



QUAD

L-ite

Compact Satellite Loudspeakers

Owner's Manual

### Running In

Loudspeakers are electro-mechanical and, like all mechanical systems, they need a 'running in' period. For the first 50 hours or so, play your system at reasonable 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 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, in the first instance, 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 Centres in the UK and North America can be found below.

## SPECIFICATIONS

### QUAD L-ite Satellite Loudspeaker

<b>Bass Unit</b>	100mm
<b>Treble Unit</b>	25mm Dome
<b>Rec. Amplifier Power</b>	30 - 120 W
<b>Nominal Impedance</b>	6 Ohms
<b>Sensitivity (2.83V @ 1M)</b>	86 dB
<b>Frequency Response</b>	70Hz - 24kHz
<b>Crossover Frequency</b>	2.2kHz
<b>Frequency Fb</b>	70Hz
<b>Size mm (H x W x D)</b>	225 x 135 x 160
<b>Rear Panel Mounting</b>	M6 40mm (USA - 1/4" 20 tpi)

*QUAD loudspeakers are compatible with 8 Ohm amplifier outputs*

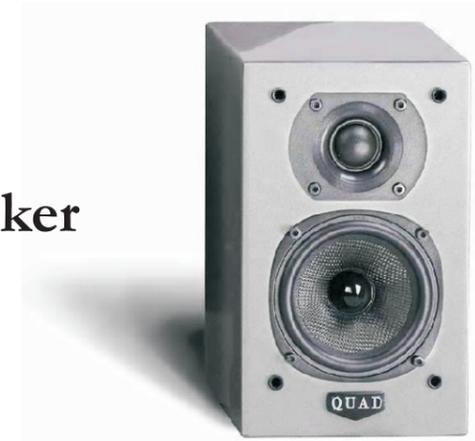
## QUAD SERVICE CENTRES

U.K.	USA	CANADA
QUAD Electroacoustics Ltd. IAG House, Sovereign Court, Ermine Business Park, Huntingdon, Cambs PE29 6XU, England. Tel:+44 (0)1480 447700 Fax:+44 (0)1480 431767 <a href="http://www.quad-hifi.co.uk">www.quad-hifi.co.uk</a>	IAG America, Inc. 15 Walpole Park South Walpole MA 02081 Tel: +1 508 850 3950	Korbon Trading Ltd 6800 Kitimat Road Units 19-20 Mississauga Ontario Tel: +1 905 567 1920

For information on authorised service centres worldwide contact QUAD Electroacoustics Ltd. in the U.K. A worldwide distributor list is available on the QUAD website: [www.quad-hifi.co.uk](http://www.quad-hifi.co.uk)

# QUAD

## L-ite Compact Monitor Satellite Loudspeaker



## INTRODUCTION

The QUAD L-ite satellites are small monitors intended for use in small systems with or without a subwoofer. They are ideal for use as surround effects speakers in multichannel installations.

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

- Before making connections to your sound system, switch off the amplifier and all connected sources. When you switch on the system or change sources, set the volume control to minimum and turn up the level gradually.
- Do not use your amplifier at full volume. Playing the system with extreme settings of volume 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 wish to play your loudspeakers with their 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.

## UNPACKING THE EQUIPMENT

### The QUAD L-ite carton contains

- Two QUAD L-ite loudspeakers
- Instruction Manual
- Warranty Registration Form

Consult your dealer if any of these items is not present.

Unpack the loudspeakers carefully. Be especially careful not to damage the loudspeaker cabinets when removing the polythene sleeves. Please retain the packing materials for future transportation. If you dispose of the packing do so with regard to any recycling provision in your area.

Please retain the user manual and the information concerning the date and place of purchase of this equipment for future reference.

## POSITIONING YOUR LOUDSPEAKERS

The QUAD L-ites may be stand mounted, wall mounted or placed on a rigid shelf. Each L-ite satellite has a standard threaded insert in the rear panel that will accept most specialist fixing brackets. When wall mounting the speakers ensure that the wall and the brackets can support the weight of the speakers. Follow all instructions supplied with the brackets in full. Your dealer will advise you.

We recommend that the loudspeakers are 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 is obtained when the loudspeakers are *at least* 200mm from the rear walls and 300mm from the side walls. If the loudspeakers are operated closer to the rear walls bass extension will increase but if they are placed too close to the walls the bass may become boomy and indistinct. If the speakers are placed further away from the walls, the inward angle may be increased to 40%, though this may restrict the width of the optimum listening position. Please experiment with different configurations and play a wide range of music before finalising the position of your loudspeakers.

## CONNECTIONS AND TERMINALS

### Crossover Network

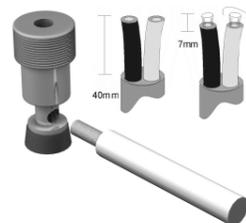


The crossover separates the treble and bass networks into two distinct sections, each connected by a dedicated pair of terminal posts. This enables the treble and bass components to be separately driven for optimum performance. The upper pair of terminals is connected to the treble network and the lower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

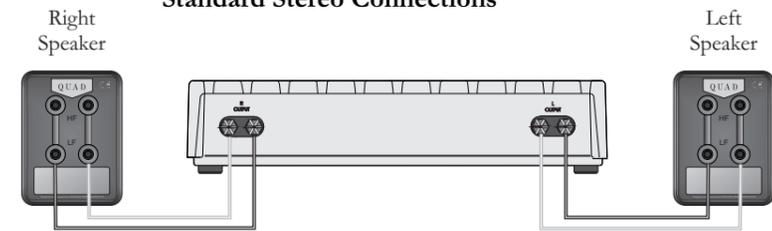
### Standard and Bi-Wiring Connections

**Standard Connections:** Connect the positive(+) terminal of the Left loudspeaker to the corresponding positive(+) amplifier terminal. Connect the negative(-) terminals similarly. Repeat this procedure for the Right Channel. Do not disturb the metal straps linking the upper and lower terminal pairs

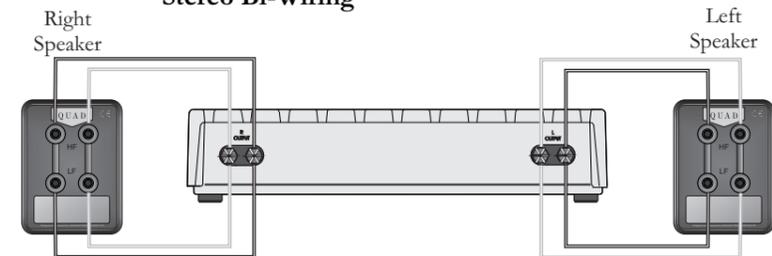
**Bi-Wiring:** Using separate cables for treble and bass units improves headroom and clarity. This is known as Bi-Wiring. To bi-wire, you will need to install two lengths of twin core cable between the amplifier and each loudspeaker. Unscrew each terminal a few turns and remove the metal straps. The upper pair of terminals on the crossover panel feeds the treble units and the lower terminals feed the bass unit.

**When connecting loudspeakers, ensure there are no loose strands of wire which might contact adjacent terminals.**

### Standard Stereo Connections



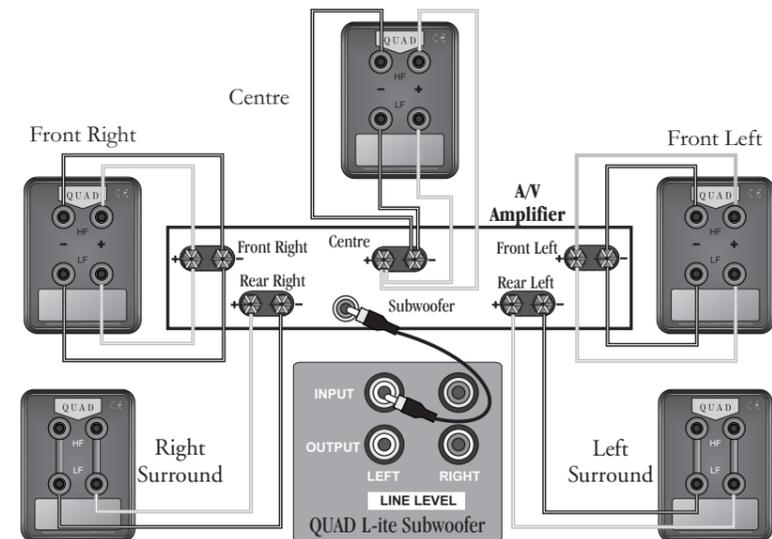
### Stereo Bi-Wiring



### Multi-Channel Connections

The drawing shows the Quad L-ites connected in a 5.1 configuration with the companion Quad L-ite subwoofer. The front and centre speakers are bi-wired. The surround speakers are standard wired as the frequency range and dynamics are more restricted in surround channels. Extension of the system to 6.1 and 7.1 configurations is straightforward.

In multi-channel applications where you are using a subwoofer, ensure that all channels using the Quad L-ite satellites are set to 'small'. Consult your AV processor handbook for details.



### Phase

If the sound lacks definition or the bass is indistinct, 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 - but a loudspeaker is only as good as the signal it gets. A low powered amplifier can run out of steam quite easily and could damage your speakers. A larger amplifier will usually sound better *and* enhance the reliability and performance of your loudspeakers.