QUAD 90

QUAD 33

User Manual



3 YEAR WARRANTY

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

Important Safety Information



This lightning flash with an 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 cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel. The 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 a 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-type plug. A polarised plug has two blades with one wider than the other. 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 the replacement of the obsolete outlet.

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

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 power supply cord or plug is damaged, liquid has been spilt or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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 an open space. The ventilation should not be impeded by covering the ventilation openings with items such as newspapers, tablecloths and curtains.

WARNING: Only use attachments/accessories specified or provided by the manufacturer (such as the power cord, remote handset, battery etc.).

WARNING: Please refer to the information on the exterior panel of the enclosure for electrical and safety information before installing or operating the apparatus.

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 objects filled with liquids, such as vases, cups or mugs, shoulf not be placed on the apparatus.

WARNING: Terminals marked with the symbol of "⚡" may be of sufficient voltage to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.



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

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

Finland: Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Norway: Apparatet må tilkoples jordet stikkontakt.

Sweden: Apparaten skall anslutas till jordat uttag.

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.

THE FUSE VALUES ARE:
220 – 240V (UK, China, etc.) T 500mAL 250V Slow Blow
100 – 120V (USA, Japan, etc.) T 1.0AL 250V Slow Blow

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Getting Started

Welcome to the QUAD 33.

Features

- Dedicated high-performance, Low-noise MM/MC Phono Dtage
- Classic QUAD Bass and Tilt Adjustment
- Classic QUAD Balance Control
- Tone Controls with Bypass Function
- Dedicated Current-Feedback Headphone Amplifier
- Illuminated LCD Screen

Inputs

- Three unbalanced analogue (AUX) input pairs
- One balanced analogue (XLR) input pair
- One switchable MM/MC phono input pair

Outputs

- One balanced analogue (XLR) output pair
- One unbalanced analogue (Pre-out) output pair
- One unbalanced analogue (AUX) output pair
- Two 12V trigger outputs

Unpacking the Equipment

The carton should contain:

- The QUAD 33
- One IEC power cable suitable for your region
- One remote handset
- One 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.

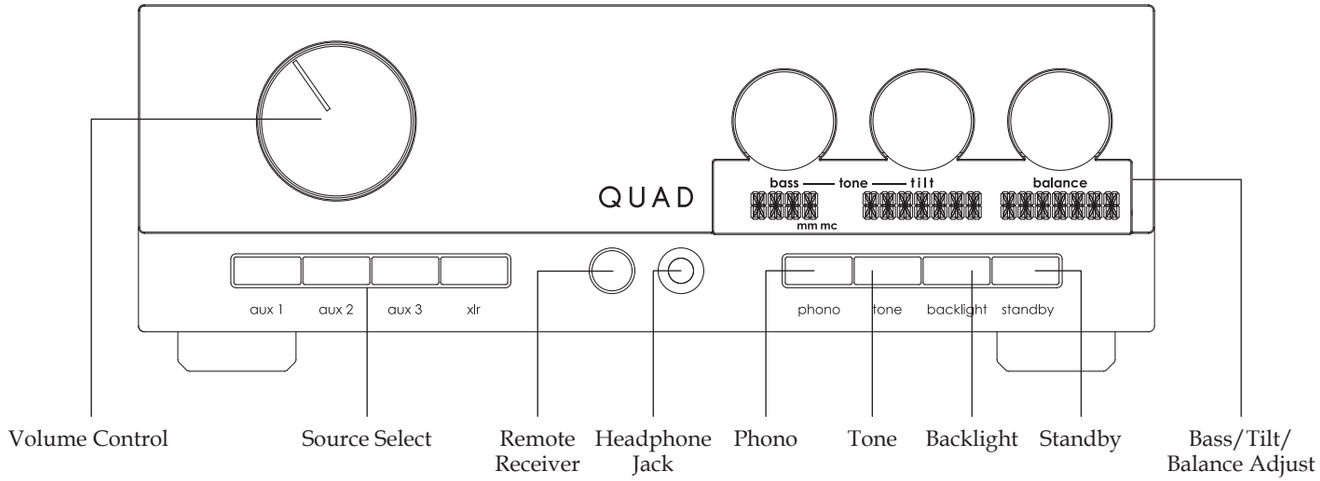
Placement

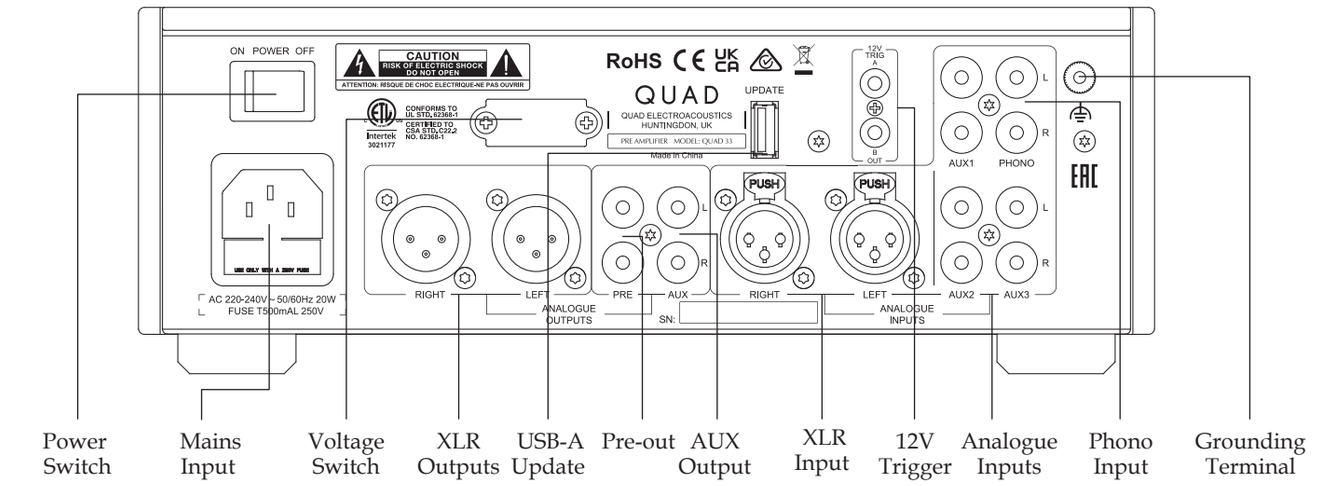
The unit must be mounted feet down on a solid, level and stable surface.

Mains Supply

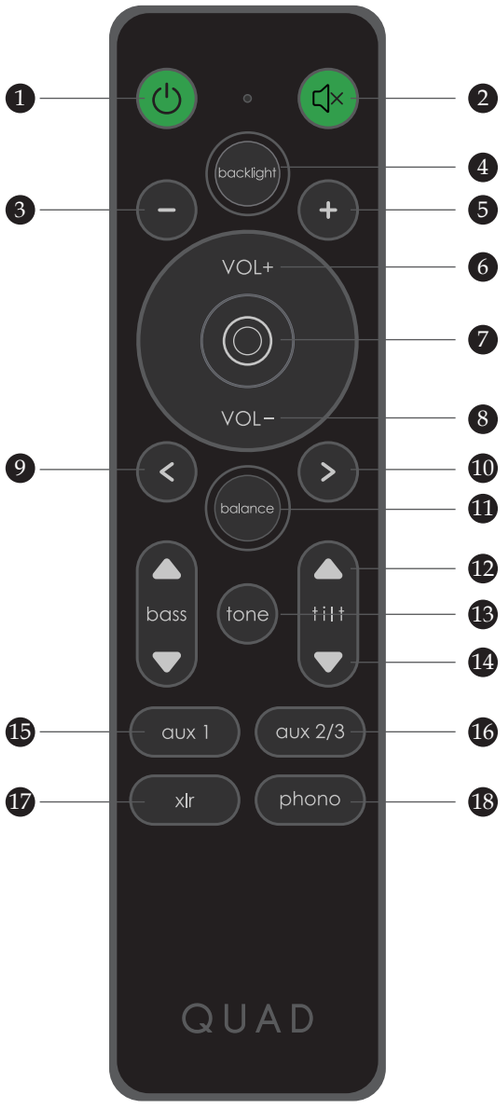
Before you connect the QUAD 33 to the AC mains power, ensure your AC mains voltage corresponds to the rating on the rear panel of the product. If in doubt, consult your dealer. If you move to an area that has a different mains voltage, seek advice from a QUAD-appointed dealer or a competent service technician.

Controls and Functions





Remote Handset



1.	Standby	Press to put the unit into, or bring it out of standby
2.	Mute	Press to mute and unmute the unit
3.	-	Decrease backlight brightness/contrast
4.	Backlight	Press to enable or disable backlight/long press to adjust contrast
5.	+	Increase backlight brightness/contrast
6.	VOL+	Increase volume
7.	◎	Press to confirm a selection/long press to enable or disable display text
8.	VOL-	Decrease volume
9.	<	Press to adjust balance (left+/right-)
10.	>	Press to adjust balance (left-/right+)
11.	balance	Press to reset balance
12.	▲	Press to increase bass/tilt
13.	tone	Press to enable/disable tone
14.	▼	Press to decrease bass/tilt
15.	aux1	Press to select aux 1 input
16.	aux2/3	Press to cycle and select aux 2 or 3 input
17.	xlr	Press to select XLR input
18.	phono	Press to select phono input

Insert the batteries

Open the cover, insert two AAA batteries and replace the cover. Always use AAA batteries and replace them in sets. Never mix old and new batteries. Very weak batteries can leak and damage the handset. We recommend replacing your batteries 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 region.

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 player and there should be a clear line of sight between the handset and unit for optimum remote control operation.

Connections

Analogue Outputs

Balanced Output

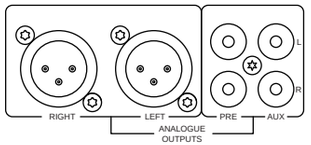
Balanced connections can provide greater dynamic range and lower noise. If your amplifier has balanced inputs, such as the matching QUAD 303 power amplifier, we recommend using the balanced connections wherever possible.

Unbalanced Output (AUX)

The fixed-level AUX output is not affected by the QUAD 33 volume or tone controls. It can be connected to an integrated amplifier, audio processor, AV controller or recording device.

Pre-out

If you cannot use the balanced outputs, connect high-quality, screened stereo RCA cables from the pre-out of the QUAD 33 to line-level (RCA) inputs of your power amplifier (such as the QUAD 303).



Headphone Output

A stereo 6.3mm (1/4”) jack is provided on the front panel for connecting headphones. When headphones are connected, the pre-out will be deactivated.



Analogue Inputs

Balanced Input

Balanced connections can provide greater dynamic range and lower noise. If your source has balanced outputs, please connect them to the QUAD 33 balanced inputs. You will need one balanced XLR cable for each channel.

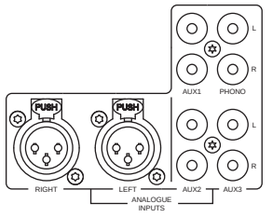
Unbalanced Input (AUX)

Connect your analogue sources to one of the three line-level inputs AUX1, AUX2 or AUX3.

Phono Input (MM/MC)

Connect your turntable to the phono input. Connect the earth lead from your turntable (if available) to the ground terminal.

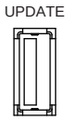
The QUAD 33 phono preamplifier input is compatible with MM and MC cartridge types. Press the Phono button repeatedly on the front panel or remote handset to switch between MM and MC operation.



USB-A Update

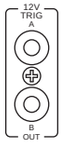
Visit the QUAD website (quad-hifi.co.uk) to check for firmware updates. These may be periodically released without notice. Please follow the instructions within the package downloaded from the QUAD website. Use only firmware updates downloaded from the official QUAD website – quad-hifi.co.uk.

We recommend registering your product at quad-hifi.co.uk to activate the extended warranty, where applicable, and receive product-update notifications.



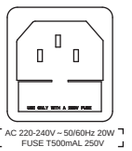
12V Trigger Connection

The QUAD 33 has two 12V Trigger outputs. Use the outputs to control QUAD 303 or other compatible devices with 12V trigger functionality.



Mains Input

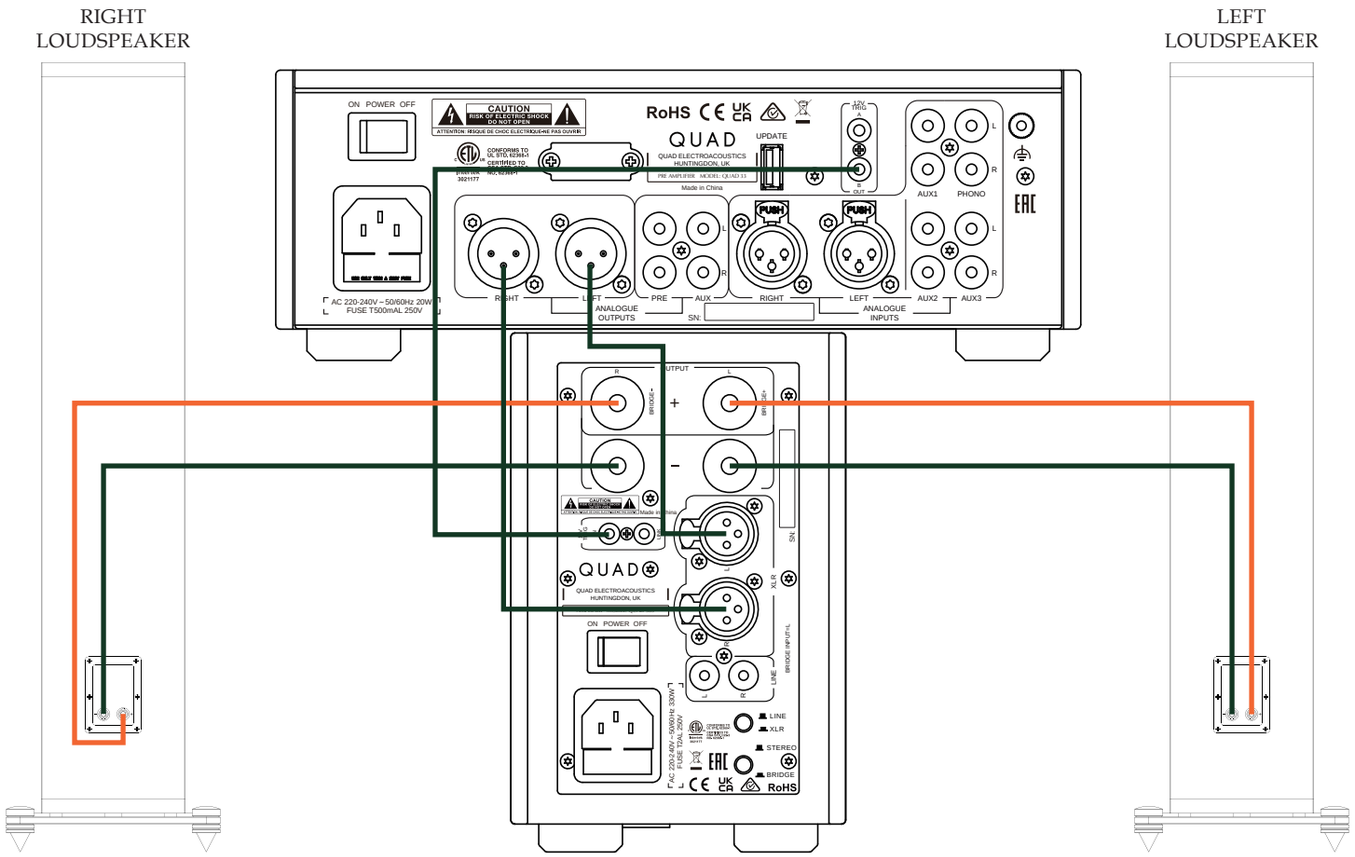
Before connecting the AC power cord to the QUAD 33, please make sure the power switch is in the OFF position. Switch it to the ON position after connecting the unit to the AC mains.



System Connection

Stereo connection with a QUAD 303 power amplifier

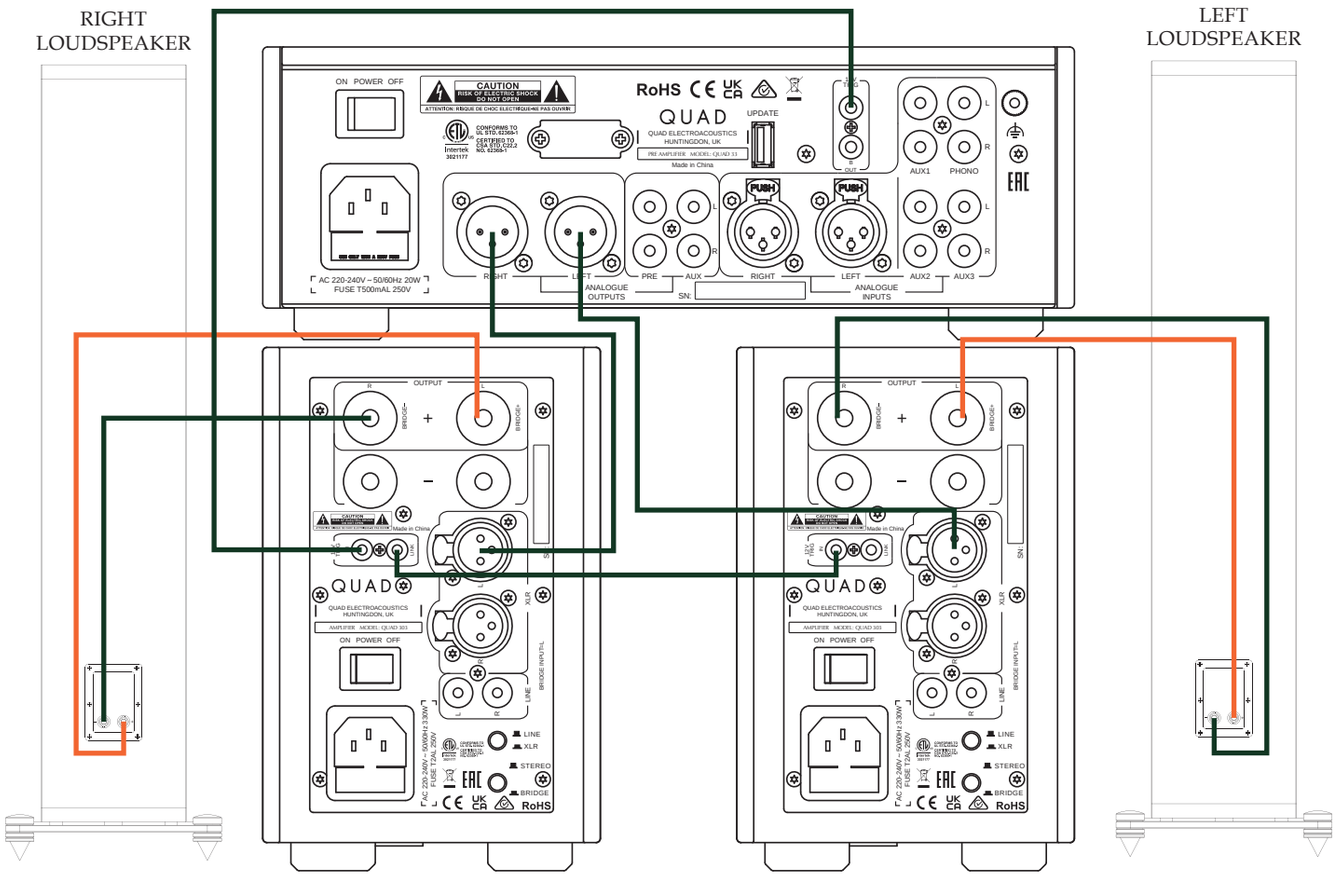
Set the QUAD 303 to stereo mode and select the input type corresponding to the connection shown.



Bridge-mode with Mono amplifiers (such as the QUAD 303)

In bridge mode, connect each loudspeaker between the two positive speaker terminals of its corresponding QUAD 303, as shown below. Do not use either negative terminal.

Set both QUAD 303 amplifiers to bridge mode and connect each preamplifier channel to the left-channel input of its corresponding amplifier.



System Operations

Switching On and Off

The QUAD 33 should be switched on before the amplification stage in your system. When switching off your system, turn off the amplifier stage before switching off the QUAD 33. The QUAD 33 should be switched on first on and switched off last.

Standby Mode

After initial power-on, the QUAD 33 will be in 'Standby' mode and the standby button will be dimly illuminated. To use the QUAD 33, press the 'Standby' button to switch the unit on. The backlight will illuminate and the display will become active as the unit enters the normal operating mode.

Source Select

Use the front-panel source selector buttons or the corresponding input buttons on the remote handset to select the required source.

The aux2/aux3 button on the remote control will cycle between aux2 and aux3.

In phono mode, you can press phono button to cycle select MM/MC mode.

The selected source indicator/button will be illuminated

Volume Control

Rotate the VOL knob on the front panel, or use the Volume up/down keys on the remote control, to set the volume level.

Mute

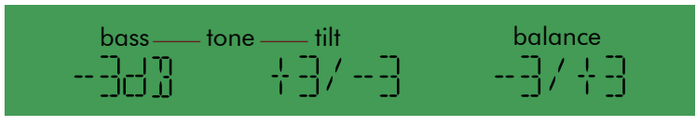
Press the mute button on the remote control to activate or deactivate the mute function.

Tone

Press the tone button on the front panel or the remote control to activate the 'tone' function. The Tone button illuminates when the tone controls are active.

Rotate the 'bass' or 'tilt' knob or press the corresponding buttons on the remote control to adjust 'tone' settings.

The tilt adjustment range extends from +3dB bass/–3dB treble to –3dB bass/+3dB treble.



Balance

Rotate the front-panel Balance control or use the left/right buttons on the remote handset to adjust the left/right balance of the unit's output. The range is three steps to the left or right.

Backlight

Press the backlight button on the remote control to enable or disable the display and function button backlight.

Use the – and + buttons on the remote control to decrease or increase the display backlight level. There are three levels of illumination. The default setting is L2.

Press and hold the front-panel Backlight button, then press it briefly to cycle through L1, L2 and L3.

When the backlight is disabled, it will light briefly upon any source or control change, and then turn off again after a few seconds.



System Operations

Contrast

Press and hold the Backlight button on the remote handset for five seconds to activate the contrast adjustment function. Use the – and + buttons on the remote handset to decrease or increase contrast. The default setting is C5.



Auto-Standby

By default, the auto-standby function places the unit in standby after 20 minutes of inactivity. This feature can be configured and set to 20 minutes, 1 hour or 'never'.

Press and hold the front-panel Standby button for five seconds to activate the setting. Press the standby button again to cycle through the setting options. The standby LED will flash as you cycle 20 minutes, 1h or never.

Standby LED flashes once = Never

Standby LED flashes twice = 20 minutes

Standby LED flashes three times = 1 hour

Reset

To reset all settings, press and hold the front-panel Standby and Phono buttons simultaneously for three seconds.

Check Firmware Version

Press and hold the front-panel Standby button for three seconds to display the installed firmware version.



Firmware Update

For MCU firmware updates please visit the QUAD website to find the latest version. Please read the update instructions before commencing any update.

Save the QUAD33.bin in the root directory of a FAT32 USB drive (Maximum 32GB). Switch off the unit and insert the USB storage device into the rear-panel USB-A port. Press and hold the front-panel Standby button while switching on the unit using the rear-panel mains switch. Do not switch off the unit or remove the USB storage device while the update is in progress. When FINISH appears, switch off the unit, remove the USB storage device and restart the QUAD 33.

INUD ▶ UDIN ▶ PROING ▶ FINISH



Warranty

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 are 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 expenses 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 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 returned 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 or 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

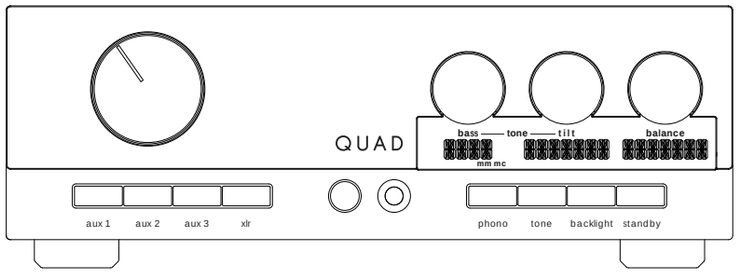
Tel: +44(0)1480 452561
Email: support@iaguk.co.uk

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 33
General Description	Preamplifier
Design Philosophy and Core Technology	Illuminated LCD screen Dedicated High Performance Low Noise MM/MC Phono stage Classic QUAD 'Tilt' adjustment Classic QUAD Tone Controls Dedicated Current-Feedback Headphone Amplifier
Inputs	3 × stereo RCA line inputs, 1 × stereo balanced XLR input, 1 × switchable MM/MC phono input
Outputs	1 × fixed-level stereo RCA output, 1 × balanced stereo XLR pre-out, 1 × unbalanced stereo RCA pre-out, 1 × headphone output, 2 × 12V trigger outputs
Preamplifier Section	
Gain	0dB (Line / XLR) +46dB (Phono MM) +63.5dB (Phono MC)
Input Sensitivity (Vout=695mV)	695mV (Line / XLR) 3.2mV (Phono MM) 460uV (Phono MC)
Input Impedance	10k ohms (Line / XLR) 47k ohms /100pF (Phono MM) 100 ohms /1.7nF (Phono MC)
Total Harmonic Distortion (THD)	<0.0005% (1kHz, Line/XLR) <0.002% (1kHz, Phono MM / MC)
Frequency Response	20Hz - 20kHz (+/-0.2dB)
Signal-to-Noise Ratio (S/N)	> 108dB (A-weighted, Line/XLR) > 82dB (A-weighted, Phono MM) > 74dB (A-weighted, Phono MC)
Output Impedance	120 ohms
Headphone Amplifier	
Total Harmonic Distortion (THD)	< 0.01% (1kHz, 50mW)
Output Impedance	2.35 ohms
Load Impedance	20 - 600 ohms
General	
Standby Power Consumption	<0.5W
Net weight	4kg
Gross weight	4.96kg
Dimensions (mm) (W x H x D)	258 x 94 x 165
Carton Size (mm) (W x H x D)	330 x 192 x 257
Finish	Classic QUAD Grey / Black
Power requirements (depending on region)	220 - 240V - 50/60Hz 100 - 120V - 50/60Hz
Standard accessories	Power Cable Remote Handset 2 x AAA batteries User Manual





QUAD


QUAD
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QUAD
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QUAD


QUAD
QUAD
bass tone trim balance
aux 1 aux 2 aux 3 xlr
phono tone backlight standby
QUAD
standby

QUAD


1984
GEORGE ORWELL
QUAD



QUAD

QUAD

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Tel: +44(0)1480 452561 Email: support@QUAD-hifi.co.uk http://www.QUAD-hifi.co.uk
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QUAD is a member of the International Audio Group.