



**BUSH**

FSFT500PVR



# Your **USER GUIDE**

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# Welcome to Freesat.

## INCLUDED WITH YOUR SMART TV RECORDER

- ✓ Quality state of the art satellite TV receiver
- ✓ Over 200 of your favourite channels
- ✓ Picture perfect High Definition on selected channels
- ✓ BBC iPlayer, ITV Hub, BBC News and BBC Sport app
- ✓ Pay for a little extra telly if you want with Hopster
- ✓ Catch up on the last 7 days of TV with a unique Roll Back TV Guide
- ✓ Showcase (specially selected editorial TV picks)
- ✓ Clever Recording – the smart way to organise your recorded shows
- ✓ Easy plug and play set up
- ✓ Free, expert customer support – visit [freesat.co.uk/help](https://www.freesat.co.uk/help) or call **0345 313 0051**

### NEED A HAND?

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If you need help anywhere along the way, just go to the **Help & info** menu on the **Home** screen or visit [freesat.co.uk/help](https://www.freesat.co.uk/help)

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# Safety precautions

Thank you for choosing this product. This manual will guide you for the proper operation of your set top box. Before operating the set top box, please read this manual thoroughly. Please keep this manual in a safe place for future reference. Read the corresponding instructions of this handbook prior to the first use of the device, even when the usage of electronic devices is familiar to you.

**IMPORTANT - Please read these instructions fully before installing or operating.**

## Power Source

Always use the provided AC adapter.

Operate only from the power source specified on the AC adapter.

The power adapter may become hot during normal operation. This is not a malfunction.

Please make sure that the adapter is not covered while in operation. Leave a space of 15 cm (minimum) around the AC adapter.

The rating information and safety caution of the AC adapter are provided on the adapter.

**WARNING:** When the set is not in use for a long time, disconnect from the power.

## Power Cord

Do not place the unit or a piece of furniture, etc., on the power cord, or pinch the cord.

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock.

Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock.

Check the power cord once in a while. If you find it damaged, ask closest service agent for help.

## Position

Please do not place the unit in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.

The device should be placed on a solid and safe base. Do not place the apparatus on a soft surface such as a rug that might block the ventilation holes on the bottom.

A location should not be selected such as a room with high humidity, as the condensation, arising in the kitchen for example, may cause malfunction or damage the device. Heating or other thermal radiation under the set also may cause malfunction or damage the device.

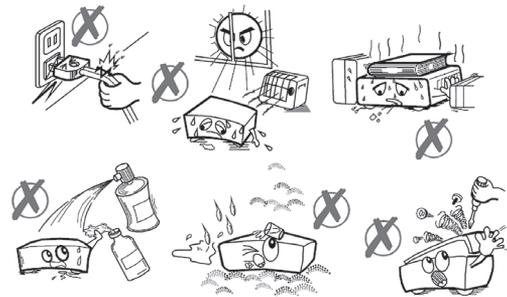
The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the device into closed areas and do not cover it.

Please avoid contact of the device with water or humidity. Do not put into operation near a bath or swimming pools.

Take care to provide good air circulation. Place the device in a location with adequate ventilation to prevent heat build-up in the device.

Should any solid object or liquid fall into the cabinet, unplug the device and have it checked by qualified personnel before operating it any further.

The device should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the device.



CE

## Batteries

**CAUTION:** Batteries should not be exposed to excessive heat such as sunshine, fire or the like.

**WARNING:** Incorrect installation of batteries may cause battery leakage and corrosion, resulting in damage to the remote control.

Do not mix old and new batteries, or batteries of different types.

Do not dispose of batteries in a fire.

Do not dispose of batteries with normal household waste, take to a local recycling centre.

**CAUTION:** Insert the batteries / rechargeable batteries in the correct polarity. Don't try to recharge non rechargeable batteries and under no circumstances throw them into fire. Danger of explosion.

Do not use unequal batteries (old and new, alkaline and carbon, etc.) simultaneously.

If you will not use the device for a long time, remove the batteries and store the device in a dry and dust free place.

Improper use of batteries may cause an explosion or leakage. If the batteries have leaked, use gloves and clean the appliance thoroughly with a dry cloth.

## Markings on the Product

The following symbols are used on the product as a marker for restrictions and precautions and safety instructions. Each explanation shall be considered where the product bears related marking only. Note such information for security reasons.



**Class II Equipment:** This appliance is designed in such a way that it does not require a safety connection to electrical earth.



**Class II Equipment With Functional Earthing:** This appliance is designed in such a way that it does not require a safety connection to electrical earth, the earth connection is used for functional purposes.



**Protective Earth Connection:** The marked terminal is intended for connection of the protective earthing conductor associated with the supply wiring.



**Hazardous Live Terminal:** The marked terminal(s) is/are hazardous live under normal operating conditions.



**Caution, See Operating Instructions:** The marked area(s) contain(s) user replaceable coin or button cell batteries.



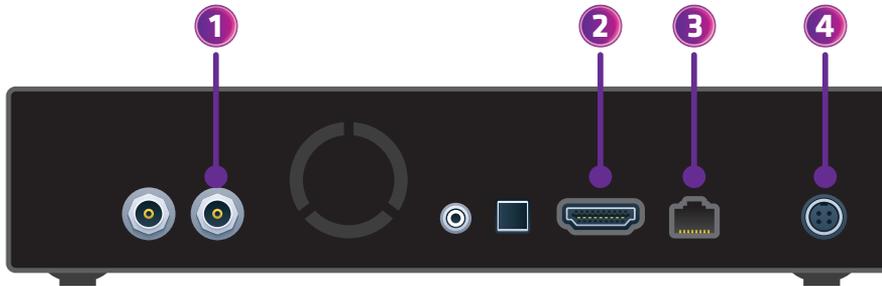
**Class 1 Laser Product:** This product contains Class 1 Laser source that is safe under reasonably foreseeable conditions of operation.

## WARNING: RISK OF ELECTRIC SHOCK



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage within" the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

# Setting up your Freesat box



## How to set up your box

1. With the power on your box turned off, screw in the cables from your satellite dish into the port(s) on the back of the box.  
If you want to record to this box please make sure you screw two cables into the box before turning it on. If you only screw one cable in, the box will not be able to record until two cables are screwed in and you change the set up from 'single' to 'dual' in **Settings** **Freesat Channels** menu, or do a Factory reset.
2. Now connect your box to your TV using the HDMI cable supplied.
3. Next, connect your box to your home broadband by plugging in an Ethernet cable, or connect to WiFi once the box is switched on.
4. Finally, plug the box in and switch it on at the socket.

## Connect to your broadband

Connect your box to your home broadband to access great On Demand players and extra features like Showcase and the Roll Back TV Guide.

The best way to connect is with an Ethernet cable. Slot one end into the Ethernet port on the back of the box and the other into an Ethernet port on your router.

Alternatively you can connect to your home WiFi network once the box is switched on.

Press **HOME**, go to **Settings** then **Network Connection** and the box will show all available wireless networks. Select yours and enter your password using your remote control, and you're all set.

# On-screen set up

Just follow the on-screen instructions to get set up. Here are a couple of tips.

## Software updates

When the box is turned on for the first time it will search for software updates. If an update is available you can choose to install it immediately, but if you don't want to the box will automatically run the update later.

## Enter your postcode

This will give you your local regional channels and news from the BBC and ITV. Enter your postcode using the on-screen keyboard and make sure you include the space (Screen 1).

## Protect your children's viewing

Create a four digit PIN to control access to On Demand and recorded programmes that might be unsuitable for younger viewers. You can manage this once your box has been set up by pressing **HOME**, select **Settings** and then **General Settings** (Screen 2).



# Your remote control

**TV Standby** - puts your TV in/out of standby

**Recordings** - goes to your recordings

**TV Guide** - opens and closes the TV Guide

**Mute** - silences audio

**Volume** - increase or decrease the sound level

## MAIN CONTROLS

**Up, down, left, right arrows** - get around the TV Guide and menus

**OK** - confirm your selection

**Back** - goes back one step

**Rewind** - rewind up to x32 times faster

**Record** - records what you're watching or sets a recording in the TV Guide

**List** - sorts the TV Guide into channel categories

**Number buttons** - to enter channel numbers

**Sub** - turns subtitles on or off



**Standby** - puts the box into standby and switches it on again

**AV** - changes the input source on your TV

**On Demand** - takes you to our Catch Up players

**Showcase** - our top picks for what to watch

**Channel switcher** - change the channel up or down, or move through the TV Guide quickly

**Info** - gives you more info about a programme

**Home** - takes you to the Home screen

**Exit** - returns to live TV

**Fast forward** - fast forward up to x32 times faster

**Play, pause, stop** - start and stop live TV, recordings and On Demand

**Colour buttons** - gives you more options on screen

**AD** - turns audio description on or off

# On screen icons

## ON SCREEN ICONS

-  may contain material with adult themes
-  subtitles available
-  audio description available
-  shown with sign language
-  surround sound available
-  High Definition
-  an HD version also available
-  reminder
-  part of a series
-  film

## RECORDING ICONS

-  to be deleted soon
-  kept (won't be deleted)
-  unwatched
-  part watched
-  series recording set
-  recording set
-  recording failed
-  watch from the start

# Home



The Home screen will take you anywhere you want to go. Press **HOME**

Home takes you to:

## TV Guide

See what's on Now & Next.

## Showcase

The Freesat team's picks of what to watch this week and what's available On Demand.

## Recordings

Record a show or entire series at the touch of a button, all easy to find in the Recordings section.

## Settings

Manage your settings for language, internet connection, channels, parental control and more. You can also view system information about your box.

## On Demand

The best Catch up TV and On Demand services full of TV favourites ready to watch when you are. Your Freesat box will need to be connected to the Internet. (see page 27).

## Search

Quickly find a programme without trawling the TV listings.

## Help & info

Tips on making the most of your Freesat box, and info about services for visually impaired and hard of hearing viewers.

# The TV Guide



See what's on the minute you sit down with our at a glance 'Now & Next' view.

Press **TV GUIDE**

Use to explore:

- what's on 'Now & Next'

- what's coming up in the next 7 days

- what's been on already but is available for catch up



# Your main controls

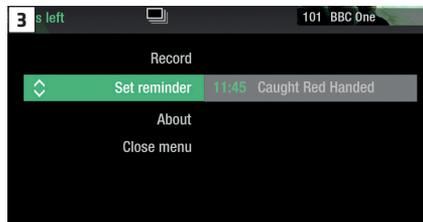
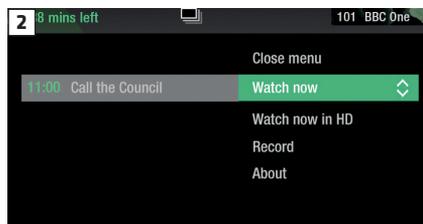
These buttons can get you everywhere.

Press **OK** on a programme in the TV Guide and all the available options for that specific programme will be listed.

So if a programme is on live TV now, highlight it in the TV Guide, press **OK** and the Action Menu will look like screen 2.

If the programme is on later, you'll be able to **Set reminder**, or **Record** it (Screen 3).

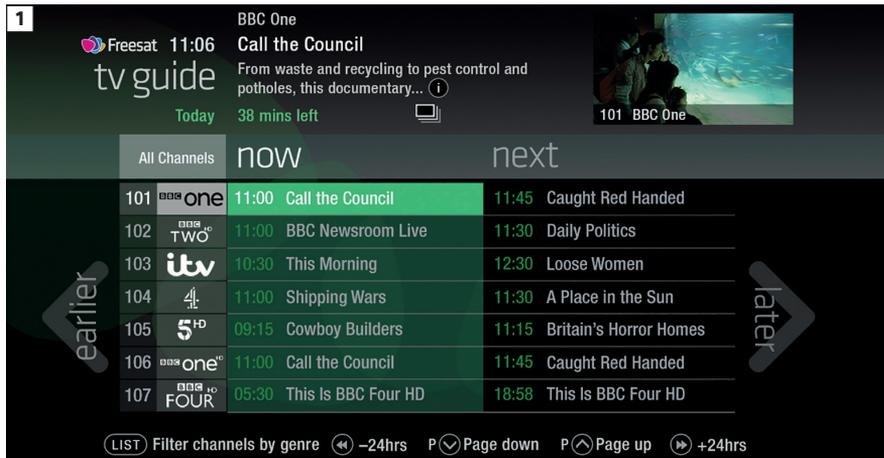
Press **Up** **Down** to scroll through the options and **OK** to select.



## TOP TIP

Pressing **OK** on a programme brings up all the available options.

# Seeing what's on – Now & Next



The TV Guide shows what's on now and next in an 'at a glance' view.

Press **TV GUIDE**

To move through the channels, use **↶** **↷**

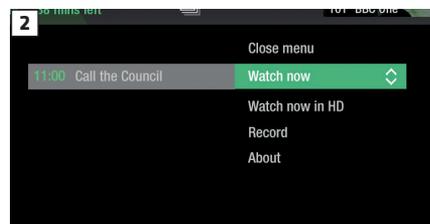
To move through the channels a page at a time, press **P** **↶** and **P** **↷**

To move forward and back 24 hours, press **⏪** and **⏩**

As you browse through the guide, you can find out more about a programme and see a full description by pressing **i**

Highlight a programme and press **OK** and choose **Watch now** (Screen 2).

At any stage to go back to watching TV full screen, press **EXIT**



## TOP TIP

If you know the channel number, jump straight to it in the TV Guide with the number buttons.

# Watching something on earlier <

You can catch up on the last 7 days of TV with our Roll Back TV Guide.

This is available on selected channels with On Demand services on Freesat. Look out for **earlier** highlighted in the TV Guide where this is available.

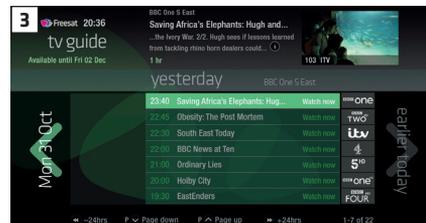
Press **<** to see programmes from earlier on today, ready to watch whenever you are (Screen 2).

You can go back up to 7 days by continuing to press **<** (Screen 3).

Highlight a programme you want to watch and press **OK**.

To go back to the live TV Guide, continue to press **>**.

To go back to watching TV full screen, press **EXIT**.



# Planning what to watch later >

To plan your viewing a bit further ahead, the full TV Guide has listings for the next 7 days.

Use  to browse programmes that are on 'later' (Screen 1).

For the full TV guide press  again (Screen 2).

To move forward and back 24 hours, press  and .

You can plan your viewing for up to a week in advance, setting reminders and recordings.

To clear the Guide press .



## TOP TIP

To fast scroll through the TV Guide, press and hold    

# Browsing whilst watching TV



You don't have to stop watching TV to see what else is on. For a quick snapshot of what's on now and next, press any of the buttons.

To see what's on other channels, press (Screen 2).

Browse programmes on earlier today by pressing and what's on later by pressing (Screen 3).

You can set reminders and recordings here by pressing .

To go back to watching live TV full screen, press .



## TOP TIP

Press to see the programme description.

Set a programme to record with one touch by pressing .

# Find out more about a programme

Programmes come with extra info to help you decide whether to watch them.

To see the programme info, highlight the programme in the TV Guide. A short description will then show in the info area next to the mini TV (Screen 1). Press the **i** button to see a longer description.

To see the full programme description, press **OK** for the Action Menu (Screen 2).

Select **About**

Here you'll find more information on the programme including when it is showing again and other episodes (Screen 3).

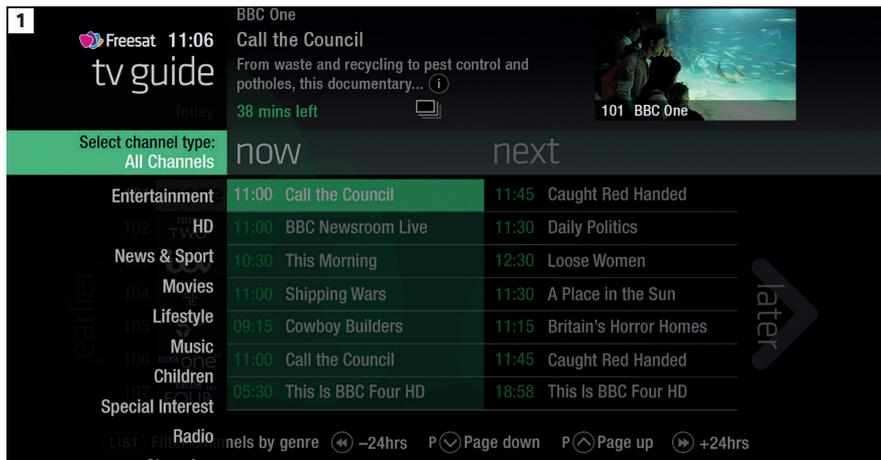


## ON SCREEN ICONS

You may see these in the info area

- HD** High Definition
- SD HD** an HD version also available
- 3D** 3D
- G** may contain material with adult themes
- AD** audio description available
- SUB** subtitles available
- SL** shown with sign language
- (cc)** surround sound available

# Find programmes by channel category

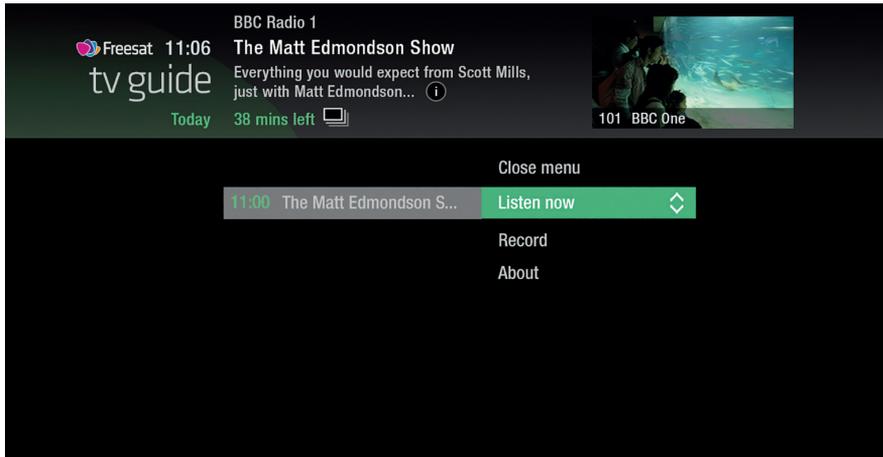


In the mood for a movie, or need your next news fix? Jump straight to that group of channels in the TV Guide by pressing **LIST** on your remote control (Screen 1).

Use **▲** **▼** to choose the type of channel you're looking for, and press **OK** (Screen 2). You'll then only see the channels within that category in the TV Guide.



# Finding and listening to radio channels



Find the radio channels in the TV Guide quickly by pressing **LIST**, then use  and select Radio.

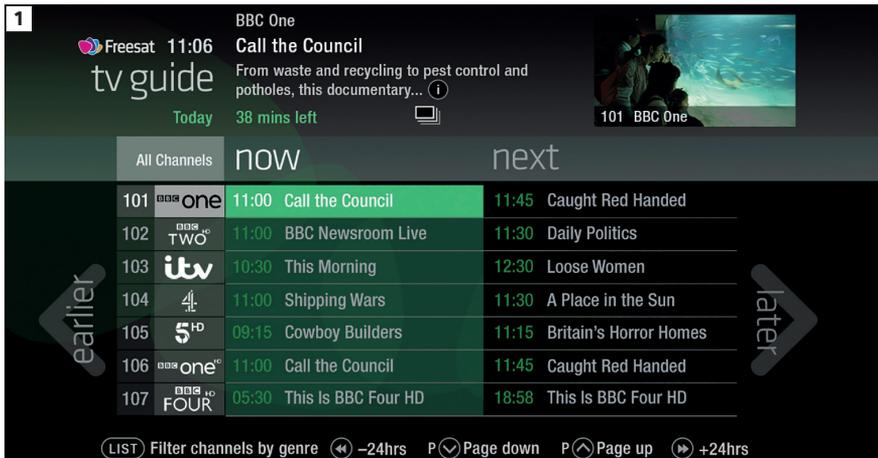
To listen to a radio programme, highlight it in the TV Guide and press **OK**.

You can choose to **Listen now**, **Set reminder** or **Record** just like a TV programme.

## TOP TIP

Radio channels start at Channel 700

# Setting a reminder



Worried you'll miss a programme? Well worry no more. You can set a reminder from the TV Guide or while watching live TV.

## From the TV Guide (Screen 1).

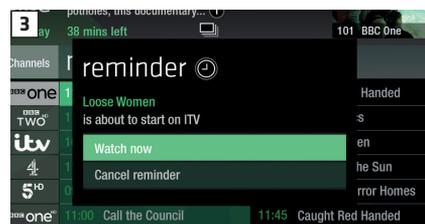
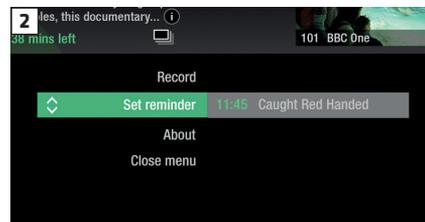
Highlight the programme, you want to set a reminder for, press **OK** and select

**Set reminder**

## While watching live TV (Screen 2).

Highlight a programme, press **OK** and select **Set reminder**

The reminder prompt will appear on screen 30 seconds before the programme starts, and will then auto tune to the channel (Screen 3).



## TOP TIP

To cancel a reminder, press **BACK** when the prompt is on screen.

# Recordings



## Ways to record

### 1) one touch record from live TV

To record the programme you're watching now, press **Ⓡ**

### 2) from the Now & Next banner

Highlight the programme you want to record, press **Ⓡ**

### 3) from the TV Guide

Highlight the programme you want to record, press **Ⓡ**

### 4) from Showcase

Record any of the upcoming programmes in Showcase by pressing **OK** and selecting **Record**

### 5) from Search

Record straight from the Search results, by pressing **OK** and selecting **Record**

## Multi tasking

Your Freesat box can record one channel while you watch another. Or you can record two different channels, and play back a recording you made earlier.

The box will need to be connected to the satellite dish with two cables. If you only use one cable, this feature won't be available.

Pressing standby while recording won't stop the recording. Your Freesat box will go into standby when the recording has finished.

## Record from when you started watching

Your Freesat box automatically saves up to 30 mins of the channel you're watching, even if you're not recording.

So if you decide that you want to record a programme part way through, press **Ⓡ** and it will record from the point you tuned to that channel.

# Handy auto prompts



## Recording a series

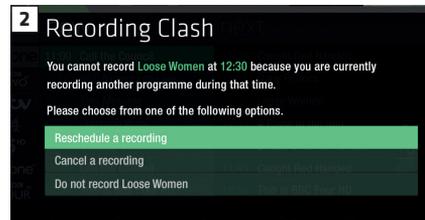
If the programme is part of a series, you'll be asked whether to set the whole series to record (Screen 1).

## HD alternative

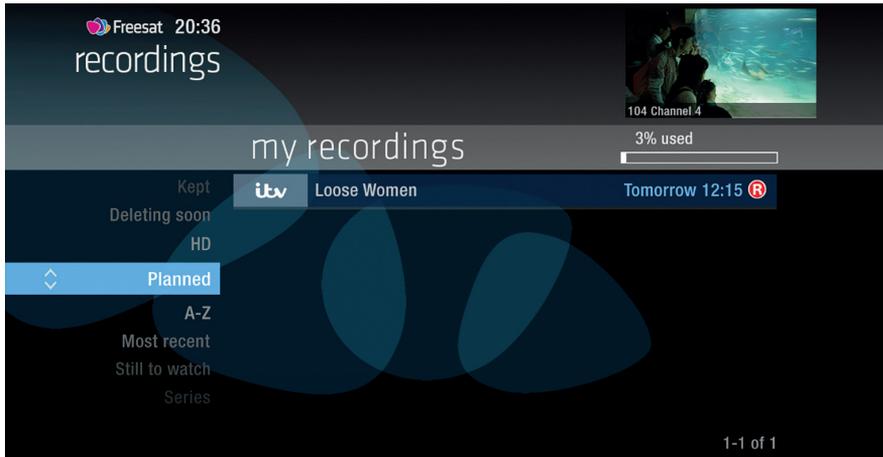
If the programme is also on in HD, you'll be asked whether to record the High Definition version.

## Solving a recording conflict

Your Freesat box can help you solve the recording conflict by trying to find an alternative airing in the TV listings (Screen 2).



# See what you've set to record



Press **RECORDINGS** on your remote control and navigate to the 'planned' section.

All the programmes you've set to record are listed chronologically by the recording date.

When a programme is being recorded or is set to record the recording icon **R** will appear next to it in the TV guide.

**R** shows the programme is part of a part of a series recording. All episodes will be recorded and stored together.

## RECORDING ICONS

-  to be deleted soon
-  kept (won't be deleted)
-  unwatched
-  part watched
-  series recording set
-  recording set
-  recording failed
-  watch from the start

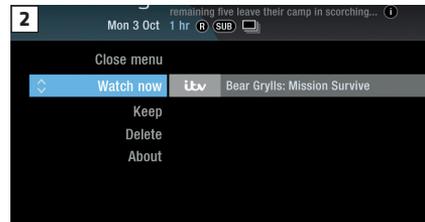
# Find and watch a recording



Press **RECORDINGS** (Screen 1).

All the programmes you've recorded are stored here. You can choose how they're listed, such as by date **Most recent** alphabetically **A-Z** or not watched yet **Still to watch**

Highlight the programme you want to watch, press **OK** and select **Watch now** (Screen 2).



# Recording playback controls



## PLAY

To start watching a recording, highlight the recording, press **OK** and select

**Watch now**

## PAUSE

Press **⏸** to freeze the screen while you're playing, fast forwarding or rewinding a programme.

## FAST FORWARD AND REWIND

Press **⏮** or **⏭** to shift to a different place in the recording (Screen 1).

You can choose different speeds, up to 32x by pressing **⏮** or **⏭** repeatedly.

## STOP

To return to your Recordings, press **⏹**

# Pick up a recording from where you left off



.....  
If you want to go back to a recording you stopped halfway through, highlight the recording and press **OK**  
.....

You'll have the option to:  
**Watch from start** or **Resume**. Resume will play from the point you left off.  
.....

## **Checking your remaining viewing time**

.....

See how long you have left to watch by pressing any of the arrow buttons.  
.....

# Managing your recording space

You can see how much space there is left for new recordings using the bar at the top of the Recordings screen. It's worth remembering that high definition (HD) programmes use more recording space than standard definition (SD) programmes.

## Recording space

Your box will automatically delete the oldest watched recording if there's not enough space for a new recording.

Programmes that are next in line to be deleted are shown in the folder 'deleting soon'.

## Deleting a recording

Press **RECORDINGS**

Highlight the recording you want to delete, press **OK** and select **Delete** from the list.

If the recording is part of a series you also have the option to delete all recorded episodes.

## Keeping your recordings

Press **RECORDINGS**

Highlight the recording you want to protect from being deleted, press **OK** and select **Keep** from the list. The **Keep** icon **K** will be added to the recording (Screen 2).

All 'Kept' recordings are shown in their own folder.



# Pause and rewind live TV



Pause the action and pick up where you left off, and rewind the best bits again and again.

## Pause live TV

To pause the programme you're watching, press **⏸**

You can pause live TV for up to two hours.

When you're ready to watch again, press **▶**

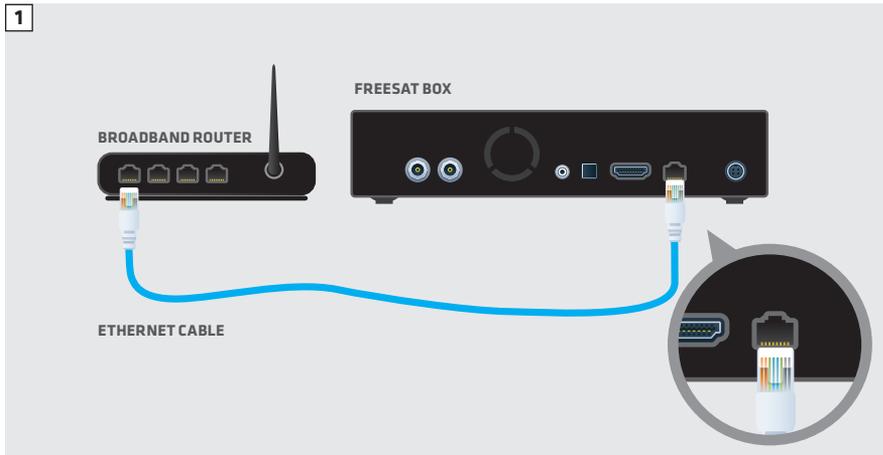
After two hours on pause your box will automatically start to play from the point that you paused the TV.

## Rewind live TV

To rewind the programme you're watching, press **⏮**

To return to live TV from pause playback and rewind playback press **EXIT**

# Connect to the internet



Connect to the Internet and open up a whole new part of the TV Guide.

You'll be able to Roll Back through the TV Guide on some channels to catch up on programmes you've missed over the last 7 days. You'll also be able to enjoy the On Demand services on Freesat.

Minimum 2Mbps broadband speed required.

The best way to connect is with an Ethernet cable. Slot one end into the Ethernet port on the back of the box, and the other end into an Ethernet port on your router (Illustration 1). That's it, you're connected.

If your router is too far away to use a cable, you can connect to your home Wi-Fi network. The box will automatically display available Wi-Fi networks and you'll just need to enter your password.

Or, try using a pair of Homeplug Adapters. They're a safe and convenient way to access the Internet around your house using the electrical wiring.

Free  
On Demand  
Players

BBC  
iPlayer



BBC  
SPORT

BBC  
NEWS

Optional Pay  
On Demand  
Player

hopster

# On Demand



Find hundreds of hours of programmes ready to watch whenever you want.

Press **HOME** on your remote control.

Go to On Demand, and press **OK** to see all available On Demand services. (Screen 2).

Use **Left**, **Right**, **Up**, **Down** to browse through the On Demand services and **OK** to select.

Whilst watching an On Demand programme, you can use the playback buttons **Play/Pause** and **Stop**, just like a recording.

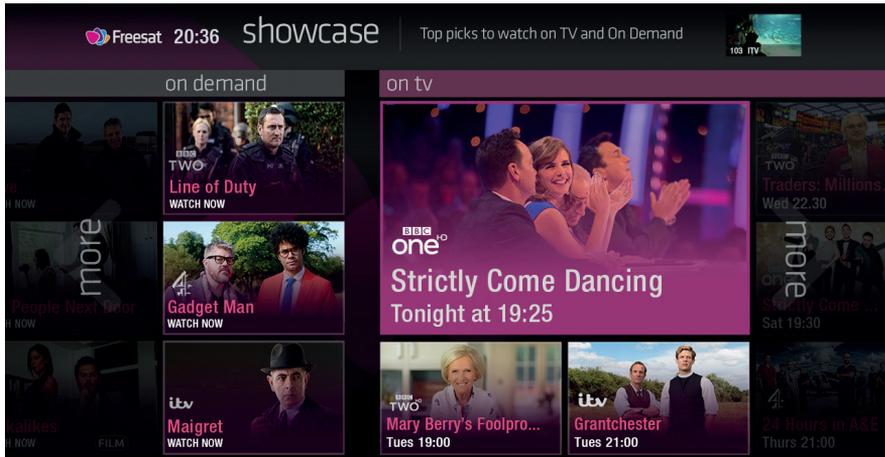
On Demand programmes are not available to record.

## NEED TO KNOW

Your Freesat box needs to be connected to the Internet.



# Showcase



The Freesat team's picks of what to watch this week and what's available On Demand.

To visit Showcase, press **HOME** on your remote control then select **Showcase**

Use **Left**, **Right**, **Up**, **Down** to explore the Showcase picks. You can also filter the picks using the genre categories.

Select a show and press **OK**. You'll then have the option to watch a programme from On Demand, or to set a recording from the On TV section.

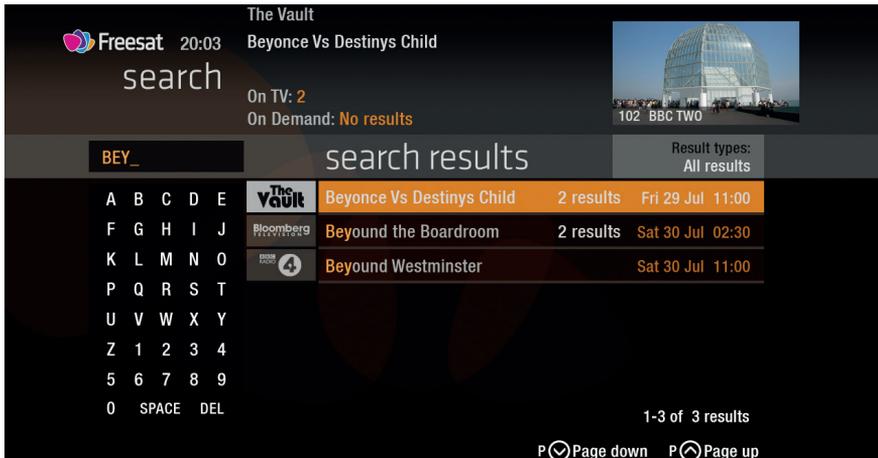
## TOP TIP

Showcase is divided into two sections.

On the left are programme picks you may have missed and are available to watch On Demand.

On the right are upcoming shows that you may want to watch, or set a recording for.

# Search



With so much great TV to choose from, we've made it easy to find what you're looking for.

Press **HOME**, and then select **Search**

Use the arrows on your remote control  to highlight a letter and **OK** to select. Results will appear once you've entered three letters.

You can filter the search results by TV or Radio, or by any channel category.

Once you've found the programme you're looking for, highlight it and press **OK**.

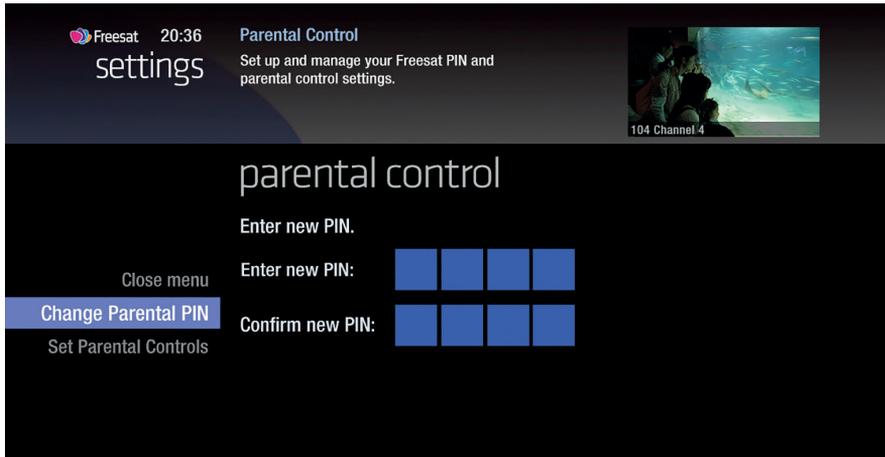
You'll be given all the options available for that specific programme, including

**Watch now** or **Record**

## TOP TIP

- You can leave out common words from the search, like 'the', 'a', 'an', 'with' 'of'.
- There's no need to include hyphens or apostrophes.
- To clear the search bar and start again, press **Back**

# Controlling your children's viewing



Some programmes after the 9pm watershed may not be suitable for children. By setting a four digit PIN you can lock recordings of these programmes to stop them being played back without your permission.

#### TOP TIP

Once you've set your PIN, you can also block adult channels from appearing in the TV Guide.

#### Setting your four digit PIN

When you first set up your box, you'll be asked to create your four digit PIN.

You can change your PIN code at any time by selecting **HOME**, followed by **Settings** and then **Parental Controls**.

You can restrict viewing of On Demand programmes in the same way.

This can either be done by following the prompts during the first time installation process, or by visiting **Home**, **Settings** then going to **General Settings**.

# Hiding Adult channels



You can hide all channels classified as 'Adult' from the TV Guide. Press **HOME**, and then select **Settings** and then **Parental controls**

Here you have the option to hide all Adult channels from the TV Guide.

## Turning off all PIN controlled restrictions

You can turn off all PIN restrictions by selecting **HOME**, followed by **Settings** and then **Parental Controls**

# Accessibility

These services make programmes available to visually impaired and hard of hearing customers.

Digital subtitles, audio description and signed programmes are provided by the broadcasters, but whenever they are available Freesat customers can use them.

## Digital subtitles

Subtitles are a text version of the dialogue in a programme. Look out for **SUB** in the TV Guide which indicates they are available for that programme.

To turn subtitles on while watching live TV, press **SUB**. To turn them off, press **SUB** again.

## Audio description

Audio description is an additional audio service which describes what is happening on screen, including language, movements, actions and expressions. Look out for **AD** icon in the TV Guide which indicates they are available for that programme.

To turn audio description on while watching live TV, press **AD**. To turn it off, press **AD** again.

## Signed programmes

Some broadcasters provide a signed version of popular programmes for hard of hearing viewers. Look out for **SL** in the TV Guide which indicates it is a signed programme.

# Specifications

## General

Power supply for set-top box: 12V DC 4Amp

Preferred DC Adapter 220 - 240 V AC, 50-60Hz

Input Frequency: 950 MHz - 2150 MHz

Frequency Band: Ku band reception: 10.7 - 12.7 GHz

Maximum Power consumption: 40 W

Standby Power Consumption: <0,5 W

Operating temperature: 5°C to +40°C

Storage temperature: -15°C to +55°C

Humidity: 25 to 75 % rel

Physical dimensions: 275 x 213.6 x 47.5 mm

Weight: 1152g

## Hardware configuration

Main Processor: BCM7356

Flash Memory: 512 MB

DDRRAM: 1GB (2x256Mx16)

## Digital capabilities

Transmission Standards: MPEG2, MPEG4 HD DVB S/52

Frequency Band: Ku band reception: 10.7 - 12.7 GHz

## Demodulation

Modulations: QPSK/8PSK

QPSK rates: 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

8PSK rates: 3/5, 2/3, 3/4, 5/6, 8/9, 9/10

## Video

ALL MPEG-4 (part 10) MP@ML Video Decoder

Aspect Ratio: 4:3, 16:9 with pan vector

## Profiles

- H.264/AVC Main and High profile to Level 4.2, 1080p 60 fps
- MVC Level 4.1, two view (L + R)
- VC-1 Advanced Profile @ Level 3
- VC-1 Simple and Main profile
- MPEG-2 Main Profile @ Low Level, Main Level, and High Level
- MPEG-4 Part 2 Simple Profile and Advanced Simple Profile
- DivX 3.11, 4.1, 5.X, and 6.X
- AVS1-P2 Jizhun Profile @ Level 6.0
- MPEG-1
- H.263 Profile 0, Level 70

## Audio

- AAC LC, AAC LC+SBR Level 2, AAC+ Level 2, AAC+ Level 4
- Dolby Digital®, Dolby Digital Plus™ - MPEG I Layer 1, 2
- MPEG I Layer 3 (MP3)
- Windows Media Audio (WMA) - WMA pro - AAC HE 5.1 decode plus DTS 5.1 encode SPDIF output
- AAC HE 5.1 decode plus AC3 5.1 encode SPDIF output
- MP3 encoding

Sampling frequencies supported: 16 kHz, 32 kHz, 44.1 kHz, and 48 kHz

Output can be programmed as STEREO, LEFT only or RIGHT only (on both outputs). This is useful for dual mono channels in order to select the correct sound track, which is stored for every channel.

## Remote control

Operating Distance: 7 m Max

Batteries: 2x1.5V Micro (R-03/AAA)

## Tuners

2 X LNB IN: F connector, Female (75 ohm)

## LNB power supply

- Vertical : 13/14 Volt

- Horizontal : 18/19 Volt
- Max. Output Current : 300mA (Short-circuit protected)
- 22 kHz Tone: Frequency 22KHz ± 2 KHz: Amplitude 0.6 Vpp ± 0.2 Vpp

## USB Power supply

- 1 x USB port
- 5V @ 500mA max

## Hard disk

Hard Disk capacity: 500GB

## Front panel

Display: 8-digit VFD display

Control Keys: On/ Off, Left, Right, Up, Down

## Audio

Output 2 Vrms, 0 dBfs / Z = 10 kohm

## Digital audio

Output Optical SPDIF

## A / V & data in / out

Analogue Audio Output: Headphone (left and right + CVBS)

Digital Audio Output: Optical output

## Wireless LAN Transmitter Specifications

Frequency Ranges & Max Output Power

- 2400 - 2483,5 MHz (CH1-CH13) < 100 mW
- 5150 - 5250 MHz (CH36 - CH48) < 200 mW
- 5250 - 5350 MHz (CH52 - CH64) < 200 mW
- 5470 - 5725 MHz (CH100 - CH140) < 200 mW

## Country Restrictions

This device is intended for home and office use in all EU countries (and other countries following the relevant EU directive) without any limitation except for the countries

# Hard disk information

mentioned below.

Bulgaria: General authorisation required for outdoor use and public service

France: In-door use only for 2454-2483.5 MHz

Italy: If used outside of own premises, general authorization is required

Greece: In-door use only for 5470 MHz to 5725 MHz band

Luxembourg: General authorization required for network and service supply (not for spectrum)

Norway: Radio transmission is prohibited for the geographical area within a radius of 20 km from the centre of Ny-Ålesund

Russian Federation: In-door use only

The requirements for any country may change at any time. It's recommended that the user checks with local authorities for the current status of their national regulations for both 2.4 GHz and 5 GHz wireless LAN's.

## Important - Hard Disk Information

This box has a built in hard disk (HDD) for recording and playback. Please be aware of the following points when setting up and using the Recorder. Failure to observe these precautions may cause damage to the HDD itself or its content, failure of the disk to operate, or record sound.

- Do not subject the Recorder to any vibration or impact.
- Do not place the Recorder in a cramped location which might block the ventilation port on the back of the Recorder.
- Do not place the Recorder in a location with severe temperature variation.
- If the Recorder is set up in a location with severe temperature variation, condensation may form on and inside the Recorder.

If the Recorder is used when condensation is present it may cause damage to the HDD resulting in malfunction. We recommend keeping variation in room temperature within 10°C per hour.

- Do not place the Recorder in a location with high humidity.
- Place the Recorder horizontally, never at an incline.
- Do not place a magnetic device (magnet etc.) close to the recorder.
- When the power is on, do not unplug the AC adapter from the AC outlet.
- When moving the Recorder, first turn off the power and then unplug the power cord from the AC outlet.

## Recording Format

HDD recording is done using the variable bit rate format (VBR) for more efficient recording. The following may occur:

- With the variable bit rate format, the remaining amount of recordable space may increase or decrease relative to the display of the remaining amount of HDD space.
- With auto delete turned on, your box will replace the oldest recordings first when it runs out of recording space, so that you can record new programmes.
- Kept recordings will never be deleted by the auto delete process.
- Even if you delete a programme, the remaining amount may not increase by the amount of deleted time.

## Unrecordable Material

In the unlikely event that there is some problem like loss of

recorded video or audio content due to an HDD malfunction, please be aware beforehand that Bush will bear no responsibility to compensate for the content which could not be recorded or edited, for the loss of recorded or edited video, or for other related direct or indirect damages.

## If a power failure occurs

- The content being recorded or set to record may not complete if power failure occurs.
- The content being played back may be damaged.

## For important recording

### NOTE

- If a message indicating an HDD error is displayed (such as "ERROR IN HDD. CANNOT OPERATE.") and the HDD has malfunctioned, you cannot replace the HDD by yourself. If you disassemble the Recorder, the warranty will become void. Also, recovery of data is impossible.

## Hard Disk Operation (Recording / Playback / Time Shift Recording)

If the Recorder is used in a cold location, the drive will only allow live viewing after power is turned on until the HDD is ready. During this time, the Recorder will not allow Time Shift Viewing, recording, display of recording lists or playback of recorded programmes. Please wait until the HDD is ready.

- TR:** İşbu belgede; VESTEL Elektronik Sanayi ve Ticaret A.Ş., telsiz ekipmanı tipi SET TOP BOX in 2014/53/AB sayılı direktife uygun olduğunu beyan eder. AB uygunluk beyanının tam metni internet adresinde mevcuttur: doc.vosshub.com
- EN:** Hereby, VESTEL Elektronik Sanayi ve Ticaret A.Ş., declares that the radio equipment type SET TOP BOX is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: doc.vosshub.com
- BG:** С настоящото VESTEL Elektronik Sanayi ve Ticaret A.Ş., декларира, че този тип радиосъоръжение SET TOP BOX е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: doc.vosshub.com
- CS:** Tímto VESTEL Elektronik Sanayi ve Ticaret A.Ş., prohlašuje, že typ rádiového zařízení SET TOP BOX je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: doc.vosshub.com
- DA:** Hermed erklærer VESTEL Elektronik Sanayi ve Ticaret A.Ş., at radioudstyrstypen SET TOP BOX er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: doc.vosshub.com
- DE:** Hiermit erklährt VESTEL Elektronik Sanayi ve Ticaret A.Ş., dass der Funkanlagentyp SET TOP BOX der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: doc.vosshub.com
- EL:** Με την παρούσα ο/η VESTEL Elektronik Sanayi ve Ticaret A.Ş., δηλώνει ότι ο ραδιοεξοπλισμός SET TOP BOX πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: doc.vosshub.com
- ES:** Por la presente, VESTEL Elektronik Sanayi ve Ticaret A.Ş., declara que el tipo de equipo radioeléctrico SET TOP BOX es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: doc.vosshub.com
- ET:** Käesolevaga deklareerib VESTEL Elektronik Sanayi ve Ticaret A.Ş., et käesolev raadioseadme tüüp SET TOP BOX vastab direktiivi 2014/53/EL nõuetele. Eli vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: doc.vosshub.com
- FI:** VESTEL Elektronik Sanayi ve Ticaret A.Ş., vakuuttaa, että radiolaitetyypin SET TOP BOX on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: doc.vosshub.com
- FR:** Le soussigné, VESTEL Elektronik Sanayi ve Ticaret A.Ş., déclare que l'équipement radioélectrique du type SET TOP BOX est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: doc.vosshub.com
- HR:** VESTEL Elektronik Sanayi ve Ticaret A.Ş., ovime izjavlju da je radijska oprema tipa SET TOP BOX u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: doc.vosshub.com
- HU:** VESTEL Elektronik Sanayi ve Ticaret A.Ş., igazolja, hogy a SET TOP BOX típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: doc.vosshub.com
- IT:** Il fabbricante, VESTEL Elektronik Sanayi ve Ticaret A.Ş., dichiara che il tipo di apparecchiatura radio SET TOP BOX è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: doc.vosshub.com
- LT:** Aš, VESTEL Elektronik Sanayi ve Ticaret A.Ş., patvirtinu, kad radijo įrenginių tipas SET TOP BOX atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: doc.vosshub.com
- LV:** Ar šo VESTEL Elektronik Sanayi ve Ticaret A.Ş., deklarē, ka radioiekārtā SET TOP BOX atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: doc.vosshub.com
- MT:** B'dan, VESTEL Elektronik Sanayi ve Ticaret A.Ş., niddikjara li dan it-tip ta' taghmir tar-radju SET TOP BOX huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformita ta-UE huwa disponibbli f'dan l-indirizz ta-Internet li ġej: doc.vosshub.com
- NL:** Hierbij verklaar ik, VESTEL Elektronik Sanayi ve Ticaret A.Ş., dat het type radioapparaat SET TOP BOX conform is met Richtlijn 2014/53/UE. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: doc.vosshub.com
- PL:** VESTEL Elektronik Sanayi ve Ticaret A.Ş., niniejszym oświadczam, że typ urządzenia radiowego SET TOP BOX jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: doc.vosshub.com
- PT:** O(a) abaixo assinado(a) VESTEL Elektronik Sanayi ve Ticaret A.Ş., declara que o presente tipo de equipamento de rádio SET TOP BOX está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: doc.vosshub.com
- RO:** Prin prezenta, VESTEL Elektronik Sanayi ve Ticaret A.Ş., declară că tipul de echipamente radio SET TOP BOX este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: doc.vosshub.com
- SK:** VESTEL Elektronik Sanayi ve Ticaret A.Ş., týmto vyhlasuje, že rádiové zariadenie typu SET TOP BOX je v súlade so smernicou 2014/53/EU. Úplné UYhlásenie o zhode je k dispozícii na tejto internetovej adrese: doc.vosshub.com
- SL:** VESTEL Elektronik Sanayi ve Ticaret A.Ş., potrjuje, da je tip radijske opreme SET TOP BOX skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: doc.vosshub.com
- SV:** Härmed försäkrar VESTEL Elektronik Sanayi ve Ticaret A.Ş., att denna typ av radioustrustning SET TOP BOX överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: doc.vosshub.com

# Guarantee



## Product Guarantee

This product is guaranteed against manufacturing defects for a period of



This product is guaranteed for twelve months from the date of original purchase. Any defect that arises due to faulty materials or workmanship will either be replaced, refunded or repaired free of charge where possible during this period by the dealer from whom you purchased the unit.

The guarantee is subject to the following provisions:

- The guarantee does not cover accidental damage, misuse, cabinet parts, knobs or consumable items.
- The product must be correctly installed and operated in accordance with the instructions contained in this manual.
- It must be used solely for domestic purpose.
- The guarantee will be rendered invalidated if the product is re-sold or has been damaged by inexpert repair.
- Specifications are subject to change without notice.
- The manufacturer disclaims any liability for the incidental or consequential damages.
- The guarantee is in addition to, and does not diminish your statutory or legal rights.
- In the event of a problem with the product with in the guarantee period call the Customer Helpline: 0345 604 0105.

Guarantor: Argos Ltd  
489 - 499 Avebury Boulevard  
Central Milton Keynes  
MK9 2NW

# KEEP IN TOUCH



## Online

Keep up to date [www.freesat.co.uk](http://www.freesat.co.uk)  
Follow us [www.twitter.com/Freesat\\_TV](https://www.twitter.com/Freesat_TV)  
Find us [www.facebook.com/Freesat](https://www.facebook.com/Freesat)



## Email updates

Sign up to be the first to find out what's on, and hear about new channel and On Demand player launches, competitions and the latest offers.

Register at [www.freesat.co.uk/keepintouch](http://www.freesat.co.uk/keepintouch)

We promise to only send you interesting and entertaining news and TV reviews, and we'll never pass on your personal details to anyone you don't want us to.



## Support

For help with installation or using your new Freesat box, call us on **0345 313 0051** (local call rate) or visit [www.freesat.co.uk/help](http://www.freesat.co.uk/help)

Argos helpline **0345 604 0105** Visit [www.argos-support.co.uk](http://www.argos-support.co.uk)

## The Freesat App

Plan on the go so you never miss your favourite shows again. Find out more at [www.freesat.co.uk/app](http://www.freesat.co.uk/app)



If you have any questions about set up, installation or Freesat the team are here to help  
**0345 313 0051** [customerteam@freesat.co.uk](mailto:customerteam@freesat.co.uk)



For any technical queries the Bush team are here to help **0345 604 0105**



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