

# Owner's Manual

# QUAD

## 11L Classis Signature Loudspeakers

### INTRODUCTION

QUAD monitor loudspeakers are true to the classic QUAD tradition of the closest approach to the original sound. No compromise has been made in quality of materials or workmanship. Although we naturally recommend that these speakers be partnered with QUAD amplification, they will enhance any quality sound system.

**Please read the following notes carefully. They will help you to install your loudspeakers correctly and safely.**

Switch off the amplifier and all sources before making connections to your sound system. When you switch on the system or change sources, set the volume control to minimum and turn up the level gradually.

The position of your volume control is NOT a reliable guide as to the maximum capabilities of your sound system. Playing the system with extreme settings of volume and tone controls may damage the amplifier and loudspeakers.

Do not connect loudspeaker terminals to the mains supply.

Ensure that your loudspeakers are correctly wired and are in phase.

Do not subject your loudspeakers to excessive cold, heat, or sunlight.



**WARNING:** To reduce the risk of fire or electrical shock, do not expose this product to rain or moisture. The product must not be exposed to dripping and splashing and no object filled with liquids - such as a vase of flowers - should be placed on the product.

No naked flame sources - such as candles - must be placed on the product.

Do not place heavy objects on top of loudspeaker cabinets. If you play them with the grilles removed be careful to protect the drive units from children and pets.

Do not use makeshift stands. Always fit a manufacturer's approved stand using the instructions and the fixings provided. Your dealer will advise you.

Do not attempt to dismantle the loudspeaker. There are no user serviceable parts inside and you will invalidate the warranty.

Site your loudspeakers at least 0.5m away from TV sets and magnetic storage media.

### POSITIONING YOUR LOUDSPEAKERS

We recommend that the loudspeakers be placed between two and three metres apart and equidistant from the listening position. The tweeters should be roughly at ear level to a seated listener. The loudspeakers should be positioned so that they are angled slightly inward, facing the listener.

The most uncoloured sound will be obtained when the loudspeakers are at least 500 mm from the rear walls and 1 metre from the side walls. If the loudspeakers are operated closer to the rear walls the bass extension will increase but if they are placed too close to the walls the bass may boom and become indistinct. If the loudspeakers are placed further away from the walls, the inward angle may be increased by up to 40%, although this may restrict the width of the optimum listening position.

As personal taste plays a large role, please experiment with different configurations and play a wide range of music before finalising the position of your loudspeakers.

### CONNECTIONS AND TERMINALS

#### Crossover Network

Quad crossover networks separate the treble and bass networks into two distinct sections, each connected by a dedicated pair of terminal posts. This enables the treble and bass components to be separately driven for optimum performance. The upper pair of terminals is connected to the treble network and the lower pair to the bass network.

As supplied, the treble terminal pair is connected to the bass terminal pair by removable metal straps. These should be left in place for standard installations.

#### Choosing and Preparing Cable

Specialist audio cable will usually offer better performance than general purpose 'bell' or 'zip' wire. Audio cable is polarised, with two cores of different colours, or often, in the case of twin cable, a coloured tracer or ridge along one wire to indicate polarity.

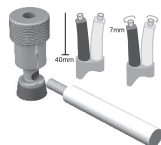
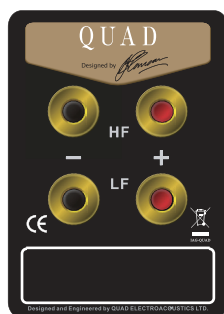
Choose a cable of suitable diameter - cable that is too thin will limit the dynamics of the sound and may impair the bass response. Split the twin cores to a depth of about 40mm.

Carefully strip the insulation from each end, leaving about 10mm of bare wire. If the cable is stranded, lightly twist to gather any loose strands.

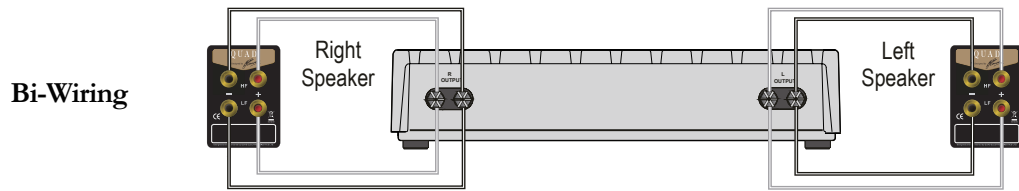
#### Connecting Speaker Terminals

Unscrew the terminal. Thread the bared end of each cable through the hole in the bottom of the terminal post. Ensure that there are no loose strands which may touch adjacent terminals.

Retighten the terminal securely.



## CONNECTING THE LOUDSPEAKERS



**Note:** This provides an alternative to standard single-wire connections for improved overall sound quality.

Most of the audio signal going to the speakers drives the bass units. Where one cable feeds both bass and treble units, this heavy bass current can modulate the high frequencies. Using separate cables for treble and bass units reduces intermodulation effects and improves headroom and clarity. This technique of wiring is known as Bi-Wiring. To bi-wire, you will need to install two lengths of twin core cable between the amplifier and each loudspeaker.

Unscrew each terminal a few turns and remove the metal straps. The upper pair of terminals on the crossover panel feeds the treble units and the lower terminals feed the bass unit.

Connect the cables between the amplifier and the loudspeakers as indicated above and retighten all the terminals securely.

Where feasible, we strongly advocate bi-wiring.

### Bi-Amplifying (Bi-Amping)

By connecting each loudspeaker drive unit to its own dedicated amplifier the advantages of Bi-Wiring can be extended. If you own two identical stereo power amplifiers, you may wish to try bi-amping your QUAD loudspeakers. For further details please consult your dealer.

## GETTING THE BEST FROM YOUR LOUDSPEAKERS

### Phase

If the sound lacks definition or the bass is indistinct, this could be because you have inadvertently misconnected your loudspeakers. Please check the wiring to both loudspeakers carefully, especially if they are bi-wired.

### Ancillary Equipment

QUAD loudspeakers are compatible with the great majority of audio-visual and high fidelity equipment. Your amplifier should have ample reserves of power - a low powered amplifier can run out of steam quite easily and the resulting distortion is unpleasant to listen to and could damage your speakers. A larger amplifier will usually sound better and enhance the reliability and performance of your loudspeakers.

### Running In

Loudspeakers are electro-mechanical and, like all mechanical systems, they need a 'running in' period. For the first 50 hours or so exercise care and play your system at reasonable volume levels. After running in, you will notice a significant sonic improvement.

### Care and Maintenance

Little maintenance is required. The cabinets can be occasionally wiped with a damp (not wet) cloth. Spray polish, if used, should be applied sparingly - spray the polish onto a cloth and then apply it to the speaker. NEVER spray at the grille cloth or the speaker drive units. To clean the grilles, remove them first before gently brushing with a soft brush. Never use solvent cleaners, minor stains are best removed with soap and lukewarm water.

Avoid touching the drive units as they can easily be damaged.

## SERVICE & INFORMATION

Product service enquiries should instantly be referred to the supplying dealer. If you need to return your loudspeakers for servicing, please return them as a pair even if only one unit appears to be faulty. For safety, we recommend that they be shipped in their original packing.

In cases of difficulty or for other product enquiries, please contact the appointed QUAD distributor for your country. Service Centre in the UK can be found below.

IAG Service Centre, Unit 4, St Margaret's Way, Stukeley Meadows Industrial Estate, Huntingdon, Cambs, PE29 6EB, England. Tel: +44 (0) 1480 45256, Fax: +44 (0) 480 413403

For information on authorised service centres worldwide, contact QUAD Electroacoustics Ltd.

A worldwide distributor list is available on the QUAD website: [www.quad-hifi.co.uk](http://www.quad-hifi.co.uk)

## SPECIFICATIONS

<b>General Description</b>	2-way bookshelf speaker	<b>Recommended Amplifier Power</b>	30-150W
<b>Enclosure Type</b>	Bass reflex	<b>Nominal Impedance</b>	6 Ohms
<b>Bass/Mid Driver</b>	125mm woven Kevlar cone	<b>Minimum Impedance</b>	4 Ohms
<b>Treble Driver</b>	25mm fabric dome	<b>Size (H×W×D)</b>	310 × 190 × 263 (mm)
<b>Magnetic Shielding</b>	No	<b>Net Weight</b>	6.3kg each
<b>Crossover Frequency</b>	2.2kHz	<b>Standard Accessories</b>	rubber feet, user manual, certificate, gloves
<b>Frequency Response (±3dB)</b>	48Hz-22kHz		
<b>Sensitivity (2.83V@1m)</b>	87dB		

The name QUAD is a registered trademark of International Audio Group Limited.

QUAD has a policy of continuous product development and reserves the right to change specification with notice.

Designed and Engineered by Quad Electroacoustics Ltd. CODE: QH12-MNL004a