

i-CAN ®
By ADB – Advanced Digital Broadcast

easy HD
2851T



USER GUIDE

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GLOSSARY OF ICONS



There is Extended Information available for the programme.



There are more multiple soundtracks available for the programme.



There are more subtitles available for the programme.



This programme/channel is presented in High Definition.



The channel is locked.



The programme is locked, because its rating exceeds parental level.



Guidance information is available.



Programme is broadcast with the surround sound.



There is Digital Teletext available for this channel.



Audio description is available.

GETTING STARTED

Thank you for purchasing an i-CAN Easy HD receiver

SAFETY FIRST

This digital receiver has been manufactured to meet international safety standards. However, safety precautions must be followed to ensure the safe and reliable operation of the device.

Please take note of the following guidelines to avoid the risk of an electric shock.

This receiver has an external power supply that works in the range 100 to 240V AC, 50/60 Hz. Ensure you plug the power input lead into a standard AC wall outlet, and not any DC power source. Remember that contact with the AC power supply can be lethal.

Ensure that all cables, including the power input lead, are inserted properly into the receiver before connecting it to the AC power supply. Similarly always unplug the receiver from the power supply first, before disconnecting cables from the receiver or reconnecting them.

Never attempt to repair or reconstruct the receiver yourself. You can get a serious electric shock if you attempt to open the casing.

Be extremely careful if this receiver gets wet for any reason. Immediately unplug it from the mains supply.



Removing the cover of the receiver may lead to a severe and potentially fatal electric shock

DO

- If any object falls into the casing, unplug the receiver and have it checked by a qualified technician.
- Allow adequate air circulation around the unit to prevent internal heat build-up. Do not place the unit next to a radiator or any heat source, and make sure that the air vents are left clear.

DO NOT

- Do not expose the receiver to extreme temperatures, direct sunlight, or high humidity.
- Do not place any objects on top of the receiver since that could restrict air circulation.
- Do not place the receiver on fabric furnishings, carpets or other flammable materials.

ABOUT YOUR HIGH DEFINITION RECEIVER

Your receiver allows you to watch programmes filmed in High Definition with much greater picture and sound quality than ever before.

WHAT IS HDTV?

HDTV (High Definition Television) is a new digital broadcasting standard bringing you much higher quality video and audio compared with the previous technology.

You will need a TV capable of displaying HD pictures at full quality to enjoy HD programmes. Such TVs are labelled 'HD Ready' or 'Full HD.' Check in your TV manual if unsure whether it is 'HD ready.'

There are several reasons why HDTV provides a superior TV viewing experience:

1. Higher resolution pictures give smarter images

The picture on your TV screen is made up of dots known as pixels, and more of them give sharper pictures and display movement more realistically. The number of such dots on the screen, given as the number of lines, is a measure of the quality, known as resolution, and the higher the better. Standard definition pictures have 576 lines per screen, while High Definition TV sets can display either 720 or 1080 depending on the model.

2. Surround Sound

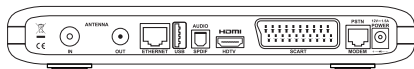
Many HD programmes are broadcast with surround sound, which combined with the panoramic picture creates a cinema-like experience, with much higher audio quality than most standard definition TVs.

3. HDMI Connector

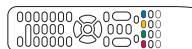
The HDMI connector provided with your receiver transmits the HDTV pictures and sound to your TV set with the best possible quality. You must check though that your TV set supports High Definition Content Protection (HDCP), which is needed for the HDMI connector to work. If the HDMI cable cannot be used, your receiver can be connected to the TV set with a conventional SCART cable.

GETTING STARTED

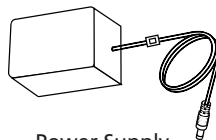
UNPACKING YOUR DIGITAL RECEIVER



Receiver



Remote control



Power Supply

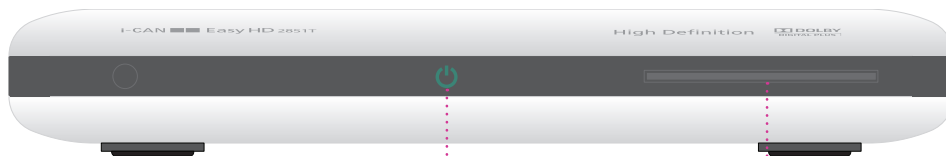


HDMI Cable



Batteries

FRONT PANEL



LED INDICATOR

Green - operating mode.

Red - standby mode.

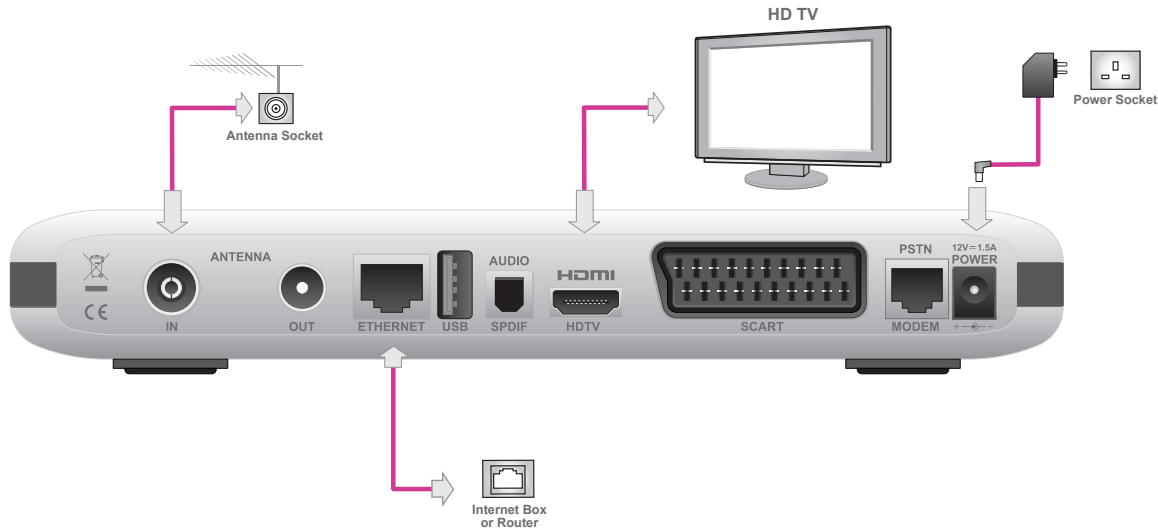
The LED blinks when your device is receiving signals from the remote control.

SMART CARD SLOT

The Smart Card allows you to view scrambled channels and Pay Per View programmes (subject to subscription and availability). Gently push the card into the slot. The card's chip should face downwards.

BASIC CONNECTIONS

The following connections need to be made in order for the decoder to work properly.



Plug in all cables before connecting the receiver to the power supply. Similarly always unplug the receiver from the power supply first, before disconnecting cables from the receiver or reconnecting them.



If you have an antenna that requires 5V power supply so please make sure that it is properly supplied either by using external power supply or switching the Antenna Power* option to On.

* Depends on the software version.

GETTING STARTED

TV CONNECTIONS

There are three ways of connecting the receiver to your TV set.

- Connection with HDMI cable is the most recommended one. It provides the highest picture and audio quality. The receiver automatically detects the best resolution for your TV. But this requires support for the High Bandwidth Digital Content Protection (HDCP) standard from your TV set.
- If there is no possibility of connecting the receiver with HDMI cable, use SCART cable.



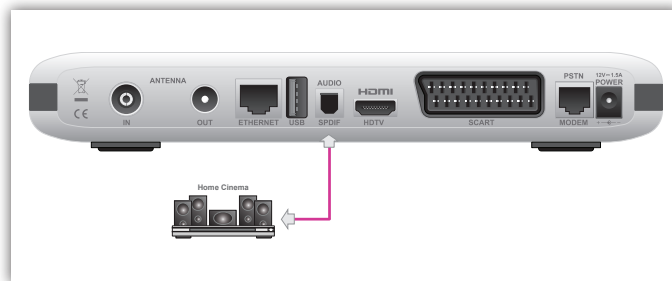
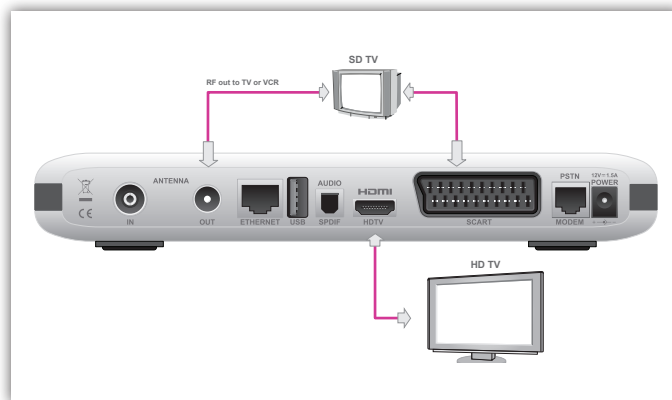
If your receiver is connected with SCART cable, please make sure that the picture resolution is set to 576i. If the resolution of the screen is different, then the graphic is not displayed. Keep pressing **DISP** on the remote control unit of your i-CAN receiver until it switches on to 576i mode and the graphic appears.

SURROUND SOUND

If you would like to enjoy Dolby surround sound, connect your home cinema system to the receiver with S/PDIF cable.

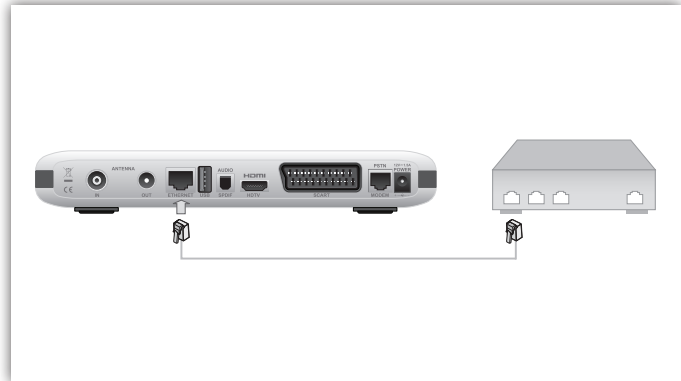


To enjoy surround sound, press **MENU**, select "Audio Mode" in "Settings" menu and choose "Yes". Surround sound will be audible only if it is broadcasted with the program.



HOW TO CONNECT TO THE INTERNET?

- You first need a broadband connection of 2MB (check your broadband connection speed on www.mybroadbandspeed.co.uk)
- Then use an Ethernet cable to connect your receiver to either your broadband router or your Internet box.
- If you cannot connect your receiver directly with an Ethernet cable, there are other ways that can be used. For further details, please ask your Internet service provider.
- Then go to the main MENU of your receiver and select Installation - Network Configuration – Automatic Configuration. This option is protected by the following PIN code: 1234.
- After completion, go to the 'Interactive Services' icon on the main menu to access the available catch-up or interactive services.



REMOTE CONTROL







Button	Action		
	Switches STB on/off.		Displays Channel Banner and the Extended Information for a selected programme. Also, opens up the "Help" pop-ups if applicable.
	Switches TV on/off.		Mutes the sound.
	Changes between STB mode and TV mode.		Change channel.
	Changes the screen resolution.		Change volume level.
	Tune to a selected channel. Input numbers in other parts of application, e.g. PIN entry, Manual Internet Configuration.		Displays the Channel List in normal viewing mode.
	Allows for the change of the current programme components (audio, subtitles, display format).		Inactive.
	Inactive.		Inactive.
	Returns to normal viewing mode.		Inactive.
	Inactive.		Inactive.
	Shift focus in 4 directions. • arrow returns to the previous screen in windows with settings.		Inactive.
	Confirms choices or displays a list of commands.		Inactive.
	Returns to the previous screen or tunes to the previous channel.		In normal viewing and Channel Banner mode, brings up Digital Teletext if available.
	Access to Main Menu.		Changes subtitles if available. Please note that if your decoder is connected with SCART cable, then subtitles are only displayed when 576i resolution is selected.
	Access to Programme Guide.		Switches audio description on/off.
			Used in external applications.

PROGRAMMING REMOTE CONTROL

Your remote control can communicate with your receiver and TV at the same time. However, first you have to set it up to work with your TV. You can do this in two ways: Automatic Search or Manual Selection.



Automatic Search

Use this procedure if you want to set up your remote control automatically or if you cannot find a code from the table of codes provided.

1. Turn on your TV.
2. Press and hold  the key for 3 seconds until the TV LED blinks twice and then remains lit.
3. Type 0000, the TV LED  blinks twice.
4. Press and hold the  key until your TV switches off. This step may take several seconds or minutes. The LED blinks when sending different codes.
5. When your TV switches off, immediately release the key.
6. Turn on your TV and try out the keys you need for operating it.
7. Press key  twice to save the settings and exit programming mode. The LED will blink twice for confirmation.

Manual Selection

First find your TV brand in the table at the end of this user guide and try the codes from the list starting from the first one.

1. Turn on your TV.
2. Press and hold  and  keys simultaneously for 3 seconds until the TV LED blinks twice and then remains lit.
3. Enter the 4-digit code for your TV. Each digit is confirmed by a blink. Last digit is confirmed by a double blink.
5. Try out the keys you need for operating your TV and check if they work. If you are able to operate your TV it means that the procedure has been successful. If, however the remote control fails to operate your TV try the automatic search procedure.

EASY SET UP

HOW TO SET UP YOUR RECEIVER?

Connect your receiver to the mains:

- A LED indicator will illuminate on the front panel of the box to confirm that the device is on and active.
- DO NOT USE THE REMOTE CONTROL OF THE RECEIVER.
- Wait until the i-CAN screen appears on your TV.
- The i-CAN screen will be present on your screen after several seconds (up to one minute). If it does not appear and you have connected your receiver with HDMI cable, this means that your TV does not support digital copyright protection and you need to use SCART cable instead.
- Wait until the screen explaining main use of arrow buttons appears. Press **OK** to continue.
- In the next screen, select the type of TV set that you have and select "Continue".

CHANNEL SEARCH

The channel search will start automatically: When it is completed, you will be asked to select your preferred region.

If the channel search process does not complete successfully, an error message will appear. Then you can press the **MENU** button to enter the Menu system where you can access additional Installation or Help sub-menus.



INTERNET CONNECTION

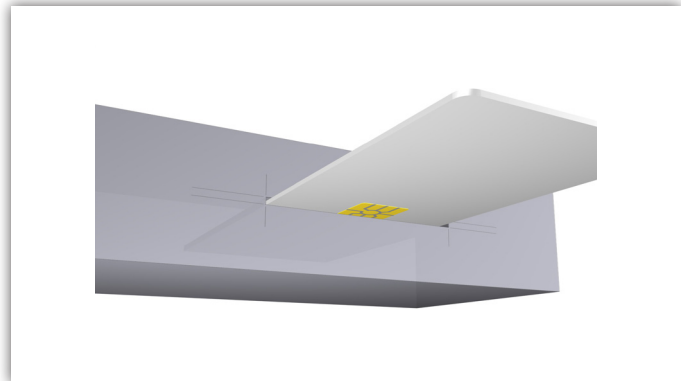
Afterwards you will reach the last screen that will search for your Internet connection. So check that you have connected your i-CAN to a broadband Internet connection. This will allow you to get the additional features like catch-up TV services and interactive Internet applications, that will be deployed over time. If you don't want to search for Internet connection now, you can skip this step and go straight to watching TV.



HOW TO WATCH PAY-TV CHANNELS?

Your receiver has been designed to receive some scrambled channels, including Pay Per View programmes (subject to a subscription), that require special codes to watch. These codes are held on a smart card, which you slot into the receiver's front panel.

Insert the card gently into the slot making sure that the chip faces downwards.



BASIC FUNCTIONS

WHAT IS CHANNEL BANNER?

Channel Banner appears at the bottom of the screen each time you change channel or when you press **INFO**. It presents channel name and number, current and next programmes, and some icons (to see all icons go to "Glossary of Icons" section of this manual).

Pressing **INFO** twice evokes extended information about the selected programme.

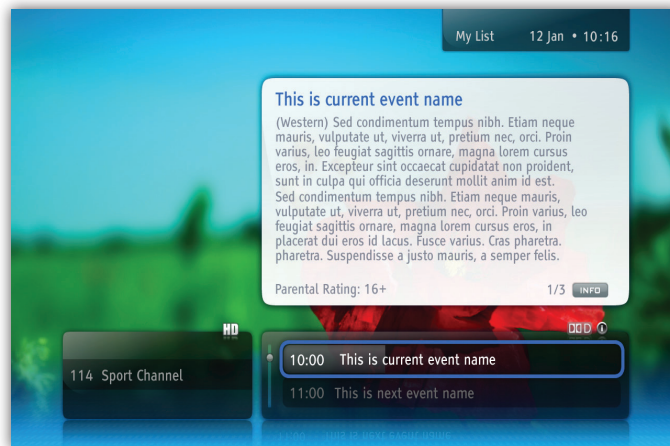
HOW TO CHANGE CHANNELS?

You can change channels in several ways:

- Press number keys on the remote control.

- Press **CH**.


- When the Channel Banner is displayed press **Left Arrow** to highlight the channels panel and use **Up Arrow** **Down Arrow** to see what is on the selected channel, then press **OK** to tune to this channel.
- In the Channels List (press **LIST**), select a channel by pressing **OK**.
- In the Electronic Programme Guide (press **EPG**), select a channel by pressing **OK** and choose Watch from the commands list.



HIGH DEFINITION CHANNELS






When your decoder is connected with HDMI cable the decoder will suggest watching some channels in high definition mode. When you tune to a standard definition channel that has a high definition counterpart, then a pop-up message appears informing you about it and allowing you to re-tune.

WHAT IS COMMANDS LIST?

Commands List is brought up by pressing  when a particular programme or channel is highlighted. From this list you may select various actions for the selected item. The actions depend on the place, where the commands window is evoked (EPG, Main Menu, etc.). You may choose from such commands as: "Watch", "More Info", etc.

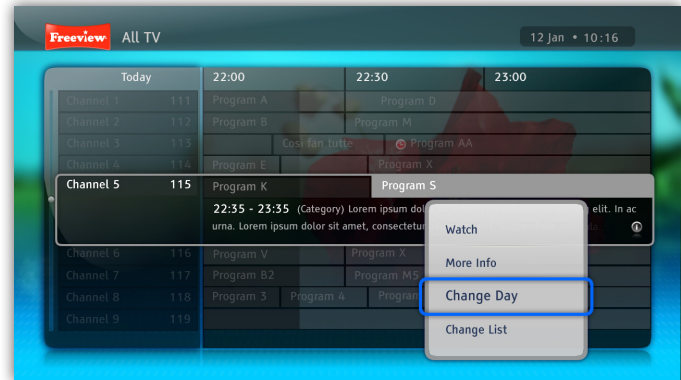
HOW TO CHANGE PROGRAMME OPTIONS?

While watching a programme you may change default audio, audio description, subtitles language or TV aspect ratio. To change those options follow these guidelines:

- Press  to display "Programme Options" window.
- Using   select an item you would like to change.
- Press  to evoke a list of available options,
- Press  to accept changes.



Some components might not be broadcast and thus there is no possibility to change them.








BASIC FUNCTIONS

HOW TO CREATE FAVORITE LISTS?

You may create several favorite lists with channels of your choice.

To create a favorite list:




- Press  and select Favorite Lists.
- Select New TV List or New Radio List and press .
- Using arrow keys and  enter the name for your new list and choose "Accept".
- When the list of channels appears, choose your channels. To do that use arrows or number keys to highlight the chosen channel and press  to add it to the list. Then select another one.
- When finished, press .







To modify your favorite list, highlight the list and press  to evoke Commands List.

HOW TO CHANGE CHANNEL LISTS?

Your receiver comes with three channel lists: All TV, All Radio, and All Data. If you want to limit your viewing only to the channels of your choice, select your favorite list in the following way:


- Press .
- Use   to choose the list of your choice.







- Using   or number keys select a channel.
- Press .
- To leave the list without selecting a channel, press .



To page up/down through the list use  .



HOW TO SWITCH AUDIO DESCRIPTION ON/OFF?

If audio description is available then an icon  is displayed in the channel banner. If you want to switch it on, or change options do the following:

- Press  to display "Programme Options" window.
- Using   select Audio Description.
- With   keys, change the value.
- Press  to accept changes.

You can quickly change audio description language or switch it on/off by pressing  on the remote control.






You can change the Audio Description volume level by selecting "AD Volume" and by using  .

HOW TO LOCK A PROGRAMME/CHANNEL?






There are two types of locks: Parental Lock and Channel Lock. Parental Lock prevents children from watching programmes exceeding parental level.

To set the Parental Lock:

- Press  to access Main Menu and select Parental Control.
- Choose Parental Level.
- Press  to evoke a list of available options,
- Set the age level and press .

Channel Lock blocks whole channels.


To set the Channel Lock:

- Press  and select Parental Control.
- Choose Channel Lock menu.
- In Channel Lock choose either All TV or All Radio list.
- Using   select a programme to be locked and press .
- Leave the screen by pressing . Changes are saved.

Programmes/channels are unlocked after entering the correct PIN code. The default PIN code is: 1234.

HOW TO CHANGE YOUR PIN CODE?

To change the PIN code:


- Press  to access Main Menu and select Parental Control.
- Choose Change PIN.
- Enter the current PIN code.
- Enter the new PIN code twice for confirmation.
- The default PIN code is: 1234.









For the locks to take effect the “Protection Status” in Parental Control submenu needs to be set to Active. If the “Protection Status” is set to Inactive all the locks are disabled.

BASIC FUNCTIONS

WHAT IS EPG?

Electronic Programme Guide (EPG) is an electronic version of commonly known TV guides. To enter the EPG press . Below you can find a table describing EPG functionality and remote control keys used to perform particular action:

Function	Key
Browsing through channels and programmes	
Selecting other days than today	 next day  previous day
Learning more about the selected programme	
Using commands	
Changing the channel list	



You may use number keys instead of arrow keys to select channels in EPG.



BASIC FUNCTIONS

SOFTWARE UPGRADE

Your receiver's software may be updated from time to time, to introduce new features for example. This process will normally happen automatically, however only when your receiver is in standby mode. You can also choose to initiate this yourself by selecting the Receiver Upgrade option (Main Menu - Installation - Receiver Upgrade).

In order to be kept informed when new software versions become available, please register your product on www.i-can.tv.





You can also upgrade your receiver's software through USB port. To do so, please plug in the USB memory stick with software upgrade. Go to Main Menu - Installation - USB Upgrade and follow the instructions displayed on the screen.

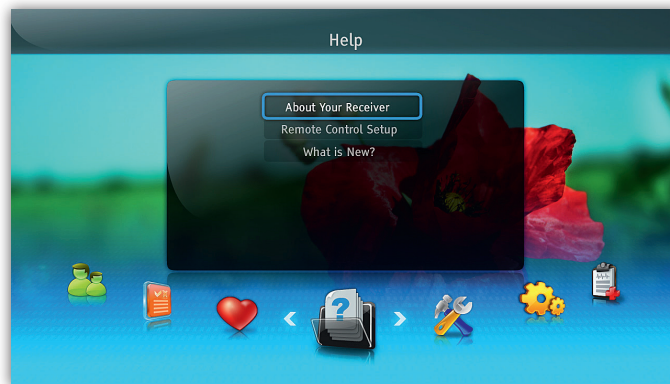
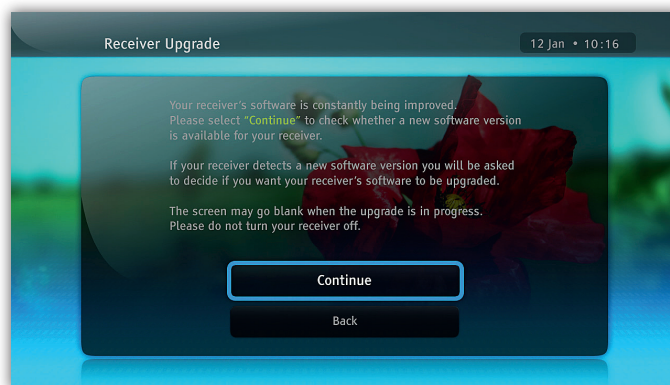
PRODUCT INFORMATION

To get technical information about your product, go to the Main Menu and select Diagnostics.

HELP

You can learn more about your receiver's functionality from the Help menu on your device.

To open the Help menu, go to the Main menu and select Help using the   buttons and pressing . In the Help menu, you can use the  buttons to shift between screens.






BBC iPlayer

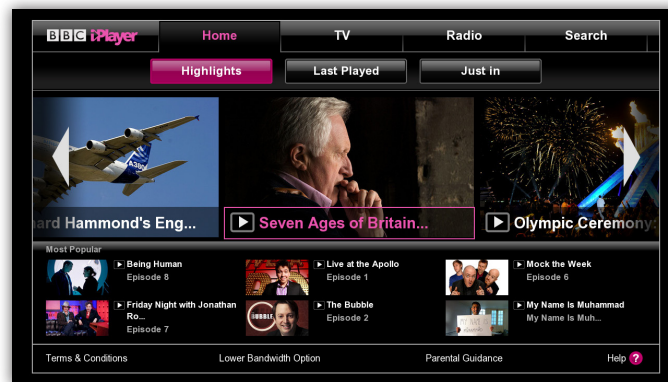
WHAT IS BBC iPlayer?

BBC iPlayer is the BBC's TV and radio catch-up service. It can be used to watch or listen to a wide range of BBC programmes, including High Definition ones. To access BBC iPlayer do the following:

- Press **MENU** and select Interactive Services.
- From the list, select BBC iPlayer and press **OK**.

Below you can find a table with remote control keys used in BBC iPlayer:

Function	Key
Moving highlight in four directions	
Following the highlighted page/link	
Returning to the previous page	
Leaving BBC iPlayer	
Fast forwarding content	
Rewinding content	
Stopping playback	
Playing/pausing content	



MAINTENANCE

From time to time you may wish to clean your receiver. First disconnect the receiver from the power supply and then use a soft, dry cloth. For very dirty surfaces, dip the soft cloth in a weak soap-and-water solution and wring well. Then dry off with a soft, dry cloth. Never use alcohol, paint thinner, or any chemically treated cloth, to clean your receiver. Such chemicals may damage its finish.

BEFORE REQUESTING SERVICE

If you have a problem, please check the table below for a possible solution. If you cannot find the solution there, we suggest you next consult the Help section at www.i-can.tv before calling your vendor's service department. Some simple checks or minor adjustments may fix the problem and restore full service, since most faults are quite trivial. The most common problems are related to cable connections. Make sure first that your receiver is properly connected. To ensure that all the cables are in their place, disconnect and connect them again. However if none of the remedies indicated in the table or on our website solves the problem, consult your vendor.

TROUBLESHOOTING

General issues


Symptom

Solution

- The standby indicator on the receiver's front panel does not light up.

- Check that the wall socket is supplying power. Then the LED on the receiver's power plug should light up green.
- Check that the power cable is switched on.
- Check if the power cable, HDMI cable, and antenna cable are correctly connected and that the receiver is switched on. Try disconnecting and then reconnecting these cables to ensure they are properly in place.

- The standby indicator on the receiver's front panel is red.

- Your receiver is in standby mode, so just press the  button on your remote control to take the receiver into full operational mode.

- Your remote control fails to operate your receiver.

- Make sure your receiver is in operate mode.
- Make sure that you are pointing your remote control at the receiver's front panel.
- Check the batteries in your remote control.
- Make sure that the receiver is not exposed to direct sunlight.
- If these measures do not work the problem may be caused by a temporary transmission error, or some of your receiver's software settings may have been lost. Try switching off your receiver at the power source and switch it back on after a few seconds.

- Your decoder fails to descramble pay-tv channels

- If the error message says, card not activated, please contact your pay-tv service provider.
- Make sure your smart card is properly inserted into the slot. The chip should face downwards and the symbol of an arrow should point inwards.

HELP



Installation issues

Symptom	Solution
- You cannot find channels.	<ul style="list-style-type: none"> • If you are using a directional antenna, make sure it is pointing towards a digital TV transmitter and positioned correctly. • Make sure that it is possible to receive digital terrestrial signals in your area. • To properly receive the DVB-T2 High Definition signal, we recommend you use an outdoor roof top antenna. • Check that the antenna cable is connected correctly. • If these steps do not resolve the problem, you should call your vendor.

Audio and video issues

Symptom	Solution
- The picture on your TV screen changes color.	<ul style="list-style-type: none"> • Your receiver has lost some of its software settings. Switch your receiver off and then back on after a few seconds. If the problem persists, contact your vendor. • This may happen after a power-cut, or after your receiver has been disconnected from the power source.
- Blocks appearing in the picture on the screen.	<ul style="list-style-type: none"> • The signal is too weak or is defective, which could be due to bad weather conditions. Try adjusting the position of your antenna, or wait for the signal to be re-established.
- Your TV is blank or 'snow' appears on the screen.	<ul style="list-style-type: none"> • Make sure your TV is set to receive the signal from the appropriate input.

Audio and video issues

Symptom	Solution
- Your TV is blank or 'snow' appears on the screen.	<ul style="list-style-type: none"> • Your receiver may be in standby mode (if the LED on the front panel is red). Press the button to turn your receiver back to operation mode. • Alternatively some of the connections may have worked loose. Check that all the connections are made properly. Then turn the receiver off and after a few seconds turn it on again.
- There is no graphic on the screen and your receiver is connected with SCART cable.	<ul style="list-style-type: none"> • Please make sure that the picture resolution is set to 576i. Keep pressing  on the remote control unit of your i-CAN receiver until it switches on to 576i mode and the graphic appears..
- The picture appears to be either 'squashed' or cut off at the top and bottom of the screen.	<ul style="list-style-type: none"> • The Display Format in the Options menu has not been set to match your TV. Try a different setting.
- There is no sound.	<ul style="list-style-type: none"> • Check whether your receiver is in Mute mode. If it is, use your receiver's remote control and press the volume up button. • Check whether the volume on your receiver or TV is sufficiently high. Press the volume buttons on the remote control of your receiver or of your TV set. • Check that the receiver is properly connected to your TV or your sound system. Some connections may have worked loose.
- There is no stereo sound on your Hi-Fi system.	<ul style="list-style-type: none"> • Make sure that the HDMI cable and the SPDIF cable are correctly connected to the receiver and to the TV set.
- You cannot get the surround sound	<ul style="list-style-type: none"> • Make sure that the programme you are watching is broadcast in DOLBY SURROUND mode, indicated by the  icon • Check your SPDIF audio cable is well connected between your receiver and the Home Cinema central unit. • Check in the Menu - Settings - Audio Mode, that you have selected the surround sound audio option.

LIST OF CODES

These codes will help you to set up your i-CAN remote control so that it will control your TV set as well (see page 11).

Brand	Code
A	
A.R. Systems	0012
Acme	3521
Acura	0036
ADA	0038
ADC	0040
Admiral	0046
Adyson	0058
Agashi	0063
Agazi	3522
AGB	0064
Aiko	0069
Aim	0070
Aiwa	0072
Akai	0074
Akiba	0078
Akito	0082
Akura	0083
Alaron	0085
Alba	0086
ALBIRAL	3775
Alcyon	0093
Alkos	3523

Allorgan	0105
Allstar	0108
AMOi	0132
Amplivision	0138
Amstrad	0140
Anam	0146
Anglo	0151
Anitech	0154
Ansonic	0156
Apollo	0171
Arc en Ciel	0178
Arcam	0179
Arcam Delta	3524
Aristona	0192
Arthur Martin	0200
ASA	0202
Asberg	0205
Astra	0221
Asuka	0227
Atlantic	0233
Atori	0237
Auchan	0240
Audiosonic	0264
AudioTon	0266

Ausind	0276
Autovox	0280
Awa	0296
Ayomi	3525
B	
Baird	0311
Bang & Olufsen	0314
Basic Line	0325
Bastide	0327
Baur	0331
Bazin	0335
Beko	0346
Benq	0359
Beon	0361
Best	0364
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