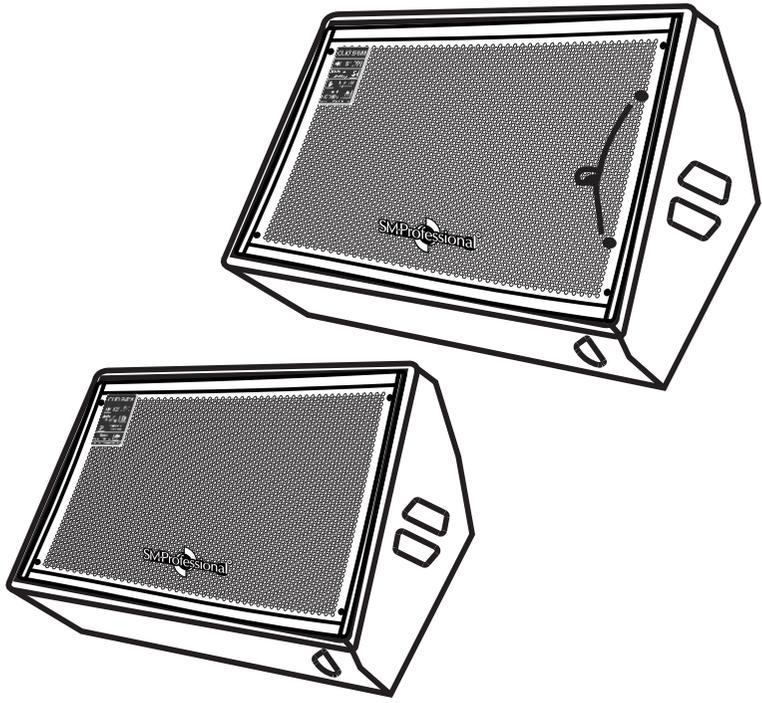




SMProfessional®

CLIO M SERIES

Professional PA Active Monitor Speaker



- Thank you for purchasing the SMProfessional Clío M Series Active Monitor Speaker.
- To ensure optimum performance and safety, please follow this instruction manual carefully.
- Please retain this manual for future reference.
- For any complaints, feedback, or testimonials, please contact our distributor or dealer.

1.....Safety Instructions

2.....Features

3.....Rear Panel & Commands & Functions

4.....Block Diagram

5.....Connections

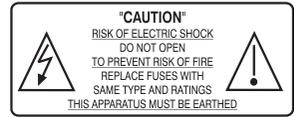
6.....Setup

7.....Use and Installations

8.....Technical Specifications

1. Safety Instructions

- CAUTION:** TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE; REFER SERVICING TO QUALIFIED PERSONNEL.
- WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Read the manual.

DETAILED SAFETY INSTRUCTIONS:

All the safety and operation instructions should be read before the appliance is operated.

Retain instructions

The safety and operating instructions should be retained for future reference.

Heed Warnings

All warnings on the appliance and in the operating instructions should be adhered to

Follow instructions

All operation and user instructions should be followed

Water and Moisture

The appliance should not be used near water (e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement etc.)

Heat

The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Ventilation

The appliance should be situated so that its location or position does not interfere with its proper ventilation. The appliance should not be situated so as to impede the flow of air through the ventilation opening.

Power Source

The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance. In order not to jeopardize the safety of the speaker, it must only be connected to the mains using the power cable provided. If the power cable plug does not fit your electrical outlet, contact a qualified electrician to replace the outlet with a suitable one.

Grounding or Polarization

Precautions should be taken so that the grounding or polarization means of an appliance are not defeated. To prevent the risk of electrical shock, the metallic parts of the speaker must be earthed. If the current outlet used for supplying the speaker, is equipped with an earth terminal, the speaker is earthed by means of the power cable.

Power Cord Protection

Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles & the point where they connect to the appliance.

Cleaning

Do not use solvents, alcohol, benzene or volatile substances for cleaning the exterior parts.

Non-use Periods

The power cord of the appliance should be unplugged from the outlet during lightning storms or when left unused for a long period of time.

Carts, stands and accessories

The component should be used only with a cart or stand that is recommended by the manufacturer. The Component should be moved with care.

Object and Liquid Entry

Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

Damage Requiring Service

- The appliance should be serviced by qualified service personnel when:
- The power supply cord or the plug has been damaged; or
Object have fallen into the appliance, or liquids have been spilled into it; or
- The appliance has been exposed to rain; or
- The appliance does not appear to operate normally or exhibits a marked change in performance; or
- The appliance has been dropped, or the enclosure damaged.

Servicing:

The user should not attempt to service the appliance beyond what is described in the Operating Instructions. All other servicing should be referred to qualified service personnel.

IMPORTANT NOTES

This manual is to be considered an integral part of the product and must always accompany the speaker when it changes ownership as a reference for correct installation and operation as well as for the safety regulations. Studiomaster will not assume any responsibility for incorrect installation of the speaker.

OPERATING PRECAUTIONS

- Do not operate the built-in amplifier in overload for extended periods.
- Never force the control elements (switches, controls, etc.).



CAUTION

- Make sure that the speaker is positioned in a stable & secure way in order to avoid any dangerous conditions for persons or objects.

CONNECTION



CAUTION

- Only qualified and experienced personnel with sufficient technical knowledge or proper instructions should connect the speaker to prevent electrical hazards.
- To prevent the risk of electrical shock, the speaker must only be supplied from the mains after all connections have been completed.
- Before powering up the speaker, it is advisable to re-check all the connections, making sure in particular that there are no short circuits.
- The sound system must be designed and installed in compliance with all current electrical standards and safety regulations.



CAUTION

- To prevent inductive phenomena from giving rise to hum or disturbance which would jeopardize efficient speaker operation, the cables that transmit microphone signals or line level signals (e.g. 0 dB/V) must be screened and should not be run in the vicinity of:
 - 1) Equipment that produces strong magnetic fields (e.g. large power supply transformers)
 - 2) Electrical energy conductors
 - 3) Lines that supply speakers.

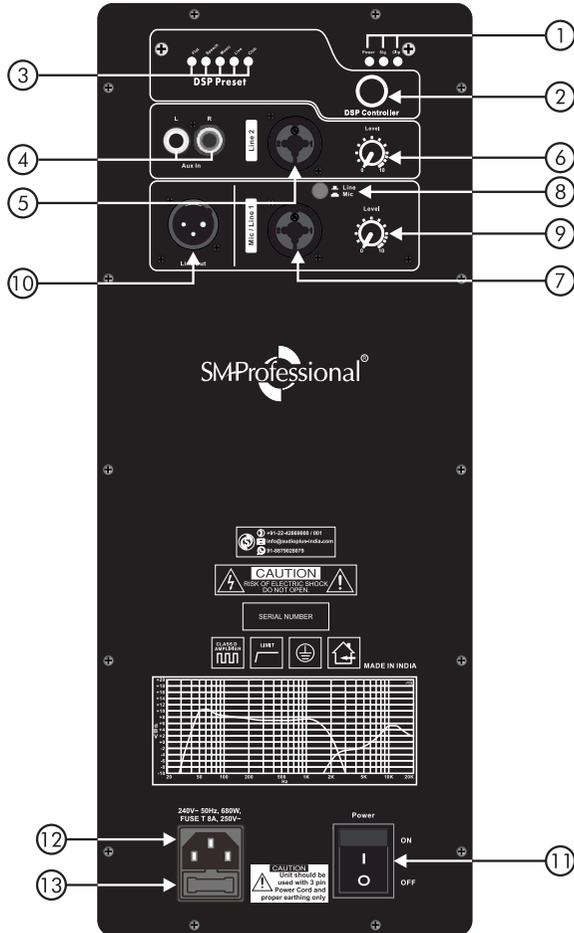
PROTECTION SYSTEM

This speaker system includes built-in protection circuits to safeguard the loudspeakers from overheating, ensuring maximum reliability in professional applications. Additionally, a sophisticated amplifier system manages: Limiter circuits, Overheating protection, Short circuit protection.

2. Features

- High-performance 2-way bi-amplified active loudspeakers.
- Driven by an efficient class D amplifier.
- Integrates powerful LF & HF drivers to deliver high SPL and angle plates to adjust the angle of the monitor to 30 or 45 degree for a wide dispersion area.
- Easy-to-use DSP sound presets: Flat / Speech / Music / Live / Club.
- Built-in soft clip limiter for speaker protection
- Multiple input options:
 - 1 X Stereo RCA
 - 1 X XLR-Jack combo (Line)
 - 1 X Switchable XLR-Jack (Mic/Line)
- XLR Line Out for linking additional speakers..
- Integrated stand-mounting socket.
- Ergonomically-shaped handles for easy transportation.
- Durable wooden enclosure with a wood grain finish.

3. Rear Panel Commands And Functions



1) Status LEDs:

Power LED: Indicates whether the speaker is ON or OFF.

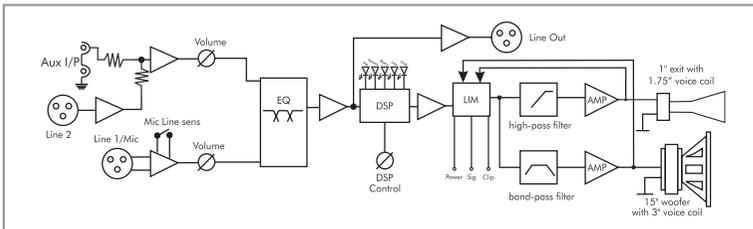
Signal LED: Lights up when an audio signal is detected at any of the connected inputs.

Clip LED: Indicates clipping or distortion at the input.

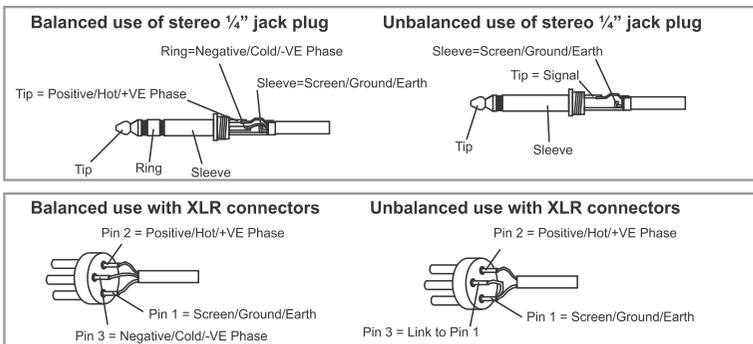
If this LED lights up, reduce the input volume on the speaker or lower the output level on the connected device.

- 2) **DSP Preset Controller:** A rotary knob used to toggle between DSP-based EQ sound presets i.e Flat, Speech, Music, Live, Club.
- 3) **DSP Preset LEDs:** These LEDs light up to indicate the currently selected DSP preset.
- 4) **Aux In:** This is a stereo RCA line input to connect devices such as CD/media players, iPods, MP3 players and DJ mixers etc.
- 5) **Line 2:** This is a combo XLR-Jack input for accepting line\level signals from a variety of audio sources.
- 6) **Line 2 / Aux In level Control:** Use this rotary knob to control the volume level of the line 2 and Aux in inputs (see Pt. 4 & 5).
- 7) **Mic / Line 1:** A combo XLR-Jack input that accepts both microphone and line\level signals from various sources.
- 8) **Mic / Line 1 Input Sensitivity Selector:** Use this switch to toggle the input sensitivity between MIC and Line modes. Mic Mode is ideal for connecting dynamic microphones.
Note: Do not use a microphone in Line mode, as it may damage your equipment.
- 9) **Mic / Line 1 Level Control:** Use this rotary knob to control the volume level of the MIC / line 1 input (see Pt. 7).
- 10) **Line Out:** This is a balanced XLR (Male) output used to connect or link this speaker to additional powered speakers.
- 11) **Power Switch:** Use this switch to power the speaker ON or OFF.
- 12) **Power Cord Input:** Connect the supplied power cord here to power the unit. Always check and match the voltage requirements indicated on the unit's rating plate. Connect only to a mains outlet with a protective earthing connection.
- 13) **Fuse Carrier:** Contains the fuse that protects the speaker from power surges and electrical faults.

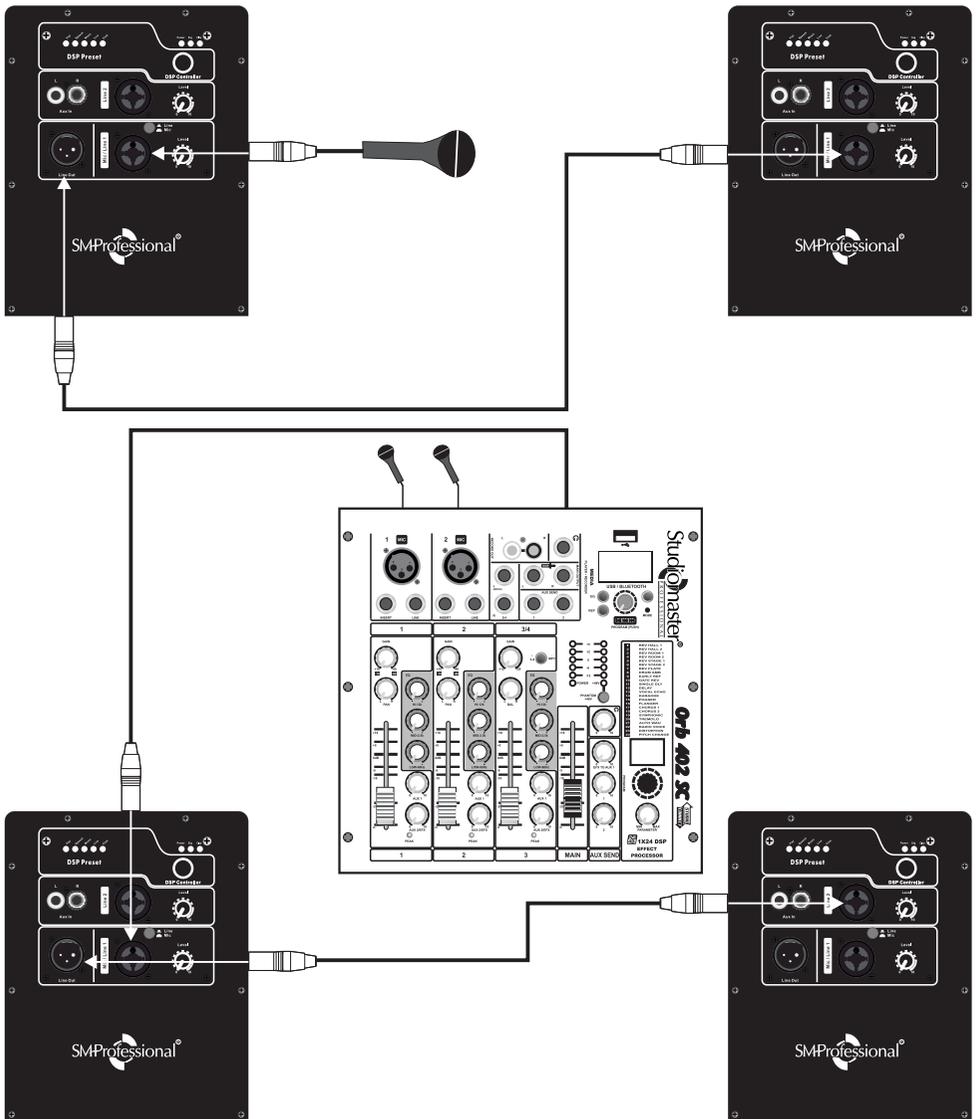
4. Block Diagram



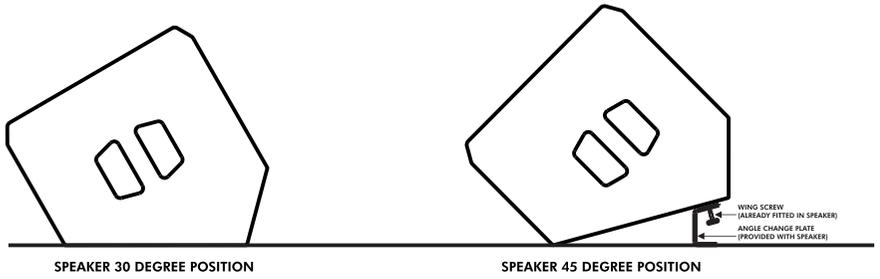
5. Connections



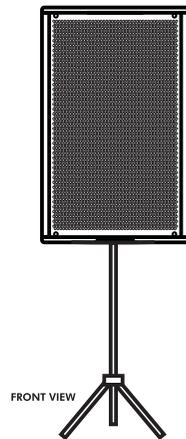
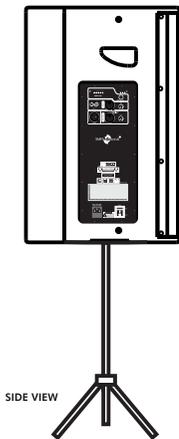
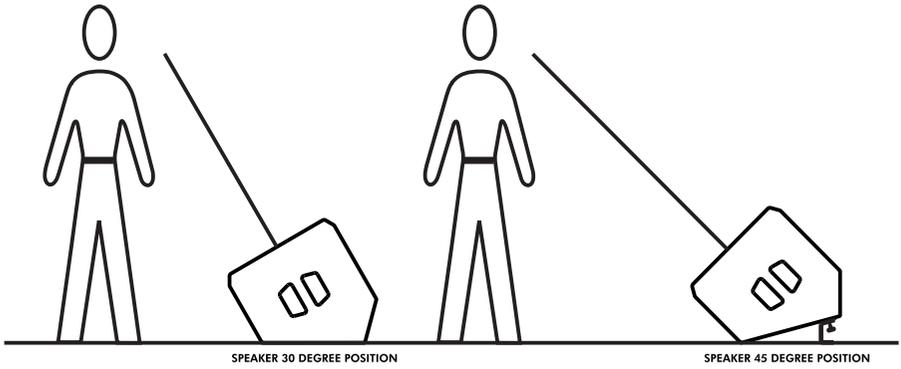
6. Set up:



7. Uses & Installations:



FLOOR USE (MONITOR)



USE WITH PEDESTAL STAND

8. Technical Specifications

Model	Clio 24M	Clio 56M
System	Bi-Amp	
Amplifier Type	Class D DSP	
Protection	Short Circuit, Open Circuit and Thermal	
RMS Power	325W @ 1% Distortion	500W @ 1% Distortion
Inputs	1 X Stereo RCA, 1 x XLR-Jack (line) and 1 x Switchable XLR-Jack (mic/line)	
Input Sensitivity	Mic	-36dBu
	Line	0dBu
	Aux	0dBu
Output Connector (Line output)	Balanced XLR	
LF Driver Size	1 x 12" woofer with 2.5" voice coil	1 x 15" woofer with 3" voice coil
HF Driver Size	1" exit with 1.75" voice coil	
Frequency Response	55Hz-19kHz \pm 3dB	40Hz-20kHz \pm 3dB
Total Coverage	30° / 45° (Horizontal / Vertical)	
Max SPL	129dB	
Limiter	Independent HF and LF	
Main Voltage	240V ~ 50Hz	
Fuse Rating	T 3.15A/250V	T 8A/250V
Dimensions (W x D x H) mm	350 x 372 x 631	440 x 420 x 669
Net Weight (Kg)	20	27



IMPORTANT NOTES

- If the speaker suddenly stop working during operation kindly check the AC Mains supply voltage, whether it is above 248V.
- For better & smooth operation please ensure the Mains supply Voltage is 240V AC.

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