

azur

550C/650C

 **Cambridge Audio**

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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.

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Introduction

Thank you for purchasing this Cambridge Audio Azur 550C or 650C CD player. Like all Cambridge Audio products, the 550C and 650C adhere to three core principles – stunning performance, ease of use and incredible value.

Developed as part of our on-going research and development regime, including extensive listening tests, we have incorporated many subtle tweaks and improvements to our circuits, components and layouts in the pursuit of our passion for sound quality.

We have developed a completely new S3 servo for these models. The S3 is our third generation proprietary audiophile servo solution and draws on all our experience with this technology. It utilises the latest double-sided surface-mount technology for ultra short signal paths with freedom from wire links. It can dynamically adjust the focusing, tracking and output level of the laser in real-time, allowing for maximum retrieval of the digital information with extremely low data jitter. This is complemented by our use of a highly accurate master clock oscillator and very carefully designed impedance-matched clock buffering schemes. We have also incorporated support for CD-text to enhance those discs that feature it.

For the critical Digital to Analogue converter stages, we have also moved to double-sided surface-mount to remove wire links and shorten all signal paths. New Metal Electrode Face resistors, polypropylene caps and custom-made electrolytic capacitors have all been used for their superior sound quality.

Both models employ the WM8740 24bit/192kHz-capable Digital to Analog converter from Wolfson Microelectronics. This very high quality part is coupled to our proprietary Double Virtual Earth Balanced filter topology which has been revised and re-calibrated for Bessel coefficients in both the 550C and 650C. In line with all our models, a toroidal transformer is fitted to provide lower noise and less waveform distortion for quieter PSU operation.

The 650C differs from the 550C in using a pair of WM8740 24bit/192kHz-capable Digital to Analogue converters implemented in a dual differential configuration. Since each channel has its own DAC to process information, completely separate and symmetrical analogue filter circuitry can be implemented.

The 550C features a Three-Pole Double Virtual Earth Balanced filter topology with new Bessel co-efficients. The 650C features an even more sophisticated Four-Pole Dual Differential Double Virtual Earth Balanced version of this filter. This means that the DAC for each channel features two fully balanced outputs, each of which are then summed in a third order virtual earth balanced filter stage. A further first order balanced filter stage sums the balanced outputs of the earlier filter stages. This double-balanced configuration largely rejects noise and distortion products present in the DACs and filters themselves to produce an unprecedented level of performance.

These models are amongst the first to feature a new casework design with a thicker braced front panel, more rigid wrap-over lid assembly and dual-layer damped feet, all of which contribute to better control of resonance. Another highlight is an eco-friendly low power (<1W) standby circuit. This circuit completely powers down the CD player circuits in Standby mode yet is itself totally isolated when the CD player is on, thus having no effect on sound quality.

Your CD player can only be as good as the system it is connected to. Please do not compromise on your amplifier, speakers or cabling. Naturally, we particularly recommend amplification from the Cambridge Audio Azur range, which has been designed to the same exacting standards as our CD players. Your dealer can also supply excellent quality Cambridge Audio interconnects to ensure your system realises its full potential.


Thank you for taking the time to read this manual; we recommend you keep it for future reference.



Matthew Bramble
Cambridge Audio Technical Director
and the 550C/650C design team

Important safety instructions

For your own safety please read the following important safety instructions carefully before attempting to connect this unit to the mains power supply. They will also enable you to get the best performance from and prolong the life of the unit:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use with only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug having been damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING

- To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

The unit is of Class 1 construction and must be connected to a mains socket outlet with a protective earthing connection.

The unit must be installed in a manner that makes disconnection of the mains plug from the mains socket outlet (or appliance connector from the rear of the unit) possible. Where the mains plug is used as the disconnect device, the disconnect device shall remain readily operable. Only use the mains cord supplied with this unit.

Please ensure there is ample ventilation (at least 10cm clearance all round). Do not put any objects on top of this unit. Do not situate it on a rug or other soft surface and do not obstruct any air inlets or outlet grilles. Do not cover the ventilation grilles with items such as newspapers, tablecloths, curtains, etc.

This unit must not be used near water or exposed to dripping or splashing water or other liquids. No objects filled with liquid, such as vases, shall be placed on the unit.



| CAUTION | AVIS | ACHTUNG |
|--------------------------------------|---|--|
| Risk of electric shock. Do not open. | Risque de choc électrique. Ne pas ouvrir. | Vorm öffnen des Gerätes. Netzstecker ziehen. |



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.



WEEE symbol

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.



CE mark

This product complies with European Low Voltage (2006/95/EC), Electromagnetic Compatibility (2004/108/EC) and Environmentally-friendly design of Energy-related Products (2009/125/EC) 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.



C-Tick mark

This product meets the Australian Communications Authority's Radio communications and EMC requirements.



Ross Test Stamp

This product meets Russian electronic safety approvals.

FCC regulations

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Ventilation

IMPORTANT – The unit will become hot when in use. Do not stack multiple units on top of each other. Do not place in an enclosed area such as a bookcase or in a cabinet without sufficient ventilation.

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.

Positioning

Choose the installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. No naked flame sources, such as lighted candles, should be placed on the unit. Also avoid locations subject to vibration and excessive dust, cold or moisture. The unit can be used in a moderate climate.

This unit must be installed on a sturdy, level surface. Do not place in a sealed area such as a bookcase or in a cabinet. 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 other equipment on top of the unit.

Due to stray magnetic fields, turntables or CRT TVs should not be located nearby due to possible interference.

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 and the sonic properties will improve over this time.

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 can be left in Standby mode when not in use and will draw <1W in this state. To turn the unit off, switch off at the rear panel. If you do not intend to use this unit for a long period of time, unplug it from the mains socket.

Overloading

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

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.

Cleaning

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

Battery disposal

Please dispose of any discharged batteries according to local environmental/electronic waste disposal guidelines.

Loudspeakers

Before making any connections to loudspeakers, make sure all power is turned off and only use suitable interconnects.

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.

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 made a purchase 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.

For any service, in or out of warranty, please contact your dealer.

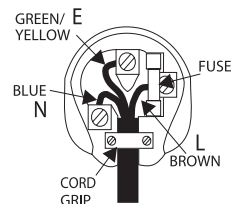
Plug-fitting Instructions (UK only)

The cord supplied with this appliance is factory-fitted with a UK mains plug fitted with a 3-amp fuse inside. If it is necessary to change the fuse, it is important that a 3-amp fuse 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 connected to the terminal which is marked with the letter 'N' or coloured BLACK.

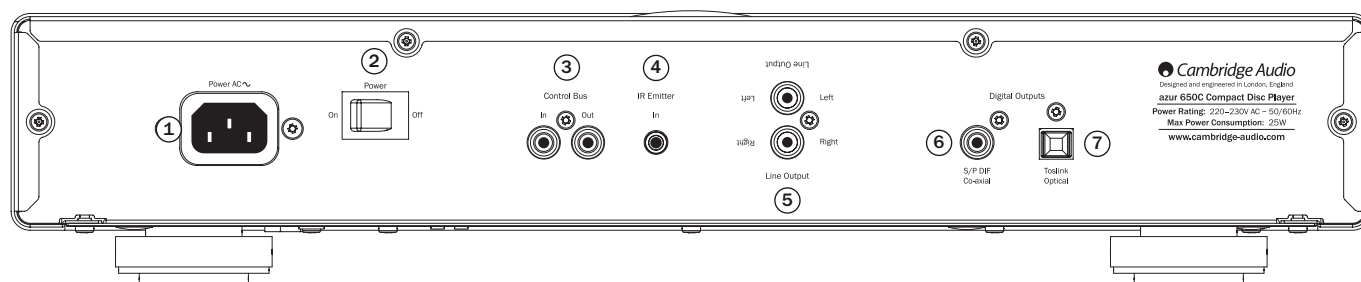
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter 'L' or coloured RED.

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



If a standard 13-amp (BS 1363) plug is used, a 3-amp fuse must be fitted or, if any other type of plug is used, a 3-amp or 5-amp fuse must be fitted, either in the plug

Rear panel connections



① AC power socket

Once you have completed all connections to the amplifier, plug the AC power cable into an appropriate mains socket and turn the unit on. Your compact disc player is now ready for use.

② Power On/Off

Switches the unit on and off.

③ Control Bus

In Allows un-modulated commands from multi-rooms systems or other components to be received by the unit.

Out Loop out for control bus commands to another unit.

④ IR (Infra Red) Emitter In

Allows modulated IR commands from multi-room systems or IR repeater systems to be received by the unit. Commands received here are not looped out of the Control Bus. Refer to the 'Custom Installation' section for more information.

⑤ Line Output

Use good quality interconnect cables from these sockets to any line level input on your amplifier. For best results and matched performance, we recommend connection to a Cambridge Audio Azur amplifier.

⑥ S/P DIF co-axial digital output

For input to a separate DAC, such as Cambridge Audio DacMagic*, or digital recording machine. To obtain best results, use a high quality 75ohm digital RCA interconnect cable (not one designed for normal audio use).

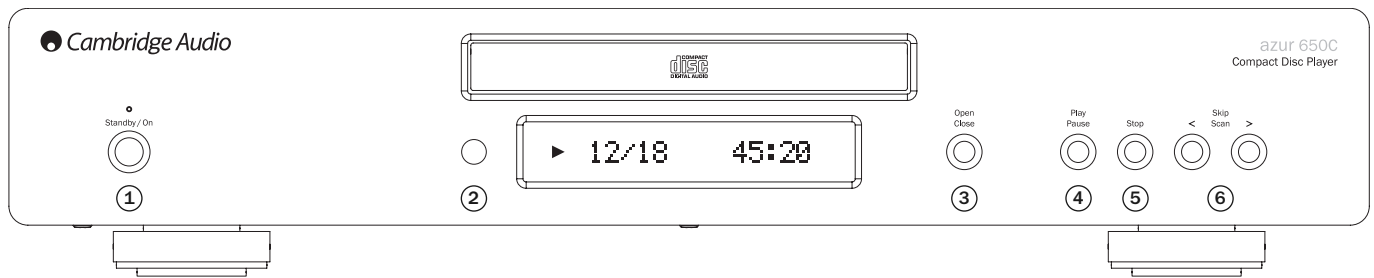
⑦ TOSLINK Optical digital output

Use to connect to the input of a separate DAC* or digital recording machine. Use a high quality TOSLINK fibre optic interconnect cable.

Note: To obtain the best results from your system we recommend using only high quality Cambridge Audio interconnects. This will ensure that you hear your system as we designed it. Please ask your dealer for details.

* For more information, see the DacMagic page on the Cambridge Audio website: www.cambridgeaudio.com/products.php

Front panel controls



① Standby/On

Switches the unit between On and Standby mode. The blue LED will remain bright when the unit is on, becoming dim when the unit is in a special eco-friendly standby mode. The unit consumes less than one watt of power during standby. The unit can remain in Standby mode when not in use. It is advisable to switch the unit off at the mains if it is not likely to be used for an extended period of time.

Note: For convenience, the player can be programmed to automatically enter Standby mode after a period of inactivity. To enable this feature, see “Using the set-up menu” on page 9.

② Open/Close

Allows you to open and close the disc tray. After placing a CD in the tray, press *Open/Close* to close the tray.

③ Infrared sensor

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

④ Play/Pause

Plays the disc and pauses play.

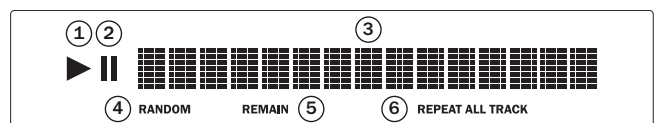
⑤ Stop

Stops the CD playing.

⑥ Skip/Scan

Enables you to skip between and search within tracks. Press briefly to skip a track. Press and hold to scan through a track.

Display functions



① Play


Illuminated during disc playback.

② Pause

Indicates that disc playback has been paused.

③ Display

Alpha-numeric characters which display playback information. On inserting a disc, the CD player will take a few seconds to read the Table of Contents (TOC) information from the disc. The display will then show the number of tracks on the CD and the total length of the CD.

If the CD incorporates CD-text, the name of the album will scroll once (the number of tracks remains stationary throughout). Once playback of an individual track begins, the track number, total number of tracks and play-time will be displayed. On a CD containing CD-text, the track name will scroll once. Pressing the  (Info) button on the remote control will re-display the CD-text.

④ Random

Indicates random playback mode.

⑤ Remain

Illuminated when displaying time remaining on track or disc.

⑥ Repeat All/Track

Illuminated when 'Repeat Track' or 'Repeat All' is selected.

Remote control

The 550C and 650C are supplied with an Azur Navigator remote control that operates both this CD player and Cambridge Audio Azur range amplifiers. Insert the supplied AAA batteries to activate. Always use alkaline-type batteries.

Standby/On

Switches the amplifier between On and low power eco-friendly Standby mode.

Open/Close

Opens and closes the disc tray.

Numerical track select

Press the number of the desired track. The track will then play automatically from the start of the track.

Track select

To select a track number greater than nine, press -/-- followed by the track number. Playback of the chosen track starts automatically.

Play/ Stop/ Pause

Press the relevant button to play, stop or pause the CD.

Skip

Right Skip Press to skip forward by one track on the CD.

Left Skip Press to skip backward by one track on the CD.

Scan

Press and hold to scan within the selected track. Hold down for seven seconds to increase scan speed. Press the right button to fast forward, the left button to rewind.

Info

Used with CDs that support CD-text. In stop mode, press to toggle between album name and total time on the display. During playback, press to toggle between track name and track time.

Bright

Alters the brightness of the display backlight. There are three levels of brightness: Bright, Dim and Off.



Read the 'Operating Instructions' section of this manual for information on the functions of these buttons.

Note: these buttons will function only when the display backlight is in either 'Bright' or 'Dim' modes. If it is set to 'Off', the functions do not respond.

Please note that the following buttons will only operate a matching Cambridge Audio Azur amplifier:

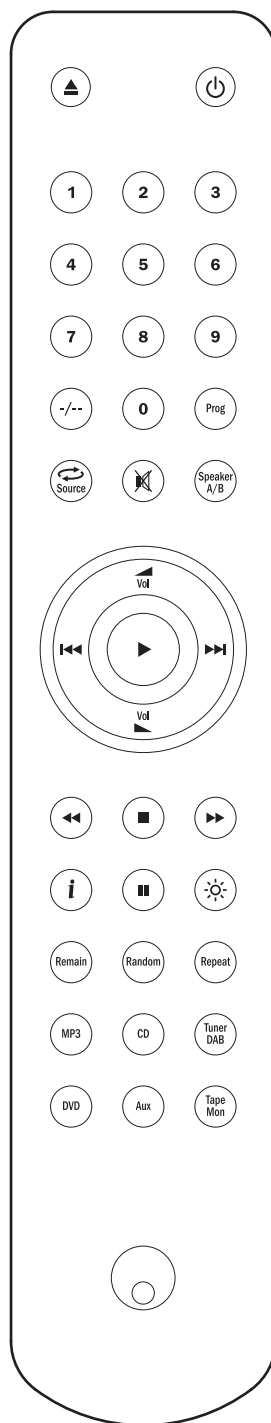
Source

Cycles through the amplifier's source inputs.

Mute

Mutes the audio on the amplifier. The mute mode is indicated by the source and speaker LEDs flashing. Press again to cancel mute.

Note: The speaker outputs, Pre-out and headphone outputs will all be muted. The Record outputs are unaffected.



Speaker A/B

Toggles the speaker terminals on the rear panel to output speaker A only, speaker B only, both speakers A and B or no speaker output at all. The speaker indicators on the front panel of the amplifier show which speaker terminals are selected.

Volume controls

Increases or decreases the volume of the amplifier output.



The six source select buttons are used to directly select the input source to the amplifier.

Note: the *Tape Monitor* input works in a slightly different way – please refer to your amplifier user's manual for details.

Apple device compatibility

The Azur 550AC/650AC Navigator remote control can control the basic functions of Apple devices such as Apple TV and Apple's iPod/iPhone/iPad range when docked in a Cambridge Audio or Apple dock.


Press and hold the source button that corresponds to the input that the Apple product is connected to whilst also pressing one of the buttons below.

The functions are slightly different depending on the Apple product.

 **Select**

 **Play/pause**

 **Stop or Menu**

 **Press briefly to skip or navigate left or right. Press and hold to scan forwards or backwards.**


 **Used to control volume and/or navigate menus.**




Used to navigate menus.

In addition, the Azur remote can be paired with up to six specific Apple devices using any of the six source buttons. This can be useful if you have more than one Apple product.

For more information on pairing refer to your Apple device's instruction manual.

Pairing – To pair with an Apple device, press and hold the required source button along with the  button for six seconds. Some devices like Apple TV have visual indication once pairing is achieved.

Un-pairing – To un-pair an Apple device, press and hold any of the source buttons along with the  button for six seconds.

Operating instructions

Loading and unloading discs

1. Press the *Open/Close* button.
2. When the disc tray has opened fully, place a disc carefully in the tray with the label side facing up.
3. To close the disc tray, press the *Open/Close* button again. When the tray, with a correctly loaded disc, is fully closed the CD player will read the disc and display the content information.
4. 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 compact 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 compact disc is badly scratched or too dirty, the player may not be able to read it or play it.
- Never load more than one disc into the disc tray at any time.

Normal disc play



This unit has been designed to play compact discs, recordable CDs (CD-R) and re-writable CDs (CD-RW) bearing the identification logo shown here. No other discs can be used. Any CD-R/CD-RW discs should contain properly recorded TOC (Table of Contents) information so that they can be played back. This unit can play only the discs recorded in the CD-DA format designed for music reproduction. Do not attempt to play a disc containing other data, such as a CD-ROM for PCs with mp3 or WMA files, on this unit.

1. Switch on your amplifier and set its input selector to the correct position. Adjust the volume control to a minimum.
2. Press the *Open/Close* button to open the disc tray and load a disc.
3. Press the *Open/Close* button again to close the tray. The CD player will read the disc.
4. To begin playback, press *Play*.
5. When the last track has finished playing, the display will return to Table of Contents (TOC).
6. To stop the disc at any point, press the *Stop* button. Pressing the *Pause* button while the disc is playing will pause the disc and illuminate the pause icon on the display. Playback can be resumed by pressing *Play* again.

Locating a specific track during playback

1. A single short press of the *Skip/Scan >* button will take you to the beginning of the next track on the CD. Repeat as necessary.
2. A single short press of the *Skip/Scan <* button will take you to the beginning of the previous track.

Locating a specific track when playback is stopped

1. A single short press of the *Skip/Scan >* button will skip between tracks.
2. Press and hold to scroll rapidly through tracks.
3. Press *Play* to start playback from the selected track.

Repeating discs and tracks

1. Ensure that the disc is loaded.
2. Press the *Repeat* button on the remote control. 'Repeat All' will appear on the display. Press *Play*. The whole disc will now be repeated until the function is turned off.



3. To repeat a specific track, press *Repeat* twice while the track is playing. 'Repeat Track' will appear on the display. Press *Play* and the selected track will now repeat until the function is turned off.



Alternatively, press *Repeat* twice, select the chosen track using the numerical buttons on the remote control and press *Play*.

4. Press *Repeat* again either before or during playback to turn off the repeat function.

Note:

- 'Repeat Track' is not available in Program mode.
- Selecting 'Repeat Track' when 'Random' mode has been selected will automatically cancel 'Random' mode.

Playing tracks in random order

1. Ensure that a disc is loaded.
2. Press the *Random* button on the remote control. 'Random' will appear on the display.
3. Press *Play*. The CD player will now play the entire disc in random order.



It is also possible to press the *Random* button during playback to listen to tracks in random order.

4. Press *Random* to exit the Random function. The disc will continue playing to the end in the correct order.
5. Press the *Stop* button at any time to stop the disc.

Note: Selecting 'Random' mode when 'Repeat Track' has been selected will automatically cancel 'Repeat Track' mode.

Using the Remain function

1. Ensure that the disc is playing.
2. Press the *Remain* button on the remote control once to display the time remaining for the track playing.



3. Press *Remain* a second time to show the total remaining disc time.



4. Press *Remain* again either before or during playback to return to normal play mode.



Programming disc play

It is possible to program the 550/650C to play back in any order only the tracks you wish to listen to.

1. Ensure that a disc is loaded. The display should show the TOC data.
2. Press *Program* on the remote control. The Program set-up will appear in the display (as long as the display backlight is set to 'Bright' or 'Dim' modes). 'ST:01' will flash.



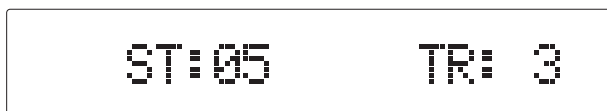
3. Using the , 0-9 or buttons, skip to or enter the track number that you want to program as your first track.



4. Press . The desired track is now programmed. The program number automatically increases by one for the next entry.



5. Repeat steps three and four until all your desired tracks are entered. A maximum of 30 tracks can be programmed.
6. To go back and change a programmed track, press to locate the desired program step. 'ST:0-' does not flash.



Press to choose the replacement track. 'ST:0-' flashes to indicate a change of program. Press to select the new track and continue.



7. Press *Program* or to exit.



Press *Program* again to return to program editing. At this point you can either press again to delete the program and return to TOC display, or press to start playing your selection.

8. When is pressed, 'Program Play' appears briefly on the display and playback of the programmed tracks commences.



9. You can use the skip and scan functions on your remote control to move through your programmed selection in the same way as normal playback.

10. Pressing during playback will take you back to the 'Program Mode' stage. Pressing again at this point deletes the program.

Note:

- During programmed playback, it is possible to use the 'Remain' function only to show the time remaining on the track playing. You can not view the time remaining on the disc.
- Only the 'Repeat All' feature can be used during Program mode. You are not able to repeat specific tracks in the program.

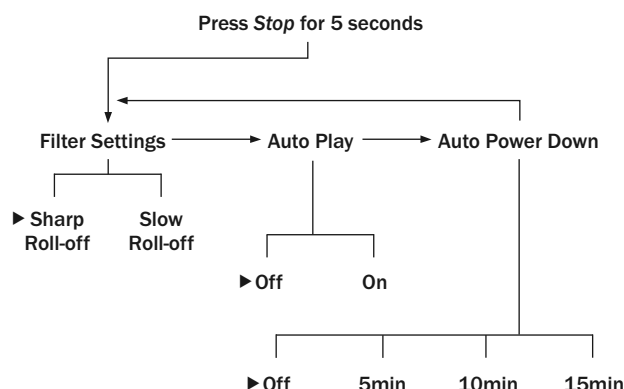
Using the set-up menu

The 550/650C allow the setting of some options related to Auto Play, Auto Power Down and the digital filters used by the D/A converters.

1. Press and hold *Stop* for five seconds to open the set-up menu.
2. Scroll through the menu (shown below) using the *Skip/Scan* < > buttons.
3. *Play/Pause* selects a sub-menu. Scroll through sub-menu options with the *Skip/Scan* < > buttons. The default setting is indicated by the symbol .
4. Return to the sub-menu or exit the options menu by pressing the *Stop* button.

Note:

- It is not possible to access the set-up menu during disc playback.
- The *Stop* button on the remote control cannot be used to open the set-up menu. Once you have accessed the menu, however, the remote control can be used to scroll through and select sub-menu options.



Filter Settings

See page 10 for more information.

Auto Play Setting

If required the 550/650C can automatically play disks inserted into the drawer without the *Play* button having to be pressed. Auto Play is simply enabled in the menu when desired. The default setting for Auto Play is 'Off'.

Auto Power Down Setting

If desired the 550/650C can shut itself down if not used for a period of time. Power down after an inactive period (no disk playback or any functions of the player used) of 5, 10 or 15 minutes can be selected. The default setting for Auto Power Down is 'Off' (i.e. disabled).

Filter settings

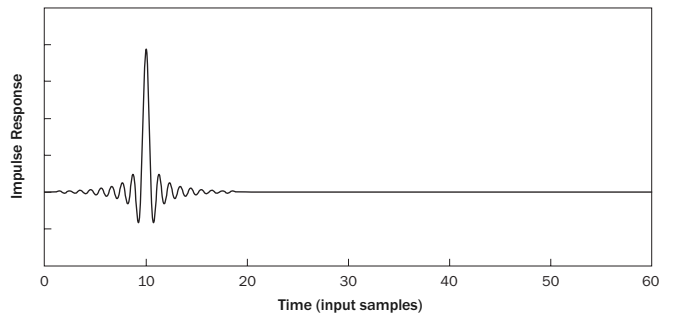
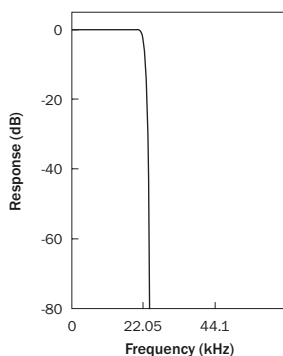
The 550C and 650C both use the WM8740 Digital to Analogue Converter (DAC) from Wolfson Microelectronics. The 550C uses one stereo DAC, whilst the 650C uses two DACs in dual differential (i.e. one per channel, in an internally balanced mode). These very high quality parts feature a selectable digital filter with two settings.

The sharp roll-off filter exhibits strong attenuation of aliasing images outside the pass band (i.e. above 22.05kHz) at the expense of a little pre- and post-ringing in the time domain.

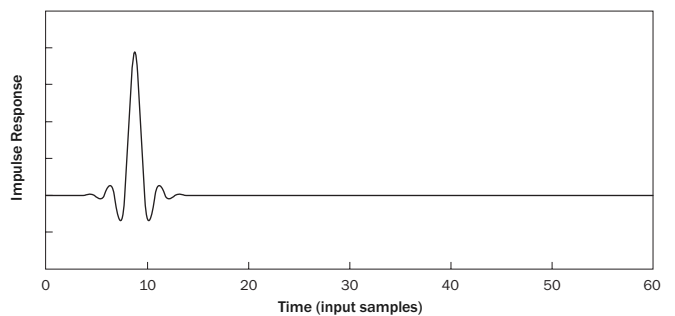
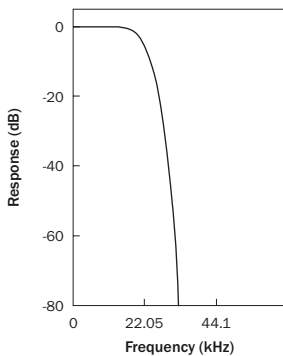
The slow roll-off filter trades a slower roll-off and less attenuation of close in aliasing images for less ringing in the time domain.

There is no 'right' choice and we encourage you to experiment with both filters and pick the one that is best to your ears. The characteristics of both are shown below:

Sharp Roll-off



Slow Roll-off



Custom installation (C.I.) use

The 550C and 650C feature a Control Bus input/output that allow unmodulated remote control commands (positive logic, TTL level) to be received electrically by the unit and looped to another unit if desired. These control commands are typically generated by custom installation (multi-room) systems or remote IR receiver systems. The Control Bus sockets are colour-coded orange.

An IR Emitter Input is also provided that allows modulated IR remote control commands to be received electrically by the unit. Commands on this input operate the unit only and are not looped out demodulated on the Control Bus Output.

In addition the units feature 'direct' IR/Control codes as well as toggle codes for some of their features to simplify programming custom installation systems. Special direct On/Off and Mute commands can be accessed on the supplied remote control for teaching into C.I. systems or learning remotes as follows:

1. Press and hold the Standby button. After 12 seconds, the remote first generates a Standby (toggle) command for Azur CD players. Keep holding the button down and after 12 seconds a CD player "On" command will be generated. If the button is held down for a further 12 seconds, a CD player "Off" command is generated. After another 12 seconds, the remote generates a Standby (toggle) command for Azur Amplifiers. A further 12 seconds and an Amp "On" command is generated. Finally, if the button is held down for a further 12 seconds, an Amp "Off" command is generated.
2. Press and hold the Mute button. The remote first generates a Mute (toggle) command for Azur Amplifiers. Keep holding the button down and after 12 seconds an Amp "Mute On" command will be generated. If the button is held down for a further 12 seconds, an Amp "Mute Off" command is generated.

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

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 the unit is switched on at the rear panel.
- 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 amplifier is set correctly.
- Check that the interconnects are inserted correctly.

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 speaker

- 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.

In the event that the above solutions do not remedy your problem, please consult our frequently asked questions (FAQ) section on our website: www.cambridge-audio.com/sts/faqs
You can also use this facility to post a question to our Technical Support team.

Technical specifications

550C

| | |
|-------------------------------|--|
| D/A Converter | Wolfson Microelectronics WM8740 24-Bit/192kHz capable |
| Filter | 2-Pole Differential Bessel Virtual Earth Balanced |
| Frequency response (+/-0.2dB) | 20Hz - 20kHz |
| THD @ 1Khz 0dBFs | <0.0015% |
| THD @ 1Khz -10dBFs | <0.003% |
| THD @ 20Khz 0dBFs | <0.001% |
| IMD (19/20kHz) 0dBFs | <0.001% |
| Linearity @ -90dBFs | +/- 0.5dB |
| Clock deviation | +/- 20ppm |
| Stopband rejection (>24kHz) | >90dB |
| S/N ratio, A weighted | >100dB |
| Total correlated jitter | <150pS |
| Crosstalk @1kHz | <-100dB |
| Crosstalk @20kHz | <-90dB |
| Output impedance | <50ohms |
| Maximum power consumption | 25W |
| Standby power consumption | <1W |
| Dimensions | 85 x 430 x 305mm (3.4 x 16.9 x 12.2") |
| Weight | 4.8kg (10.6lbs) |

650C

| | |
|-------------------------------|--|
| D/A Converter | Dual Wolfson Microelectronics WM8740 24-Bit/192kHz capable |
| Filter | 2-Pole Dual Differential Bessel Double Virtual Earth Balanced |
| Frequency response (+/-0.1dB) | 20Hz - 20kHz |
| THD @ 1Khz 0dBFs | <0.001% |
| THD @ 1Khz -10dBFs | <0.0005% |
| THD @ 20Khz 0dBFs | <0.002% |
| IMD (19/20kHz) 0dBFs | <0.0005% |
| Linearity @ -90dBFs | +/- 0.5dB |
| Clock deviation | +/- 20ppm |
| Stopband rejection (>24kHz) | >90dB |
| S/N ratio, A weighted | >104dB |
| Total correlated jitter | <140pS |
| Crosstalk @1kHz | <-100dB |
| Crosstalk @20kHz | <-99dB |
| Output impedance | <50ohms |
| Maximum power consumption | 25W |
| Standby power consumption | <1W |
| Dimensions | 85 x 430 x 305mm (3.4 x 16.9 x 12.2") |
| Weight | 4.8kg (10.6lbs) |

Cambridge Audio is a brand of Audio Partnership Plc
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