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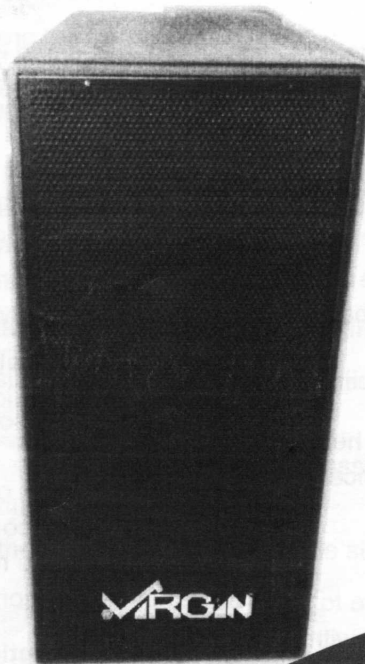
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USER'S MANUAL

MACK-X15/MACK-X215/MACK-X15M/MACK-X15AM

Virgin Professional Sound System

MACK-X215



MACK-X15



MACK-X15M/MACK-X15AM



Manufactured By:

Virgin UK Global Electronics Ltd.

www.virginelect.com

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.

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 bathtub, 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.

• **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. No user serviceable parts inside, refer all servicing to qualified service personnel only.

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

1. INTRODUCTION

Please read this manual carefully before use in order to take advantage of the speaker's features and ensure the maximum performance and trouble-free operation, and keep the manual in a safe place for future reference.

2. FEATURES

- Robust carpet enclosure
- High performance passive/active speaker system
- Low distortion, high power, high SPL
- Multi-applications: PA system, monitor
- Convenient mounting: stand, ground set

3. APPLICATIONS

- Live sound reinforcement
- Small venue
- Stage monitor speaker
- Club, bar, dance hall sound reinforcement
- Outdoor concert

4. INSTALLATION AND CONNECTION

In order to avoid the possibility of damage to the device or other property, please follow the basic precautions listed below. These precautions include, but are not limited to, the following:

4.1 Location

The VSH-series speaker features with smart and convenient installation facility, which can be located on a stable ground surface, mounted on a stand or other ways. For protecting your speaker from possible damage, please note following cautions:

- If you place your speaker on flat surface, please make sure the flat surface is even, completely firm.
- If you use a stand, please be sure to keep the following cautions:
 - Position the stand on a flat, on-skid surface.
 - Make the stand more stable, open the feet as wide as possible.
 - Tighten fastening screws securely.
 - Remove the speakers from the stands before moving the stands or adjusting its height.
- Before moving the speakers, remove all connected cables.
- When installing or transporting the device, always use two or more people.

4.2 Connections

- Always make sure that all devices are turned off when connecting the speaker to other devices. Also make sure that all volume and level controls are turned down to minimum before turning the power on.
- Use only high quality shield cable for connection. The speaker cable should be used for connecting speaker to speaker jacks, use of other types of cables may result in fire.
- Pay attention to the impedance matching, improper connection may damage your devices. For further details, please refer to the “SPECIFICATION” section.

5. PASSIVE SPEAKER SYSTEM

The passive speaker system includes MACK-X15/MACK-X215/MACK-X15M/MACK-X15AMtwo-way full range speaker and five modes: 2-way passive crossover network, high precision components, and feature high sound pressure level, high handling power and low distortion. All models are equipped with both professional speaker connector.

5.1 Control and Function

All models of MACK-series passive speaker system feature the identical control elements, so we have used the MACK-X215 as the representation to assure simplicity.

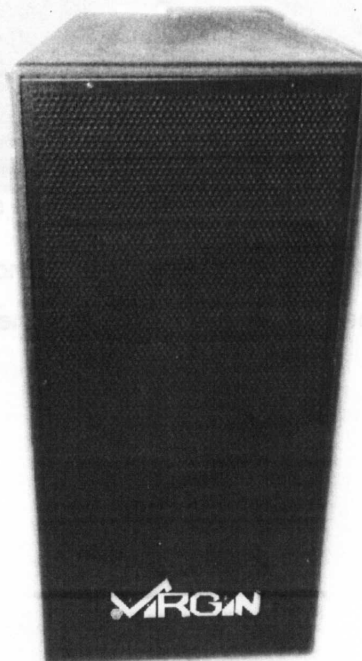
IN/OUT:

Speakon IN/OUT connector, serve to receive the powered signal coming from an external power amplifier. The both connector are parallel, which allow multiple connections of more systems with the same signal.



5.2 Specifications

Model		MACK-X215
Configuration		2 x15 2 way passive full-range loudspeaker
Speaker Unit	HF	44 mm voice coil compression driver
	LF	2 x 15" / 63 mm voice coil
Frequency Response		35Hz ~ 20kHz
PEAK POWER		2000W
Nominal Impedance		4 Ω
Sensitivity		98dB (1W@1m)
Max. SPL		131dB
COVERAGE(H x V)		80° x 60°
Crossover		2.0KHz
Connector		2xSPEAKON
Dimensions (W*H*D)		502 × 1058 × 467mm
Weight		45.3kg



Model	MACK-X15AM
Configuration	2 - way active full-range monitoring loudspeaker
PEAK POWER	1400W
Crossover	Passive Crossover
Rated Voltage AC	115V/230V~, 50Hz/60Hz
Frequency Response	20Hz ~ 20kHz, +/-3dB
Input Channel	MIC IN: unbal. 1/4" TRS jack/ bal. XLR LINE IN: unbal. RCA/ bal. XLR
Input Sensitivity	MIC: -42dBV; LINE: -15dBV
THD	<0.1%
Output Channel	LINE OUT: unbal. 1/4" TRS jack/ bal. XLR External output: SPEAKON min. Load 8ohms
Volume Control	MIC, LINE, MASTER, OUT LEVEL
Tone Control	TREBLE, MIDDLE, BASS
Indicator	CLIP LED and POWER LED indicators
Protection	DC, short-circuit, automatic limiter, over-load and over-thermal protections
Signal Output	Max. 3.4dBu adjustable
Dimension (W×D×H)	485×666×391mm
Weight	26kg



Model	MACK-X15M	
Configuration	2 - way passive full-range monitoring loudspeaker	
Speaker Unit	HF	34 mm voice coil compression driver
	MF	—
	LF	1x15" /60mm voice coil
Frequency Response	40Hz ~ 18kHz	
PEAK POWER	1400W	
Nominal Impedance	8 Ω	
Sensitivity	98dB (1W@1m)	
Max. SPL	125dB	
Crossover	4.6kHz	
Dimensions (W*H*D)	485×666×391mm	
Weight	27.5kg	



Model	MACK-X15	
Configuration	2 - way passive full-range loudspeaker	
Speaker Unit	HF	34 mm voice coil compression driver
	LF	1x15" /60mm voice coil
Frequency Response	40Hz ~ 18kHz	
PEAK POWER	1400W	
Nominal Impedance	8 Ω	
Sensitivity	98dB (1W@1m)	
Max. SPL	125dB	
Connector	SPEAKON	
Dimensions (W*H*D)	466×691×342mm	
Weight	23kg	



6.1 CONTROL AND FUNCTION OF ACTIVE SPEAKER AND REAR PANEL PICTURE INSTRUCTION

All models of series active speaker system feature the identical control elements, so we have used the 215A as the representation to assure simplicity.

1. MIC IN socket

Unbalanced 6.3 Φ jack and balanced XLR input connectors, serve to connect the low level signal source such as low impedance microphone.

2. GAIN control

This control adjusts the gain of signal coming from the MIC IN sockets, optimizing the level for correct operation of MIC input circuit. The adjustable range is from $-\infty$ to -45dB.

3. LINE IN socket

Unbalanced RCA and balanced XLR input connectors, serve to connect the high level signal source such as CD, Mp3, VCD, DVD, mixer line output and so on.

4. LEVEL control

This control adjusts the volume of signal supplied on LINE IN sockets, the adjustable range is from $-\infty$ to -10dB.

5. LINE OUT socket

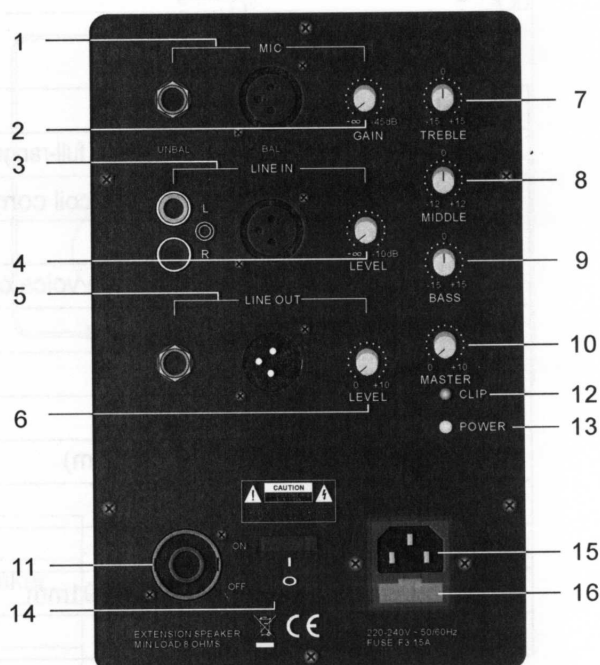
Unbalanced 6.3 Φ jack and balanced XLR output connectors, designed to send the signal coming from MIC IN/LINE IN to other J series active speaker product or amplifier. Furthermore, the MASTER control has no influence on the LINE OUT sockets.

6. LEVEL control

This control adjusts the output level of signal supplied on LINE OUT sockets, the adjustable range is from 0 to +10dB.

7. TREBLE control

Tone control for treble, which is used to boost or attenuate the high frequency by 15dB. It allows you precise high frequency response shaping.



8. MIDDLE control

Tone control for middle, which is used to boost or attenuate the middle frequency by 12dB. It allows you precise middle frequency response shaping.

9. BASS control

Tone control for bass, which is used to boost or attenuate the low frequency by 15dB. It allows you precise low frequency response shaping.

10. MASTER control

This control adjusts the overall volume of the active speaker. The adjustable range is from 0 to +10dB.

11. EXTENSION SPEAKER

Professional speakon connector, which is parallel with built-in two-way full range speaker, allows connection of external passive speaker. The impedance of external speaker can not be less than 8ohms, or else the apparatus may be damaged.

12. CLIP indicator

When the internal power amplifier is being excessively overloaded or the limiter protection circuit is working, the red CLIP indicator flashes continuously. For avoiding distortion, please turn down the GAIN/LEVEL control.

13. POWER indicator

The POWER LED will light up when the apparatus is turned on.

14. POWER switch

Turns ON/OFF the active speaker system.

15. FUSE holder

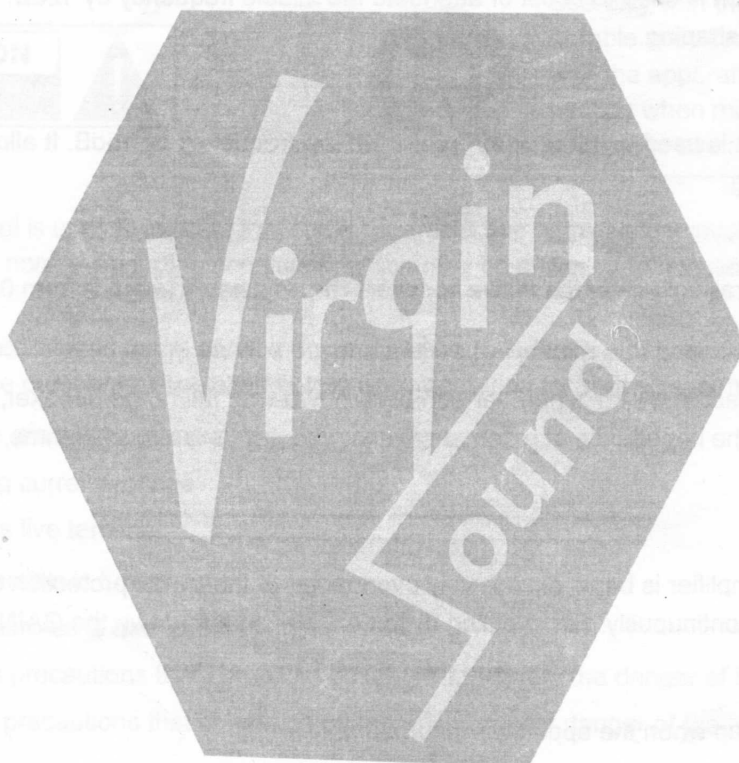
The fuse holder is for containing the fuse, which is a safety device that protects the AC supplies circuits of this apparatus.

Caution: If the fuse blew out, it should be replaced with the same type and specification, if the fuse continues to blow out, please stop using and refer servicing to qualified personnel.

16. AC power socket

This socket is used to connect the power supply to the apparatus via enclosed power cord.

Caution: Please ensure the using voltage is matching with the marked voltage on rear panel before turning on the apparatus.



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For more Information or Enquiries:

E-mail: sales@virginelect.com

info@virginelect.com

www.virginelect.com

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