azur 540R V2.0

AV receiver

User's manual



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INTRODUCTION

Thank you for purchasing this Cambridge Audio Azur range AV receiver. This 540R version 2 is part of our commitment to the on-going development of the Azur range. We hope that you will appreciate the results and enjoy many years of listening pleasure from it.

About the 540R V2.0

The 540R V2.0 is designed to maximise multi-channel performance without compromising on stereo reproduction. As such, the six 80W discrete amplifiers are kept as separate as possible from the processing and input stages. An oversized power supply ensures that the 540R V2.0 can maintain a high power output into even difficult speaker loads to ensure a powerful and effortless sound.

For this V2.0 model we have fitted an improved volume control IC, larger PSU capacitors and made various improvements to the circuitry further elevating the sound quality of the unit. The Video switching has also been completely re-designed to give higher bandwidth compatible with HDTV and the unit now features full On Screen Display.

A full range of digital and analog inputs are fitted to the 540R V2.0. Digital inputs allow for the connection of suitably equipped DVD players. satellite boxes and games consoles for decoding into stereo or digital surround formats. Conventional analog stereo inputs allow the connection of CD players and the like to ensure the best possible stereo reproduction. The 540R V2.0 is also capable of decoding analog stereo sources in Dolby Pro Logic® II and DTS Neo:6, for a convincing and effective surround experience from an analog source. This ensures sources such as analog televisions and VCRs can also make full use of the 540R V2.0's surround capabilities.

In addition, the 540R V2.0 also carries a 6.1 channel analogue input. This feature allows for the connection of a DVD Audio or SACD player equipped with a 5.1/6.1 output. This means that the 540R V2.0 is fully equipped to make the most of these exciting new music formats.

As well as the full complement of audio inputs, the 540R V2.0 also performs Composite. S-Video and Component Video switching. This means that the 540R V2.0 can be used as a hub to route video signals in addition to the audio ones.

All this proprietary engineering is housed within our low resonance, acoustically damped chassis. An Azur Navigator remote control is also provided, giving full remote control of your AV receiver in an attractive and easy to use handset.

Your 540R V2.0 can only be as good as the system it is connected to. Please do not compromise on your speakers or cabling. Naturally we particularly recommend DVD/CD players or other source equipment from the Cambridge Audio Azur range, which have been designed to the same exacting standards as our receivers. Your dealer can also supply excellent quality Cambridge Audio interconnects to ensure your system realises its full potential.

Thanks for taking the time to read this manual, we do recommend you keep it for future reference.

Matthew Bramble

Angle Bran

Technical Director

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.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. CAMBRIDGE AUDIO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY IN THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

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.

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. Should you lose the fuse carrier the correct part must be reordered from your Cambridge Audio dealer.

The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated '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.



The crossed-out wheeled bin is the European Union symbol for indicating separate collection for electrical and electronic equipment. This product contains electrical and electronic equipment which should be reused, recycled or recovered and should not be disposed of with unsorted regular waste. Please return the unit or contact the authorised dealer from whom you purchased this product for more information.



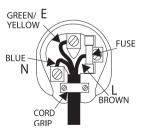
Plug Fitting Instructions (UK Only)

The cord supplied with this appliance is factory fitted with a UK mains plug fitted with a 5 amp fuse inside. If it is necessary to change the fuse, it is important that a 5 amp 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 mains 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 GREEN/ E 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.

If a standard 13amp (BS 1363) plug is used, a 5 amp fuse must be fitted, or if any other type of plug is used a 5 amp fuse must be fitted, either in the plug or adaptor, or on the distribution board.

IMPORTANT SAFETY INSTRUCTIONS

Please take a moment to read these notes before installing your 540R V2.0, as they will enable you to get the best performance and prolong the life of the unit. Please retain these instructions for future reference.

Ventilation

IMPORTANT - The unit will become hot when in use. Please ensure that there is ample ventilation around the unit. Leave at least 10cm of space between the top, back and sides. Do not situate it on a rug or other soft surface and do not obstruct the air inlet and outlet grilles on the underside and top cover. Do not place in an enclosed area such as a bookcase or in a cabinet.

Positioning

Choose the installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibration and excessive dust, cold or moisture. Do not place the unit on an unstable surface or shelf. The unit may fall, causing serious injury to a child or adult as well as serious damage to the product. Do not place a CD player or other equipment on top of the unit.

This unit must not be exposed to dripping or splashing water or other liquids. No objects filled with liquid, such as vases, shall be placed on the unit. In the event, switch off immediately, disconnect from the mains supply and contact your dealer for advice.

Ensure that small objects do not fall through any ventilation grille. If this happens, switch off immediately, disconnect from the mains supply and contact your dealer for advice.

Electronic audio components have a running in period of around a week (if used several hours per day). This will allow the new components to settle down, the sonic properties will improve over this time.

Grounding and polarisation

The unit may be equipped with a polarised alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarised plug. (North America Only)

Power sources

The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power-supply to your home, consult your product dealer or local Power Company.

This unit has been designed to be left in Standby mode when not in use, this will increase the life of the amplifier (this is true with all electronic equipment). If you do not intend to use this unit for a long period of time, unplug it from the mains socket.

Power cord protection

Your power supply cord should be placed so that the power lead is not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at wall plugs and where the power lead exits from the unit.

Be sure to insert each power cord securely. To prevent hum and noise, do not bundle the interconnect leads with the power cord or speaker leads.

Overloading

Do not overload wall outlets or extension cord as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, fraved power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard.

Lightning

For added protection during a thunderstorm, or when it is left unattended and unused for long period of time, unplug the unit from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit from lightning and power-line surges.

Outdoor antenna grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NIPA No. 70-1984 (section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Cleaning

Unplug the unit from the wall outlet before cleaning. To clean, 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 the unit.

Attachments

Do not use attachments not recommended by your dealer as they may cause harm to the unit.

Servicing

These units are not user serviceable, never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem. A serious electric shock could result if this precautionary measure is ignored. In the event of a problem or failure, please contact your dealer.

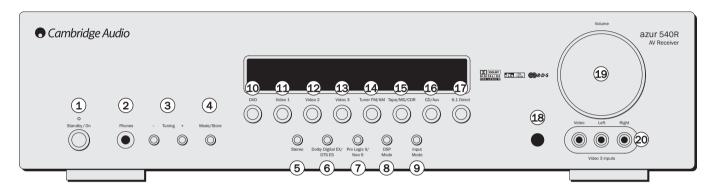
Contact the service department should any of these conditions occur:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the amp.
- If the unit has been exposed to rain or water.
- If the unit does not operate normally after following the operation instructions, adjust only those controls that are covered by the operation instructions.
- If the unit has been dropped or damaged in any way.
- When the unit exhibits a distinct negative change in performance.

IMPORTANT

If the unit is run at a very high level, a sensor will detect a temperature rise and show "PROTECTION OVERLOAD" on the display. The unit will then go into Standby mode. It cannot be switched on again until the temperature has fallen to a more normal level.

FRONT PANEL CONTROLS



1 Standby/On

Switches the unit between Standby mode (indicated by dim power LED) and On (indicated by bright power LED). Standby is a low power mode where the power consumption is less than 10 Watts. The unit should be left in Standby mode when not in use.

2 Phones

Allows for the connection of stereo headphones with a ½" Jack plug. Headphones with an impedance of between 32 and 600 ohms are recommended.

3 Tuning +/-

Used to tune FM frequencies and skip presets in Tuner mode.

4) Mode/Store

Press to cycle between Tuner modes (refer to the 'Operating Instructions' of this manual for more information).

(5) Stereo

Press to listen to a source in either analog stereo or digital (LPCM) stereo (depending on the input mode) from the front left and right loudspeakers only.

(6) Dolby Digital EX / DTS ES

Press to select between various standard Dolby Digital or DTS surround 5.1 modes (with suitably encoded digital source material). Also selects extended Dolby Digital EX and DTS ES modes which provide 6.1 output with suitably encoded EX/ES material. These modes can only be decoded from digital audio sources (via Coaxial or Optical inputs). An Autodetect mode is also available which allows the 540R V2.0 to automatically set itself to the appropriate mode for digital material.

Pro Logic II / Neo:6

Press to decode suitable encoded analog stereo source material into surround sound. Autodetection for these modes is not possible and they must be manually selected.

DSP Mode

The 540R V2.0 can create a surround sound effect even from nonencoded material by Digital Signal Processing (DSP). Press this button to choose one of the following surround sound effects: THEATER, HALL, MOVIE, MUSIC or ROOM.

Input Mode

Press this button to toggle between analog or optical/coaxial digital input types for the currently selected source. The 540R V2.0 remembers the input type selected for each source when you return to that source.

10 DVD

Press to select the DVD source equipment for output through the 540R V2.0.

11 Video **1**

Press to select the source equipment connected to Video 1 for output through the 540R V2.0.

(12) Video 2

Press to select the source equipment connected to Video 2 for output through the 540R V2.0.

(13) Video 3

Press to select the source equipment connected to Video 3 (on the front panel) for output through the 540R V2.0.

14) Tuner FM/AM

Press to select the tuner for output through the 540R V2.0. In Tuner mode also use this button to switch between FM and AM modes.

15 Tape/MD/CDR

Press to select the recording device connected to the Tape/MD/CDR input for output through the 540R V2.0.

16 CD/Aux

Press to select the CD or other source equipment connected to CD/Aux on the rear panel for output through the 540R V2.0.

(17) 6.1 Direct

Press to select a 5.1 or 6.1 DVD-A or SACD player connected to the 6.1 Direct In sockets.

(18) Infrared sensor

Receives IR commands from the supplied Azur remote control. A clear unobstructed line of sight between the remote control and the sensor is required.

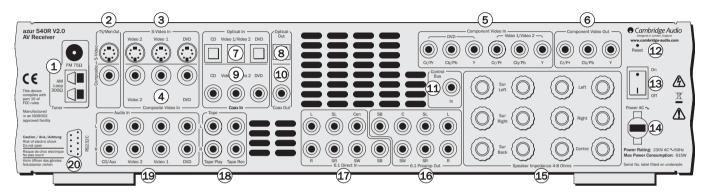
19 Volume

Use to increase/decrease the level of the sound from the outputs of the 540R V2.0.

20 Video 3 input sockets

Allows a video camera recorder/video games console to be connected and selected by the Video 3 source button.

REAR PANEL CONNECTIONS



FM/AM antenna

All tuner antenna connections are made here. Refer to the 'Antenna Connections' section of this manual for more information.

TV/Mon outputs

S-Video - Connect to your television via S-Video cable to display the picture of any S-Video connected unit.

Composite - Connect to your television via RCA phono cable to display the picture of any composite video connected unit.

These outputs are also used to view the 540R V2.0's on-screen setup menu.

S-Video inputs

Connect the S-Video outputs from the source equipment.

Composite Video inputs

Connect the Composite Video outputs from the source equipment.

Component Video inputs

Connect the Component Video outputs from the source equipment.

Note: The preferred connection method for video sources is always Component Video (highest quality) then S-Video then Composite Video. DVD Component Video sources often also support Progressive Scan which gives better picture quality if supported by both your DVD player and TV.

(6) Component Video Out

Connect to the Cr/Pr, Cb/Pb, & Y terminals of a television set.

Note: There is no on-screen setup menu present on the Component Video outputs.

7 Optical In

Connect to the digital optical (Toslink) outputs from source equipment.

(8) Optical Out

Connect to the digital optical (Toslink) input of an external recording device (eg MD/CDR etc) to record from the selected digital audio source.

Coax In

Connect to the digital coaxial (SPDIF) outputs from source equipment.

10 Coax Out

Connect to the digital coaxial (SPDIF) input of an external recording device (eg MD/CDR etc) to record from the selected digital audio source.

(11) Control Bus In

Allows un-modulated commands from multi-room systems or other components to be received by the 540R V2.0.

(12) Reset

Resets all factory default settings. Refer to the 'Reset/Back-up memory' section of this manual for more information.

(13) Power On/Off

Switches the unit on and off.

(14) Mains power lead

Once you have completed all connections, plug the AC power lead into an appropriate mains socket. The AV receiver is now ready for use.

15 Speaker terminals

Connect to loudspeakers with an impedance of between 4-8 ohms.

16 6.1 Preamp Out

Connect to the 6.1 (or 5.1) channel input terminals of another amplifier system, separate power amps, subwoofer or active loudspeakers.

(17) 6.1 Direct In

Connect to the 6.1 (or 5.1) channel output terminals of a DVD player with built-in surround sound decoding for playing DVD-A or SACD.

18 Tape

Connect the Tape Play sockets to the line output terminals of a Tape deck, MD player, CD-R etc. Connect the Tape Rec sockets to the line input terminals of a Tape deck, MD player, CD-R etc.

19 Audio inputs

Connect to the audio line output terminals of a source device (eg CD. DVD player etc).

20 RS232C

For use by an installer/dealer for software updates.

REMOTE CONTROL

The 540R V2.0 is supplied with an Azur Navigator remote control. Insert the supplied AAA batteries to activate. For full details of the various adjustment functions available from the remote, refer to the later sections of this manual.

Standby/On

Switches the unit between On and Standby mode.

Input Mode

Switches the 540R V2.0 between analog and digital inputs for the currently selected source.

Stereo, PLII/NEO 6, DD EX/DTS ES, DSP Mode

See button details as listed in the 'Front Panel Controls' section.

Dynamic

Press repeatedly to reach the desired dynamic compression range (Dolby Digital mode only).

I FF Trim

Press to access the Low Frequency Trim (subwoofer) mode.

Test Tone

Press to access the test tones to balance your surround sound speakers.

CH Select

Stareo PLII Nea 6

Test Tone CH Select

Sub 0s/0ff

SPK Setup

(BSP Mode) Dynamic (LFE Trim)

(Delay)

(B)

Press to select individual channels, then use volume to balance speakers.

Sub On/Off

Press to turn on/off the output of the subwoofer.

Delay

Press to set the delay times when setting up surround sound speakers.

SPK Setup

Press to change the surround sound speaker settings.

On-screen Display (OSD)

Press to access an on-screen set-up menu when connected to a monitor/screen via composite or S-video connections.

(M) Mute

Mutes the audio on the AV Receiver. The mute mode is indicated by the channel LED flashing. Press again to cancel mute.

Volume

Increase or decrease the volume of the AV receiver output. Also used as up/down in the OSD setup menu.

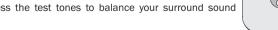


(tides 3) (Tape (D) Aux

Bass Treble 6.1 Direct

Stareo Stare (ND) (Vdoo 1) (Vdoo 2)

APS Display







(◄) (►) Tune

Press the right arrow to increase tuner frequency/change preset. Press the left arrow to decrease tuner frequency/change preset. Also used to scroll left/right in the OSD setup menu.

Enter

Used in the OSD setup menu.

6.1 Direct

Selects the 5.1/6.1 Direct input.

Bass Treble

Press for bass/treble adjustment, using the Volume up/down buttons.

PTY (Program Type Search)

Press to search by program type when in Tuner mode.

APS (Auto Program Search)

Allocates and memorises radio stations automatically.

Display

When listening to source equipment press to view the input type (optical/coaxial or analog). When listening to FM with RDS, press to view station information.

Stereo Mono

When listening to FM, press to alternate between stereo and mono modes.

Store

Press to store the current frequency when in Tuner mode.

Mode

Press to select Auto/Manual or Preset tuning when in Tuner mode.

Tuner FM/AM, DVD, Video 1, Video 2, Video 3, Tape MD/CDR, CD Aux

Press the corresponding button to change the input source. Pressing the Tuner AM/FM button a second time toggles between FM and AM modes.

Please refer to the 'Operating Instructions' section of this manual for more information on some functions of these buttons.

SURROUND SOUND MODES

The 540R V2.0 has several music and home-cinema listening modes available, all designed to reproduce "surround sound" effects, dependant on the input signal and speaker setup:

Stereo

Only the Front Left and Front Right speakers (and subwoofer if selected) have output in this mode. If an analog source is selected you will be listening to pure analog stereo with no digital signal processing. If a digital source is selected the 540R V2.0 will act as a digital to analog converter and play back stereo LPCM as output by CD players etc.

Dolby Digital (5.1)

Provides (up to) 5.1 output from suitable encoded Dolby Digital material using 5 main speakers (Left Front , Right Front , Centre, Left Surround, Right Surround) and a subwoofer. Decoding Dolby Digital requires a Dolby Digital encoded DVD disc and a digital connection from the 540R V2.0 to the source equipment (Such as a DVD player).

DTS (5.1)

DTS also provides (up to) 5.1 output from suitable encoded DTS material using 5 main speakers (Left front , Right front , Centre, Left Surround, Right Surround) and a subwoofer. Decoding DTS requires a suitably encoded DTS disc and a digital connection from the 540R V2.0 to the source equipment.

Dolby Digital EX (6.1)

An enhanced form of Dolby Digital, DD EX provides an extra channel (Surround Back) for greater image depth and more solid sound localisation behind the listener. DD EX requires a DD EX encoded disc.

DTS-ES Discrete (6.1)

An enhanced form of DTS, ES provides an extra channel (Surround Back)

for greater image depth and more solid sound localisation behind the listener. All channels are discretely encoded digitally for the best possible surround sound effect. DTS-ES Discrete requires a DTS-ES Discrete encoded disc

DTS-ES Matrix (6.1)

Another enhanced form of DTS, ES Matrix also provides an extra channel (Surround Back) but instead the extra channel is inserted into the left and right surround channels in a matrix process. DTS-ES Matrix requires a DTS-ES Matrix encoded disc.

Pro Logic II

A newer version of Dolby Pro Logic which is able to recreate 5.1 surround sound from suitable encoded analog source material. The source material is stereo (and can be played as such) but also has special encoding that allows the 540R V2.0 to decode a 5.1 surround sound output. There are 5 standard modes: Movie, Music, Virtual, Pro Logic Emulation and Matrix.

DTS Neo:6

A DTS technology which is able to recreate 6.1 surround sound from suitable encoded analog source material. The source material is stereo (and can be played as such) but also has special encoding that allows the 540R V2.0 to decode a 6.1 surround sound output. There are 2 standard modes: Cinema and Music.

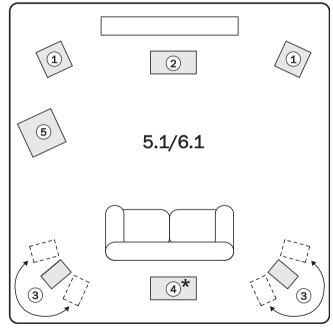
DSP modes

These modes allow a realistic surround-sound experience from source material that has no encoding at all. The surround sound effect is achieved by Digital Signal Processing of the Analog or Digital stereo source used. Five modes are possible: Theater, Hall, Movie, Music and Room.

LOUDSPEAKER POSITIONING

The diagram shows a typical example of a 5.1/6.1 loudspeaker setup. Always adjust the speaker and listening positions until you are happy with the sound. Please refer to the loudspeaker and subwoofer manuals for more detailed positioning information.

- (1) Front Left and Right speakers For stereo and multi-channel sound. Angle towards the listening position.
- (2) Centre speaker For dialogue and centre sounds. Position at a similar height to the front left and right speakers (above or below the TV/monitor). Using a centre speaker from the same manufacturer/range as used used for the front left and right speakers is advisable. This "timbre matching" allows surround effects to flow more naturally from left to right without obvious transitions between the speakers.
- (3) Surround Left and Right speakers For ambient and multi-channel sound. Floorstanding speakers should be angled towards the listening position. Bookshelf/standmount speakers should be wall mounted or used with dedicated speaker stands, positioned at or above ear height. To set the required delay between speakers for surround sound modes. please refer to the 'Surround Sound Setup' section of this manual.
- (4) Surround Back speaker Optional sixth channel speaker, required for enjoying Dolby® Digital EX or DTS®-ES audio. Improves the quality of sound effects by filling the gap between the surround left and rear right speakers. Position the speaker firing towards the front of the room.
- (5) Subwoofer For improving the bass in your system, as well as reproducing LFE cinema effects when playing Dolby Digital or DTS encoded discs. Your subwoofer can often be placed almost anywhere in the room as bass is less directional, but experimentation with positioning is recommended.



* Optional "6th" speaker

LOUDSPEAKER CONNECTIONS

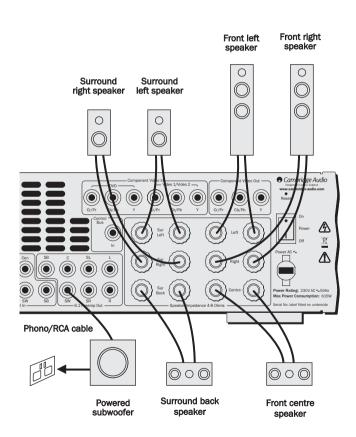
To avoid damaging the speakers with a sudden high-level signal, be sure to switch the power off before connecting the speakers. Check the impedance of your speakers. Speakers with an impedance of between 4 and 8 ohms (each) are recommended.

The coloured speaker terminals are positive (+) and the black speaker terminals are negative (-). Make sure correct polarity is maintained at each speaker connector or the sound can become weak and "phasey" with little bass.

Prepare the speaker cords for connection by stripping off approximately 10mm (3/8") or less (no more than 10mm, as this could cause a short-circuit) of the outer insulation. Twist the wire tightly together so there are no loose ends. Unscrew the speaker terminal knob, insert the speaker cable, tighten the knob and secure the cable.



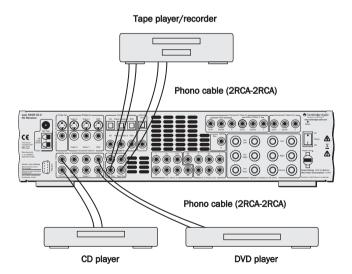
Note: All connections are made via loudspeaker cable, except if using an active subwoofer which would be connected via a standard RCA phono cable. Banana Plugs (4mm standard) connected to the speaker cable are recommended for direct insertion into the speaker terminals.



AUDIO CONNECTIONS

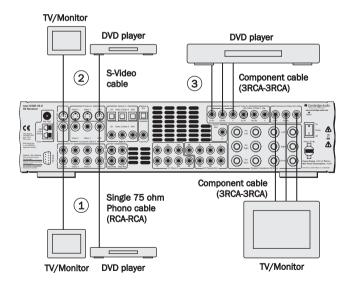
Note: Do not plug in the mains power lead or turn the unit on until all connections have been made.

Connect to source equipment using stereo phono cables (stereo 2RCA-2RCA). Tape/MD/CDR recorder/players require two sets of stereo phono/RCA cables, one for recording, one for listening.



VIDEO CONNECTIONS

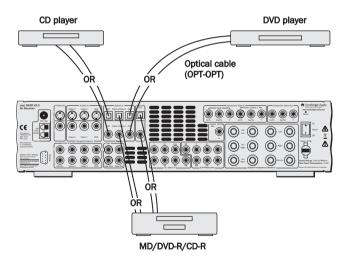
Three types of video connections can be made on the 540R V2.0: Composite (1), S-Video (2) and Component (3). For best picture quality we recommend making Component video connections, then in declining order of quality, S-Video connections and then Composite video connections. The 540R V2.0 does not provide conversion between Composite, S-Video or Component video formats (e.g. if you are watching a S-Video input from a DVD, you must view it from the S-Video output on the 540R V2.0).



DIGITAL CONNECTIONS

Two types of digital audio connections can be made to the 540R V2.0, Optical/Toslink and Coaxial/SPDIF. Either type can be used for each source as the 540R V2.0 is able to convert between the two. Only one connection type should be used per source.

Whichever type is used to connect to the digital inputs, both the coaxial/SPDIF and optical/toslink outputs on the 540R V2.0 will be active.

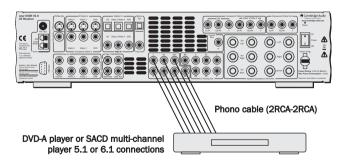


6.1 DIRECT IN

To listen to multi-channel DVD Audio player or SACD discs connect your DVD/SACD player to the 6.1 Direct In sockets.

As any signals connected to the 6.1 Direct Input (multi-channel DVD-A / SACD etc.) will have been decoded by an external unit it may be necessary to adjust the relative levels of each channel when listening to this input. This can be done using the *CH Select* button on the remote, the 540R V2.0's front panel display will rotate round each channel in turn.

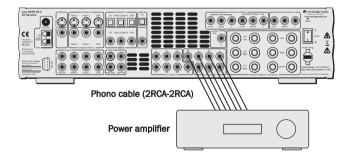
Use *Volume up/down* on the remote to adjust the relative level of each input channel in turn by -10dB to +10dB in 1dB steps. If no adjustment is made for 5 seconds the unit saves the settings and returns to its normal state. Note that any changes made are saved and will affect all surround sound modes.



6.1 PREAMP OUT

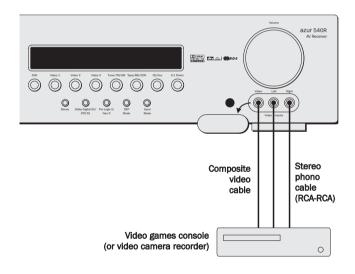
To connect external power amplifiers, use Phono/RCA leads connected to the 6.1 Preamp Outputs on the rear panel.

Set the Pre Out setting in the Output Setup OSD menu to 'Pre Out' rather than 'Normal'. This mutes the internal power amplifiers as they are not being used.



FRONT INPUT CONNECTIONS

The front panel Video 3 input is for temporary connections to video games consoles etc. Remove the cap to access the Video 3 inputs, and connect to a video game or video camera's outputs using a composite video cable and stereo phono cable (RCA-RCA).



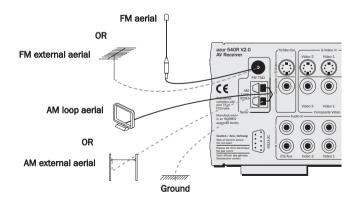
AERIAL CONNECTIONS

FM aerial

Connect an aerial to the FM 75 ohm socket (a simple wire aerial is supplied for temporary use). Extend the lead and move the aerial around until you get the best reception. For continued use, we strongly recommended using a 75 ohm outdoor FM aerial.

AM loop aerial

Connect each end of the single length antenna to the antenna terminals. Place the antenna as far from the main system as possible to prevent unwanted noise and to obtain optimum reception. If the AM loop aerial provided does not receive sufficient reception, it may be necessary to use an outdoor AM aerial.



ON-SCREEN DISPLAY (OSD)

Once the 540R V2.0 is connected to all AV components, the system setup can be completed either using the display on the front of the unit, or if connected to a screen/monitor, via an on-screen display setup menu (recommended). To access this menu, press the *On-screen Display* button on the remote control.



	azur 540R V2.0 Menu
1.	Speaker Config
2.	Speaker Dealy
3.	Level Calibration
4.	Input Setup
5.	Output Setup
6.	Input Assign
7.	OSD Setup
8.	Bass/Treble Config
9.	Sub Crossover
10.	Software Version
	(Quit OSD)



To move around the OSD setup menu, simply use the Navigator controls on the remote. Press the *Arrow right/left* to scroll through the menu options, and *Volume up/down* to move up or down. Press the centre *Enter* button to progress into a sub-menu. Press the *OSD* button to save the settings and exit the setup menu.

Note: The OSD setup menu is only available on a screen/monitor connected via S-Video or Composite inputs.

OSD MENUS

Speaker Configuration

Assign the size of the speakers in your system (Small, Large or None if not used).

Speaker Delay

Set delay for your speakers according to their positions in your room. This is calculated in milliseconds per metre. Please refer to the 'Surround Sound Setup' section of this manual for more information on these speaker setup menus.

Level Calibration

Select to send a test tone signal through individual speakers. Adjust the output to obtain the best sound. Please refer to the 'Surround Sound Setup' section of this manual for more information on these speaker setup menus.

Input Setup

Assign the audio source inputs to be digital or analog each time they are selected, Video 3, Tuner, Tape, and 6.1 Direct will always be analog.

Output Setup

If an external amplifier is connected via the 6.1 Preamp out sockets, select 'Preamp Out' to mute the internal amplifiers.

Input Assign

Assign the Component video and/or digital audio source inputs for Video 1/Video 2.

OSD Setup

TV format - Choose PAL (UK/Europe) or NTSC (Canada/USA) depending on your TV type.

Background - Choose a blue screen or video source as the background image for the OSD setup menu.

OSD Video - If Video selected for the background, choose the video source (Composite or S-Video).

Language - Scroll through the available languages for the OSD setup menu and press the Enter button to select.

Bass/Treble Configuration

Increase/decrease the bass/treble tone control settings.

Sub Crossover Frequency

Set the frequency at which bass sounds are to be sent to the subwoofer (range 40Hz - 200Hz).

Software Version

Displays the current loaded software version.

SURROUND SOUND SETUP

To setup the 540R V2.0 for surround sound use it is necessary to perform 3 steps to match the unit to your speaker package type and configuration. The required steps are:

- Speaker Types tell the 540R V2.0 how many and what type of speakers are connected ('Large' or 'Small' in terms of bass response).
- Delay Times set up a delay time for the rear surround and/or centre speakers so that the sound arrives at the listening position at the right time (for each speaker) for the best surround sound effect.
- Level Calibration adjust the relative level of each speaker to take into account any difference in efficiency or speaker type between each speaker.

Optionally, when using the unit and after having performed the 3 stages above you can then perform two other surround sound adjustments:

- Trimming the Low Frequency Effect (LFE) level to taste/circumstances.
- Applying Dynamic Range Control (DRC) to reduce the volume range of loud to quiet passages in movie soundtracks.

These two extra adjustments can be made where it might be desired to reduce the bass output level and/or the maximum difference in loudness between quiet and loud passages in the movie. For example, to change loudness temporarily for late night listening.

Step 1 - Speaker Types

The 540R V2.0 can support up to a 6.1 speaker setup which means 6 speakers (Front Left, Front Right, Centre, Surround Left, Surround Right, Back Surround) plus a mains powered Subwoofer (the .1).

The first step is to tell the unit how many speakers you are actually $% \left\{ 1\right\} =\left\{ 1$

using. For example, if you choose not to use a Centre Channel speaker you can set this to 'None' in the settings and the 540R V2.0 will automatically redirect the centre channel audio information into the Left and Right Front channels, creating what is know as a 'Phantom Centre'. Similarly, you might decide to not use a subwoofer if your main Left and Right speakers are capable of reproducing enough bass for a satisfying music/movie experience.

Our advice would be a 5.1 or 6.1 setup to take full advantage of the 540R V2.0's capabilities and modern movie soundtracks. The difference being whether it is chosen to use a Back Surround speaker. This extra speaker is only required if it is desired to play back 6.1 material such as DD EX, DTS ES or Neo:6. All other material only requires a 5.1 speaker package.

In addition each speaker that is being used can also be set to be either 'Large' or 'Small' (the 'Large' or 'Small' settings do not necessarily reflect the actual physical size of the speaker):

Large - speakers with an extended low frequency response of approximately 20-30Hz to 16-20kHz (floorstanders or high quality larger stand-mounted speakers).

Small - speakers with a less extended low frequency response of approximately 80-100Hz to 16-20kHz (small stand-mounted, bookshelf or satellite speakers).

Setting each speaker allows the 540R V2.0 to perform Bass Management and to direct low frequency bass from music and the Low Frequency Effects channel of surround sound material to those speakers best able to reproduce it. The process is fairly self explanatory and can be achieved via the OSD Speaker Config Menu (recommended) or via the front panel display by pressing SPK Setup on the remote.

In the second case the 540R V2.0 displays each speaker type (FL/R Large to indicate the Front Left and Right as 'Large' etc.) each time the SPK Setup button is pushed. The settings are changed via Volume up/down and once set wait for a few seconds for the 540R V2.0 to save the settings and exit the menu.

Note: The 540R V2.0 will force some speakers to certain settings in some circumstances as below!

The Front Left and Right speakers may be 'Large' or 'Small' but never 'None' as they are always required for any type of music/movie reproduction.

Bass must always be reproduced by either the Front Left and Right or Subwoofer channel (or both). Setting the Front Left and Right to 'Small' will result in the Subwoofer automatically being set to 'On'. Setting the Subwoofer to 'Off' will automatically result in the Front Left and Right being set to 'Large'.

If the Front Left and Right cannot reproduce low frequency bass a Subwoofer must be used. Also, setting the Front Left and Right as 'Small' will always set the other speakers as 'Small' (and the Sub to 'On'). This is because LFE/ bass information should not be redirected to the surround channels. With the caveats above, all other speakers can be 'Large' or 'Small' or 'None'.

Step 2 - Delay Times

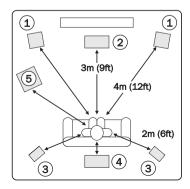
Because the speakers in a surround sound system are usually different distances from the viewer/listener the 540R V2.0 incorporates the ability to apply a variable digital delay to the each of the channels so that the sound from each appears at the same time at the listening position for best surround-sound effect. Each pair of speakers (i.e. Front Left and Right or Surround Left and Right) are subject to the same delay and so

must be situated equidistant from the listener/viewer.

In addition Dolby Pro Logic II playback also requires an extra 15 milliseconds delay to the surround channels only (in addition to any surround delay set above). This extra delay is part of the Dolby Prologic II specification and ensures that sound from the surrounds arrives just after sound from the front reducing the audibility of sound leakage from the front to the surround speakers. This is necessary as Dolby Prologic II being an analog encoding process does not possess the complete channel separation of the DD or DTS Digital systems.

Because the relationship between the Dolby Digital and Dolby ProLogic II two delays is fixed (15mS extra to the surround channels), it is only necessary to set the delay in either one of the two modes. The 540R V2.0 will automatically provide the appropriate delay whenever you switch to the other mode.

To set the delay times simply measure the distances from the listening position to the each speaker as shown in the following diagram:



- 1 = Front Left & Right speakers
- 2 = Centre speaker
- 3 = Surround Left & Right speakers
- 4 = Surround Back speaker
- 5 = Subwoofer

SURROUND SOUND SETUP CONT.

Set the distances in the OSD Speaker Delay menu to the nearest value in metres (delays of 0-60mS are possible). The 540R V2.0 OSD shows both the equivalent distances and delay times for reference.

The delay settings can also be set from the front panel by pressing the *Delay* button on the remote. The display will show "L-R" and a distance in meters for front Left (and Right). Pressing the *Delay* button again will show "C" and again a distance etc. Use *Volume up/down* to adjust the distance to that actually measured. When finished make no adjustment for a few seconds and the 540R V2.0 will save the settings and exit the menu.

Step 3 - Level Calibration

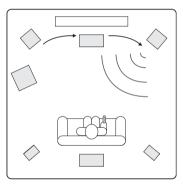
The 540R V2.0 allows Level Calibration to match the acoustic level between different types/sizes or even manufacturers of speaker that may be being used for each channel. This is achieved by adjusting the relative level of each speaker through either the Level Calibration menu in the OSD (recommended) or via the front panel display.

The basic process is to listen to or measure with an SPL meter (more accurate and recommended but not essential) the level of sound produced by each speaker and set relative levels for each speaker so that they all sound the same loudness at the normal listening position. The 540R V2.0 incorporates a Test Tone generator (actually broad-band White Noise) to facilitate this.

For setup via OSD:

Set the unit to a normal listening level or half maximum volume approximately. Press the OSD button on the remote control then select the Level Calibration menu. Now turn on the test tone by selecting item 'A' and using the *Arrow left/right* controls on the remote.

The menu will then drop down to the first channel (Front Left) and the test tone will be heard to come from this channel only. You can now move up and down the channels using *Volume up/down* on the remote. Each time a new channel is selected the test tone will be heard to move to that channel. Compare the loudness of all channels as heard at the listening position.



The idea is now to adjust the channels so they all the same (in terms of loudness only, channels of different frequency responses can sound different in terms of the 'tone' of the sound i.e. more or less hissy).

Pick the channel that sounds most different and select it to listen to the test tone. Now adjust the relative level in dB (using Arrow left/right on the remote) and continue comparing it to other channels until it is of equal loudness. The level can be adjusted up to + or - 10dB in 1dB steps. Repeat the process with the next loudest channel etc. Once all channels sound the same in terms of loudness, press the OSD button again to save the settings and exit the menu.

For setup via Front Panel:

Consult the previous section for the overall procedure. Press the Test Tone button on the remote control.

The 540R V2.0 will start with the test tone playing via the Front Left channel. Using the Volume up/down controls on the remote adjust the relative level. To move to the next channel press the Test Tone button again. After the last channel (BS - Back Surround) the 540R always drops out of test tone mode, pressing the Test Tone button again initiates another sequence.

Alternatively if it is desired to make a 'tweak' to one channels level whilst listening this can be done using the Ch Select button on the remote, the 540R's front panel display will rotate round each channel in turn. Volume up/down can now be used to adjust the relative level of each channel in turn by -10dB to +10dB in 1dB steps. If no adjustment is made for 5 seconds the unit saves the settings and returns to its normal state. Note that any changes made are saved and will affect all surround sound modes.

LFE Trim

This setting (on the remote only) allows adjustment of the LFE (surround sound Low Frequency Effects) channel of DD or DTS surround-sound modes (only). This can be used to reduce the effects bass output for instance for late night listening or if a particular movie/soundtrack is over bass heavy. When playing back a DD or DTS source, pressing the LFE Trim button brings up "LFE" on the front panel display. Now use the Volume up/down controls on the remote to adjust the LFE level between OdB (normal full level LFE playback) and -10dB (maximum LFE reduction).

Dynamic Range Control

This setting controls the dynamic range of Dolby Digital movie soundtracks by compressing the dynamics in four stages to limit the difference in level between loud and quiet passages in the movie.

This can be a useful feature when watching movies late at night for instance. Four settings are possible:

DRC=0/4 No Compression (normal full dynamic range playback)

DRC=1/4

DRC=2/4

DRC=3/4

DRC=4/4 Greatest Compression (reduced dynamic range playback)

DRC can be accessed by the *Dynamic* button on the remote, DRC=0/4 etc is displayed, pressing the button again moves to the next setting. When finished make no adjustment for a few seconds and the 540R V2.0 will save the settings and exit the menu.

Note: DRC only works for Dolby Digital sources which support this feature.



OPERATING INSTRUCTIONS

To activate the 540R V2.0, switch the Power button on the rear panel to *On* then press the *Standby/On* button on the front panel.

Selecting the source

- 1. Select the desired source by pushing the corresponding source button on the front panel or remote control.
- Press the *Input Mode* button to select the input mode of the source equipment, either analogue or digital (depending on the connection made on the rear panel).

If you are connecting your source equipment digitally (via optical or coaxial connections) and "UNLOCK" appears on the display, the source is either not connected properly or the source is not switched on.

The 540R V2.0 stores the input type for each source so that it is automatically recalled when that source is selected again.

Selecting the desired listening mode

Select the appropriate mode for the source material you are listening to by pressing the appropriate front panel button and cycling through the available sub-modes. 5 Types of operation are possible:

Stereo - selects 2 channel Stereo (with or without subwoofer) operation for stereo material. This mode is for use with the analog outputs from Tuner's or CD Players etc or un-encoded stereo digital outputs (LPCM) i.e. from a CD players SPDIF output.

Dolby Digital EX / DTS ES Mode - selects a range of digital surround modes in (up to) 5.1 or 6.1 with the appropriately digitally encoded

material. These modes are for use with the digital outputs (Bitstream/Raw) from DVD players or satellite receivers SPDIF outputs etc.

Dolby Prologic II / Neo:6 mode - selects a range of analog surround modes in (up to) 5.1 or 6.1 with appropriate analog encoded material. These modes are for use with the analog outputs from TV's or VCR Players if the source material has been encoded using one of these processes.

DSP mode - selects a range of Digital Signal Processing modes which can generate a realistic surround sound experience from material without actual surround sound encoding. These modes are for use with the stereo analog outputs from Tuner's or CD Players etc or un-encoded stereo digital outputs (LPCM) i.e. from a CD players SPDIF output.

Using the Tuner

- 1. Press the *Tuner FM/AM* button on the front panel or remote control to select Tuner mode.
- 2. Press the *Tuner FM/AM* button again to select FM or AM if desired.
- Press the Mode/Store button on the front panel (or Mode button on the remote control) to select automatic tuning, manual tuning or preset mode.
- 4. Press the *Tuning* + and *Tuning* buttons (or the left and right arrow buttons on the remote) to select the station you want to listen to

In automatic tuning mode the unit scans to the next strong station. In manual tuning mode the user can step manually through the frequencies. In preset mode the unit cycles through the presets only.

Two FM modes are available, stereo and mono - Press the Stereo Mono button on the remote to alternate between Stereo mode and Mono mode. If the Display button is pressed, the RDS station names of FM stations will be displayed if available.

Storing stations

- 1. Tune in a station you wish to store as explained previously.
- 2. Press and hold the Mode/Store button (or Mode button on the remote) for 5 seconds to bring up the "MEM" icon.
- 3. Use the *Tuning+/-* buttons to select a preset station number (1-15). The station number will be displayed on the screen.
- 4. Press the Mode/Store button (or Mode button on the remote) to memorise, while the "MEM" icon is still flashing.

Radio Data Systems (RDS)

RDS is a method for the transmission of additional information from local radio stations. It is only available in FM mode. RDS will only work if the local broadcasting stations have RDS transmission and the signal is strong enough.

Press the Display button on the remote and go through the displayed functions. There are functions for PS, PTY, CT and RT:

PS (Station Name) - current station name will be shown

PTY (Program Type) - current name type of the program will be shown

CT (Clock - Time) - current time from Radio Station will be displayed.

Note: Clock - Time will be only transmitted from local radio station once a minute. If the Clock - Time is not available the message "NO CT" will appear briefly on the display.

RT (Radiotext) - some Text messages will be shown.

Program Type Search (PTY)

- 1. Press the PTY button on remote control, "PTY SELECT" will flash on the display.
- 2. Press Tuning + /- to choose the program type, for example NEWS or SPORT.
- 3. Press the PTY button again once you have chosen the program type.

When the selected type of program is tuned in, it will stop searching, otherwise, "NO FOUND" will appear.

Auto Program Search (APS)

- 1. Press the Tuner FM/AM button to select the AM or FM band.
- 2. Press the APS button on the remote to begin the automatic program search through available stations. The searched stations will be memorised in the respective band memory (maximum of 15 stations).

CUSTOM INSTALLATION (C.I.) USE

The 540R V2.0 features a Control Bus input that allows un-modulated remote control commands (positive logic, TTL level) to be received electrically by the unit. These control commands are typically generated by custom installation (multi-room) systems or remote IR receiver systems. The Control Bus socket is colour-coded orange.

This unit features 'direct' IR/Control codes as well as toggle codes for many of their features to simplify programming custom installation systems. Special direct On/Off commands can be accessed on the supplied remote control for teaching into C.I. systems as follows:

 Press and hold the Standby/On button on the remote control. The remote first generates it's standby (toggle) command. Keep the button held down, after 12 seconds an AV receiver "On" command will be generated. If the button is kept held down for a further 12 seconds, an AV receiver "Off" command is generated.

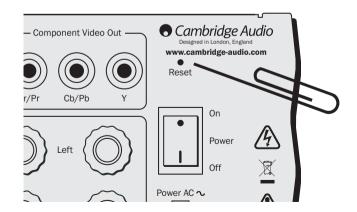
Repeat this procedure with the Mute, Sub On/Off, Stereo Mono and Tuner AM/FM buttons to send On/Off commands. The Tuner AM/FM button also provides unique FM and AM commands to allow switching to a specific band.

A full code table for this product is available on the Cambridge Audio website at **www.cambridge-audio.com**.

RESET/BACK-UP MEMORY

The 540R V2.0 has a function that preserves the preset memory and other settings. In the event of a power failure, or if the power cord of the unit is disconnected from the mains outlet, the back-up memory will preserve the preset memory for approximately one week. If the power supply is interrupted for 7 days or longer, the memory settings will be erased.

If it is desired to reset all settings to their factory defaults or in the unlikely event that the unit locks up due to an electrical discharge etc, switch the Power to On on the rear panel, and using a paper clip (see diagram below), press and hold the *Reset* button for three seconds. "RESET" will appear briefly on the front panel display before returning to Standby mode.



TROUBLESHOOTING

A low hum or buzz sound can be heard

Power cords or lighting placed near this product.

Analog inputs not connected securely.

Sound is not audible from one channel

One of the input cords is disconnected.

The balance control is set to one side.

Speaker connections disconnected.

Sound cuts off when listening to music or there is no sound even though power is ON

Speaker impedance is less than prescribed for the 540R.

The unit is not adequetely ventilated.

Low bass or "phasey" response

Speaker polarity (+/-) of one or more speakers is reversed.

An unusual hissing noise is heard when listening to the broadcast in stereo, but not heard when listening in mono

A slight noise may be heard because the method used for modulation of FM stereo broadcasts is different than that used for mono broadcasts.

Aerial quality also effects the level of hiss heard.

Noise is excessive in both stereo and monaural broadcasts

Poor location and/or direction of the antenna.

Transmitting station is too far away.

No sound from the rear speakers

Source being played is not recorded in surround sound.

Cable not connected securely.

Surround speakers have been set to "None" in OSD setup menu.

No sound from the centre speaker

Surround mode button is not set to one of the Dolby Digital, DTS Neo:6 or Dolby Pro Logic II modes.

Centre speaker has been set to "None" in OSD setup menu.

No sound from the subwoofer

Sub has been set to 'None' in the OSD setup menu.

Remote control is not working

The batteries are flat.

The remote is too far from the receiver or out of the effective range.

TECHNICAL SPECIFICATIONS

Power Output 100 watts rms per channel,

8 ohms, two channels driven

80 watts rms per channel,

8 ohms all 6 channels driven

THD <0.006% @1kHz

Crosstalk <-60dB

Frequency response 20Hz - 20kHz +/- 1dB

Audio Input Sensitivity 150mV
Audio Input Impedance 47kOhms

Digital Input Impedance 75ohms (Coaxial/SPDIF)

S/N Ratio >90dB 'A' weighted

Tone Control Range Bass +/-6dB

Treble +/-6dB

FM Tuner 87.5-108MHz,

75 ohm coaxial aerial

AM Tuner 522-1629kHz,

300 ohm loop aerial

Video Input Impedance 75ohm
Stby power consumption <10w
Max power consumption 615w

Architecture CS42518 CODEC

CS493263 DSP

Audio Inputs 6 Line Level + Tuner

6.1 Direct Input

Audio Outputs 6 Amplified Speaker Outputs

6.1 Preamp output 1 Tape record output

Video Inputs 4 Composite, 3 S-Video,

2 Component Video

Video Ouputs 1 Composite, 1 S-Video,

1 Component Video

Digital Inputs 4 Co-Axial, 3 Optical

Digital Outputs 1 Co-Axial, 1 Optical

Control Bus Input Opto isolated, TTL positive logic,

Unmodulated

Dimensions - H x W x D 150 x 350 x 430mm

Weight 9.5kg (20.9lbs)

This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice. If you notice any errors please feel free to email us at: support@cambridgeaudio.com

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540R V2.0 AV receiver

• Cambridge Audio azur 540R V2.0

