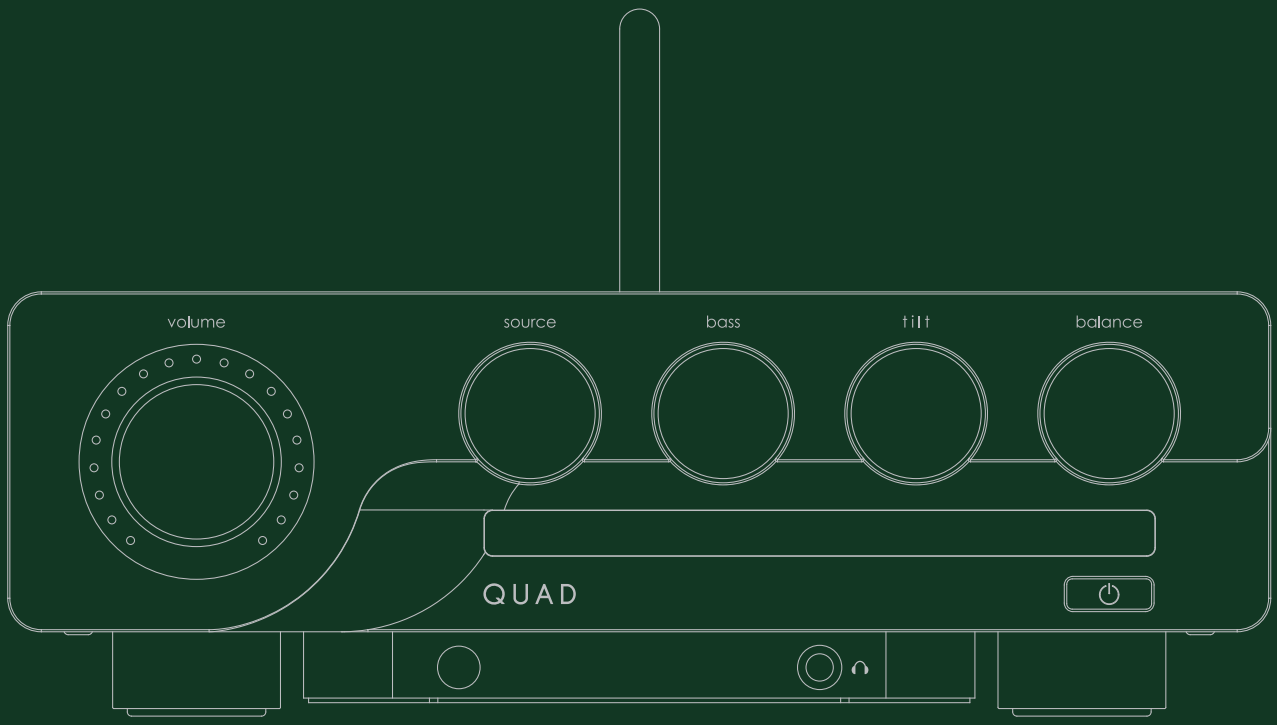
3 YEAR WARRANTY

Scan the QR code using a smart-phone device, for product warranty registration online.

90

QUAD 3



Integrated Amplifier

User Manual

QUAD

the closest approach to the original sound

IMPORTANT SAFETY INFORMATION



This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

Warning: To reduce the risk of electric shock, do not remove the cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.

This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Do not use this apparatus near water.

Clean only with dry cloth.

Do not block any ventilation openings . Install in accordance with the manufacturer’s instructions.

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarised or grounding plug. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

Unplug this apparatus during lightning storms or when unused for long periods of time.

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 is 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: Only use attachments/accessories specified or provided by the manufacturer.

WARNING: The mains plug/appliance coupler/is used as disconnection device; the disconnection device should remain readily operable.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

Do not install this equipment in a confined or built-in space such as a bookcase or similar unit, and keep well ventilated in open space. The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths or curtains.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture . The apparatus should not be exposed to dripping or splashing and ensure that objects filled with liquids, such as vases, shall not be placed on top of the apparatus. No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: This product requires 2 x AAA batteries. Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children. If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.



Ground protection terminal. This product should be connected to a power outlet with ground protection.

Denmark: Apparatets stikprop skal tilsluttes en stikkon-takt med jord, som giver forbindelse til stikproppens jord.

Finland: Laite on liitettävä suojakoskettimilla varustet-tuun pistorasiaan.

Norway: Apparatet må tilkoples jordet stikkontakt.

Sweden: Apparaten skall anslutas till jordat uttag.



This product will generate certain heat during use. Please pay attention to the hot surface.

WARNING: No naked flame sources, such as lighted candles, should be placed on the apparatus.

WARNING: Attention should be drawn to environmental aspects of battery disposal.

QUAD 3

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INTRODUCTION

Thank you for your investment in the QUAD 3. We are sure that the QUAD 3 will continue to delight you for years to come.

The QUAD 3 is designed to be the perfect match for all of your music sources and provides the necessary amplification to realise the highest quality of your music, regardless of the source.

You can link the QUAD 3 to both analogue and digital sources, thanks to its diverse range of input options.

Please read this manual carefully to discover all the ways you can connect your equipment to the QUAD 3 and learn how to get the best performance from all of your music sources.

UNPACKING THE EQUIPMENT

The carton contains:

- The QUAD 3
- One IEC mains cable with a plug suitable for your area
- One remote handset
- One QUAD 3 user manual
- 2 x AAA batteries

Consult the dealer from whom you purchased the equipment if any item is not present. Carefully unpack the unit and accessories. Take care not to damage the surface finish when undoing the protective polythene sleeve. Retain the packing materials for future use. Retain the user manual and information concerning the date and place of purchase of your equipment for future reference. If you transfer the unit to a third party, please pass on this instruction manual along with the equipment.

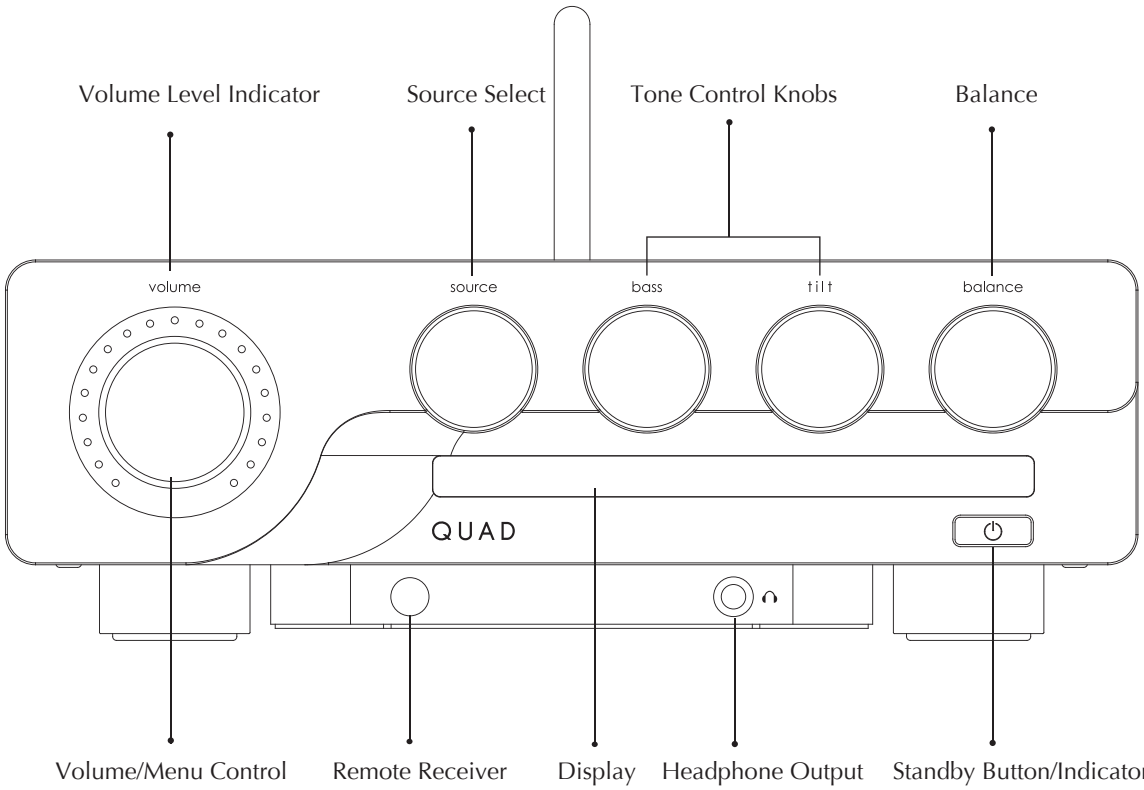
USB DRIVERS (AND FIRMWARE UPDATES)

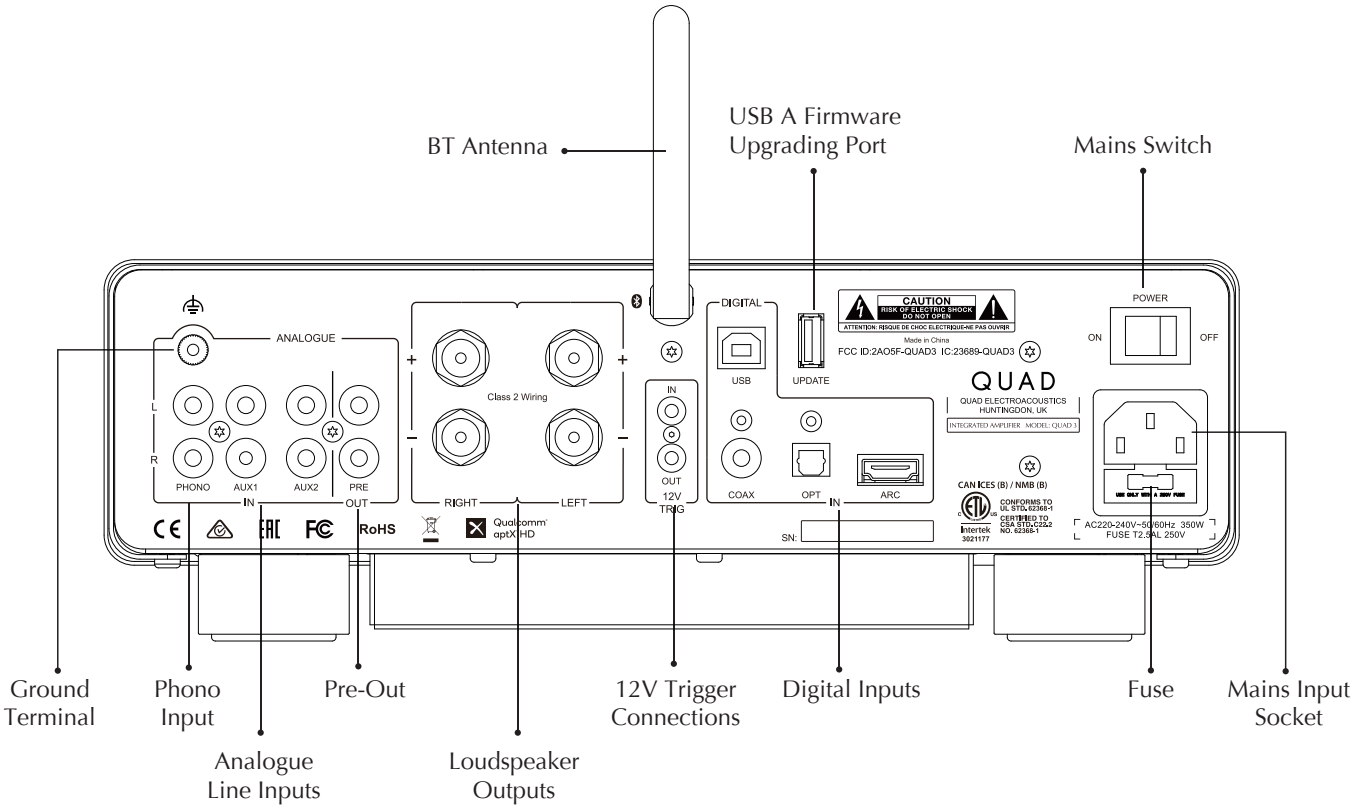
For Windows USB audio driver installation, refer to the separate USB Audio Driver Guide available from quad-hifi.co.uk.
Any firmware updates will also be available from www.quad-hifi.co.uk
All relevant instructions will be provided with the download packages.

PLACEMENT

The unit must be mounted on a solid, level and stable surface. Before you connect the QUAD 3 to AC mains power, ensure your AC mains voltage corresponds to the rating on the rear panel of the product. If in doubt, consult your dealer. If you move to an area which has a different mains voltage, seek advice from a QUAD-appointed dealer or a competent service technician.

CONTROLS AND FUNCTIONS





Volume Indicator

The volume indicator changes as the volume level changes. When all LEDs are lit, the volume level is at maximum. When the amplifier is muted, the LEDs will pulse slowly in a breathing pattern.

Volume/Menu Control

You can rotate the volume controller clockwise to increase the volume and rotate it anti-clockwise to decrease the volume. Press it once to mute or unmute the volume. Press and hold to enter the menu.

Source Select

Rotate this controller to switch between different signal sources.

Tone Adjustment

You can adjust the bass and tilt controllers to adjust the tonal balance according to your preference.

Remote Receiver

Receives commands from the remote handset. Do not obstruct this area.

Headphone Output

A stereo 6.3mm (1/4") jack is provided on the front panel for connecting headphones. When headphones are connected, the loudspeaker outputs are muted.

Standby Button

Press the Standby button briefly to enter or leave standby mode.

Analogue Inputs (Line)

Connect your analogue sources to one of the two line-level inputs, AUX1 or AUX2.

PreOut

A Pre-amplifier output to connect the QUAD 3 to an external power amplifier, active subwoofer or compatible signal processor.

Loudspeaker Terminals

Connect your loudspeakers to these terminals using suitable loudspeaker cables.

12V Trigger Connections

The QUAD 3 features two 12V Trigger connections, one output and one input. Use the output to control other products (ie. QUAD 3CDT or third-party compatible equipment). Use the input when the QUAD 3 is to be controlled by another compatible device. The 12V Trigger connections are made using 3.5mm to 3.5mm stereo or mono jack interconnects (not included).

USB A Firmware Update Port

This port can only be used to upgrade the internal firmware of QUAD 3. It cannot be used to connect a computer or USB disc to play music.

Firmware update instructions will be provided with any updated download package (available from quad-hifi.co.uk).

Switch off the QUAD 3 using the rear-panel mains switch. Insert the USB storage device containing the update files. Press and hold the front-panel Standby button while switching on the unit using the rear-panel mains switch. Keep the USB storage device connected until the display confirms that the update is complete. Switch off the QUAD 3, remove the USB storage device and restart the unit.

INSTALLATION

Before making any connections to your hi-fi equipment, ensure that all units in the system are switched off and unplugged at the mains.

Mains Connections

The Mains On/Off switch is on the rear panel. Before connecting your QUAD equipment to the AC mains supply, confirm that the voltage marked on the rear panel matches your mains supply.

Analogue Signal Output Connections

Pre-Out

The QUAD 3 has one pair of unbalanced RCA outputs which enable the QUAD 3 to operate as a dedicated preamplifier.

Connect an RCA cable between the unbalanced pre output of the QUAD 3 and the unbalanced input of a power amplifier, subwoofer or other equipment. Cables should be of low-noise construction and fully screened to minimise hum and noise transmission.

Loudspeaker Outputs

The QUAD 3 has one pair of loudspeaker outputs.

Connect the positive (+) RED terminals of the amplifier to the positive (+) RED terminals of the loudspeakers. Connect the negative (-) BLACK terminals similarly. When connecting loudspeakers tighten the terminals securely by hand. Make sure there are no loose wire strands which could cause short circuits.

Headphone Output

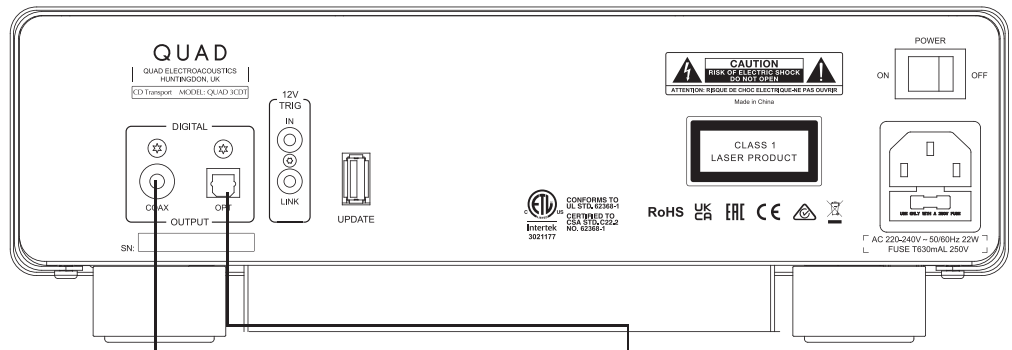
The QUAD 3 has a stereo 6.3mm(1/4”) jack on the front panel for connecting headphones. Connecting headphones will mute the audio signal to the loudspeakers.

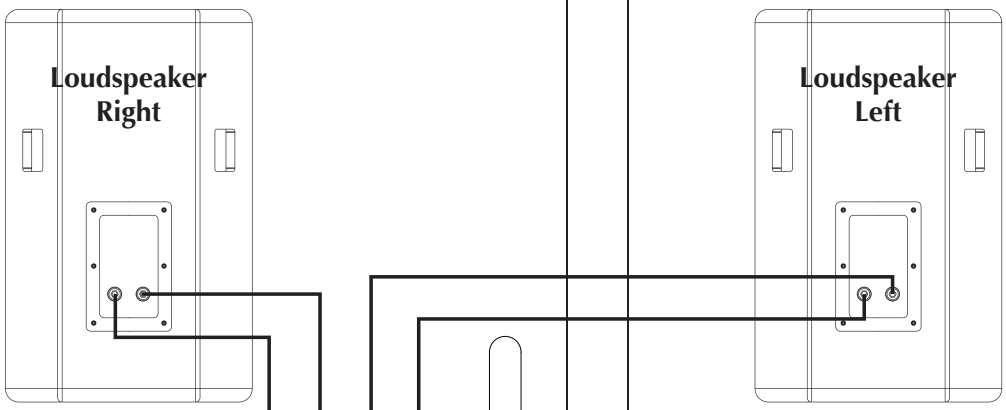
WARNING: Listening to music at high volume levels and for extended durations can damage one’s hearing. In order to reduce the risk of damage to hearing, one should lower the volume to a safe, comfortable level, and reduce the amount of time listening at high levels. Headsets should comply with EN 50332-2 requirements (for GS certification).

CONNECTION

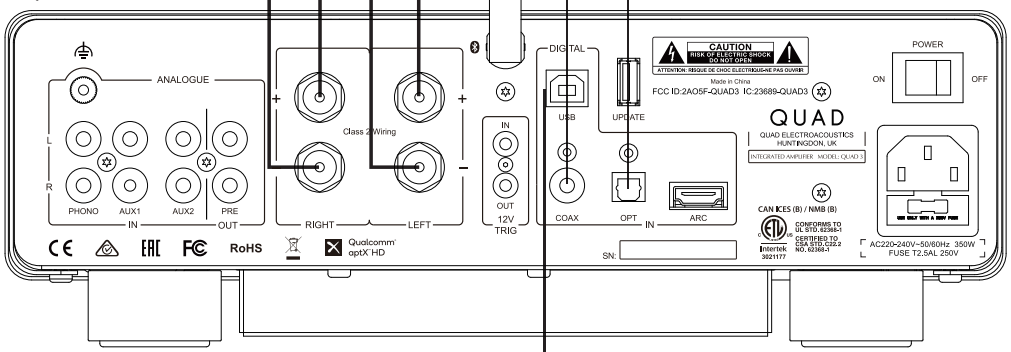
Connecting digital sources and loudspeakers

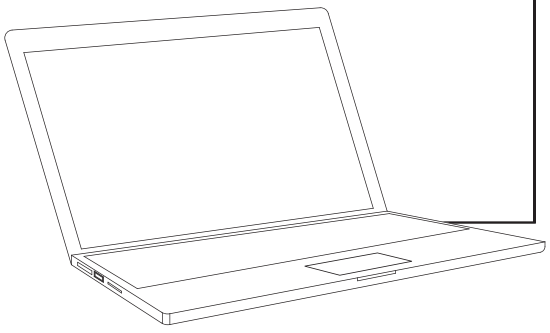
QUAD 3CDT





QUAD 3





Analogue Signal Input Connections

The QUAD 3 has two sets of unbalanced RCA inputs for connection to sources which provide line-level outputs. Both sets are identical.

Connect an RCA cable between an unbalanced input of QUAD 3 and the unbalanced analogue output of a source unit like a CD player or DAC. Cables should be of low-noise construction and fully screened to minimise hum and noise transmission.

Phono Signal Input Connections

The QUAD 3 phono input is designed for turntables fitted with moving-magnet (MM) cartridges.

Digital Signal Input Connections

The QUAD 3 has a variety of digital inputs which can be connected to most popular digital sources, such as the digital output of a CD or streaming transport, DVD player or PC.

Coaxial Input

The QUAD 3 has a coaxial SPDIF input. Connect a digital coaxial RCA cable between the source's coaxial digital output and the COAX input of the QUAD 3.

Optical Input

The QUAD 3 has an optical SPDIF input. Connect a TOSLINK optical cable between the source's optical digital output and the OPT input of the QUAD 3.

Bluetooth Input

Select the BT source option on the QUAD 3. On your Bluetooth transmitter device (ie. smartphone, tablet or PC) use the Bluetooth devices menu to locate 'QUAD 3-xxxx' and connect. Once paired, the Bluetooth icon will appear on the QUAD 3 display. If you switch to another input on the QUAD 3, your Bluetooth device will be disconnected after 60 seconds.

To reconnect, select the BT source on the QUAD 3 and it will automatically reconnect to the last paired device (if the device is within range). Alternatively, select 'QUAD 3-xxxx' on your device in the Bluetooth menu and it will reconnect.

To disconnect a device, press and hold the ⏯ button on the remote controller.

PC USB Input

Connect your computer to the QUAD 3 via a USB cable (Type-A to Type-B). Select the USB source using the handset or the source controller on the front panel.

To download the Windows audio driver please visit quad-hifi.co.uk.



USB Type-B

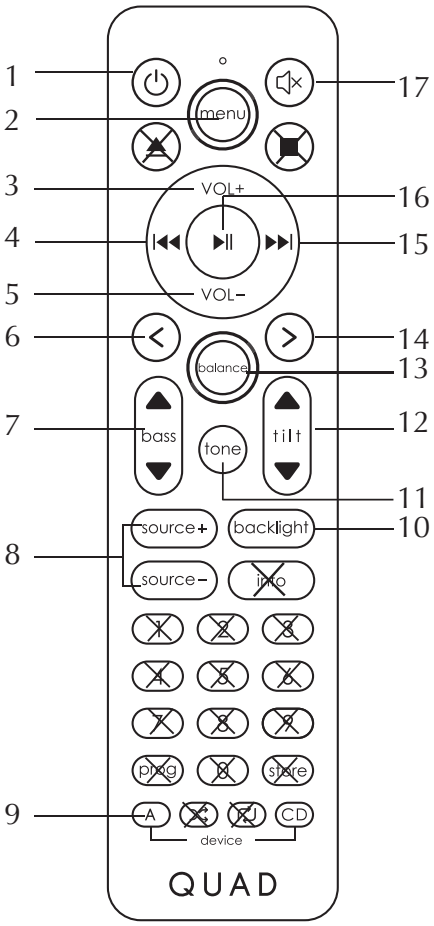
ARC Digital Input

Connect the ARC input of the QUAD 3 to the HDMI ARC/eARC port of your TV using an HDMI cable. Ensure that HDMI-CEC and ARC are enabled in the TV settings and set the TV's digital audio output to PCM stereo or two-channel PCM. Setting names vary between TV manufacturers; refer to your TV's instructions for details.

Please note: Your TV must support the HDMI-CEC and ARC functions. HDMI-CEC and ARC must be set to 'on'. Please make sure that your TV's HDMI ARC Audio output is set to PCM Stereo or PCM 2-channel*. The configuration method of HDMI-CEC and ARC differs depending on the brand or model of your TV. For details about the ARC function, please refer to your TV owner's manual. Please make sure that you are using a HDMI 1.4 cable or higher to support the ARC functionality.

*Exact naming may vary depending on your TV.

REMOTE HANDSET



1. Standby	Press to put the unit in, or bring it out of 'standby'
2. Menu	Press to access or exit the setup Menu.
3. Volume Up	Increase volume and navigate settings menu
4. ⏮	Navigate settings menu
5. Volume Down	Decrease volume and navigate settings menu
6. Balance Left	Adjusts balance to the left
7. Bass Option	Adjust bass tone control
8. Source Option	Select input source
9. Device Selection	Press to select the device - A/CD (this allows owners of QUAD 3 integrated amplifier and QUAD 3CDT to use a single remote control).
10. Backlight switch	Short press turns backlight 'on' or 'off'. Long press to access backlight menu.
11. Tone	Press to select tone control 'on' or 'off'.
12. Tilt Option	Adjust the Tilt control settings
13. Balance Center	Resets balance control to the center position
14. Balance Right	Adjusts balance to the right
15. ⏭	Navigate settings menu
16. ⏯	Select options in settings menu
17. Mute	Press to mute or unmute the QUAD 3

Fit the Batteries

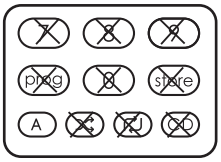
Open the cover, insert 2 x AAA batteries and replace the cover. Always use AAA batteries and replace them in sets – never mix up old and new batteries. Very weak batteries can leak and damage the handset. Replace them in good time!

Note: there is a risk of fire and injury if a battery is handled improperly. Do not disassemble, crush, puncture, short the contacts or dispose of the batteries in fire or water. Do not attempt to open or service a battery. Discard used batteries in full accordance with recycling regulations in force in your area.

Handset Operation

Point the handset at the remote receiver and press the buttons as illustrated to activate the relevant functions. The handset should be within 15 metres of the device and there should be a clear line of sight between the handset and the unit for optimum remote control operation.

Note: The buttons shown crossed out are for use with the QUAD 3CDT model and offer no function on the QUAD 3.



OPERATION

Standby Mode

The QUAD 3 will be in standby mode when powered on. The ⏻ indicator on front panel will be illuminated.
Press the ⏻ button to take the QUAD 3 out of standby mode. The indicator light will dim.

Protection Mode

The QUAD 3 incorporates protection against excessive temperature, overload and short-circuited loudspeaker outputs. If protection is activated, switch off the amplifier and allow it to cool. Check the loudspeaker connections and ensure adequate ventilation before switching it on again.

Mute Mode

Users can press the remote handset button 🔇 or press the volume knob to mute or unmute the QUAD 3, when playing music. When muted, the volume indicator on the front panel will flash.

MENU OPTIONS

-< FILTER >-

Configure the digital filter for the audio DAC. LINEAR (SLOW) is the default setting.

• LINEAR (FAST): This commonly selected filter offers clean overall suppression and excellent rejection, best for music with large transients. Provides crisp clean highs.

• LINEAR (SLOW): A low group delay and symmetrical input response with less ringing than 'Linear-phase fast roll-off'. It offers punchier bass than LINEAR (FAST), with clean highs. (Default)

• MINIMUM (FAST): This offers minimal pre-ringing. It is usually preferred for imaging and soundstages. It offers no aliasing in the frequency domain and stronger bass than 'LINEAR (FAST)', with clean highs.

• MINIMUM (SLOW): A non-symmetrical filter designed to minimise pre-ringing. It offers a strong punchy bass with a good transient attack.

• HYBRID: This is the combination of LINEAR (FAST) and MINIMUM (FAST). It offers a fast transient attack, strong punchy bass and crisp highs.

-< SENSITIVITY >-

The gain of AUX1, AUX2 and PHONO analogue signals can be adjusted +/-6dB in 1dB increments.

-< Upsampling >-

The QUAD 3 will automatically upsample the incoming digital audio signal (SPDIF or PC USB) to 352.8KHz or 384KHz.

The upsampling can be turned OFF if required.

-< DPLL >-

This setting is used for changing the bandwidth of the digital phase lock loop of the D/A converter to accommodate different levels of jitter on the incoming SPDIF signal. 'Normal' mode should be selected for signals with low jitter, while Wide mode should be selected for signals with abnormal jitter. For the best audio quality, leave this setting at its default value of Normal. Use Wide only if the system has difficulty locking to the source signal.

-< VOL LIMIT >-

VOL LIMIT sets the maximum volume level used when the QUAD 3 leaves standby. The previous volume setting is restored unless it exceeds the selected limit, in which case the volume is set to the limit value. This helps prevent an unexpectedly high volume level at the beginning of a new session.

-< TONE >-

TONE can be turned ‘on’ or ‘off’ in the menu.

It can also be enabled or disabled via the ’TONE’ button on the remote handset and adjusted via the ‘TONE’ controls on he front panel interface of the QUAD 3.

-< CEC >-

Activate or deactivate the CEC function of the QUAD 3. If you want QUAD 3 to sync power on and off with your TV, CEC should be set to ‘On’. CEC is set to ‘Off' by default, which means the QUAD 3 will not switch on automatically with your TV set, but still allows QUAD 3 volume control via your TV remote.

Note: CEC performance will vary according to your TV or third-party HDMI CEC specification. CEC response times vary between devices. Enabling CEC may therefore cause a short delay before audio is available when the QUAD 3 is switched on using the TV remote.

-< CONTRAST >-

The contrast can be adjusted from Level 1 to 5.

-< TRIGGER >-

Activate or deactivate the 12V trigger function of the QUAD 3.

-< AUTO STANDBY >-

The ‘auto standby’ feature will, by default, put the unit into standby after 20 minutes of inactivity.

This feature can be configured and set to 20 minutes, 60 minutes or ‘never’.

-< BACKLIGHT >-

The backlight can be switched off or adjusted from Level 1 to Level 3.

-< DISPLAY TEXT >-

You can set the display text 'on' or 'off'.

-< VERSION >-

Check the currently installed firmware version.

-< RESET >-

Reset the QUAD 3 to the factory default settings.

The Menu

The menu enables you to customise the unit and optimise the interface with other equipment in your system.

Press the ‘menu’ key on the remote controller to enter menu mode, and then press ' ⏮ ' or ' ⏭ ' to cycle through the menu options. Press ' ⏯ ' to access the sub menus and press ' ⏯ ' again to confirm any selection.

You can also press and hold the Volume/Menu control on the front panel to enter the menu, then rotate it to cycle through the menu options. Press the Volume/Menu control again to enter the submenu. Press again to confirm any changes. Long press the volume controller to go back up a level, or exit the menu.

WARRANTY COVERAGE

QUAD warrants this product, subject to the terms and conditions below, to be free from defects in materials and workmanship. During the warranty period QUAD will repair or replace (at QUAD's option) this product, or any defective part in this product, if it is found to be defective due to faulty materials, workmanship or function. The warranty period may vary from country to country.

Online Registration

3 YEAR WARRANTY

Scan the QR code using a smartphone device, for product warranty registration online.

The three (3) year extended warranty is applicable to items purchased from Jan 1st 2021, onwards. Items purchased prior to this date are not eligible for this extended warranty service but are subject to statutory warranty claims and all applicable consumer rights.

To qualify for the extended 3 year warranty, you must register your product within ninety (90) calendar days from the date of purchase.

Visit *https://www.QUAD-hifi.co.uk/warranty-registration* to complete your online registration. Items not registered online will have a Limited Warranty for one (1) year, or for the period of your country's statutory warranty, whichever is longer.

Warranty can only be offered to products registered with proof of purchase with date, model and details of the authorised dealer clearly stated on the receipt/invoice. Please keep the original receipt/invoice in case it is required for a warranty claim.

This Limited Warranty is non-transferable and is offered exclusively to the original owner.

This Limited Warranty is valid only in the original country of purchase.

Repairs or replacements provided under this warranty are the exclusive remedy of the consumer. QUAD shall not be liable for any incidental or consequential damages for breach of any expressed or implied warranty with any product. Except to the extent prohibited by law, this warranty is exclusive and in lieu of all other warranties whatsoever, both expressed and implied, including but not limited to the warrant of merchantability and fitness for a particular purpose.

This warranty provides benefits that are additional to and do not affect your statutory consumer rights.

This Limited Warranty offer is subject to correct information being submitted in your application. Incorrect dates or mismatched purchase receipt dates that are outside of the warranty terms will immediately invalidate any warranty claim.

*Please check with your dealer or local distributor for further information.

Exclusions

The following items are excluded from the QUAD warranty:

Normal wear and tear and cosmetic damage (including but not limited to any wear from reasonable use, environmental deterioration or neglect)

Products on which the serial number has been removed, altered or otherwise made illegible.

Products not purchased from an authorised QUAD dealer.

Products that were not new at the time of original purchase.

Products sold 'as is', 'as seen' or 'with faults'.

Product not purchased from an authorised dealer/distributor within the region of the claim (ie parallel imports or grey market products)

Accidental damage or faults caused by commercial use, acts of God, incorrect installation, incorrect connection, incorrect packaging, misuse or careless operation or handling which is not in accordance with the user instructions.

Equipment that has been operated in conjunction with unsuitable, inappropriate or faulty apparatus.

Repairs, alterations or modifications carried out by parties other than QUAD or its authorised service partners.

Damage in transit that cannot be attributable to the fault of QUAD, the authorised distributor or dealer (ie. claims otherwise covered by transit insurance.)

Faults relating to abnormal or inappropriate power supply voltage or power surges.

Faults relating to extremities in temperature, exposure to heat, water or other liquids, insects, excessive moisture, sand, chemicals, battery leakage or any other contaminants.

Any force majeure events, including but not limited to any acts of God, fire, lightning, typhoon, storm, earthquake, hurricane, natural disaster, tsunami, flood, war, riot, public disturbance.

Any other causes beyond the reasonable control of either QUAD and its authorised distributor.

Please note items purchased before 1st Jan, 2021 are not eligible for the extended warranty claim.

How to Claim

To obtain warranty service please contact the authorised dealer from which you purchased this product and present the limited warranty certificate offered upon registration of your product's extended warranty offer.

Do not dispatch goods without the prior agreement of the dealer distributor or authorised service centre.

If asked to return products for inspection and/or repair, please pack carefully preferably in the original carton or packaging affording an equal degree of protection and return via insured, trackable courier service.

The authorised dealer or distributor will offer full return details and instructions. However, please note if unsuitable packaging is used the warranty may be deemed void due to inadequate return packaging.

QUAD, the authorised distributor, dealer or service centre may make a charge for the supply of new packaging for the return of the repaired item. Please note, insurance is recommended as goods are returned at the owner's risk. Authorised distributors or service centres cannot be held liable for loss or damage in transit. Insurance and freight charges on the return journey will be paid for by QUAD, authorised dealer, distributor or service centre if corrective work proves to be necessary.

In the event of 'no-fault found' or 'no repair necessary', the return shipping charge will be the responsibility of the owner.

Repairs

All repairs will be carried out by the appointed distributor (or locally appointed service centre). Repairs handled or processed without authorisation or approval of the appointed representative will be excluded from this limited warranty. Please note, QUAD is not able to supply parts or replacement items to any other entity than the official distributor or authorised service centre.

Other than the warranty and services set out in this warranty, to the fullest extent permitted by law, QUAD shall not be liable to you and/or any third party or entity whatsoever for:

- Any loss, damages and/or malfunction caused to any product(s) which is/are connected to any of the products covered by this warranty.
- Any damages, loss and liability, whether direct, indirect, incidental, consequential special, punitive or otherwise, howsoever caused by, arising out of or otherwise, in relation to the installation, delivery, use, service, repair, replacement and/or maintenance of the product;
- Any damages, loss and liability under this warranty in respect of any act, omission, or negligence of any of their technicians, employees, agents, representatives or independent contractors relating to the actual or purported performance of any of the obligations under this warranty.

Service Centre Address

Should a fault occur with your product, please pack it correctly using the original packing, so you can ship it safely. For technical support, servicing or product queries and information, please contact either your local retailer or the office below:

IAG Service Dept.
13/14 Glebe Road
Huntingdon
Cambridgeshire
PE29 7DL
UK

Tel: +44(0)1480 452561
Email: support@iaguk.co.uk

For information on other authorised service centres worldwide contact QUAD International, UK.

A list of worldwide distributors is available on the QUAD website: www.quad-hifi.co.uk

SPECIFICATIONS

Model	QUAD 3
Design Philosophy and Core Technology	2 x 65W (8 ohm), 2 x 100W (4 ohm)
	Class AB power amplifier section
	ES9038Q2M 32-bit DAC
	Bluetooth 5.1 (aptX/aptX HD)
	Dedicated High-performance Low-noise MM Phono stage
	Dedicated Current-feedback Headphone Amplifier
	Built-in Bass and Tilt adjustment
	USB Firmware Update
Inputs	2 x Stereo RCA Analogue (Aux), 1 x Phono (MM) inputs
	1 x SPDIF (Coax), 1 x SPDIF (Optical), 1 x PC USB
	1 x HDMI ARC, 1 x Bluetooth (aptX/aptX HD), 1 x 12V Trigger
Outputs	1 x Pre-out,1 x Stereo Speaker (pair) ,1 x Headphone, 1 x 12V Trigger
Sampling Frequency	Optical/Coaxial: 44.1kHz -> 192kHz
	PC USB: 44.1kHz -> 768kHz (PCM)/DSD64, DSD128, DSD256, DSD512
Preamplifier Section:	
Gain (max.)	+0dB (Line)
	+47dB (Phono MM)
Input Sensitivity	800mVrms (Line, Volume = 0dB)
	3.6mV (Phono MM, Volume = 0dB)
Input Impedance	10k ohm (Line)
	47k ohm / 100pF (Phono MM)
Total Harmonic Distortion (THD)	<0.001% (1kHz @ 2V, Volume = 0dB)
Frequency Response	20Hz-20kHz (+/-0.1dB)
Output Voltage	2.3V max. (Volume = 0dB)
Output Impedance	120 ohm
Signal-to-Noise ratio	>110dB (A-weighted)
	>78dB (Phono MM, A-weighted)
DAC	
D to A Converter	ES9038Q2M
Total Harmonic Distortion (THD)	<0.001% (1kHz @ 0dBFS)
Output level (0dBFS, 1kHz)	2.05Vrms
Max. Sampling Frequency	Optical/Coaxial: 192kHz
	PC USB: PCM768kHz, DSD512
Signal-to-noise Ratio (S/N)	>116dB (A-weighted)
Power Amplifier Section	Power Amplifier Section
Gain	+29dB
Rated Power Output	2 x 65W (8 ohm, THD<1%)
	2 x 100W (4 ohm, THD<1%)
Frequency Response	20Hz-20kHz (+/-0.3dB)
Total Harmonic Distortion (THD)	<0.003% (1kHz @ 30W/8ohm)
Input Sensitivity	800mVrms
Signal-to-Noise ratio (S/N)	>110dB (A-weighted)
Max. Output Current	10A

SPECIFICATIONS

Headphone Amplifier	
Total Harmonic Distortion (THD)	<0.01% (1kHz, 50mW)
Output Impedance	2.35 ohm
Load Impedance	20-600 ohm
General	
Standby Power Consumption	<0.5W
Net Weight	8kg
Gross Weight	9.3kg
Dimensions (W x H x D)	300 x 101 x 332mm
Carton Size (W x H x D)	366 x 215 x 420mm
Finish	Classic QUAD grey / Black
Power requirements (depending on region)	220-240V ~50/60Hz 100-120V ~50/60Hz
Standard accessories	Power Cable, Remote Handset, User Manual, 2 x AAA batteries



Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.


QUAD
volume
source
bass
tilt
CO-AX
PCM
QUAD


volume
source
bass
tilt
balance
CD-AX
PCM 44.1KHZ
QUAD
CD
PLAY
02 00:19
QUAD

QUAD

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