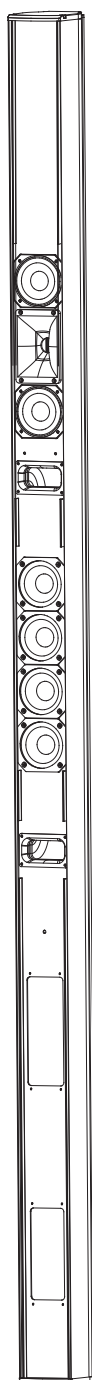




XLIM135/XLIM163

Modular Active Full-range Speaker



**USER
GUIDE**

IMPORTANT SAFETY SYMBOLS



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



The symbol is used to indicate that some hazardous live terminals are involved within this apparatus, even under the normal operating conditions, which may be sufficient to constitute the risk of electric shock or death.



The symbol is used in the service documentation to indicate that specific component shall be replaced only by the component specified in that documentation for safety reasons.



Protective grounding terminal



Alternating current/voltage



Hazardous live terminal

ON: Denotes the apparatus is turned on

OFF: Denotes the apparatus is turned off

WARNING: Describes precautions that should be observed to prevent the danger of injury or death to the operator.

CAUTION: Describes precautions that should be observed to prevent danger of the apparatus.

1. IMPORTANT SAFETY INSTRUCTIONS

- **Read these instructions.**
- **Keep these instructions.**
- **Heed all warning.**
- **Follow all instructions.**

• **Water & Moisture**

The apparatus should be protected from moisture and rain, can not used near water, for example: near bath-tub, kitchen sink or a swimming pool, etc.

• **Heat**

The apparatus should be located away from the heat source such as radiators, stoves or other appliances that produce heat.

• **Ventilation**

Do not block areas of ventilation opening. Failure to do could result in fire. Always install accordance with the manufacturer's instructions.

• **Object and Liquid Entry**

Objects do not fall into and liquids are not spilled into the inside of the apparatus for safety.

• **Power Cord and Plug**

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

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type 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, refer

to electrician for replacement.

• **Power Supply**

The apparatus should be connected to the power supply only of the type as marked on the apparatus or described in the manual. Failure to do could result in damage to the product and possibly the user.

Unplug this apparatus during lightning storms or when unused for long periods of time.

Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

• **Fuse**

To prevent the risk of fire and damaging the unit, please use only of the recommended fuse type as described in the manual. Before replacing the fuse, make sure the unit turned off and disconnected from the AC outlet.

• **Electrical Connection**

Improper electrical wiring may invalidate the product warranty.

• **Cleaning**

Clean only with a dry cloth. Do not use any solvents such as benzol or alcohol.

• **Servicing**

Do not implement any servicing other than those means described in the manual. Refer all servicing to qualified service personnel only.

- **Only use accessories/attachments or parts recommended by the manufacturer.**

XLIM163

Modular Active Full-range Speaker

Features:

- Aluminum alloy enclosure, slim and elegant shape, easy to install;
- Extended range, 65Hz-20kHz frequency. It can achieve full-range audio performance without additional subwoofer;
- Smooth frequency response and accurate coverage angle.
- Precisely designed low frequency resonant tube enables such a compact speaker to emit dynamic low frequency;
- Horizontal dispersion angle: 70 degrees, vertical dispersion angle: 90 degrees;
- Built-in 6x40W high-power Class D amplifier, large power balance, dynamic music and microphone is not easy to scream;
- The built-in DSP digital audio processor can adjust the parameter balance of each channel individually.
- Three application modes: music, teaching and conference, which can be used in various occasions conveniently and flexibly.
- 1 RS485 serial port, 1 DC24V power output, can connect the voice control panel or the central control device to call the application mode directly;
- A 3.5-3P Phoenix Terminal and a XLR female with adjustable input volume;
- The built-in resonant switching power supply, small size, high efficiency with wide voltage adjustment range.
- IEC power interface, simple and convenient.

Serial port control protocol:

Volume up: 43, 53, 54, 05, 80, 1a, 01, 01, aa

Volume down: 43, 53, 54, 05, 80, 1a, 01, 02, aa

Mute on: 43, 53, 54, 05, 80, 1a, 01, 08, aa

Mute off: 43, 53, 54, 05, 80, 1a, 01, 09, aa

XLIM163 Parameters

System type	Modular active linear full-range speaker
Rated power	240W
Peak power	960W
Frequency range (−10dB)	65Hz~20KHz
Frequency response (±6dB)	85Hz~19KHz
Crossover mode	Electronic crossover
Max. SPL (1m)	108 dB
Coverage (HxV)	90°x 70°
LF transducer	4x3" NdFeB unit
MF transducer	2x3" Nd magnetic unit
HF transducer	1x1" Compression treble driver with horn
Cabinet material/ finish	Aluminum alloy/black oxidized fine sand
Audio connectors	1 3.5–3P Phoenix, 1 XLR female
Control series port	RS485 series port, DC24V power port
Power supply	Rated power input range AC 180V~AC220V
Cabinet size (HxWxD) mm	2172x91x120
Weight	7.6kg
Fly mountings	Optional
Package size (HxWxD) mm	2318x365x180
Net weight	15.2kg
Gross weight	19.2kg

Speaker test standard

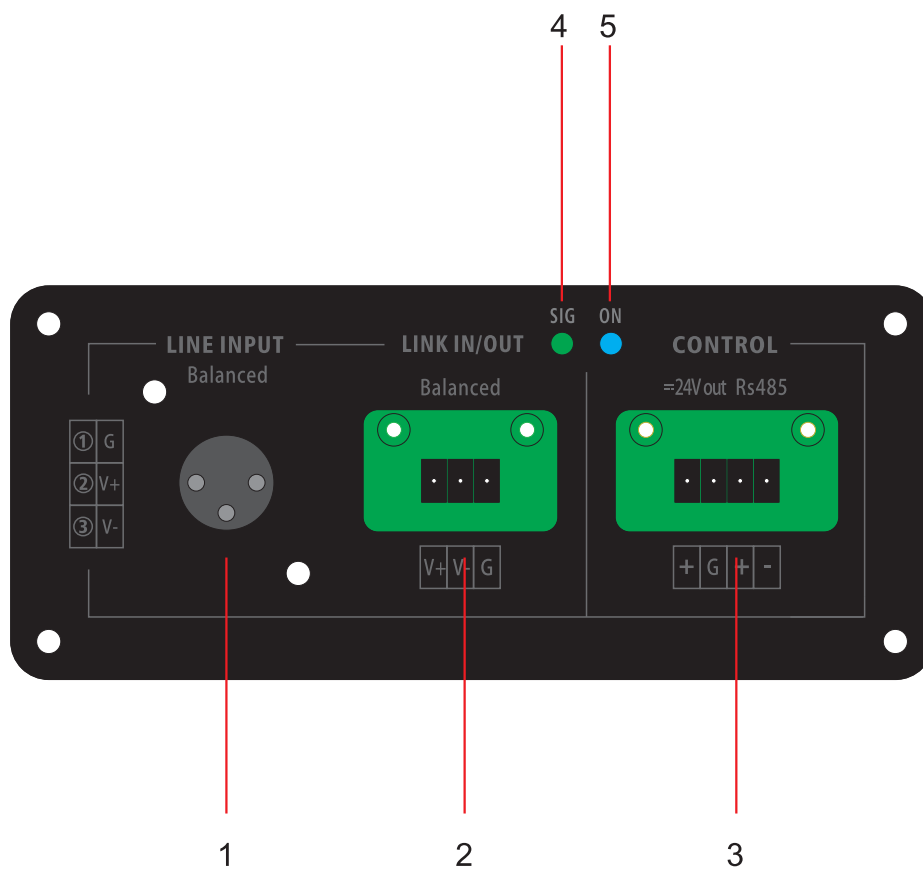
1
frequency response
The noise signal is applied to the speaker, and the level is adjusted to make the speaker reach the level equivalent to the 1W power under the nominal impedance. The noise signal is tested at 1m away from the speaker in the anechoic chamber.

2
sensitivity
Apply the full band pink noise signal corrected by the equalization curve to the loudspeaker, expand the signal, test the loudspeaker to reach the level equivalent to 1W power under the nominal impedance, and measure the average SPL (dB SPL) at 1m away from the loudspeaker in the anechoic chamber

3
Max SPL
The full band powder dry sound signal corrected by the equalization curve is applied to the speaker, and the signal is expanded to make the speaker reach the level equivalent to the short-term working power of the speaker. In the anechoic chamber, the Max SPL is measured at a distance of 1m from the speaker.

4
Rated power
The full band pink noise signal conforming to IEC # 268-5 standard is applied to the loudspeaker to expand the signal. After continuous test for 100 hours, the loudspeaker shall not have power of thermal damage or mechanical damage.
Frequency response curve:
Interface:
forty-five

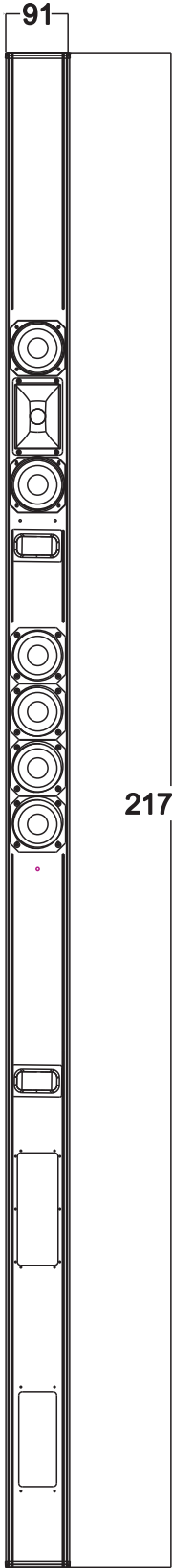
connectors



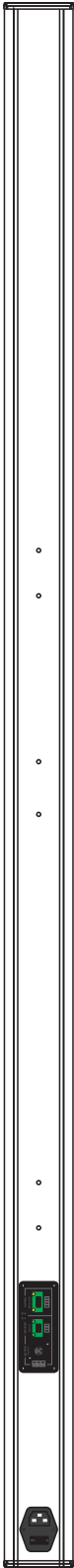
1. Balanced Input: XLR Balanced Input Interface
2. Balanced Input: Phoenix Terminal Balanced Input Interface (as line output)
3. Control Serial Port: 24V power output (as power supply for the control panel) and RS485
4. Signal light
5. Power indicator

XLIM163 Drawings:

front



rear



XLIM135 Parameters

System type	Modular active linear full-range speaker
Rated power	240W
Peak power	960W
Frequency range (−10dB)	65Hz~20KHz
Frequency response (±6dB)	85Hz~19KHz
Crossover mode	Electronic crossover
Max. SPL (1m)	108 dB
Coverage (HxV)	90°x 70°
LF transducer	4x3" NdFeB unit
MF transducer	2x3" Nd magnetic unit
HF transducer	1x1" Compression treble driver with horn
Cabinet material/ finish	Aluminum alloy/black oxidized fine sand
Audio connectors	1 3. 5–3P Phoenix, 1 XLR female
Control series port	RS485 series port, DC24V power port
Power supply	Rated power input range AC 180V~AC220V
Cabinet size (HxWxD) mm	1834. 5x91x120
Weight	6. 8kg
Fly mountings	Optional
Package size (HxWxD) mm	1980x365x180
Net weight	13. 6kg
Gross weight	16. 5kg

Speaker test standard

1

frequency response

The noise signal is applied to the speaker, and the level is adjusted to make the speaker reach the level equivalent to the 1W power under the nominal impedance. The noise signal is tested at 1m away from the speaker in the anechoic chamber.

2

sensitivity

Apply the full band pink noise signal corrected by the equalization curve to the loudspeaker, expand the signal, test the loudspeaker to reach the level equivalent to 1W power under the nominal impedance, and measure the average SPL (dB SPL) at 1m away from the loudspeaker in the anechoic chamber

3

Max SPL

The full band powder dry sound signal corrected by the equalization curve is applied to the speaker, and the signal is expanded to make the speaker reach the level equivalent to the short-term working power of the speaker. In the anechoic chamber, the Max SPL is measured at a distance of 1m from the speaker.

4

Rated power

The full band pink noise signal conforming to IEC # 268-5 standard is applied to the loudspeaker to expand the signal. After continuous test for 100 hours, the loudspeaker shall not have power of thermal damage or mechanical damage.

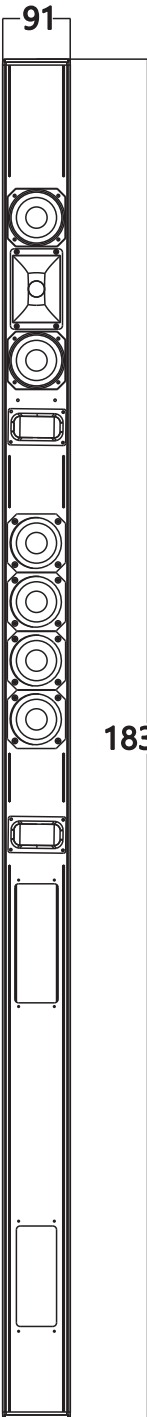
Frequency response curve:

Interface:

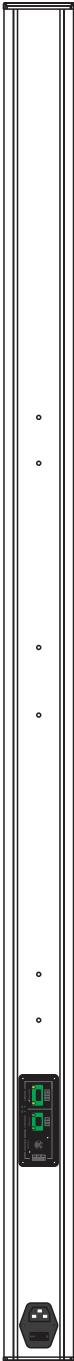
forty-five

XLIM135 Drawings:

front



rear



top

EXPECT THE BEST



**Unit 11,
Torc:MK
Chippenham Drive
Kingston
Milton Keynes
MK10 0BZ
United Kingdom.**

Tel: +44(0)1908 281072 email: enquiries@studiomaster.com

www.studiomaster.com