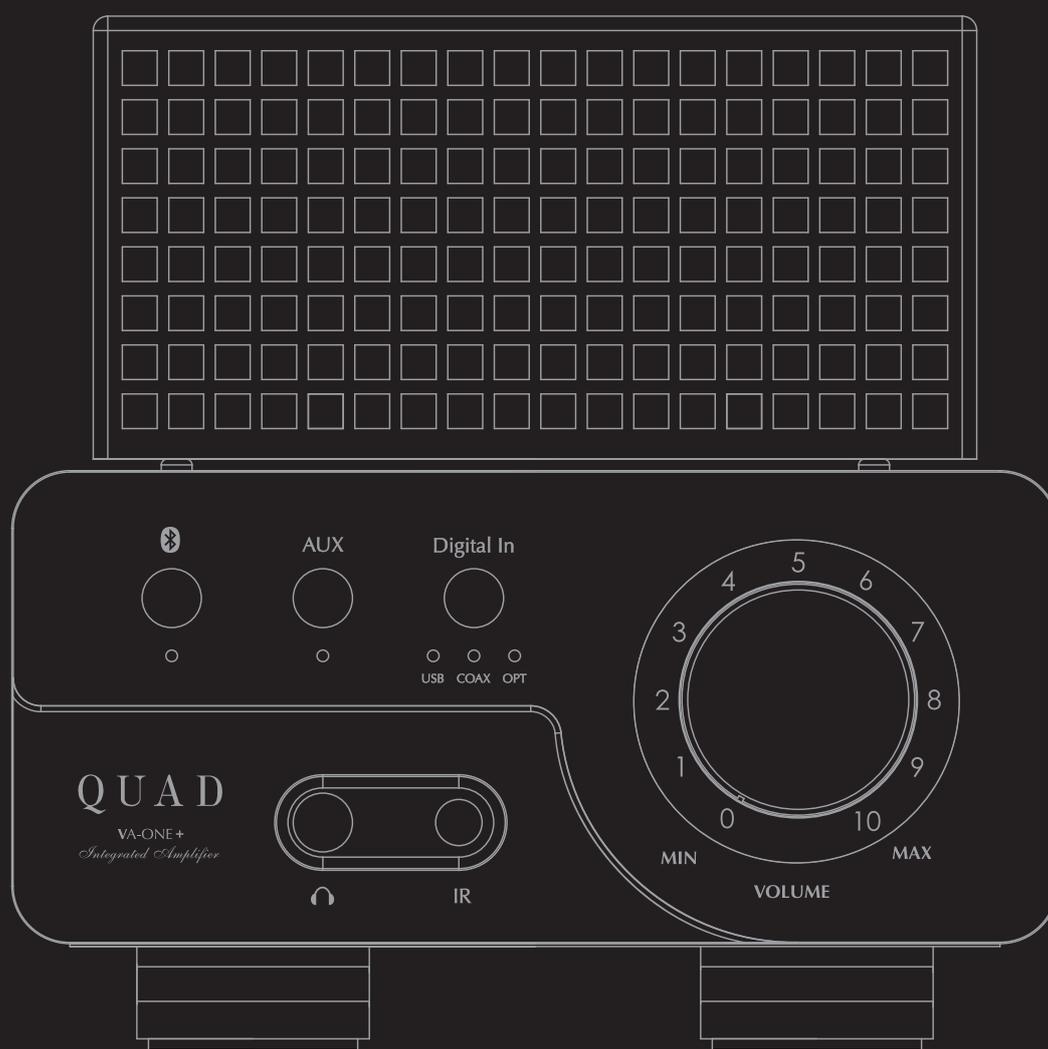


VA-ONE+

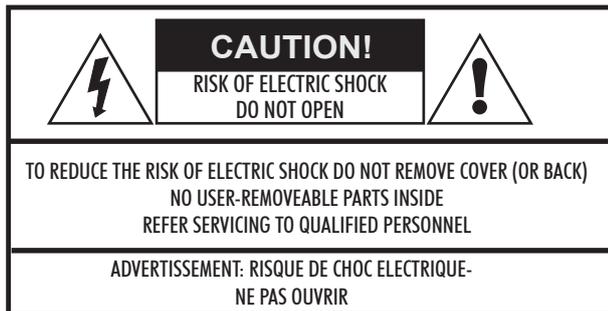


Owner's Manual

QUAD

the closest approach to the original sound

IMPORTANT SAFETY INFORMATION



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

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 polarized or grounding plug.

A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wider 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 the 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 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.

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 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 newspaper, table-cloths, curtains etc.

WARNING: Only use attachments/accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery etc.).

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

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

WARNING: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

WARNING: The battery (battery or batteries or battery pack) shall not be exposed to excessive heat such as sunshine, fire or the like.

WARNING: Excessive sound pressure from earphones and headphones can cause hearing loss.

WARNING: Listening to music at high volume level and for extended duration 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 level. Headsets should comply with EN 50332-2 requirements (for GS certification).

WARNING: The mains plug is used as disconnect device; the disconnect device shall remain readily operable. The mains switch and circuit breakers are not provided with the apparatus; The installation shall be carried out in accordance with all applicable installation rules.

This equipment is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth.

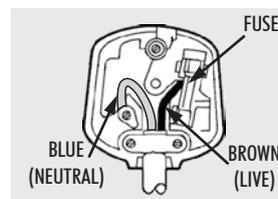
IMPORTANT NOTICE TO UK USERS

The appliance cord is terminated with a UK approved mains plug fitted with a 5A fuse. If the fuse needs to be replaced, an ASTA or BSI approved BS1362 fuse rated at 5A must be used. If you need to change the mains plug, remove the fuse and dispose of this plug safely immediately after cutting it from the cord.

Connecting a Mains Plug

The wires in the mains lead are coloured in accordance with the code: Blue: NEUTRAL; Brown: LIVE; Green and Yellow: EARTH. As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminals marked with the letter N or coloured BLUE or BLACK. The BROWN wire must be connected to the terminals marked with the letter L or coloured BROWN or RED.



CONTENTS

IMPORTANT SAFETY INFORMATION	Inside Front Cover
USER GUIDE	1
CONTROLS AND CONNECTIONS	2
REMOTE HANDSET	3
SETUP	4
STANDBY MODE	4
PRECAUTIONS	4
FURTHER ADVICE	5
USING THE USB SOURCE	6
SPECIFICATIONS	7
INTERNATIONAL SERVICE CENTRE ADDRESS	7



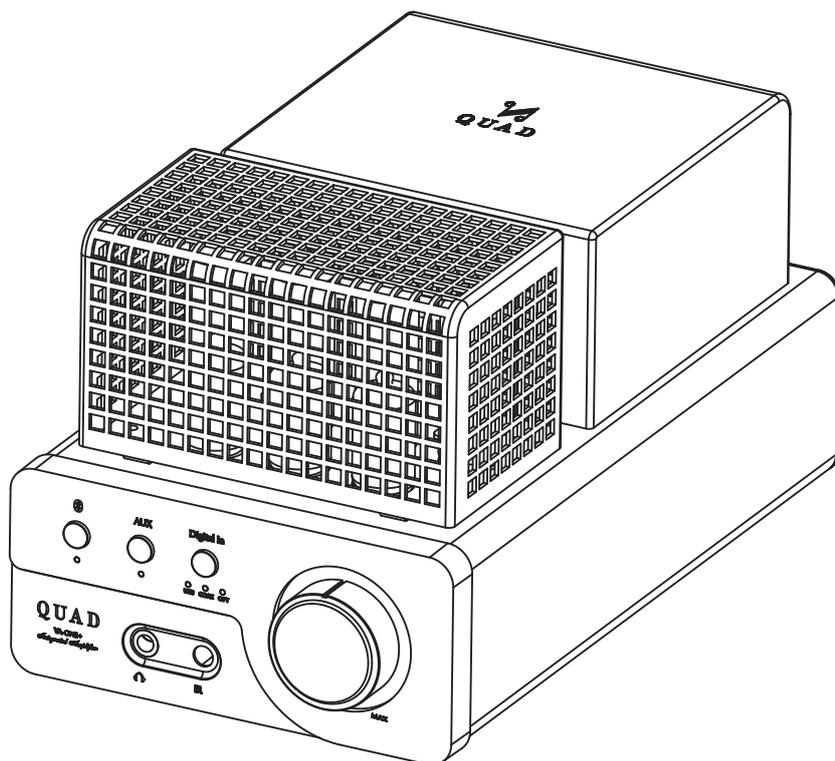
The Bluetooth® word mark and logos are registered trademarks, owned by Bluetooth SIG, Inc. and any use of such marks by IAG Group Ltd is under license. Other trademarks and trade names are those of their respective owners.



aptX® software is copyright CSR plc. or its group companies. All rights reserved.

The aptX® mark and the aptX logo are trademarks of CSR plc. or one of its group companies and may be registered in one or more jurisdictions.

USER GUIDE



INTRODUCTION

The QUAD VA-ONE+ is designed for the music lover. We make no exaggerated performance claims and are content to let the results speak for themselves. Thank you for purchasing this QUAD equipment. We hope that it will bring you many years of listening pleasure, and that, like its illustrious predecessor, it will be a treasured possession for you and for future generations of music lovers.

PRELIMINARIES

The QUAD VA-ONE+ carton contains:

- The QUAD VA-ONE+ integrated amplifier
- One IEC mains cable with a plug suitable for your area
- One remote handset
- One battery for remote handset
- One Bluetooth antenna
- This owner's manual

Consult the dealer from whom you purchased the equipment if any item is not present. Carefully unpack the unit and accessories, so as not to damage the surface finish. 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 any unit to a third party please pass on this instruction manual along with the equipment.

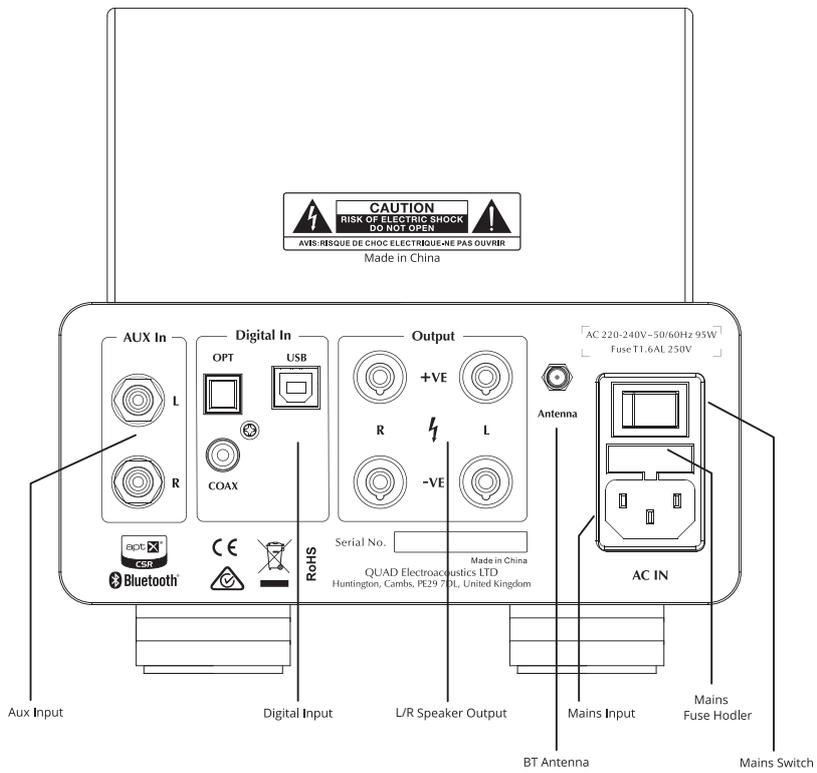
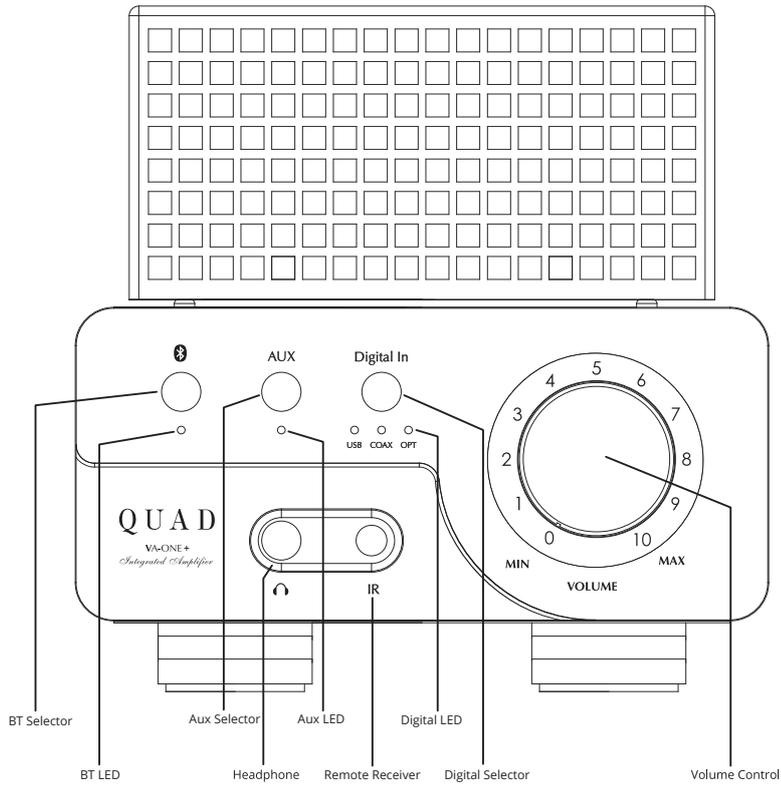
MAINS SUPPLY

The mains operating voltage of the unit is indicated on the rating plate attached to the unit. If this voltage does not match the mains voltage in your area, consult your QUAD dealer about converting the unit. The fuse rating should be:

220-240V T1.6AL 20mm

100-120V T3.15AL 20mm

CONTROLS AND CONNECTIONS



REMOTE HANDSET



Press to bring product in/out of standby mode



Press to Mute/Unmute the sound. In Mute, the selected source indicator on front panel will flash on and off



Press to select previous source



Press to select next source



Press to increase volume



Press to decrease volume

The selected source indicator will flash when VA-ONE+ responds to remote commands

SETUP

Connect the music source to a suitable input on the unit. Connect your loudspeakers to the Loudspeaker Output terminals. Set the volume to minimum, connect the unit to the mains supply and switch on. The amplifier takes 30 seconds or longer to warm up before you can use it.

The VA-ONE+ is also able to drive headphones from the front panel jack. Inserting the headphone plug will automatically switch off the speakers.

Analogue interconnect cables should be low capacitance and well screened. Avoid excessively long analogue or digital cables.

CAUTION

The volume should be set to minimum when you switch on the unit. When the unit is playing a music track, adjust the volume knob slowly and keep the volume at a comfortable level. Listening to loud sounds for a long period can damage your hearing permanently. If you hear distortion, you may be listening too loud. Turn the volume down.

There are no user adjustable settings inside the unit. Please do not remove the top cover as this will expose high voltage parts which present a danger to life.

The unit generates heat while working, so it should be placed in a well-ventilated position, and enough space is required behind it to ensure that leads are not unduly strained or damaged.

Very frequent switching on and off of any electronic equipment puts some stress on components, particularly in the power supply. The unit should be switched off when not in use to save electricity and to maximize operating life of the valves.

Do not plug rechargeable headphones or earphones into the front panel jack as these may cause damage.

Standby Mode

VA-ONE+ will be in standby mode when powered on. The Bluetooth LED indicator on front panel is lightly lit. Press any button on the front panel or the standby button on the remote control to bring VA-ONE+ out of standby.

Note: VA-ONE+ will be switched to the Bluetooth source input when the unit is activated for the first time, and switched to the last input source used after that.

Mute Mode

Users can press  on the remote control to bring VA-ONE+ in or out of Mute mode when playing music. When entering the Mute mode, the LED indicator will flash.

PRECAUTIONS

Installation location

Install this unit where good ventilation and heat radiation are assured. Do not install where the temperature is abnormally high such as in direct sunlight, or where it is dusty or humid, as this could result in damage to this unit despite proper heat radiation. Do not install this unit where it will create a distraction when driving a car.

Ventilation holes

The amplifier has many vacuum tubes, generating considerable heat. Never close the ventilation holes located on the vacuum tube cover and the bottom plate. If the amplifier is installed on a rack or the like, secure ample space for cooling and leave the door open. Do not pile up other items on the amplifier and never put books or magazines or CD/DVD cases on top of it. This can cause malfunctioning.

Note:

For efficient heat dispersal, do not install this equipment in a confined space such as a book case or similar unit.

Connection with other components

When connecting this unit to a CD/DVD player, tuner, or other analogue source, turn off the power switches of this amplifier and all other connected units. Inserting a plug while the amplifier is operational will cause a very strong noise that may damage the speakers. In the worst case, this can also cause equipment malfunction. Push any connecting plug into the matching socket firmly and securely. If the earth side is inadequately inserted, hum and similar noise may be generated, resulting in an adverse S/N ratio.

Cautions for speaker connections

When making loudspeaker connections, be sure not to cause short-circuits between the + and – speaker terminals of this unit. If signals are applied to the amplifier with its output left short-circuited, a large current may be generated in the output circuit and cause malfunctioning.

Sound is not immediately heard after the power supply is turned on

In order to allow the output devices to stabilise, a time muting circuit mutes the output when the amplifier is first switched on. For this reason do not expect to hear music until the muting circuit has clicked off.

If the volume control is inadvertently moved to a high level while the output is muted, when the time muting circuit clicks off a high sound level will be passed to the speakers which could damage them!

It is therefore recommended that the volume control is moved to minimum when first switching the amplifier on.

After the timed muting circuit clicks off, adjust the volume control to a comfortable listening level.

Repair and adjustments

When repair and adjustments are needed, please ask the store where you purchased the unit.

Cleaning

For cleaning, use only a dry, soft cloth to wipe the unit. If the unit has become very dirty, remove the dirt with soft cloth that has absorbed a small amount of neutral detergent, and then wipe the unit dry with a dry, soft cloth. Do not use a solvent like benzene or paint thinner because strong solvents can often damage the exterior paintwork.

FURTHER ADVICE

Burn In New Equipment

Burn in is very important. Valve components work at high voltages and temperatures and when new they should spend an extended period at those temperatures to bed in. We recommend you burn in the amplifier for at least four, or preferably twelve, hours before serious listening. If you run in your equipment for this extended period, make doubly sure that all the safety conditions covered in this manual are fully met. Supervise the equipment for the first hour or so and, if you have to leave the unit unattended thereafter, look in occasionally to make sure all is well.

Warming Up Before Use

Ideally allow at least fifteen minutes for the amplifier to fully 'warm up', or at least 1 minute before use. If you play loud music while the system is cold the output valves will not be fully operational and the amplifier will be starved of voltage and current. The resulting distortion is unpleasant and may lead to potential damage to the amplifier's valves and your headphones. Intensive use of the equipment before it has warmed up will shorten the valve's life.

Valve Lifetimes

Valves contain a heating element. This heats up the valve's cathode, which is coated to give off a steady stream of electrons. After a few years this coating will begin to wear out and performance will gradually deteriorate. The EL84 output valves are likely to deteriorate first but the driver valves will also eventually wear out.

As the valves start to wear out the sound will become less well defined and a lack of dynamics and power will become evident. Replacing the valves with a new set will fully restore the audio performance of the amplifier. When replacing valves it is essential to use the highest quality available. Poor quality valves will adversely affect the sound quality and may, in extreme cases, damage the amplifier. When replacing the output valves, use matched sets for best results.

Do not leave the amplifier permanently switched on or you will seriously shorten the lifespan of your valves!

Output Transformer

After installing or changing the wiring to your speakers, set the volume control to zero, let the amplifier warm up and turn up the main volume gradually. If you don't hear sound, switch off immediately and investigate.

The output transformer is designed to match the high voltage, low current conditions in which the output valves operate to the low voltage, high current requirements of a loudspeaker. Although robust, an output transformer can be damaged and in extreme cases wrecked by careless use. If you play a valve amplifier into a short circuit, the output transformer will soak up a lot of energy before failing, but if the short persists the transformer could be damaged. Operating a valve amplifier at high output level with no loudspeaker connected will also damage an output transformer.

The amplifier must be used with the correct load conditions, otherwise it may cause damage to the output transformer.

USING THE USB SOURCE

With the increased popularity of downloadable or streaming digital files, the VA-ONE+ USB D/A converter allows consumers to enjoy listening to digital music sources from a computer (Windows or Mac) via the USB connection.

This product is USB 1.1 and 2.0 compliant and supports sampling frequencies ranging from 35kHz to 384kHz (supports DSD64 DSD128 DSD256) via the high quality Digital-to-Analogue converter (DAC). The DAC defaults to a 48kHz input sampling frequency. With a digital source connected and playing, the VA-ONE+ USB DAC will detect the sampling frequency of the input data automatically. The front panel indicators will then indicate the presence of a digital signal and the source selected.

Note: Windows does not support 192kHz sampling frequency. Owners of computers with Windows OS are advised to install corresponding software provided in the accompanying CD-ROM. Simply follow the software installation instructions included.

SPECIFICATIONS

General Description	Integrated amplifier
Rated Power Output	2 x 15W RMS(6Ω) - 2 x 12W RMS(8Ω / 4Ω)
Power Bandwidth	-3dB 20Hz~50kHz
Frequency Response	+/-1dB 20Hz~20kHz
Total Harmonic Distortion	<0.5%(1kHz rated output)
Signal-to-noise Ratio(S/N)	90dB(ref.15W0)
Input Impedance	50KΩ
Inputs	1 x RCA input 1 x Coaxial input 1 x Optical input 1 x USB input 1 x Bluetooth (AptX)
Outputs	2 x Speaker, 1 x Headpone socket
Valve Complement	1×ECC83, 2×ECC82, 4×EL84EH
Size (WxDxH)	180× 320×179 (mm)
Net Weight	9.8KG
Power Requirements (depending on region)	220-240V (50 ~ 60Hz)

INTERNATIONAL SERVICE CENTRE ADDRESS

IAG House
13/14 Glebe Road
Huntingdon
Cambridgeshire
PE29 7DL
UK
Tel: 01480 452561
Fax: 01480 413403



IAG-QUAD

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 environmental safe recycling.

QUAD

IAG House, 13/14 Glebe Road, Huntingdon, Cambridgeshire, PE29 7DL, UK

Tel: +44(0)1480 452561 Fax: +44(0)1480 413403 <http://www.quad-hifi.co.uk>

IAG reserves the right to alter the design and specifications without notice. All rights reserved © IAG Group Ltd.

Quad is a member of the International Audio Group. Code: QH14-MNL002a