

azur 540V

DVD receiver
User's manual

 *Cambridge Audio*

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INTRODUCTION

Congratulations on purchasing this Cambridge Audio Azur range DVD receiver. It is the result of our most extensive ever research and development program in over three decades of producing quality HiFi products. We hope that you will appreciate the results and enjoy many years of rewarding ownership.

A brief introduction to DVD and DVD Audio

DVD is well known for its extraordinarily large capacity and outstanding audio-video effects. Its capacity is as high as 4.7-17 GB (approximately 7-26 times the capacity of CD). With 500-line horizontal resolution of picture and Dolby Digital 5.1 Channel surround sound, it brings a new era to audio visual entertainment .

Using MLP Lossless from Dolby Laboratories, DVD-Audio discs can store up to six channels of 24-bit/96 kHz audio, including a separate low-frequency bass channel. Compare that to two channels of 16-bit/44.1 kHz sound from CD's! For stereo buffs, a DVD-Audio disc can alternatively hold two channels of 24-bit/192 kHz audio, exceeding the quality of any music audio format previously developed.

DVD-Audio discs can also add a visual element to your music. Discs can carry picture galleries, lyrics, notes, or any combination of still images, animation, and text. Producers and artists can even add audio commentary, similar to that found on many DVD-Video discs. And, as with DVD-Video, each DVD-Audio disc can also contain full-motion video, with accompanying Dolby Digital sound in up to 5.1 channels

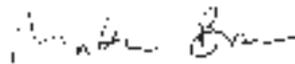
About this unit

The Azur DVD Receiver encompasses the most sophisticated picture reproduction, including the ability to reproduce a progressive scan image in both PAL and NTSC. This allows for a stunningly realistic picture on a suitably equipped television. The integrated amplifiers are able to create a powerful, lifelike sound without the need for additional boxes. The result is a capable yet discrete unit.

Sonically, the 540V adds DVD-Audio playback for the best possible musical performance in both multi channel surround and high quality stereo discs. Cambridge Audio has also worked hard to ensure that CD replay is excellent and up to the standards of the rest of the 540V.

To maximise the performance from this equipment we would encourage you to use only high quality viewing sources, and capable loudspeakers. We particularly recommend cabling from the Cambridge Audio range, which has been designed to the same exacting standards as the rest of our products.

Now we invite you to sit back, relax and enjoy!



Matthew Bramble
Technical Director

SAFETY PRECAUTIONS

Checking the power supply rating

For your own safety please read the following instructions carefully before attempting to connect this unit to the mains.

Check that the rear of your unit indicates the correct supply voltage. If your mains supply voltage is different, consult your dealer.

This unit is designed to operate only on the supply voltage and type that is indicated on the rear panel of the unit. Connecting to other power sources may damage the unit.

This equipment must be switched off when not in use and must not be used unless correctly earthed. To reduce the risk of electric shock, do not remove the unit's cover (or back). There are no user serviceable parts inside. Refer servicing to qualified service personnel. If the power cord is fitted with a moulded mains plug the unit must not be used if the plastic fuse carrier is not in place.

The lightning flash with the 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 to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the service literature relevant to this appliance.

This product complies with European Low Voltage (73/23/EEC) and Electromagnetic Compatibility (89/336/EEC) Directives when used and installed according to this instruction manual. For continued compliance only Cambridge Audio accessories should be used with this product and servicing must be referred to qualified service personnel.



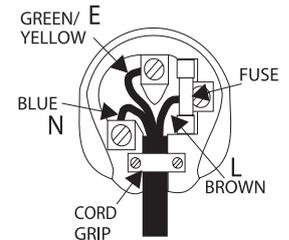
Plug fitting instructions (UK only)

The cord supplied with this appliance is factory fitted with a 13A mains plug fitted with a 5A fuse inside. If it is necessary to change the fuse, it is important that a 5A one is used. If the plug needs to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug must then be disposed of safely, as insertion into a 13A socket is likely to cause an electrical hazard. Should it be necessary to fit a 3-pin BS mains plug to the power cord the wires should be fitted as shown in this diagram. The colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug. Connect them as follows:-

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter 'N' or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter 'L' or coloured RED.

The wire which is coloured GREEN/YELLOW must be connected to the terminal which is marked with the letter 'E' or coloured GREEN.



If your model does not have an earth wire, then disregard this instruction.

INSTALLATION

Please take a moment to read these notes before installing your Azur DVD receiver, they will enable you to get the best performance and prolong the life of your unit.

This unit must be installed on a sturdy, level surface.

The unit requires ventilation. Do not situate it on a rug or other soft surface and do not obstruct any air inlets or outlet grilles.

Do not place in a sealed area such as a bookcase or in a cabinet. Any space open at the back (such as a dedicated equipment rack) is fine.

Never allow this unit to come into contact with water or other liquids and ensure that small objects do not fall through any ventilation grille. In either event, switch it off immediately, disconnect it from the mains supply and contact your dealer for advice.

Do not route the power cable so that it can be walked upon or damaged by other items near it.

Like all audiophile electronic components, this unit will subtly improve with some initial running in.

If you do not intend to use this unit for a long period, switch it off and unplug it from the mains socket.

To clean the unit, wipe its case with a moist, lint-free cloth. Do not use any cleaning fluids containing alcohol, ammonia or abrasives. Do not spray an aerosol at or near your DVD receiver.

This product is not user serviceable. If you have checked the troubleshooting guide at the back of the manual with no improvement, do not attempt to repair, disassemble or reconstruct the unit. A serious electric shock could result if this precautionary measure is ignored. In the event of a problem or failure, please contact your dealer.

USING THE REMOTE HANDSET

When you have unpacked your remote handset, insert the supplied AAA batteries to activate it. The remote can control all of the standard playback options but is also important in setting up your DVD player as many of the menus are most easily accessed from the remote.

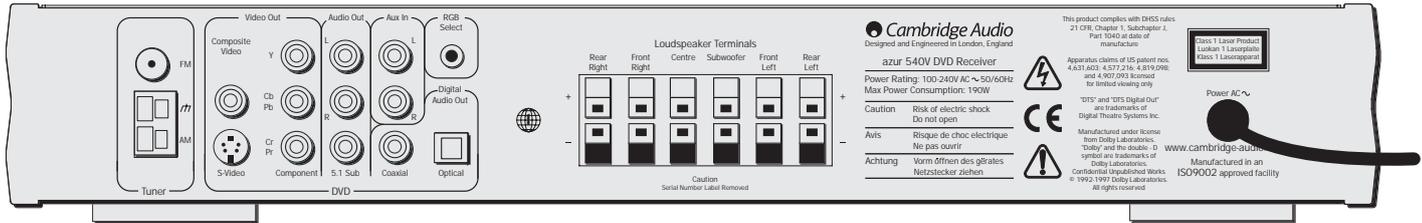
To navigate menus, the four cursor marked with arrows will move you around the menus and the SELECT button in the middle of them will access the item highlighted at the time. This applies to both the setup menus on the 540V and the menus on DVD discs themselves.

Note - The 540V remote control features separate Skip and Search buttons

The Skip buttons will skip between chapters/tracks on a DVD/CD whilst the Search buttons should be used to search within a chapter/track.



REAR PANEL CONNECTIONS



Video Connections (see page 8 for diagram)

The 540V is equipped with Composite (CVBS), S-Video (SVHS) and Component (YCbCr) Video connections. Progressive Scan is only available from the Component video output. These outputs are picture only. It is only necessary to use one video connection at any one time.

RGB through Scart (see page 9 for diagram)

It is possible to connect the 540V to a TV's Scart socket using the dedicated RGB Trigger to Scart cable available from Cambridge Audio, which is connected via the component video outputs (R,G and B) and the RGB Select socket.

Note - RGB output must be selected in the Set-Up menu (see page 13)

Audio Connections (see page 10 for diagrams)

Digital outputs - The 540V is equipped with an optical and a coaxial digital output. These allow for a digital soundtrack on a DVD disc to be sent to a suitably equipped AV receiver for decoding and amplification. This means that if you choose to upgrade to a separate receiver, the 540V can be used purely as a DVD player. Both outputs perform the same function- simply choose the type that best suits your needs.

Analogue outputs (audio out) - The 540V carries a stereo RCA (phono) output for connecting to a conventional stereo amplifier. This could be used for CD replay, for example. To listen to audio through your TV connect to the matching audio inputs on your TV. The subwoofer audio out is for the connection of an active subwoofer for use with 5.1 only.

Aux input - An additional stereo source component can be connected here for output through the 540V

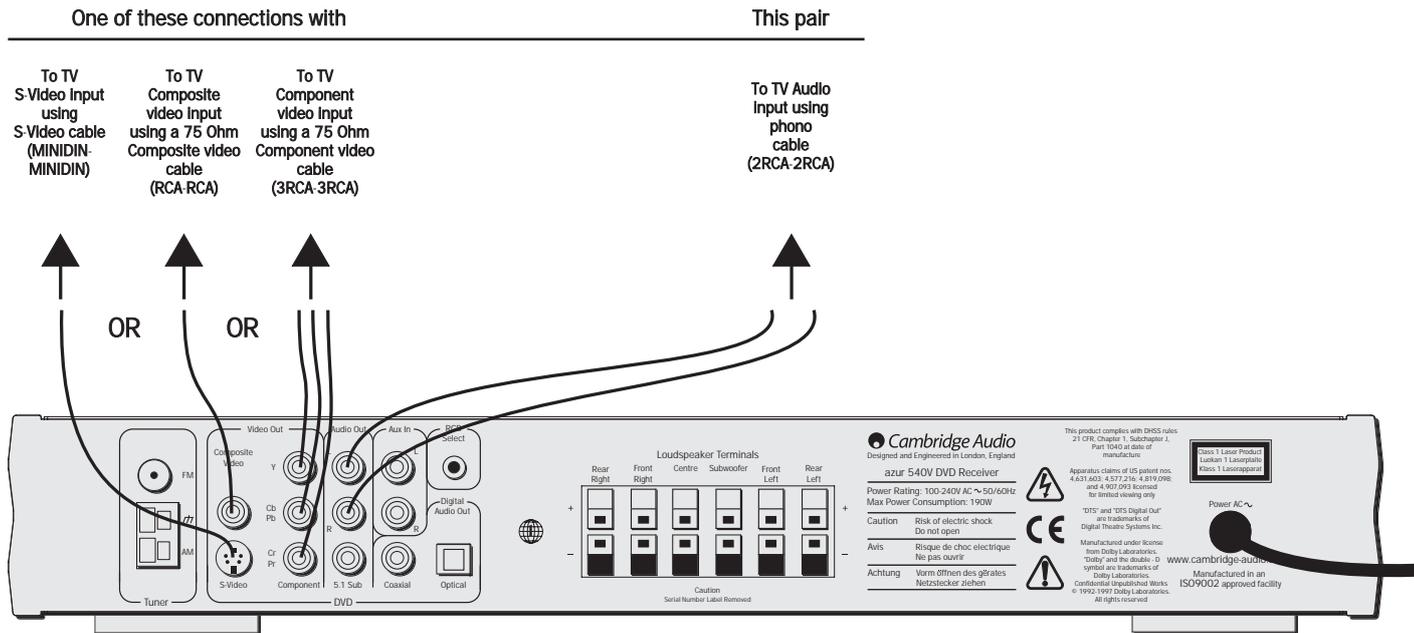
Speaker Terminals - The 540V has five surround speaker terminals and a passive subwoofer terminal (use the subwoofer audio out to attach an active subwoofer). Connect suitable loudspeakers using speaker cable to these terminals. The sound will be muffled and weak if the speakers are incorrectly wired. When stereo downmix is selected in the set-up menu only the front left and right loudspeaker terminals will be active.

Tuner Connection - The 540V carries an internal AM/FM tuner. The supplied aerials for satisfactory reception are connected here.

AC power socket

Once you have completed all connections to the amplifier, plug the AC Power Cable into an appropriate mains socket. Your DVD receiver is now ready for use.

Video Connections to a TV



If your TV has S-Video inputs, an S-Video interconnect can be used to connect this player. When the S-Video output is used the component video outputs cannot be used.

If the TV has a component video input, the component video output of

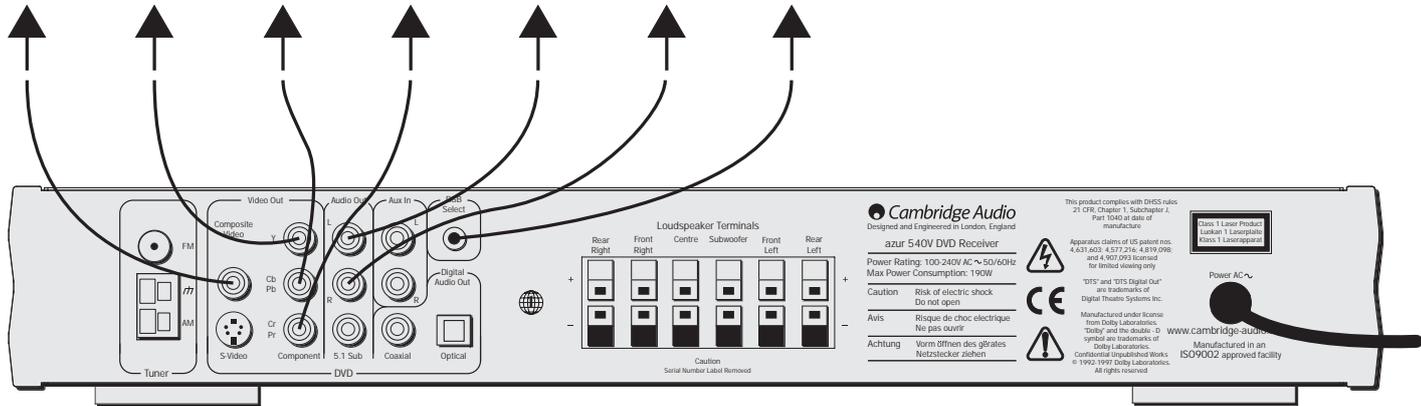
this player can be used. When the component video outputs are in use the S-Video output cannot also be used.

If the Audio Out of this player is connected to your TV, the Audio Out sockets should be connected to your TV's Audio In terminals.

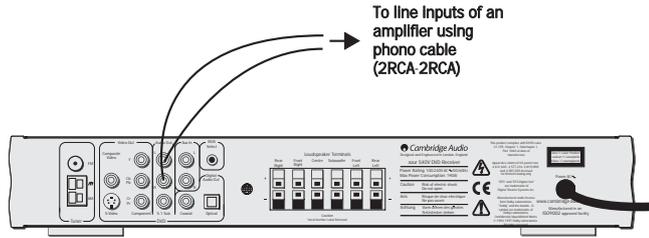
Video Connection to a TV's Scart socket using the dedicated Cambridge Audio RGB Trigger to Scart cable

To the Scart socket on a TV

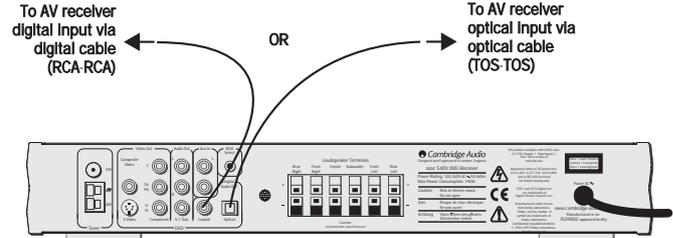
Yellow cable from Composite video out
Green cable from Component video out (Y)
Blue cable from Component video out (Pb)
Red cable from Component video out (Pr)
White cable from Left audio out
Black cable from Right audio out
Orange cable from RGB Select



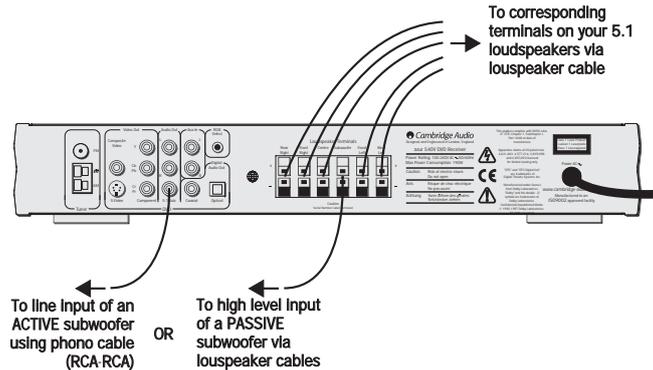
Audio connections to a two channel audio system



Audio connections to a separate AV receiver



Audio connections to a 5.1 loudspeaker setup



These connections are for audio only - retain chosen video connections

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Manufactured under license from Digital Theater Systems, Inc. or DTS (BVI) Limited.

FRONT PANEL CONTROLS

**Power**

Switches the unit on and off.

Function

Switches between disc play, the internal FM tuner and the aux input.

Band

This changes between FM and MW reception.

DVD Skip/ Tuning -/+

These buttons control both skipping through chapters on a DVD disc (or tracks on a CD) and tuning up and down on the two tuner bands.

Open/Close

Opens and closes the disc tray. The disc will begin loading when the tray is closed. Pressing Play will also close the tray and start the Disc.

Play/Pause

Plays the disc and pauses play.

Stop

Stops the Disc playing. If Play is pressed shortly afterwards, the DVD will resume play in the place where it was stopped. A Compact disc will stop and a message will appear on screen 'Press PLAY to continue'. Press stop again to access the full setup menu. Playback will resume where the disc was stopped.

Note - The Preference page in the Setup menu can only be accessed if resume is cancelled (Press Stop twice).

Volume

This adjusts the output of any attached loudspeakers when playing either DVDs or CDs.

Note - If the volume on the 540V is set to zero the stereo and subwoofer outputs will be muted.

SOME NOTES ON LOUDSPEAKERS

The 540V has five surround speaker terminals and connections for an active or a passive subwoofer. Your speaker manual will give more ideas about placement but the diagram above is an example of placement for a standard 5.1 system.



1. **Front left and right loudspeakers** - These should be placed equidistant to the left and right of your screen far enough apart to ensure good stereo imaging. If they are too far apart or too close to the corners of the room they will sound distracting and distant. It may be desirable to experiment with the 'toe-in' of the units (angling them towards the listening position) to optimise the front speaker soundstage and imaging.
2. **Centre channel loudspeakers** - Ideally your centre channel loudspeaker needs to be positioned directly above or below your screen, facing the listening position.

3. **Surround left and right loudspeakers** - Surrounds should be situated roughly at listening height and facing into the listening position. It is suggested that they are wall mounted or alternatively placed on suitable speaker stands.
4. **Subwoofer** - The location of any dedicated subwoofer will greatly affect the quantity and also the quality of the low frequencies. Please see your subwoofer manual for detailed positioning information.

Connection

Connect the positive (red) to positive and negative (black) to negative on all loudspeakers. Try to keep lengths of cabling approximately equal for the front and rear "pairs" of speakers to keep resistance equal on the 540V.

Connection of your subwoofer depends on whether it is active (ie powered with its own mains supply) or passive (connected only by speaker wire). If your subwoofer is active, connect it via the 'subwoofer audio out' phono plug by a single phono to phono cable. If it is passive, it should be connected by speaker cable to the 'subwoofer loudspeaker terminals'.

OPERATING INSTRUCTIONS - THE DVD MENU DISPLAY

All of these menus are accessed from the blue Cambridge Logo screen that appears when the DVD player is on with no disc in the tray. Pressing the MENU button on the remote brings up the DVD menu display. It is accessed by the cursors and select button in the centre of the remote.

General Setup

TV Display: Allows you to alter between 16.9 widescreen and 4.3 conventional image.

OSD Lang: Alters the language that the menu will appear in.

SCART: This switches the component video outputs between component and RGB. RGB can only be used with the dedicated Cambridge Audio RGB Trigger to Scart cable.

Screensaver: If the DVD is left on and inactive, it will switch to a screensaver to minimise energy consumption and screen burn. It can be switched off here.

AM Step Controls the increments in which the AM band is scanned.

Speaker Set Up

Downmix: Switches between a 5.1 analogue output, a dual mono (LT/RT), a virtual surround (where a "surround" effect is created from two speakers) and a stereo signal from the stereo analogue output.

Front, Centre and Rear Speaker Settings: adjusts the DVD decoder to compensate between large and small speakers and the size of the signal it sends to the subwoofer.

Channel Delay: Allows the distance between the listening position and the centre, subwoofer, rear left and rear right speakers to be individually set (in cm). This is to enable the surround sound to be optimised for different listening room sizes and shapes.

Audio Setup Page

SPDIF output: Switches the digital audio section of the decoder/output between bitstream (Raw) and uncompressed stereo digital out (PCM). The bitstream (Raw) must be selected to enable surround sound (Dolby digital/DTS) to be sent to the decoder and the audio digital output (coaxial or optical). If a only a stereo speaker system is to be used then it is only necessary to set this option to PCM, then only two channels of information are decoded and sent to the stereo audio outputs (and the coax/optical digital audio output).

LPCM Out: This sets the maximum data rate for the digital audio output (not the actual data rate) for connection to an external decoding amplifier. The internal decoder will downsample if the recorded material has a higher audio data rate although it will not upsample if the recorded material has a lower audio data rate.

Pro-Logic II: When switched on Dolby Pro-Logic II allows a surround effect from a stereo source. The settings are as follows:

On/Off - Switches PLII on and off.

Mode - Switches between Dolby Pro-Logic II music and Dolby Pro Logic II movies.

Panorama - This is an additional setting that adds additional space and depth to the Pro Logic II settings.

Dimensions - This sets speaker sizes for Pro Logic II- it is independent of your other speaker settings.

Centre Width - allows you to artificially increase the width of your front speakers by means of delay.

Dolby Digital setup/Dynamic: This allows the adjustment of the Dynamic compression applied to the audio. This can be useful when listening to action films (large dynamic range between talking and explosions) late at night. When set to maximum this will force the quiet and loud parts of the signal to a similar level.

Channel Trim: Allows adjustment of the decoder levels for each individual channel in turn to optimise audio setup.

Please note that all adjustments made to level and delay in the Audio Setup Page ONLY affect the speaker and decoder outputs. The digital outputs are unaffected by these adjustments.

Video Setup Page

The various settings on this screen are all concerned with fine tuning your DVD picture. You can adjust settings here whilst leaving the television settings as they are.

Preference Page (*only accessible when resume is cancelled and a disc is in the player*).

TV Type - The DVD player can be set for either a European PAL television or an NTSC unit. Alternatively AUTO will allow the DVD to adjust automatically.

PBC - This setting allows chapter skip during VCD playback.

Audio Setting - Setting a particular language here will mean the DVD will automatically look for that dialogue on any DVD inserted into the machine.

Subtitle - Setting a particular language here means that the DVD will look for this particular language. Setting it to the same as the Audio setting will cancel the subtitles out. Press the button on the remote to restore same language subtitles.

Disc Menu - This allows the language to be changed on the Scene selection/Special features menu where permissible by the disc.

Parental - Adjusting this blocks films above a set classification level (ie PG13) from playing on the player if children are using it if you wish.

Password - For editing the above settings. The password default is 7890 and can be changed by correctly entering the default followed by your new password.

Default - This will restore all of the original factory settings if required.

OPERATING INSTRUCTIONS

Loading and unloading discs

1. Press the Power button.
2. Press the Open/Close button.
3. When the disc tray has opened fully, place a disc carefully in the tray with the label side facing up.
4. To close the disc tray, press the OPEN/CLOSE button again. When the tray with a correctly loaded disc is fully closed, the disc will start turning automatically. After the DVD player has read the disc it will start to play. Pressing PLAY will also close the tray and start playing the disc.
5. The disc tray can be opened at any time by pressing the OPEN/CLOSE button. Only remove the disc after the tray has fully opened

Note

Do not put anything except a DVD/CD sized disc into the tray, foreign objects may damage the mechanism.

Do not force the tray by hand during the opening and closing operations.

To avoid dirt and dust entering the mechanism, keep the disc tray closed.

If the Disc is seriously scratched or too dirty the 540V may not be able to read it or play it.

Never load more than one disc into the disc tray at one time.

Normal disc play

1. Switch on your television reduce the volume control to a minimum.
2. Press the Power button. Most televisions will automatically switch to the channel/input that the DVD is connected to.
3. Press the Open/Close button to open the disc tray, and load a disc.
4. Press the Open/Close button again to close the tray. The DVD player will read the disc and begin to load. Alternatively, pressing Play will close the tray and start playing the disc. The disc will automatically start playing.
5. The DVD disc should load to the opening menu (where scene selection, sound/special features can be accessed). Some discs will begin playing the film but can be returned to the menu by pressing the Menu button. Bring the volume up to the desired level.
6. To stop the disc at any point, press the Stop button. Pressing the Play button on the front of the DVD player while the disc is playing will pause the disc. Pressing play on the remote will have no effect as there is a separate pause button. When the disc is paused the display will flash, play can be resumed by pressing the PLAY button again.

During playback, pressing the "INFO" button on the remote control will switch the DVD player to a screen showing the film playing in an insert with information on the bitrate, chapters and playing time shown below. Pressing the "INFO" button again will revert back to normal playback.

When the DVD has finished playing, it will cycle back to the start menu, a CD will return to standby mode. If the REPEAT button has been pressed, the DVD player will start the film or CD again.

Locating a specific point in the DVD

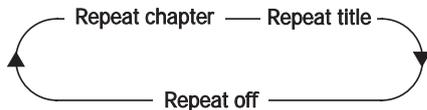
Start the disc as mentioned in the previous chapter. It is often possible to locate the point that you wish to view through the Chapter/Scene Selection on the disc menu that is navigated by the cursor keys. These chapters can be accessed by the skip buttons on the remote or on the front panel of the player.

It is also possible to search within the chapter using the Search buttons on the remote control handset. Pressing the Search button repeatedly will speed the playback up from 2x through 32x speed. This can also be done in reverse



Repeating discs and tracks

1. Ensure that the disc is playing.
2. Each press of the REPEAT button scrolls through the available options displayed on your TV screen.

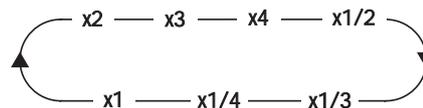


It is also possible to repeat a favourite point of a CD/DVD disc by using the A-B function. Pressing the button once "marks" the beginning of the section you wish to repeat, pressing it again "marks" the end. The player will now repeat this section of the disc.

Note: This function is unavailable on certain discs.

Zoom

1. When playing a disc, press the Zoom button repeatedly to zoom into a specific area of the TV screen display.



TROUBLESHOOTING

There is no power

Ensure the AC power cord is connected securely.
 Ensure the plug is fully inserted into the wall socket and is switched on.
 Check fuse in the mains plug or adaptor.

The player will not read the disc

Check the disc is not loaded upside down.
 Check that the disc is not too scratched or dirty.

There is no sound

Ensure that the correct input is selected.
 Check that the interconnects are inserted correctly.
 Check all loudspeaker connections

The disc is skipping

Check that the disc is not too scratched or dirty.
 Ensure the player is on a firm surface and not subject to vibrations.

There is a hum coming from the loudspeaker

Ensure that all cable connections are secure.

The remote handset will not function

Check that the batteries have not expired.
 Ensure that nothing is blocking the remote sensor.

SPECIFICATIONS

Disc types	DVD, DVD-A, DVD-V, Mp3, CD-RW, CD-R, CD-DA, Kodak picture CD
Audio formats	5.1 and stereo downmix LPCM 16 bit 44.1kHz Dolby Digital 5.1 24 bit 96kHz Dolby Pro Logic II DTS 5.1 24 bit 96kHz DVD audio 2 channel 24 bit 192kHz DVD audio 5.1 (MLP) 24 bit 96kHz
Video	Composite Video (CVBS) S-Video (SVHS) RGB (through dedicated Scart only) Component (YCbCr) PAL/NTSC Interlaced/Progressive scan
Frequency response	5Hz - 40kHz
Video amplitude	1.0V pk-pk (75 ohms)
S-Video amplitude	Y: 1.0V pk-pk n (75 ohms) C: 0.286V pk-pk (75 ohms)
Power supply	100-240V AC ~50/60Hz
Max power consumption	190W
Amplifier power output	25W (into 4Ω), 20W (into 8Ω)
5.1 subwoofer output	350mV
Amplifier THD (unweighted)	1kHz < 0.15%
S to N ratio (Aux In weighted)	80dB
Dimensions (mm) (H x W x D)	70 x 430 x 380
Weight (kg)	4.6

LIMITED WARRANTY

Cambridge Audio warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). Cambridge Audio will repair or replace (at Cambridge Audio's option) this product or any defective parts in this product. Warranty periods may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the Cambridge Audio authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Cambridge Audio product, it can be returned by your dealer to Cambridge Audio or an authorised Cambridge Audio service agent. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Cambridge Audio authorised dealer. You may call Cambridge Audio or your local country Cambridge Audio distributor to confirm that you have an unaltered serial number and/or you purchased from a Cambridge Audio authorised dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Cambridge Audio or a

Cambridge Audio dealer, or authorised service agent which is authorised to do Cambridge Audio warranty work. Any unauthorised repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

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Some countries and US states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other statutory rights, which vary from state to state or country to country.



azur 540V

DVD receiver

Users' manual

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