BUSH

Instruction manual

DVB-T2 PVR READY MPEG4



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1 Safety information

Safety information

Important - Please read these instructions fully before installing or operating

Safety Precautions

Power Source

- Always use the provided AC adaptor.
- Operate only from the power source specified on the AC adaptor.
- The power adaptor may become hot during normal operation. This is not a malfunction.
- Please make sure that the adaptor is not covered while in operation. Leave a space of 15 cm (minimum) around the AC adaptor.
- The rating information and safety caution of the AC adaptor are provided on the adaptor.

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

Power Cord

Do not place the unit, a piece of furniture, etc., on the power cord (mains lead), 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. When you find it damaged, ask closest service agent for help. When the AC power cord needs to be changed, it should be done at a qualified service shop only.

- Please do not place the set in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.
- The set 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 such as a room with high humidity should not be selected as the condensation, arising in the kitchen for example, may cause malfunction or damage the set.
- Heating or other thermal radiation under the set also may cause malfunction or damage the set.
- The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the set into closed areas and do not cover it.
- Please avoid the contact of the set with water or humidity. Do not put into operation near bath, swimming pools.
- Take care to provide a good air circulation. Place the apparatus in a location with adequate ventilation to prevent heat build-up in the apparatus.
- If any solid object or liquid falls into the cabinet, unplug the apparatus and have it checked by a qualified personnel before operating it any further.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids such as vases shall be placed on the apparatus.

The mains plug is used as the disconnect device. The disconnect device shall remain readily operable.

CAUTION

Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.

WARNING

Do not ingest the battery, Chemical Burn Hazard

(The accessories supplied with or) This product may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children.

If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Safety information

Important - Please read these instructions fully before installing or operating

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.

CE

or online at www.argos-support.co.uk If you still require further assistance, call one of our experts on 0345 604 0105.

2 Getting to know your set-top box

Getting to know your set-top box

You'll be up and running in no time

Ready? Let's begin...

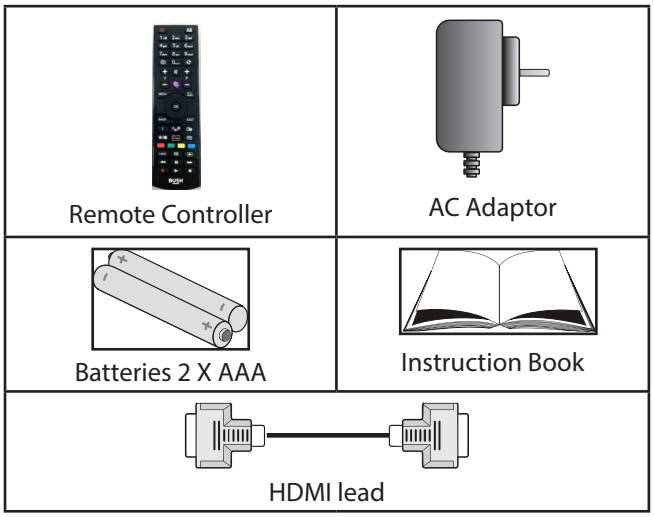
Please read these instructions carefully. They contain important information which will help you get the best from your set-top box and ensure safe and correct installation and operation.

If you require any further assistance, our technical experts are happy to help. For full details, refer to the product support section at the end of these instructions.

Features

- DVB Teletext
- Channel capacity: 400
- DVB 7 days event information (7 days EPG)
- CVBS support and L/R headphone jack
- Last watched channel saving
- Automatic search for all channels
- Timer function programmable via EPG
- Favourite list
- HDMI output: 576p, 720p, 1080i, 1080p.
- USB input
- DVB-T-T2 Compliant
- LCN (logical channel number) support.
- Input frequency range: UHFIV and UHFV; 470-862 MHz, 8MHz bandwith
- Supports 16-, 64-, 256-QAM modulations
- Manual and automatic search options
- Video: MPEG2, PAL, 4:3/16:9
- MPEG-4 H.264/AVC MP@L 3 (SD) Video Decoder
- Decoding & Video Out: PAL
- Audio: MPEG-1 layer I / II, MPEG-2 layer II, MPEG-2 AAC, MPEG-4 AAC
- Multi-format audio decoder
- Multi language audio support
- Audio mute and volume control
- Low power consumption (less than 0.5W)

Accessories

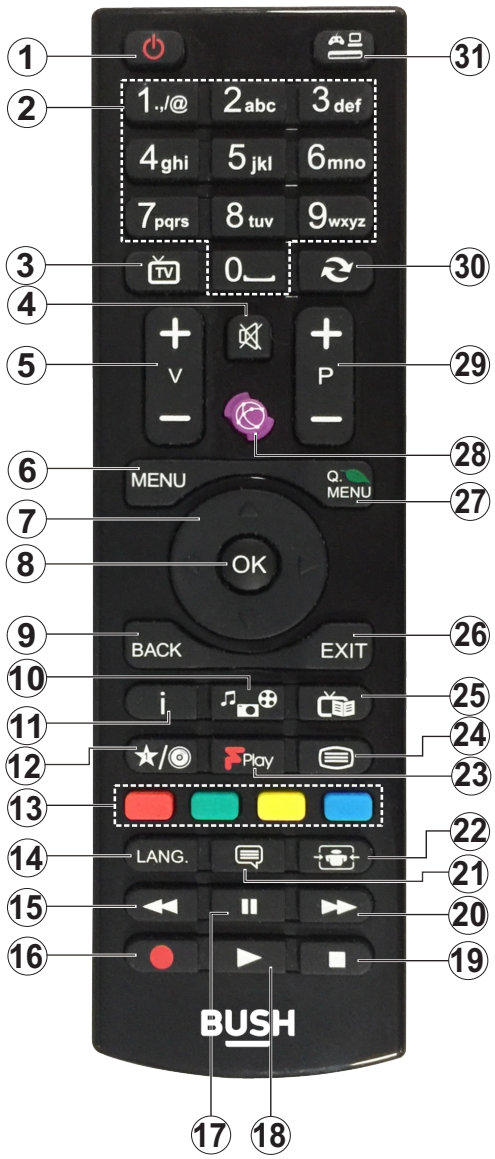


If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Getting to know your set-top box

You'll be up and running in no time

Overview of the Remote Control



1. Standby: Switches On / Off the box
2. Numeric buttons: Switches the channel, enters a number or a letter in the text box on the screen
3. TV: Displays channel list
4. Mute: Completely turns off the volume of the box
5. Volume +/-
6. Menu: Displays set-top box menu
7. Directional buttons: Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left
8. OK: Confirms user selections, holds the page (in TXT mode), views channel list (DTV mode)
9. Back/Return: Returns to previous screen, opens index page (in TXT mode)
10. Media browser: Opens the media browsing screen
11. Info: Pressing once opens the info banner. Pressing twice extends the info menu screen. Shows hidden information in TXT mode (reveal)
12. My button 1: Displays a list of favourite channels
13. Coloured Buttons: Follow the on-screen instructions for coloured button functions
14. Language: Displays the audio and subtitle language setup menu
15. Rapid reverse: Moves frames backwards in media such as movies
16. Record: Records programmes
17. Pause: Pauses the media being played, starts timeshift recording
18. Play: Starts to play selected media
19. Stop: Stops the media being played
20. Rapid advance: Moves frames forward in media such as movies
21. Subtitles: Turns subtitles on and off (where available)
22. No Function
23. Freeview Play: Connects to the Freeview Play platform where you can access available catch-up TV services
24. Text: Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
25. EPG (Electronic programme guide): Displays the electronic programme guide
26. Exit: Closes and exits from displayed menus or returns to previous screen
27. Quick Menu: Library of Recordings
28. Internet: Opens the portal page, where you can reach many web based applications
29. Programme +/-
30. Swap: Quickly cycles between previous and current channels
31. No Function

Getting to know your set-top box

You'll be up and running in no time

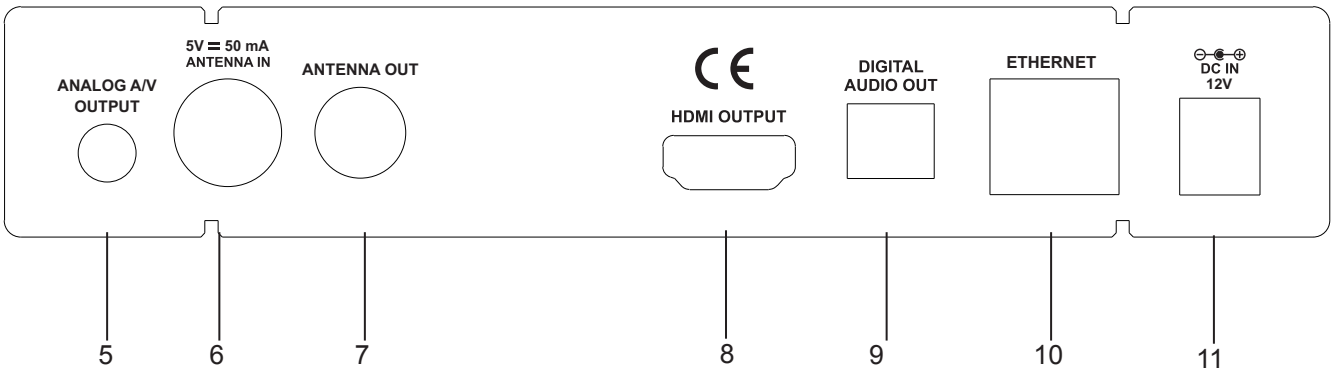
Connections

FRONT VIEW



1. On / Off
2. Channel Down
3. Channel UP
4. USB INPUT: To connect USB storage devices for media playback

BACK VIEW



5. ANALOG A/V OUTPUT: Analog Audio/Video Output
6. ANTENNA IN : Aerial input
7. ANTENNA OUT: To watch channels on the TV.
8. HDMI OUTPUT : HDMI output connection
9. Optical Audio Out: You can use this connector to output the digital audio to an external sound device. Refer to your sound system instruction book for further information.
10. LAN: Ethernet Input.
11. POWER INPUT : DC IN (12V) power connection.

Make sure that you connect all cables and connections before you plug the units adaptor into the mains supply. After you connect the unit to the mains supply, the LED light located on the front panel will be red (Standby mode).

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

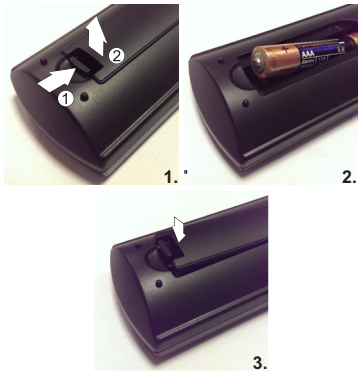
Connections 3

Connections

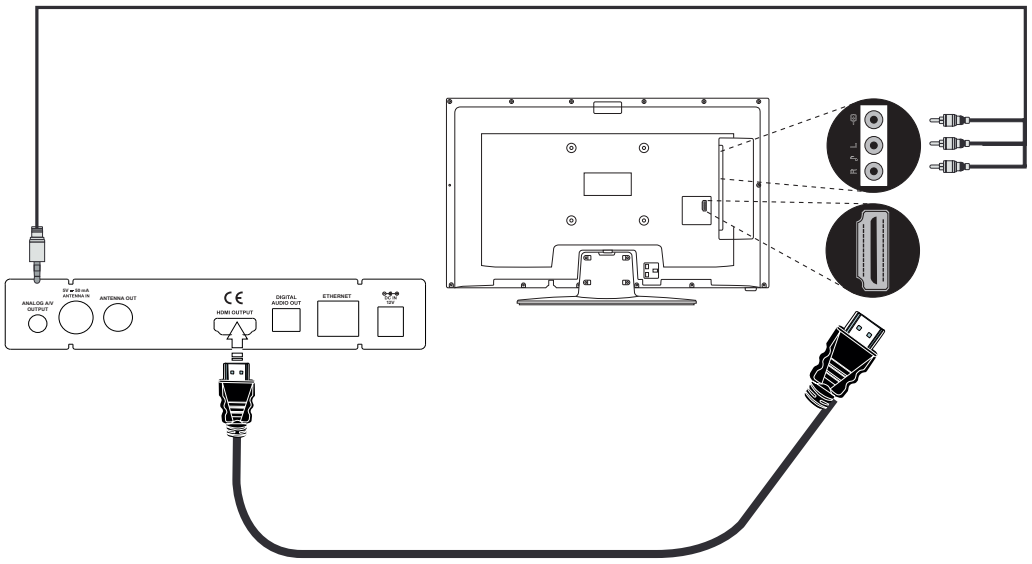
Bringing it all together

Remote Control

First open the battery cover on the underside of the remote control. Put in both batteries 1.5Volt (RO3/AAA) referring to the imprinted symbols (+/-) in the battery case and put on the battery cover again. While using the remote control, direct it towards the front side of the receiver. If the remote control does not work or the chosen function does not work, the batteries are most probably exhausted and they should be replaced as soon as possible. Please use only the leak proof batteries. It is best to remove the batteries from the remote unit if you will not be using the remote control unit for long time.



Connection to the TV



HDMI Connection (recommended): For HD video and audio output you can use the HDMI socket if your TV has an HDMI input. There is an HDMI socket that supports 4 different resolutions on the rear side of the set-top box. For best video performance please check the supported resolutions of your TV.

Analog A/V Connection: If you don't want to use the HDMI connection you can use the analog output of your set-top box to connect it to your TV. You can transfer audio and video after switching the televisions input source to the related source option.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Connections

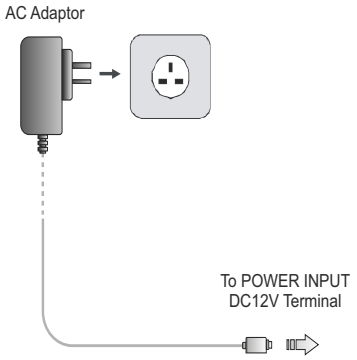
Bringing it all together

Power Connection

IMPORTANT: This set top box is designed to operate on 12V DC. For this, an adaptor is used which gives 12 V voltage. Connect this adaptor to a system that supplies 220-240 V AC, 50/60Hz.

After unpacking, allow the set-top box to reach the ambient room temperature before you connect the set to the mains.

Note: If a car cigarette lighter socket power plug adaptor is going to be used, it should be noted that if the output voltage reduces to lower than 12V, a smartcard error can be caused.



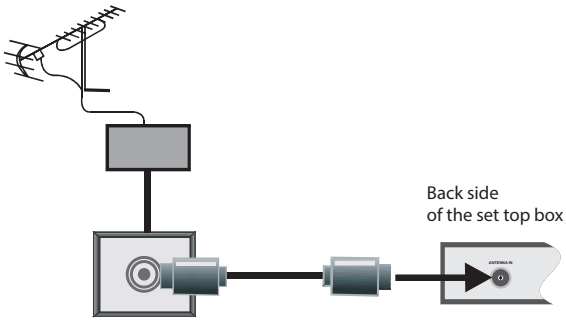
Power On-Off

Be sure that you put through all the cable connections. After plugging in the power adaptor cord of the set-top-box to the mains supply, a LED will be seen on the front panel (Standby mode). When the set-top-box is first powered up please wait for a while before activating the receiver since booting of software will take some time. Then, you can turn on your digital set-top box by pressing the standby button on the remote control. You will see that the LED on the front panel will change (Power on mode).

Auto Power Down:

The Auto Power Down option in Settings>More menu is set to 4 Hours by default. If the box has been left on and not been operated during the set time, it will switch into standby mode after the set time has expired. A message will be displayed two minutes before going into standby mode. You can disable this option by setting as Off or set between 1 to 8 hours.

Antenna Connection



This illustration shows how to connect an antenna. Use ANTENNA IN to connect to an antenna system.

Connections

Bringing it all together

USB Connection

You can connect a USB hard disk drive or USB memory stick to your box by using the USB input. This feature allows you to play files stored in a USB drive or record programmes.

2.5" and 3.5" inch (hdd with external power supply) external hard disk drives are supported.

To record a programme, you should first connect a USB disk to your box while the it is switched off. You should then switch on the box to enable recording feature. Otherwise, recording feature will not be available.

IMPORTANT !

Note that ALL the data stored on the USB disk will be lost and then the disk format will be converted to FAT32/NTFS in such a case.

It is possible that certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this device.

The device may not support all disk formats. If you connect a USB disk with an unsupported format, then you will be asked to format the content. See the section, "Format Disk" in the following pages for more information on disk formatting. Note that ALL the data stored on the USB disk will be lost and then the disk format will be converted to FAT32/ NTFS in such a case.

USB Disk Connection

• Plug your USB device to the USB input of the box.

Notes:

Plug or unplug your USB disk while the box is switched off.

If you are going to connect a USB hard disk drive to the box, USB connection cable used between the disk drive and the box should have a USB logo and should be as short as possible.

While formatting a USB hard disk that has 1TB (Tera Byte) or more file capacity, you can experience problems with the formatting process. In such a case, you should format the disk with your personal computer and the formatted disk type is recommended as FAT32. The box supports NTFS and FAT32 formats.

CAUTION !

Quickly plugging and unplugging USB devices, is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the drive. This may cause physical damage to the USB player and especially the USB device itself.

Do not pull out USB module while playing or recording a file.

First Time Installation

When turned on for the first time, the language selection screen is displayed. Select the desired language and press OK.

On the next screen, set your preferences using the directional buttons.

Note: Depending on the Country selection you may be asked to set and confirm a PIN at this point. The selected PIN cannot be 0000. You have to enter it if you are asked to enter a PIN for any menu operation later.

About Selecting Broadcast Type

Terrestrial Search: If Terrestrial Search broadcast search option is turned on, the box will search for digital terrestrial broadcasts after other initial settings are completed.

Press OK button on the remote control to continue and the Network/Internet Settings menu will be displayed, if you confirm the previously displayed message asking whether you want to do the network settings. Please refer to Connectivity section to configure a wired connection. After the settings are completed press OK button to continue. To skip to the next step without doing anything select No and press the OK button when the message is displayed asking whether you want to do the network settings.

On the next screen you need to agree to the terms and conditions of Freeview Play to make use of the related services. Scroll the page to read the entire text using the up/down directional buttons or Programme +/- buttons. Highlight Yes and press OK on the remote to confirm and proceed. Highlight No and press OK to proceed without confirmation.

After the initial settings are completed set-top box will start to search for available broadcasts.

After all the available stations are stored, scan results will be displayed. Press OK to continue. The Edit Channel List menu will be displayed next. You can edit the channel list according to your preferences or press the Menu button to quit.

While the search continues a message may appear, asking whether you want to sort channels according to the LCN(*). Select Yes and press OK to confirm.

(*) LCN is the Logical Channel Number system that organizes available broadcasts in accordance with a recognizable channel number sequence (if available).

Note: Do not turn off the box while initializing first time installation. Note that, some options may not be available depending on the country selection.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Connections

Bringing it all together

Freeview Play Platform

Freeview Play platform provides catch-up TV and On Demand services. Simply press the Freeview Play button on your remote control to connect to the Freeview Play platform.

The Freeview Play platform can also be accessed from the main menu or internet portal. Press Menu button and select Internet. Then highlight Freeview Play and press the OK button. Or open the internet portal and select the Freeview Play among available applications. Then press the OK button.

You will have to agree to the terms and conditions for Freeview Play services first if you did not agree to them during the First Time Installation. Highlight Yes and press OK on the remote to confirm and proceed.

Integrated Player applications will be displayed. Select one and press the OK button. Then select the content that you want to play back and press the OK button to watch.

Catch-up contents can also be accessed and played back directly from the TV Guide. Refer to the section Electronic Programme Guide (EPG) for more information.

Requirements

The Freeview Play services may only be used if the

following requirements are fulfilled:

• Connecting the aerial cable to the box and carrying out digital channel scan. Make sure that BBC and ITV channels are installed.

• Connecting the box to the internet. A minimum broadband speed of 2Mbps is required for proper operation of catch up and on demand services.

• Agreeing to the terms and conditions of Freeview Play

Note: Freeview Play platform usage will count towards any monthly broadband data allowance. Only selected channels provide 7-day catch up.

4 Standard features

Standard features

Simple everyday use

Menu System

Press the MENU button to access the main menu.

You can move between menus by using the directional (◀ / ▶ / ▼ / ▲) buttons on the remote control.

You can enter, select or confirm a menu option by using OK button.

In some sub-menus, you can use EXIT or BACK button to return to a previous menu screen.

To exit from a menu screen, you can press MENU button.

The following items can be accessed through the main menu screen:

1.) Settings

2.) Installation

3.) Channel List

4.) Media Browser

5) Internet

Settings

Language: You may set a different language depending on the broadcaster and the country.

Parental: Enter correct password to change parental settings. You can easily adjust Menu Lock and Guidance in this menu. You can also set a new PIN using the Set PIN option.

Note: Some menu options may not be available depending on the country selection in the First Time Installation. Default PIN can be set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the First Time Installation use the PIN that you have defined.

Timers: Sets sleep timer to turn off the box after a certain time. Sets timers for selected programmes.

Date/Time: Sets date and time.

Network/Internet Settings: Displays network/internet settings.

Accessibility: Displays accessibility options of the set-top box.

Hard of Hearing: Enables any special feature sent from the broadcaster.

Audio Description: A narration track will be played for the blind or visually impaired audience. Press OK to see all available Audio Description menu options. This feature is available only if the broadcaster supports it.

Note: Audio description sound feature is not available in recording or time shifting mode.

Output Settings:

TV type: It is 16:9 by default.

Prefer Dolby Digital: Enable Dolby Digital by setting as Yes. To disable set as No.

Digital Audio Output: Select your Digital Audio Output preference. LPCM and Dolby Digital options are available. Fist Prefer Dolby Digital option should be set as Yes.

HDMI Resolution: Select your HDMI Resolution preference for HDMI output. Auto, 1080p, 1080i, 720p and 576p options are available.

Audio Delay: Press OK and then set the delay value for audio by using left and right directional buttons.

More: Displays other setting options of the box.

Software Upgrade: Ensures that your box has the latest firmware. Press OK to see the menu options.

Auto Power Down: Sets the desired time for the box to automatically go into standby mode when not being operated.

Power Up Mode: This setting configures the power up mode preference. Last State and Standby options are available.

OSS: Displays Open Source Software license information.

Installation

Automatic channel scan (Retune): Displays automatic tuning options.

Terrestrial Search: Searches and stores aerial DVB stations.

Manual channel scan: This feature can be used for direct broadcast entry.

Installation Settings: Displays installation settings menu.

Standby Search: Your box will search for new or missing channels while in standby. Any new found broadcasts will be shown.

First time installation: Deletes all stored channels and settings, resets set-top box to factory settings.

OSD message

No Signal

When the box receives no signal (e.g. the antenna cable is disconnected), “No signal” message will be displayed on the screen.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Standard features

Simple everyday use

Channel Navigation

Channel Buttons: Pressing Programme +/- buttons will swich to the next or previous channel in the list.

Numeric Buttons: Pressing a numeric button will activate a small digit entry window on the upper left corner of the screen. After a digit is entered, the box will wait for about 2 seconds in case you enter another one. If no digit is entered within these 2 seconds, the box will switch to the entered channel number.

Each time the box switches to the desired channel or Info button is pressed an information banner will be displayed on the bottom side of the screen. The bar in the middle of the banner indicates the duration of the current program. On the channel info banner there are:

Channel number.

Name of the channel.

Programme duration bar.

Current event name, next event name, and their 'start' and 'end' times.

When switching to a locked channel, password is requested. The channel can be watched only if the correct password is entered. To skip this channel, use Programme +/- buttons.

When Volume +/- buttons are pressed, volume level bar is displayed. This shows the present volume level graphically.

When the Mute button is pressed, a mute symbol is displayed on the screen for 6 seconds, then it disappears.

Channel List

The box sorts all stored stations in the Channel list. You can edit this channel list, set favourites or set active stations to be listed by using the Channel list options. Press the OK/TV button to open the Channel list. You can filter the listed channels by pressing the Blue button or open the Edit Channel List menu by pressing the Green button in order to make advanced changes in the current list. You can also press the MENU button and select Channel list from the list using the "▼" / "▲" buttons on the remote in order to open the Edit Channel List menu.

Managing the Favourite Lists

You can create four different lists of your favourite channels. Enter the Channel List in the main menu or press the Green button while the Channel List is displayed on the screen in order to open the Edit Channel List menu. Select the desired channel on the list. You can make multiple choices by pressing the Yellow button. Then press the OK button to open the Channel Edit Options menu and select Add/Remove Favourites option. Press the OK button again. Set the desired list option to On. The selected channel/s will be added to the list. In order to remove a channel or channels from a favourite list follow the same steps and set the desired list option to Off.

You can use the Filter function in the Edit Channel List menu to filter the channels in the Channel list permanently according to your preferences. Using this Filter option, you can set one of your four favourite lists to be displayed everytime the Channel list is opened. The filtering function in the Channel list menu will only filter the currently displayed Channel list in order to find a channel and tune in to it. These changes will not remain the next time the Channel list is opened if you don't save them. To save the changes on the list press the Red button after filtering while the Channel list is displayed on the screen.

Media Browser

You can play photo, music and movie files stored on a USB disk by connecting it to your box. Connect a USB disk to one of the USB inputs located on the front side of the box. Pressing the Menu button while in the Media Browser mode will access the Picture, Sound and Settings menu options. Pressing the Menu button again will exit from this screen. You can set your Media Browser preferences by using the Settings menu.

Loop/Shuffle Mode Operation	
Start playback with the Play button and activate	All files in the list will be continuously played in original order
Start playback with the OK button and activate	The same file will be played continuously (repeat)
Start playback with the Play button and activate	All files in the list will be played once in random order
Start playback with the Play button and activate ,	All files in the list will be continuously played in the same random order.

5 Advanced features

Advanced features

Getting the most from your set-top-box

Recording a Programme

IMPORTANT: When using a new USB hard disk drive, it is recommended that you first format the disk using the Format Disk option in the Media Browser>Settings>Recording Settings menu.

To record a programme, you should first connect a USB disk to your box while it is switched off. You should then switch on the box to enable the recording feature.

To use recording your USB drive should have 2 GB free space and be USB 2.0 compatible. If the USB drive is not compatible an error message will be displayed.

To record long duration programmes such as movies, it is recommended to use USB Hard disk drives (HDD's).

Recorded programmes are saved into the connected USB disk in the following directory: /DVR/RECS. A file in TS (.ts) format is created for each recording. This file includes information such as broadcaster, programme, and recording time. If desired, you can store/copy recordings onto a computer; however, these files will not be available to be played on a computer. You can play the recordings only via your box programmes up to ten hours.

Recorded programmes are split into 4GB partitions.

If the writing speed of the connected USB disk is not sufficient, the recording may fail and the timeshifting feature may not be available.

It is recommended to use USB hard disk drives for recording HD programmes.

The hard disk drives that have a storage capacity of more than 2 terabytes are not supported.

Do not pull out the USB/HDD during a recording. This may harm the connected USB/HDD.

If the power cord is unplugged while there is an active USB-recording timer setting, it will be cancelled.

Multipartition support is available. A maximum of two different partitions are supported. The first partition of the USB disk is used for PVR ready features. It also must be formatted as the primary partition to be used for the PVR ready features.

Some stream packets may not be recorded because of signal problems, as a result sometimes videos may freeze during playback.

Record, Play, Pause, Display (for PlayListDialog) keys can not be used when teletext is on. If a recording starts from timer when teletext is on, teletext is automatically turned off. Also teletext usage is disabled when there is an ongoing recording or playback.

Instant Recording

Press Record button to start recording an event instantly while watching a programme. You can press Record button on the remote control again to record the next event after selecting the next programme from within the EPG. Press Stop button to cancel instant recording.

You can not switch broadcasts or view the media browser during the recording mode. While recording a programme or during the timeshifting, a warning message appears on the screen if your USB device speed is not sufficient.

Watching Recorded Programmes

Select Recordings from the Media Browser menu. Select a recorded item from the list (if previously recorded). Press the OK button to view the Play Options. Select an option then press OK button

Note: Viewing main menu and menu items will not be available during the playback.

Press the Stop button to stop a playback and return to the Recordings.

Recording Configuration

Select the Recording Settings item in the Media Browser>Settings menu to configure the recording settings.

Format Disk: You can use the Format Disk feature for formatting the connected USB disk. Your PIN is required to use the Format Disk feature.

Note: Default PIN can be set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the First Time Installation use the PIN that you have defined.

IMPORTANT: Formatting your USB drive will erase ALL the data on it and it's file system will be converted to FAT32. In most cases operation errors will be fixed after a format but you will lose ALL your data.

If "USB disk writing speed too slow to record" message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB disk does not meet the speed requirements. Try connecting another USB disk.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Advanced features

Getting the most from your set-top-box

Software Update

Your box is capable of finding and updating the firmware automatically via the broadcast signal or via Internet.

Software upgrade search via user interface

On the main menu select Settings and then More. Navigate to Software upgrade and press the OK button. In Upgrade options menu select Scan for upgrade and press OK button to check for a new software upgrade.

If a new upgrade is found, it starts to download the upgrade. After the download is completed confirm the question asking about rebooting the box by pressing the OK to continue with the reboot operation.

3 AM search and upgrade mode

Your box will search for new upgrades at 3:00 o'clock if Automatic scanning option in the Upgrade options menu is set to Enabled and if the box is connected to an aerial signal or to Internet. If a new software is found and downloaded successfully, it will be installed at the next power on.

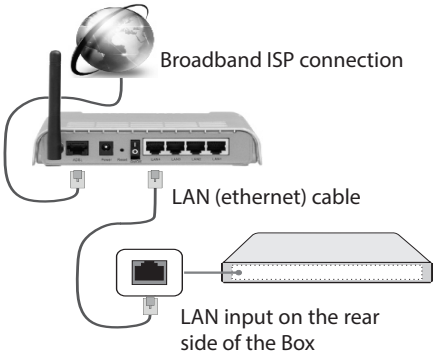
Note: Do not unplug the power adaptor cord while led is blinking during the reboot process. If the box fails to come on after the upgrade, unplug, wait for two minutes then plug it back in.

Connectivity

Wired Connectivity

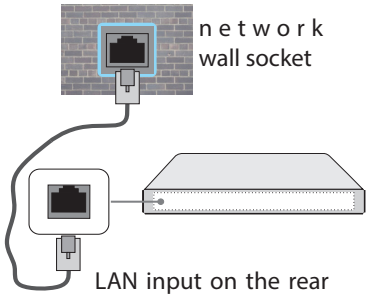
To Connect to a Wired Network

- You must have a modem/router connected to an active broadband connection.
- Connect your PC to your modem/router. This can be a wired or wireless connection.
- Connect your box to your modem/router via an ethernet cable. There is a LAN port at the rear (back) of your box.



To configure wired settings please refer to the Network/ Internet Settings section in the Settings Menu.

- You might be able to connect your box to your LAN depending on your network's configuration. In such a case, use an ethernet cable to connect your box directly to the network wall outlet.



Configuring Wired Device Settings

Network Type

The Network Type can be selected as Wired Device, Wireless Device or Disabled, in accordance with the active connection to the box set. Select this as Wired Device if you are connecting via an ethernet.

Internet Speed Test

Highlight Internet Speed Test and press the OK button. Set-top box will check the internet connection bandwidth and display the result when complete.

Advanced Settings

Highlight Advanced Settings and press the OK button. On the next screen you can change the IP and DNS settings of the box. Highlight the desired one and press Left or Right button to change the setting from Automatic to Manual. Now you can enter the Manual IP and / or Manual DNS values. Select the related item in the drop down menu and enter the new values using the numeric buttons of the remote. Press the OK button to save settings when complete.

Wireless Connectivity

To Connect to a Wireless Network

The box cannot connect to the networks with a hidden SSID. To make your modem's SSID visible, you should change your SSID settings via the modem's software.

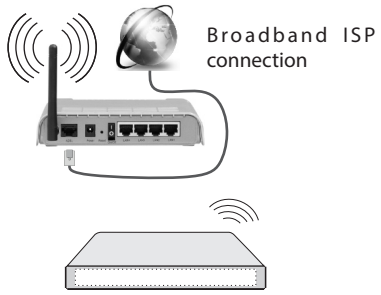
To Connect to a wireless LAN, you should perform the following steps:

- To configure your wireless settings please refer to the Network/Internet Settings section in the Settings Menu.

or online at www.argos-support.co.uk If you still require further assistance, call one of our experts on 0345 604 0105.

Advanced features

Getting the most from your set-top-box



A Wireless-N router (IEEE 802.11a/b/g/n) with simultaneous 2.4 and 5 GHz bands is designed to increase bandwidth. These are optimized for smoother and faster HD video streaming, file transfers and wireless gaming.

- The frequency and channel differ depending on the area.
- The transmission speed differs depending on the distance and number of obstructions between the transmission products, the configuration of these products, the radio wave conditions, the line traffic and the products that you use. The transmission may also be cut off or may get disconnected depending on the radio wave conditions, DECT phones or any other WiFi 11b appliances. The standard values of the transmission speed are the theoretical maximum values for the wireless standards. They are not the actual speeds of data transmission.
- The location where the transmission is most effective differs depending on the usage environment.
- The Wireless feature of the box supports 802.11 a,b,g & n type modems. It is highly recommended that you should use the IEEE 802.11n communication protocol in order to avoid any possible problems while watching videos.
- You must change your modem's SSID when there are any other modems around with the same SSID. You can encounter connection problems otherwise. Use a wired connection if you experience problems with a wireless connection.

Configuring Wireless Device Settings

Open the Network/Internet Settings menu and select Network Type as Wireless Device to start connection process.

The box will scan the wireless networks automatically. A list of available networks will be displayed. Please select your desired network from the list.

Note: If the modem supports N mode, you should set N mode settings.

If the selected network is protected with a password, please enter the correct key by using the virtual keyboard. You can use this keyboard via the directional buttons and the OK button on the remote control.

Wait until the IP address is shown on the screen.

This means that the connection is now established. To disconnect from a wireless network, highlight Network Type and press Left or Right buttons to set as Disabled.

Highlight Internet Speed Test and press the OK button to check your internet connection speed. Highlight Advanced Settings and press the OK button to open the advanced setting menu. Use directional and numeric buttons to set. Press the OK button to save settings when complete.

Other Information

The status of the connection will be displayed as Connected or Not Connected and the current IP address, if a connection is established.

Connecting to your mobile device via WiFi

- If your mobile device has WiFi feature, you can connect it to your box via a router, in order to access the content in your device. For this, your mobile device must have an appropriate sharing software.
- Connect to your router following the steps stated above in the Wireless Connectivity section.
- Afterwards, engage your mobile device with the router and then activate the sharing software on your mobile device. Then, select files that you want to share with your box.
- If the connection is established correctly, you will be able to access the shared files from your mobile device via the Media Browser of your box.
- Enter the Media Browser menu and the playback device selection OSD will be displayed. Select your mobile device and press the OK button to continue.

Connectivity Troubleshooting

Wireless Network Not Available

- Ensure that any firewalls of your network allow the box wireless connection.
- Try searching for wireless networks again, using the Network/Internet Settings menu screen.

If the wireless network does not function properly, try using the wired network in your home. Refer to the Wired Connectivity section for more information on the process.

If the box does not function using the wired connection, check the modem (router). If the router does not have a problem, check the internet connection of your modem.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Advanced features

Getting the most from your set-top-box

Connection is Slow

See the instruction book of your wireless modem to get information on the internal service area, connection speed, signal quality and other settings. You need to have a high speed connection for your modem.

Distruption during playback or slow reactions

You could try the following in such a case:

Keep at least three meters distance from microwave ovens, mobile telephones, bluetooth devices or any other Wi-Fi compatible devices. Try changing the active channel on the WLAN router.

Internet Connection Not Available / Audio Video Sharing Not Working

If the MAC address (a unique identifier number) of your PC or modem has been permanently registered, it is possible that your box might not connect to the internet. In such a case, the MAC address is authenticated each time when you connect to the internet. This is a precaution against unauthorized access. Since your box has its own MAC address, your internet service provider cannot validate the MAC address of your box. For this reason, your box cannot connect to the internet. Contact your internet service provider and request information on how to connect a different device, such as your box, to the internet.

It is also possible that the connection may not be available due to a firewall problem. If you think this causes your problem, contact your internet service provider. A firewall might be the reason of a connectivity and discovery problem while using the box in Audio Video Sharing mode or while browsing via Audio Video Sharing feature.

Invalid Domain

Ensure that you have already logged on to your PC with an authorized username/password and also ensure that your domain is active, prior to sharing any files in your media server program on your PC. If the domain is invalid, this might cause problems while browsing files in Audio Video Sharing mode.

Using Audio Video Sharing Network Service

Audio Video Sharing feature uses a standard that eases the viewing process of digital electronics and makes them more convenient to use on a home network.

This standard allows you to view and play photos, music and videos stored in the media server connected to your home network.

1. Nero Media Home Installation

The Audio Video Sharing feature cannot be used if the server programme is not installed onto your PC or if the required media server software is not installed onto the companion device. Please prepare your PC with the Nero Media Home programme. For more information about the installation, please refer to the "Nero Media Home Installation" section.

2. Connect to a Wired or Wireless Network

See the Wired/Wireless Connectivity chapters for detailed configuration information.

3. Play Shared Files via Media Browser

Select Media Browser by using the directional buttons from the main menu and press OK. The media browser will then be displayed.

Audio Video Sharing

Select the desired media type on the main media browser menu and press OK. If sharing configurations are set properly, Device Selection screen will be displayed after selecting the desired media type. If available networks are found, they will be listed on this screen. Select media server or network that you want to connect to using the Up or Down buttons and press OK. If you want to refresh the device list, press the Green button. You can press Menu to exit.

If you select the media type as Videos and choose a device from the selection menu. Then select the folder with video files in it on the next screen and all the available video files will be listed.

To play other media types from this screen, you can go back to main Media Browser screen and select the media type as desired and then perform the network selection again. Or press the Blue button to switch to next media type quickly without changing the network. Refer to the Media Browser menu section for further information on file playback.

If a problem occurs with the network, please switch your box off at the wall socket and back on again. Trick mode and jump are not supported with the Audio Video Sharing feature.

PC/HDD/Media Player or any other devices that are compatible should be used with a wired connection for higher playback quality.

Use a LAN connection for quicker file sharing between other devices like computers.

Note: There may be some PC's which may not be able to utilize the Audio Video Sharing feature due to administrator and security settings (such as business PC's).

Advanced features

Getting the most from your set-top-box

For best home network streaming with this box, the Nero software should be installed.

Nero MediaHome Installation

To install Nero MediaHome, please proceed as follows:

Note: The Audio Video Sharing feature cannot be used if the server programme is not installed onto your PC or if the required media server software is not installed onto the companion device.

1. Enter the link below completely in the adress-bar of your web browser.

   http://www.nero.com/mediahome-tv

2. Click the Download button on the opening page. The installation file will be downloaded onto your PC.
3. After the download is completed, double click on the installation file to start the installation. The installation wizard will guide you through the installation process.
4. The prerequisites screen will be displayed first. The installation wizard checks the availability of required third-party software on your PC. If applications are missing they are listed and must be installed before continuing installation.
5. Click the Install button. The integrated serial will be displayed. Please do not change the displayed serial.
6. Click the Next button. The License Conditions (EULA) screen will be displayed. Please read the license agreement carefully and select the appropriate check box if you agree to the terms of the agreement. Installation is not possible without this agreement.
7. Click the Next button. On the next screen you can set your installation preferences.
8. Click the Install button. The installation begins and finishes automatically. A progress bar will indicate the state of the installation process.
9. Click the Finish button. The installation is completed. You will be directed to the web site of the nero software.
10. A shortcut is now placed on your desktop.

Congratulations! You successfully installed Nero MediaHome on your PC.

Run Nero MediaHome by double clicking on the shortcut icon.

Internet Portal

HINT: A broadband internet connection is required for high quality viewing. You must set the country option accordingly in the First Time Installation for proper operation of the internet portal.

Portal feature adds your box a feature that allows you to connect a server on the Internet and view the content provided by this server over your Internet connection. Portal feature allows you to view the music, video, clip or web content with defined short-cuts. Whether you can view this content without interruption depends on the connection speed provided by your internet service provider.

Press the  button on your remote control to open internet portal page. You will see icons of the available applications and services on the portal screen. Use the directional buttons on your remote to select the desired one. You may view the desired content by pressing OK after selecting. Press Back/Return button to return back to the previous screen.

Moreover, you can access some features using the short-cut feature defined for the coloured or numeric buttons of your remote.

Press the Exit button to quit the Internet portal mode.

PIP Window (depending on portal service)

Current source content will be displayed in the PIP window, if you switch to portal mode while on any active source.

If you switch to portal mode while watching box channels, current programme will be displayed in the PIP window.

Notes:

Possible application dependent problems may be caused by the content service provider.

Portal service content and the interface may be changed at any time without prior notice.

Third party internet services may change, be discontinued or restricted at any time.

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Advanced features

Getting the most from your set-top-box

Freeview Play Platform

Note: Before attempting to connect to the Freeview Play platform, make also sure that BBC and ITV channels are installed. Otherwise connecting to the platform will not be available.

Freeview Play platform provides integrated catch-up TV services. Simply press the Play button on your remote control to connect to the Freeview Play platform.

You will have to agree to the terms and conditions for Freeview Play services first if you did not agree them during the First Time Installation. Highlight Yes and press OK on the remote to confirm and proceed.

Integrated TV Player applications will be displayed. Select one and press the OK button. Then select a content that you want to play back and press the OK button to watch.

Catch-up contents can also be accessed and played back directly from the TV Guide. Refer to the section Electronic Programme Guide (EPG) for more information.

Internet Browser

To use the internet browser, enter the portal first. Then launch the Internet application on the portal.

(*) The appearance of the internet browser logo may change

In the initial screen of the browser, the thumbnails of the predefined (if any) links to web sites available will be displayed as Speed Dial options along with the Edit Speed Dial and the Add to Speed Dial options.

To navigate the web browser, use the directional buttons on the remote or a connected mouse. To see the browser options bar, move the cursor to the top of the page or press the Back/Return button. History, Tabs and Bookmarks options and the browser bar which contains previous/next buttons, the refresh button, the adress/ search bar, the Speed Dial and the Opera buttons are available.

To add a desired website to the Speed Dial list for quick access, move the cursor to the top of the page or press the Back/Return button. The browser bar will appear. Highlight the Speed Dial - button and press the OK button. Then select Add to Speed Dial option and press the OK button. Fill in the blanks for Name and Address, highlight OK and press the OK button to add. Whilst you are on the site you wish to add to the Speed Dial list, highlight the Opera- button and press the OK button. Then highlight Add to Speed Dial option in the submenu and press the OK button again. Name and Address will be filled automatically according to the site you are visiting. Highlight OK and press the OK button to add.

You can also use the Opera menu options to manage the browser. Highlight the Opera- button and press the OK button to see available page specific and general options.

There are various ways to search or visit websites using the web browser.

Enter the address of a website(URL) into the search/address bar and highlight the Submit button on the virtual keyboard and press the OK button to visit the site.

Enter keyword/s into the search/address bar and highlight the Submit button on the virtual keyboard and press the OK button to start a search for the related websites.

Highlight a Speed Dial thumbnail and press the OK button to visit the related website.

Your box is compatible with USB mice. Plug your mouse or wireless mouse adaptor into the USB input of your box for easier and quicker navigation.

Some web pages include flash content. These are not supported by the browser.

Your box does not support any download processes from the internet via the browser.

All sites on the internet might not be supportted. According to the site; content problems may occur. In some circumstances video contents might not be able to be played.

6 Other information

Other information

Helpful technical information

Specification

GENERAL

Power supply for set-top box	12V DC - 220 - 240 V AC, 50-60Hz
Input Frequency	470 MHz - 854 MHz
Power consumption	12 W (max)
Active antenna output	5V - 50mA
Operating temperature	5°C to +40°C
Storage temperature	-20°C to +70°C
Humidity	25 to 75 % rel
Physical dimensions	173,5 x 141,8 x 36 mm
Weight	770 g
Standby Low power consumption	Less than 0.5W

USB

Current Limit	500mA

Remote Control

Operating Distance	10m Max.
Batteries	2x1.5V (R-03/AAA)

Digital Capabilites

Transmission Standards:

MPEG2, MPEG4 DVB-T

MPEG2, MPEG4 HD DVB-T2

Demodulation:

Symbolrate	COFDM with 2K/8K FFT mode
Modulation	16-QAM - 64-QAM FEC for all DVB modes (automatically found), 256-QAM for DVB-T2

Video:

MPEG-1/2/4 Video Decoder

- Supports ISO/IEC 13818-2 MPEG-2 MP@HL video decoding up to 1080p@30fps
- Supports ISO/IEC 14496-2 MPEG-4 SP and ASP video decoding up to 1080p@30fps

H.264 Decoder

- Supports ITU-T H.264, ISO/IEC 14496-10 main and high profile up to level 4.1 video decoding
- Supports resolution up to 1080p@30fps

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Other information

Helpful technical information

Audio:

- MPEG-1, MPEG-2 (Layer I/II), MP3, AC-3 (Dolby Digital), AAC-LC
- E-AC-3 (Dolby Digital Plus)
- AAC, HE-AAC 5.1 multi-channel decoding
- Simultaneously supports HE-AAC decoding and transcoding to AC-3
- AC-3 stream output through SPDIF
- Stereo audio description decoding
- RA8-LBR decoding

Media Player

Supported files	mp3, jpeg, avi, mkv
Trick modes	Available
MP3 ID3 Tag support	Available
Mpeg4 file and MKV Playback	Available
Rotate	Available

Displaying Text

Some channels have teletext pages broadcast along with the television programme. Press Teletext button to activate teletext pages (if available). Press the Teletext button again to exit. You can navigate the teletex pages by using the directional buttons, OK and the coloured buttons.

Note: If the subtitle is on, teletext page cannot be displayed.

Trademark Acknowledgment

Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.

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Content owners use Microsoft PlayReady™ content access technology to protect their intellectual property, including copyrighted content. This device uses PlayReady technology to access PlayReady-protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content usage, content owners may require Microsoft to revoke the device's ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

7 Product support

EN: Hereby, VESTEL Elektronik Sanayi ve Ticaret A.Ş., declares that the radio equipment type TFT IDTV 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

Product support

Help is always at hand

Trouble Shooting

Trouble	Possible Reasons	What To Do
The standby led is not lit.	Adaptor cable is not connected.	Check if the adaptor cable is plugged into the power socket.
No picture or sound.	No signal or weak signal.	Check the signal cable and A/V connectors.
The settings you have done in the menus have not been changed.	The digital set-top box was unplugged without first going to standby.	Before unplugging your digital set-top box, wait for going to standby.
The remote control is not working.	• The set-top box is in standby. • Remote control is incorrectly aimed. • Batteries are exhausted.	• Press the standby button. • Check if nothing blocks the front panel. • Change the batteries.
You have forgotten any channel lock code.		Contact your dealer or service.
Video is ok for HDMI output, but audio is not ok.	Because of HDMI line is crashed.	Unplug and plug TV and STB at the same time.
Freeview Play is not working	The antenna or internet may not be connected correctly	Check both connections and ensure they are connected correctly. Reinstall to access Freeview Play

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Product support

Help is always at hand

Help and assistance

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions or online at www.argos-support.co.uk

If you still require further assistance, call one of our experts on 0345 604 0105*. To help give us give you a fast and efficient service please have the following information ready:

Model Ref.		You can find these on the rating plate - a small information panel (usually a sticker or metal plate) on the rear of your set-top box
Serial number		
Date of purchase		This will be shown on your receipt

Local call rates applies*

Lines open 8am-7pm Monday to Saturday and 10am-4pm Sunday.

*Calls to Argos enquiry lines may attract a charge and set up fee from residential lines depending on your call plan/tariff. Mobile and other providers costs may vary, see www.bt.com/pricing for details.

For security and training purposes, telephone calls to and from customer service centres may be recorded and monitored. Calls from Republic of Ireland will attract international call charges.

or online at www.argos-support.co.uk If you still require further assistance, call one of our experts on 0345 604 0105.

Product support

Help is always at hand

BUSH

Call us now and activate your 12 month guarantee

Thank you for choosing Bush. Your new product is guaranteed against faults and breakdowns for 12 months. Don't forget to register it with us today so we can provide you with our best possible after-sales service and useful updates.

www.bushregistration.co.uk

FREEPHONE*

0800 597 8548

Lines are open 8am - 8pm, 365 days a year. *Calls may be recorded and monitored.

Your Bush Guarantee

This product is guaranteed for twelve months from the date of original purchase. Any defect that arises due to faulty materials or workmanship will be repaired free of charge (or if applicable the product will be replaced or the purchase price refunded) where possible during this period by the dealer from who your 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 the manual.
- It must be used solely for domestic purposes. The guarantee will be rendered invalid if the product is re-sold or has been damaged by inexpert repair.
- Specifications are subject to change without notice.
- Bush disclaim any liability for loss or damage arising from the breakdown of the product.
- This guarantee is in addition to and does not diminish your statutory or legal rights.

Important Data Protection Information

If you provide us with information about another person, you confirm that they have appointed you to act for them, to consent to the processing of their personal data including sensitive personal data and that you have informed them of our identity and the purposes (as set out in the Important Data Privacy notice displayed overleaf) for which their personal data will be processed.

You are entitled to ask for a copy of the information we hold about you (for which we may charge a small fee) and to have any inaccuracies in your information corrected.

For quality control and training purposes, we may monitor or record your communications with us.

If your personal details change, if you change your mind about any of your marketing preferences or if you have any queries about how we use your information, please let us know by contacting our Data Protection Officer, Domestic & General, Leicester House 17 Leicester Street, Bedworth, Warwickshire CV12 8JP.

Guarantor: Argos Limited - 489 - 499 Avebury Blvd. - Milton Keynes - MK9 2NW

If you require any technical guidance or find that your set-top box is not operating as intended, a simple solution can often be found in the Troubleshooting section of these instructions,

Product support

Help is always at hand

or online at www.argos-support.co.uk If you still require further assistance, call one of our experts on 0345 604 0105.

BUSH

Contact:

www.argos-support.co.uk

Helpline: 0345 604 0105

489-499 Avebury,

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