listed, or the specified code does not work use the following procedure to scan through all programmed remote codes.

1. Press and hold both the **TV**  and **OK** keys on the remote control for at least 5 seconds. The **Main Menu** button will illuminate.
2. Press CH+ or CH- until your TV turns on.
3. When your TV switches off, press **OK** to store the code.

<p>Tip. If neither of these methods is successful, please try the learning mode (see page 23).</p>

TV Manufacturers' Control Codes

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
3M	006	ATLANTIC	049 050 071 113 152 236 379
A.R. SYSTEMS	049 152	ATORI	195
ACCENT	049 152	AUCHAN	107 425
ACEC	112	AUDIOSONIC	049 074 076 152 182 195 213 379 421
ACER	484 329	AUDIOTON	050 076 379 421
ACURA	195	AUDIOVOX	051
ADCOM	015	AUSIND	090 407
ADMIRAL	065 076 163 171 190 307 324 369	AUTOVOX	050 071 078 079 080 083 090 156 236 324 379 407 449
ADVENTURA	022	AVENTURA	056
ADYSON	379	AVION	058
AEG	044	AWA	018 049 131 152 195 226 320 379 426 433
AGASHI	076 379	AYOMI	411
AGAZI	027	BAIRD	074 102 182 209 218 379 409
AGB	028	BANG & OLUFSEN	324 319
AGEF	324	BARCO	107 371
AIKO	049 076 102 141 152 172 195 225 379	BASIC LINE	049 107 123 195 226 378
AIWA	377 459	BASTIDE	379
AKAI	049 050 055 066 076 102 107 123 139 141 150 152 172 182 195 209 225 379 428 433 437	BAUMATIC	097
AKIBA	049 123 152 378 380	BAUR	049 107 150 152 172 247 249 357 414 454
AKITO	049 106 152	BAZIN	337
AKURA	049 076 123 195 378 426	BEAUMARK	350
ALARON	042 379	BEKO	152 241 421 433 460
ALBA	018 049 050 107 123 134 163 168 195 225 232 379 421 457	BELSON	044
ALBIRAL	371	BELSTAR	115
ALCYON	407	BENNET	214
ALLORGAN	050 094 236 379	BENQ	017
ALLSTAR	049 152	BEON	049 152 163
AMPLIVISION	113 379 421 425	BERKENP	338
AMSTRAD	004 049 076 123 131 152 172 195 225 426	BEST	213 421
ANAM	049 152 195	BESTAR	049 152 226 421
ANAM NATIONAL	049 152	BIAZET	388
ANGLO	076 195	BIFONIC	401
ANITECH	049 076 152 195 407	BIGSTON	401
ANSONIC	045 049 107 112 152 195 210 226 391 421	BINATONE	379
AOC	032 034	BLACK DIAMOND	114
APEX	036 037	BLACK STAR	062
APEX DIGITAL	038 039	BLACKTRON	378
ARC EN CIEL	074 182 186 424 453 463	BLACKWAY	378
ARCAM	379 424	BLAUPUNKT	057 060 113 247 249 454
ARISTONA	049 050 065 079 112 152 160	BLUE SKY	049 123 152 195 217 232 378 380 457
ARTHUR MARTIN	107 127 136 139 153 307 425	BLUE STAR	378
ASA	020 065 078 080 091 146 171 197 307 324 375 408 449	BONDSTEC	063
ASBERG	049 152 407	BOOTS	050 106 379
ASORA	195	BPL	049 152 378
ASTRA	195	BRANDT	008 074 182 186 218 424 436 452 462
ASUKA	050 076 123 378 379	BRANDT ELECTRONIC	074 453 463

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
BRANDT	074 182 186 453	DAENYK	042
ELECTRONIQUE			
BRAUN	084	DAEWOO	049 123 152 193 195 226 379 456 464
BRENDSTAR	087	DAINICHI	123 379
BRINKMANN	049 152 163	DANSAI	049 076 141 152 195 379
BRIONVEGA	049 065 083 152 167 172 324	DANSETTE	426
BRITANNIA	379	DANTAX	421
BROKSONIC	095	DATSURA	209
BROTHER	076	DAWA	049 152
BRUNS	065 324	DAYTON	049 152 195 226
BSR	094 107 110 139 168	DCE	117
BTC	123	DE GRAAF	107 139 209 307
BUSH	018 049 076 094 106 107 123 134 139 142 172 193 195 209 217 225 226 232 307 378 379 457 458	DECCA	049 102 106 120 217
BUSH(UK)	107 168	DECCA(UK)	046 049 050 102 106 131 152 379
CAPSONIC	049 076 152 380	DEITRON	049 152
CARREFOUR	018 177	DELL	118 119
CASCADE	049 064 152 195	DENKO	076
CASIO	049 152	DENON	126
CATHAY	049 152	DENVER	121
CCE 049	152 379	DERWENT	105
CENTREX	021	DESMET	049 113 152
CENTURION	049 152	DIBOSS	122
CENTURY	065 163 324 411	DIGATRON	049
CGE	002 090 093 094 107 139 142 163 168 369 407 421	DIGILINE	049 152
CIHAN	217	DISHNETWORK	130
CIMLINE	123 134 195	DIXI	049 152 195 379
CITY	195	DORIC	104 105
CLARITY	030	DREAN	049 152
CLARIVOX	049 125 163	DREAMVISION	132 133
CLATRONIC	045 049 076 113 123 152 195 225 379 407 421	DTS	195
CMS HIGHTEC	379	DUAL	049 050 107 139 152 156 168 182 243 379 414 417 424
COMPUTRON	101	DUAL TEC	040 050 168 195 379
COMTEL	125 217	DUMONT	045 065 080 102 139 146 324 375 379 449
CONCORDE	195	DUMONT-FINLUX	020 045 078 091 104
CONDOR	045 049 050 113 152 163 195 210 378 379 421	DURABRAND	135
CONTEC	018 131 195 320 379	DUX	049 112 152
CONTINENTAL	008 074 182 186 232 424 453 462 463	DWIN	137
EDISON			
COSMEL	195 213	DYNAMIC	138
CRAIG	111	DYNATRON	049 152
CROSLEY	065 090 093 094 104 107 139 324 407	DYNEX	140
CROWN	049 152 163 170 195 209 232 407 421	ELBE	049 107 123 152 172 210 243 369 391 411 421 435
CRYSTAL	115	ELBIT	217
CS ELECTRONICS	123 379	ELCIT	045 046 065 104 107 150 168 324
CTC CLATRONIC	045	ELECTA	076 378
CURTIS MATHES	126 190	ELECTROGRAPH	157
CYBERTRON	123	ELECTROHOME	158
ELECTRO TECH	195	GEC	049 102 104 107 120 152 171 172 307 379
ELEKTA	076 378	GEC(UK)	046 050 102 107 150 162
ELEMENT	159	GELOSO	104 107 139 168 171 195 226 307
ELG	049 152	GEMSOUND	176

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
ELIN	020 049 107 139 152 172 195 379	GENERAL	064 074 182
ELITE	049 123 152	GENERAL TECHNIC	195
ELMAN	045 168	GENEXXA	049 123 152 307 426
ELTA	195 076 379	GERICOM	031 043
EMERSON	004 042 049 065 113 152 225 324 378	GM	178
ERRES	049 112 152	GMG	179
ESA	164	GOLDHAND	379
ESC	049 152	GOLDLINE	213
ETRON	049 107 139 152 195	GRANADA	013 018 033 041 049 102 104 105 112 120 152 171 172 198 209 218 238 241 307 379 407 425
EURO-FEEL	045 046 049 050 068 107 120 152 168 379	GOLDSTAR(LG)	049 050 055 107 139 152 168 172 182 195 379 414 421 460 011
EXPERT	071 107 236 425	GOODMANS	018 042 049 076 102 134 139 141 152 182 193 195 218 225 226 232 379 428 450 456 464
EXQUISIT	049 152	GORENJE	421
FAMILY LIFE	049 152	GPM	123
FENNER	152 195 226	GRADIENTE	049 152 170 177
FERGUSON	049 050 074 076 080 082 102 103 182 218 247 409 411 436 452	GRAETZ	049 090 104 136 139 152 153 162 171 172 198 225 307
FIDELIS	165	GRANADA(UK)	046 050 090 107 139 162 307
FIDELITY	049 050 076 107 152 225 307 379	GRANDIN	049 107 113 123 152 195 378 380 425 435
FILSAI	050 379	GRENADIER	181
FINLANDIA	033 139 172 197 209 307 375	GRONIC	045 379
FINLUX	020 042 045 049 078 080 090 091 102 104 107 139 146 152 163 197 210 324 375 379 407 408 428 429 437 449	GRUNDIG	049 080 090 152 232 247 249 407 454 455
FIRST LINE	045 049 094 102 107 134 139 152 191 195 209 210 226 379 411 457	HAIER	327
FISHER	018 041 050 065 069 102 104 107 139 156 172 209 320 324 379 408 414 421	HALIFAX	076 379
FLINT	049 102 123 152 380	HAMPTON	379
FNR	045	HANIMEX	094
FORMENTI	049 090 107 113 139 307 324 379 407	HANNS-G	022 029
FORMENTI-PHOENIX	050 104 113 307	HANSEATIC	018 049 050 094 104 107 113 152 172 195 241 324 378 379 391 421 455
FORTRESS	190 324	HANTAREX	045 046 049 152 195
FRABA	049 152 421	HANTOR	049 152
FRIAC	045 049 152 195	HARLEY DAVIDSON	042
FRONTECH	066 076 139 195 307 379	HARWOOD	049 152 195 426
FUJITSU	042 045 071 102 107 195 236 379	HAUPPAUGE	049 152
FUJITSU GENERAL	195 379	HAVERMY	190
FUNAI	042 076 094	HCM	049 076 123 152 163 195 378 379 426
GALAXI	045 049 152	HEMA	195 379
GALAXIS	045 049 152 163 421	HEMMERMANN	150
GALERIA	169	HIFIVOX	074 182 186 424 453 463
GATEWAY	173	HIGASHI	050
GBC	104 107 139 168 195 226	HIGHLINE	049 076 152
GE	074 182 218 378	HIKONA	123
GEANT CASINO	107 425	HILINE	188
GEBER	175	HINARI	004 018 042 049 066 094 107 123 134 139 195 209 232 307
HISAWA	123 378 380 425	KAISER	214
HISENSE	009 326 025	KAISUI	049 050 123 152 195 378 379 380
HIT	324	KAMOSONIC	050

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
HITACHI	018 020 033 049 050 074 086 099 102 104 107 110 126 127 139 150 152 162 168 171 182 186 218 238 307 379 014 309	KAMBROOK	215
HITACHI FUJIAN	013	KAMP	379
HITSU	123 195 380	KAPSCH	071 107 172 236
HORNYPHON	049 112 152	KARCHER	020 045 049 050 068 076 107 152 195 217 378 421 435
HOSHAI	017	KATHREIN	455
HYGASHI	379	KAWASHO	379
HYPER 050	168 195 379	KB ARISTOCRAT	107
HYPERION	192	KENDO	045 049 055 134 152 172 210 421 435
HYPERSONIC	172	KENNEDY	071 079 104 107 139 236 369
HYPSON	049 076 217 378 379 380 425	KENWOOD	219
HYUNDAI	194	KINGSLEY	379
IBERIA	049 152	KIOTA	221
IBERVISAO	196	KLARMAX	371
ICE	049 076 123 152 195 225 379	KLEGG	222
ICES	123 379	KLH	223
ILO	199	KNEISSEL	049 152 210 243 369 391 411 421 435
IMPERIAL	002 049 090 093 094 107 142 152 163 168 307 369 407 421	KOBIC	227
INDIANA	049 152 090 104 136 139 153 162 171 198 232 435	KOLSTER	045 049 152
INFOCUS	200	KONKA	049 123 152 225
INGERSOLL	195	KONIG	228
INNO HIT	046 049 050 066 102 123 152 195 217 379 407	KONTAKT	232
INNOVATION	049 152	KORPEL	049 152
INSIGNIA	201	KORTING	065 094 113 324 421
INTERACTIVE	210	KOSMOS	049 152
INTERBUY	076 195	KOTRON	076 426
INTERCORD	202	KOYODA	195
INTERFUNK	049 065 067 074 090 104 107 112 139 150 152 153 172 182 307 324 421 453 463	KRAKING	411
INTERNAL	049 152	KRIESLER	050 065 079 112 152 160
INTERVISION	045 049 055 076 107 123 152 225 232 378 379 380 421 ITL 203	KTV	050 379
IRRADIO	049 066 090 123 152 195 407	KURO	445
ISUKAI	049 123 152 378	KYOSHU	076 163 426
ITC	379	KYOTO	107
ITS	049 076 123 152 225 378 379	LEADER	231
ITT	042 090 107 134 139 150 162 171 172 193 197 198 209 307 375 428	LECSON	049 152
ITT-NOKIA	042 090 104 107 134 136 139 150 153 162 171 172 193 197 198 209 307 375 428 433 435 437	LEGEND	054
ITV	076 049 152	LEMAIR	210
JINLIPU	207	LENCO	049 107 152 195 226
JEAN	018	LENOIR	050 195
JEC	141	LESA	233
JET POINT	365	LEYCO	049 076 094 102 152
JVC	018 103 123 170 182 225 409 433 439 465 007	LIESENK & TTER	049 112 152
KAIDO	212	LIFE	440 441 443 444
LIFETEC	049 076 123 152 195 226 440 441 443 444	MINTEK	246
LLOYD_S	195	MISAKAI	248
LOEWE	035 049 089 120 152 324 391 421	MITSUBISHI	013 018 049 065 105 131 152 190 247 324

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
	001		454 053
LOEWE OPTA	035 046 049 065 120 144 152 213 324	MIVAR	046 050 072 081 090 120 379 391 407 414 421 434
LOGIK	131 225	MONACO	195
LOGIX	195	MORGAN_S	049 152
LUMA	071 107 110 152 171 172 195 210 226 236 307	MOTION	407
LUMATRON	049 076 107 152 172 236 379	MOTOROLA	190
LUX MAY	049 152 195	MOXI	251
LUXOR	042 050 090 107 127 139 150 172 197 209 307 375 428 429	MTC	152 379 421
LYCO	076	MTEC	106
MAAZ	371	MULTISTANDARD	045
MADISON	049 152	MULTITEC	049 152 195
MAGNADYNE	045 046 065 104 107 120 139 150 168 324	MULTITECH	045 046 049 050 120 152 195 379 407 421
MAGNAFON	045 046 050 068 090 120 379 407	MURPHY	102 104 105 107 171 307 379
MAGNAVOX	018 042 049 152	MURPHY(UK)	162
MAGNUM	440 441 443 444	MUSIKLAND	123
MANDOR	076	MYRYAD	455
MANESTH	076 094 113 134 141 152 379	NAD	172 209
MANHATTAN	049 195	NAIKO	049 152
MARANTZ	049 152 455	NAKIMURA	049 152 226
MARELLI	324	NAONIS	040 071 079 110 171
MARK	049 152 195 226 379	NAT	085 151
MASCOT	239	NATIONAL	033 085 104
MASUDA	123 195 225	NEC	018 049 113 131 152 177 195 226 379 380 010 025
MATSUI	004 018 041 049 050 094 100 102 106 107 131 134 141 150 152 171 195 209 218 225 232 247 307 379 380	NECKERMANN	002 049 050 065 107 139 152 163 210 247 249 307 324 357 379 421 455
MAXAM	240	NEDIATOR	152
MAXENT	242	NEI	049 125 152 225
MAXIMAL	139	NESCO	042
MAXWELL	371	NETSAT	049 152
MEDIATOR	049 112 152	NETWORK	213
MEDION	049 152 195 217 457 328	NEUFUNK	049 152 195 435
MEGAS	435	NEW TECH	049 050 152 182 195 379
MEGATRON	126	NEW WORLD	123
MELECTRONIC	020 049 074 152 182 193 195 197 210 226 375 379 408 428 429	NICAMAGIC	379
MELVOX	425	NIKKAI	018 049 076 102 123 125 139 141 152 195 213 379 066
MEMOREX	099 195 217	NOBLEX	049 076 152
MEMPHIS	102 125 195 213	NOBLIKO	045 050 080 090 379 407
MERCURY	049 152 195	NOGAMATIC	074 182 186 424 453 463
METZ	049 065 067 070 092 247 324 412 420 454	NOKIA	090 104 107 134 136 139 150 153 162 171 172 193 197 198 209 226 307 375 428 429 433 437 465
MGA	244	NORDMENDE	049 074 083 150 152 182 186 218 247 307 424 453 463
MICROMAXX	049 152 195	NOTHERN STAR	255
MICROSTAR	440 441 443 444	NOVATRONIC	020 049 152 226
MINERVA	080 090 232 247 249 407 454	NOVA	303
MINOKA	049 152 426	NUVISION	310
OCEANIC	086 094 104 107 108 109 139 172 209 425	PERFEKT	049 152
OCEANIC(F)	150	PERSHIN	425
ODEON	076	PHILCO	002 016 049 065 090 093 094 104 107 126

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
O GENERAL	330	PHILHARMONIC	142 152 163 168 324 369 407 421
OKANO	049 076 102 152 421	PHILIPS	379
OLEVIA	331	PHOCUS	008 049 050 065 079 089 112 152 160 182
OLYMPIC	332	PHOENIX	193 216 217 220 226 247 249 324 427 455
OMEGA	076	PHONOLA	482 025
ONCEAS	050	PILOT	047
ONWA	123 225	PIONEER	049 050 102 104 107 113 152 324 379 421
OPERA	049 152	PLANTRON	049 152
OPTIMUS	099	PLAYSONIC	049 074 152 172 182 209 218 307 421 427
OPTOMA	333	POLAROID	003
OPTONICA	190	POLICOM	049 076 152 195
ORBIT	049 152	POPPY	379
ORIENT	336	PORTLAND	343
ORION	004 042 045 049 076 094 113 131 134 139 150 152 191 195 216 366 367 426	POWERPOINT	074
ORLINE	049 123 152	PRANDONI-PRINCE	195
ORMENTI-PHOENIX	104	PRECISION	343
ORMOND	195	PREMIER	074
OSAKA	066	PRIMA	195
OSAKI	049 066 076 102 106 123 152 226 379 426	PRINCE	226
OSIO	049 152	PRINCESS	232
OSO	123	PRINZ	046 090 120 171 172 307 407
OSUME	018 102 123	PROFEX	379
OTAKE	450	PROFI-TRONIC	142
OTHER LINE	337	PROLINE	076 195 307
OTTO VERSAND	018 049 050 074 094 104 107 113 134 139 152 172 190 218 247 249 357 362 379 414 454 455	PROSCAN	046 171
OVP	338	PROSONIC	344
P.T ACTRON	217	PROTECH	102
PACIFIC	316	PROTON	107 139 195 407
PAEL	050 379	PROVISION	045 049 152
PALLADIUM	049 107 152 163 210 247 324 357 379 421	PYE	049 102 112 191 366 436
PALSONIC	049 055 076 152 379 426 019 023 052	PYMI	345
PANAMA	049 076 152 195 379	QUADRA VISION	049 085 151 152 195 225 226 379 421
PANASONIC	016 049 099 104 107 139 151 152 172 396 420 461 304 305	QUASAR	045 049 076 125 139 152 163 195 379 457
PANAVISION	049 152 210	QUELLE	346
PANAVOX	339	QUESTA	049 152
PANORAMIC	340	RADIALVA	050 065 079 112 152 160 226 324
PATHE CINEMA	107 113 379 391 411 425	RADIOLA	018
PATHE CINEMA(F)	050 168	RADIOMARELLI	049 074 107 123 152
PATHE MARCONI	008 074 182 186 424 453 462 463	RADIONETTE	008 049 050 065 079 112 152 160
PAUSA	195	RADIOOSHACK	045 046 065 104 105 150 152 168 324
PAUZA	195	RADIOTONE	020 150
PERDIO	049 102 107 113 152	RANK ARENA	049 152
RCA	190 218 436	SEARS	049 076 152 163 195 421 426
REALISTIC	350	SEG	018
RECOR	049 152	SEI	042
			018 045 049 050 076 107 152 172 195 232 379 407 457
			004 045 049 094 107 139 152 236 324 357










TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
RECTILIGNE	049 152	SEI SINUDYNE	446
REDIFFUSION	018 059 104 105 139 171 172 307	SELECO	040 071 079 107 110 152 171 172 210 236 243 307 369
REDIFFUSION(UK)	150 162	SENCORA	195
REDSTAR	049 152	SENTRA	123 139 141 195
REFLEX	049 152	SERINO	380 435
REGENTE	351	SHARP	018 094 170 190 320 362 308
REOC	460	SHERWOOD	374
REVOX	049 152 421	SHORAI	042 094
REX	040 071 079 107 110 152 171 210 236 243 307	SHOW	376
RFT	076 102 241 324 391 421	SIAM	049 152
RHAPSODY	379	SIAREM	045 046 065 104 107 120 139 324
R-LINE	049 152	SIEMENS	018 049 066 113 152 247 249 307 320 454
ROADSTAR	049 076 123 152 163 195	SIERA	050 065 079 112 152 160
ROBOTRON	065 324	SIERRA	049 112 152
RODEX	049 152	SIESTA	421
ROSITA	354	SILVA	049 152 379
ROWA	458	SILVER	018 042 049 076 152 172
ROWSONIC	050	SIM2	381
ROYAL LUX	421 426	SINGER	045 049 065 104 152 195 324 369 425
RUNCO	356	SINOTEC	383
RTF	065	SINUDYNE	004 045 065 094 104 107 134 139 150 152 172 210 216 236 324 357 366 367
SABA	046 065 074 077 107 120 139 172 182 186 218 307 324 424 436 452 453 463	SKANTIC	307
SACCS	411	SKY	049 152 487 490
SAGEM	378 380 435 311	SKYWORTH	448
SAISHO	004 050 076 107 131 134 195 307 379	SMARAGD	384
SAKURA	359	SOGERA	113
SALORA	033 107 127 136 139 150 153 171 172 198 209 307	SOLAVOX	066 102 107 139 172 307
SAMBERS	045 046 068 090 120 407	SOLE	386
SAMPO	360	SONAWA	123
SAMSUNG	049 050 066 076 102 152 195 209 217 365 379 414 421 455 486 488 318	SONIQ	322 323 325
SANDRA	379	SONITRON	209 379 421
SANELA	411	SONNECLAIR	049 152
SANSUI	049 152 225	SONOKO	049 050 076 152 195 378 379
SANTON	195	SONOLOR	107 139 172 209 357 425
SANYO	018 020 041 049 050 065 102 107 131 152 195 198 209 320 379 391 408 421 314	SONTEC	049 094 152 421
SAVE	049 152	SONY	018 045 131 211 357 358 370 301 302
SBR	049 112 152	SOUNDMASTER	387
SCEPTRE	372	SOUND & VISION	045 123 226
SCHAUB LORENZ	090 104 136 139 153 162 171 198 307 433 005	SOUND WAVE	049 113 163
SCHNEIDER	008 040 049 050 065 069 079 104 107 112 123 139 152 156 160 168 172 182 195 225 243 307 379 382 414 417 457	SOUNDESIGN	042
SCOTT	042	SPECTRA	195
SSANGYONG	195	TEDELEX	379
STANDARD	049 050 113 123 152 195 226 379	TEIRON	195
STAR	388	TEKNANT	400
STARLIGHT	049 076 107 152 195	TEKNIKA	042



TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
STENWAY	123 378	TEKON	401
STERN	040 071 079 107 110 152 171 236 243 307	TELEAVIA	008 074 182 186 218 424 453 462 463
STRATO	049 076 152 195	TELECOR	049 107 123 152 379
STRONG	312	TELEFAC	402
SUNKAI	049 094 123 134 152 191 232 367 380	TELEFUNKEN	049 064 074 082 152 182 186 187 218 230 424 436 452 453 463 489
SUNSTAR	049 152 195 225	TELEFUSION	049 152
SUNWOOD	049 152 195	TELEGAZI	049 076 107 123 152
SUPERLA	379	TELEMEISTER	049 113 152
SUPERTECH	049 123 152 195 379	TELEOPTA	404
SUPRA	195 226	TELERENT	405
SUSUMU	123 218	TELESONIC	049 152
SUTRON	195	TELESTAR	049 152
SWISSTEC	48	TELETECH	049 152 195 213
SYDNEY	379	TELETON	018 067 071 107 236 379
SYLVANIA	392	TELEVIDEON	050 104 107 113 379
SYMPHONIC	393	TELEVISIO	425
SYSLINE	049	TEMCO	094
SYTONG	379	TEMPEST	049 152 195
TACTUS	106	TENNESSEE	049 152
TADISTAR	394	TENSAI	020 050 055 094 113 123 152 195 225 226 379 450
TALENT	395	TENSON	413
TANDBERG	065 074 078 172 182 210 213 420 449	TESMET	439
TANDY	050 102 123 190 307 379	TETUNG	046
TARGA	397	TEVION	049 152 195 313
TASHIKO	018 050 107 177 379	TEXET	050 123 195 226 379
TATUNG	049 050 102 106 120 131 152 217 379	THOMSON	008 024 026 049 064 074 134 152 182 186 218 230 424 436 453 462 463 321
TCL	398	THORN	049 102 103 106 141 152 218 226 408 409 411 454 464
TCM	440 441 443 444	THORN-FERGUSON	074 076 080 082 103 218 357 358 375
TEAC	049 076 152 163 195 217 378 380 426 457 458 012 010	TMK	416
TEC	040 050 064 168 195 213 218 243 379	TOBO	418
TECH LINE	049 152 195	TOKAI BA	018 045 128 141 369 379
TECHNISAT	061	TOWADA	045 379
TECHNOL	399	TOYODA	195
TECHICA	123	TRAKTON	076
TECHNEMA	113	TRANS CONTINENS	046 049 152 171 307 379
TECHNICS	099	TRANSONIC	049 152 380 458
TECHNOL ACE	042	TRANSTEC	379
TREVI	419	WALTHAM	049 152 163 182 307 379
TRIAD	422	WATSON	049 107 113 123 152 195 247
TRIDENT	379	WATT RADIO	045 050 068 104 107 139 150 379
TRISTAR	123	WEGA	018 049 139 152 324
TRIUMPH	004 046 049 128 152 197 375	WEGA COLOR	065 088
TRIVISION	430	WEGAVOX	195
TRUTEK	431	WELTBlick	113 152
UHER	049 069 071 080 090 113 152 163 226 236 307 407 414 421	WESTINGHOUSE	094 152
ULTRA	409	WESTON	168
ULTRAVOX	045 049 050 065 104 107 139 152 226 324 379	WHARFEDALE	049 152
UNIC LINE	049 152	WHITE	045

TV Manufacturer	Control Codes	TV Manufacturer	Control Codes
UNIC RADIO	438	WHITE	049 050 113 152 213 379
UNITED	049 152 491	WESTINGHOUSE	
UNIVERSUM	002 004 018 020 049 074 076 094 107 131 152 163 172 195 197 210 213 247 320 357 375 379 407 408 421 428 429 437 454	WINBOOK	470
UNIVOX	049 107 152 213 324 411	WINCO	426
UTAX	050	WINDSTAR	378
VANGUARD	447	WINTAL	315
VEGAVOX	163	WINTERNITZ	471
VESTEL	049 107 125 152 379	WORLD-TECH	473
VEXA	152 195	XRYPTON	049 152
VICTOR	170	YAMAHA	474 075 096
VIDEO SYSTEM	049 152	YAMISHI	049 123 152 378 379 380
VIDELOGIQUE	123 379	YOKAN	049 152
VIDEOSYSTEM	049 152	YOKO	049 050 076 123 152 195 379 421
VIDEOTECHNIC	113 226 379	YORX	123
VIDEOTON	107	ZANUSSI	040 071 079 110 152 171 236 307 379
VIDIKRON	045	ZENITH	475
VIDION	451	ZOPPAS	040 071 079 110 171 307
VIDTECH	018		
VIEWSONIC	073		
VIORE	466		
VIPER	213		
VISIOLA	379		
VISION	049 113 152		
VISOREX	442		
VISTAR	172 236		
VIZIO	467		
VOLTEC	074		
VORTEC	152		
VOXSON	049 065 090 152 163 171 307 324 407		
WALKIE	469		














9. Symbols and Icons
















Symbols on HDS-600RS

Symbol	Meaning
	The product complies with applicable EU directives.
	Do not dispose of with normal household waste.
	Caution, read the instructions.
	The equipment has additional insulation and does not need to be earthed.
	Alternating Current.
	USB connector.
	<p>HDMI logo.</p> <p>This logo tells you that the receiver incorporates High-Definition Multimedia Interface technology.</p> <p>HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.</p>
	<p>Dolby Digital Plus logo.</p> <p>Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.</p>
	<p>freesat logo</p> <p>This logo tells you that this equipment is capable of receiving free-to-air digital satellite signals and has built in recorder.</p> <p>freesat is a registered trade mark and the “freesat” logo is a trademark of Freesat (UK) Ltd.</p>

Symbol	Meaning
	<p>Sling logo.</p> <p>This logo tells you the receiver is capable of place shifting your TV content.</p>
	<p>HD logo</p> <p>This logo tells you the receiver is capable of receiving and displaying HD content.</p>

Information Icons

Icon	When displayed (programme guide or info bar)
	Contains one or more subtitle components.
	Does not contain any subtitles.
	Contains a Dolby Digital Plus audio component.
	Contains a Dolby Digital audio component, but not Dolby Digital Plus.
	Contains an Audio Description component.
	Does not contain an Audio Description component.
	Contains more than one audio language component.
	Contains only one audio language component.
	Broadcast in more than one discreet part with one or more other programmes between the parts.
	The current output resolution on HDMI is 576p .
	The current output resolution on HDMI is 720p .
	The current output resolution on HDMI is 1080i .
	The programme is broadcast in SD. An HD version of the programme is also available at the same, or at an earlier, or at a later, time on a different channel.

	Programme has an associated recommendation.
	This is a radio service (audio only).
	This is a text only (i.e. MHEG) service.
	A future recording has been scheduled for this programme.
	This programme is currently being recorded.
	A Reminder has been set for this programme.
	Channel N/A.
	This is a TV service (audio and video).
	This recording is subject to parental guidance.
	This recording is locked or This channel is locked
	This recording was not completed successfully.
	This event is broadcast in HD (720p, 1080i, or 1080p).
	This programme is part of a series.
	Text service available on this channel.
	Text service unavailable on this channel.

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