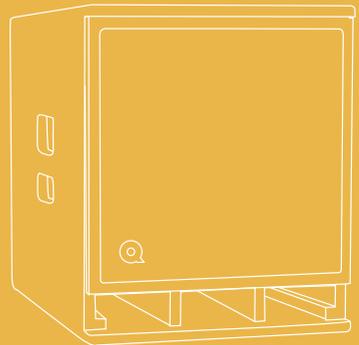


User Manual

MODEL: QM 600AS



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The flying and installation of this speaker cabinet must be carried out by suitably qualified personnel following the locally authorised and approved safety standards.



Installation that allows direct precipitation is not advised and installation practise must prevent liquids from entering the box.



Do not attempt to clean the painted enclosure with solvents or petrochemical based cleaners. Touching up scratches can be done with polyester paint.



Do not stack the speaker cabinet in a manner that could cause injury should a cabinet become dislodged.



Do not place sources of heat on the speaker cabinet such as lighting equipment or smoke machines. Where possible, please keep out of direct sunlight.

Attention

Before connecting or operating your new Quest speaker, please study the accompanying instruction manual paying particular attention to the operating precautions and wiring procedure. Quest Engineering will not assume responsibility for incorrect installation or operation of this product.

Register Your Product

Thank you for choosing Quest. Please take the time to complete your product registration card which is included with the packaging.

Registering your Quest Engineering product will:

- CONFIRM YOUR WARRANTY
- REGISTER YOUR PRODUCT
- PROTECT YOUR NEW PRODUCT



When your new boxes arrive...

You should visually inspect the outside of the shipping carton and make note of any damage on the shipping documentation. After unpacking, if you find concealed damage to the loudspeaker, save the packing materials for the carrier's inspection, notify the carrier and supplier immediately then file a shipping damage claim. Although Quest Engineering will help in any way possible, it is the responsibility of the receiving party to file a shipping damage claim. The carrier will know how to prepare and file this claim.

General Description

The compact QM600AS is a powered sub bass system powered by a mono internal amplifier and controlled from a master input section containing a stereo electronic cross-over. The input section controls consist of an adjustable sub bass crossover controlling the sub amplifier, and a line through/switch preset cross-over output for powered satellite boxes or extra powered sub boxes.

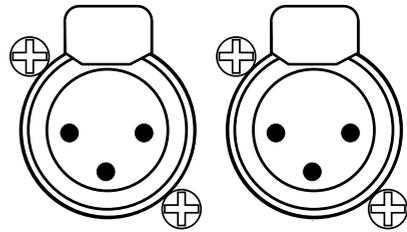
Flexible Operation

The QM 600AS can be used as a multiple subwoofer block or as a sub bass for individual powered speakers. Alternatively, it can be used as a single mono subwoofer supporting a small powered system.

The bass crossover frequency is sweep-able from 90 to 200Hz and can be tuned by the user to achieve the desired bass sound. The line through/x-over XLR outputs are intended to supply line level signal to additional powered bass systems or can be used as a crossover network to feed powered speakers at two alternative high pass cross-over frequencies.

Features

Balanced input L&R



Balance Input

The QM600AS features electronically balanced inputs for the connection of line level signal sources such as mixers, system controllers or other powered speakers. Input connection is via 1/4" phone or XLR-male connectors. A balanced XLR connection is recommended to minimize noise and/or interference.

The input section of the QM600AS also allows for stereo and mono sub operation. The stereo signal is fed to the L and R inputs and the low-frequency signals of both channels are summed by the electronic cross-over prior to being processed by the sub power amplifier section.

For detailed connection options, see the section "setup examples".

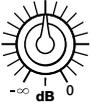


CAUTION

Before connecting or disconnecting any connections including power, make sure to set the master level control to counter clockwise off. This will prevent unexpected and possibly damaging noises from the system.

2

Master Volume



This control sets the output volume of the QM 600AS internal power amplifier.

Cross-Over Low Cut Switch

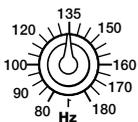


The male XLR outputs can be full range through from the F/male XLR inputs or a line level cross-over output depending on the setting of the Cross-Over Out Low Cut switch. Selecting 80 or 125 Hz will remove the low bass frequencies from the line level

output. These settings are intended for removing low frequencies from small powered speakers with limited power output. The choice of setting will depend on the power capacity and size of the powered satellite speaker.

If the powered speaker is clipping or appearing to distort at higher levels, try switching the 80Hz filter to 125 Hz to lower the power sapping bass from the satellite speaker woofer.

Sub HF Cross-Over Frequency



The bass crossover frequency is sweep-able from 90 to 200Hz and can be tuned by the user to suit the individual bass sound needed. It is recommended that setting this control at or

below 100Hz will deliver the best low sub bass sound for live performances. The higher settings will deliver a 'boomy' bass desirable in some electronic genres.

Polarity Normal and Rev Switch

The phase polarity can be switched 180° to suit alternative loudspeaker brands as required. When



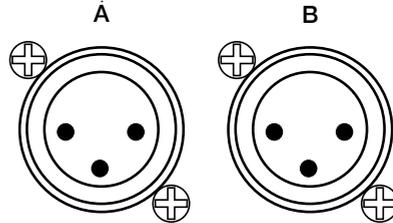
- Phase
- Normal
- Sub Rev

connecting a group of sub bass speakers, please ensure they all have the same polarity setting or loss of bass response will occur.

Mid-High/Parallel Outputs L/R

The signal from L&R inputs is processed through an integrated electronic cross-over. Low-frequency signals are routed to the internal power amplifier of the QM 600AS.

Balance Output



If the Cross-over low cut switch is set to full range, the male XLR outputs will act as a line through connection. If the 80-125 Hz setting is selected, high-frequency signals above the cross-over frequency will be available from these outputs for further distribution to external power amps or active mid-high range cabinets.

Status Indicators

These indicators provide information about the actual operational state of the QM600AS internal power amplifier.



Signal

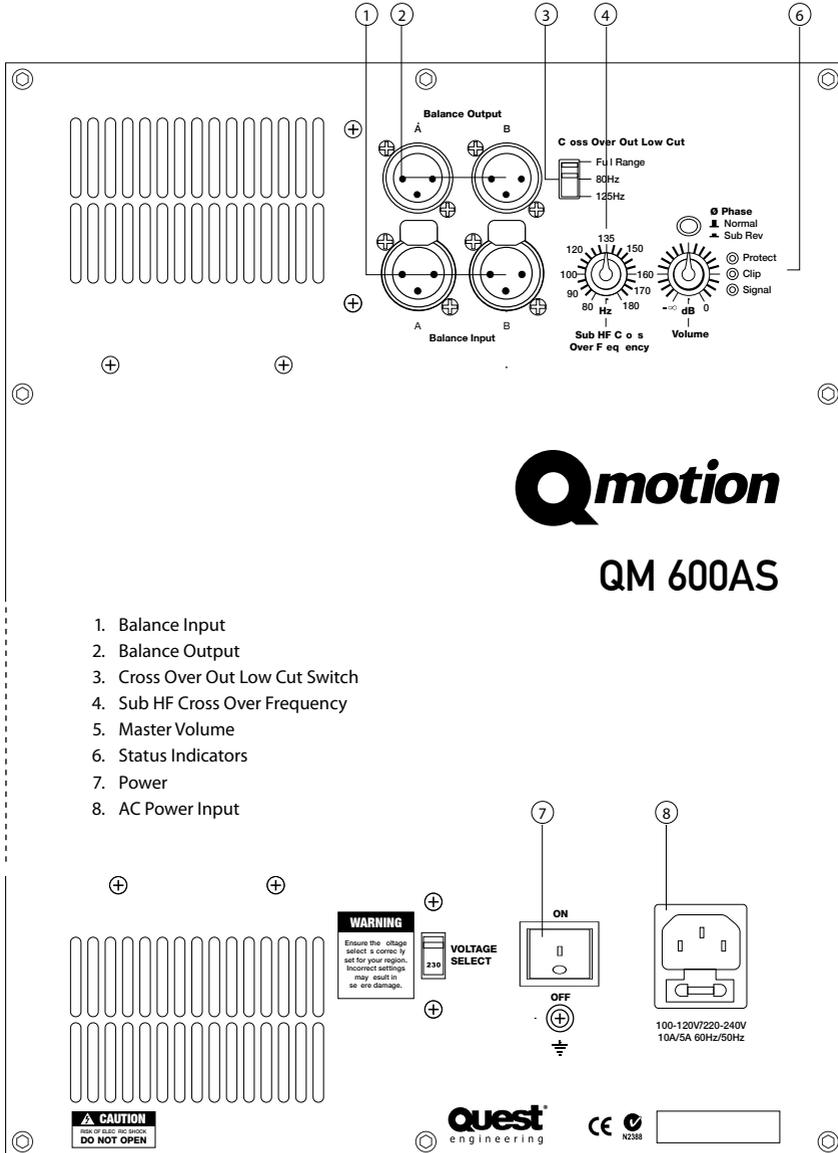
Indicates that an audio signal is present at the input.

Protect Clip

Clip When lit, this indicator signals that the internal power

Signal amplifier is actually operated at the borders of clipping. Short-term flashes are indicating that maximum power has been reached. The amplifier's audio limiter keeps severe distortion from occurring. If you are seeing extended time periods of red flashing or the red warning light is staying on for more than 1/4 second, you need more sub bass boxes. Running a sub bass for extended periods of clipping will result in expensive repair bills. Protection limiters are no substitute for common sense.

Rear Panel Layout



4

Setup Options

The QM 600AS is a very versatile sub bass system as part of a mobile powered system or as extra sub bass enhancement for an amplified multi-way installed audio system.

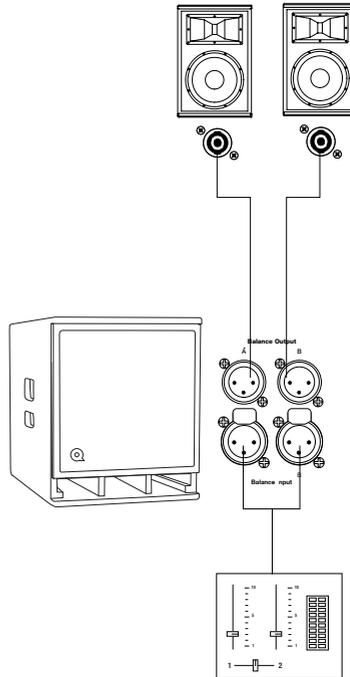
Cross-Over Settings for Best Results

The common setup configuration for most powered speakers when operated with sub bass boxes is as follows:

The cross-over out low cut switch selects the high pass cross-over frequency for male XLR line level output signal. It can be switched to full range output or 80 – 125 Hz. For output to powered speakers it would be common to select 80Hz. If the powered woofers are low powered or less than 12" woofers, it would be common to select 125 Hz.

For connection to another powered sub bass, select full range.

Mono Sub Bass With Left and Right Powered Satellite Boxes



5

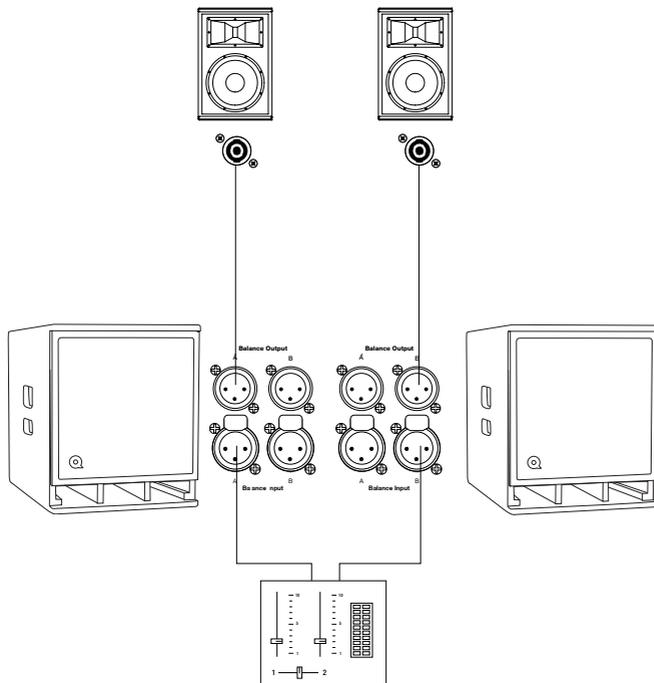


CAUTION

This appliance has no user-servicable parts inside. Leave any servicing and maintenance qualified service technicians only.

2 Channel Setup With Powered Speakers

6



Specifications

Frequency Response +/- 3dB	40Hz-80/200Hz
Maximum SPL @1m	127dB 127dB
Sub Amplifier Power	650W
Subwoofer	1 x 15"
Impedance	
Connections	2 x XLR In 2 x XLR Out
Dimensions WxHxD mm	450 x 535 x 635
Weight	45kg



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