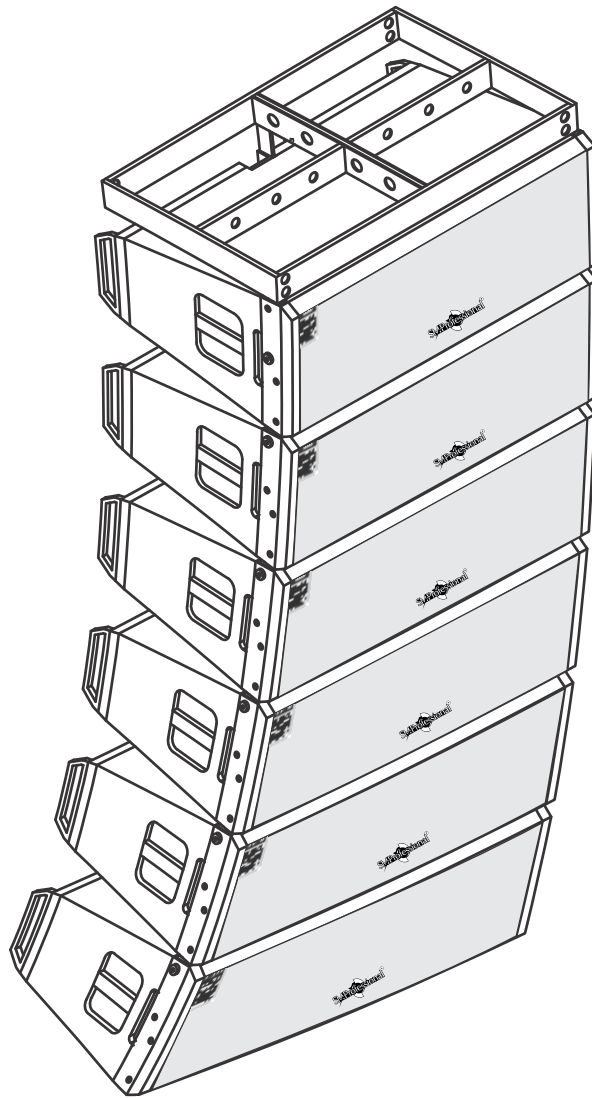




# CLIO LA219

*Professional Active Line Array Speaker*



- Thank you for purchasing the SMProfessional Clio LA219 Line Array Speakers.
  - To ensure optimum performance and safety, please follow this instruction manual carefully.
  - Please retain this manual for future reference.
  - For any complaint, feedback or testimonials please contact our distributor / dealer.
- 1.....Safety Instructions
  - 2.....Features
  - 3.....Rear Panel & Commands & Functions
  - 4.....DSP Preset
  - 5.....Block Diagram
  - 6.....Set Up
  - 7.....Installation
  - 8.....Connections
  - 9.....Technical Specifications

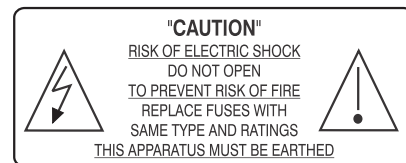
## 1. Safety Instructions

**CAUTION:** To reduce the risk of electric shock, do not remove the cover or back panel.

There are **no user-serviceable parts** inside.

All servicing must be referred to **qualified personnel**.

**WARNING:** To reduce the risk of fire or electric shock, do not expose this appliance to rain, moisture, or excessive humidity.



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:

**Important:** Read all safety instructions carefully. They provide critical information for safe operation and help prevent risks such as fire, electric shock, or hearing damage.

### Safety and Installation Instructions

#### 1. General Safety Information

- Read all safety and operating instructions before using the product.
- Retain this manual for future reference and follow all warnings and instructions.
- Do not attempt any operation, modification, or repair not described in this manual.
- Disconnect the product immediately if it emits smoke, unusual smells, or abnormal sounds.

#### When Service Is Required

Contact qualified service personnel if:

- The power cord or plug is damaged.
- Objects or liquids have entered the enclosure.
- The unit has been exposed to rain or excessive moisture.
- The product fails to operate normally or its performance changes noticeably.
- The enclosure has been damaged due to a fall or impact.

#### Servicing

- Only perform maintenance procedures described in this manual.
- All other servicing must be carried out by qualified personnel.

#### 2. Electrical and Power Safety

- Complete all installation and wiring before connecting the product to mains power.
- Ensure the mains voltage matches the rating on the product label.
- This appliance is **CLASS I construction** and must be connected to a properly earthed outlet.
- Use only the supplied power cable. If the plug does not fit your outlet, consult a qualified electrician.

#### Power Cord Protection

- Route power cables to avoid damage from foot traffic, pinching, or crushing.
- Ensure the mains connector (appliance coupler or PowerCon®) remains accessible for disconnection.

#### Periods of Non-Use

- Unplug the unit during lightning storms or when unused for extended periods.

#### No User-Serviceable Parts

- Do not open the enclosure. There are no components inside that the user can safely service.

### **3. Protection Against Liquids, Objects, and Heat**

#### **Foreign Objects and Liquids**

- Prevent objects and liquids from entering the enclosure, as this can cause electrical faults.
- Do not expose the product to dripping, splashing, or high humidity.
- Do not place containers filled with liquids or open flames on or near the unit.

#### **Water and Moisture**

- Do not operate the product near water sources such as sinks, bathtubs, or in damp environments.

#### **Heat and Ventilation**

- Install the product away from heat sources such as radiators, stoves, or other devices generating heat.
- Ensure adequate ventilation and avoid blocking airflow through ventilation openings.

### **4. Installation and Mounting**

- Use only accessories and equipment approved for use with this product.
- For suspended installations, use only designated anchoring points and appropriate hardware.
- Verify that mounting surfaces and all fasteners can support the unit's weight and operational vibration.
- Do not stack units unless explicitly allowed by the manufacturer.
- Move mounted equipment carefully to prevent tipping or injury.

### **5. Professional Installation**

- Installation should be carried out by qualified professionals or specialized firms.
- All electrical and mechanical work must comply with applicable regulations and safety standards.

### **6. Acoustic and Mechanical Considerations**

When installing a professional audio system, consider:

- Required sound pressure levels
- Coverage angles
- Frequency response
- Structural vibration and resonance

### **7. Cleaning**

- Clean the exterior with a dry or slightly damp cloth.
- Do not use solvents, alcohol, benzene, or other volatile cleaning agents.

### **8. Hearing Safety**

- High sound pressure levels may cause permanent hearing damage.
- Sensitivity to sound varies with exposure duration and intensity.
- Wear appropriate hearing protection when operating or standing near high-output transducers.
- Refer to the product specifications for maximum SPL levels.

### **Important Notes**

This manual is an integral part of the product and must accompany the speaker whenever it changes ownership. It serves as a reference for correct installation, safe operation, and compliance with all applicable safety regulations. Studiomaster cannot be held responsible for damage or hazards resulting from improper installation or use.

- Do not operate the integrated amplifier in continuous overload conditions.
- Do not apply excessive force to switches, controls, or other operating elements.
- Ensure the speaker is placed securely and stably to avoid hazardous situations or accidental tipping.

### **Operating Precautions**

#### **Connection Safety — CAUTION**

- All connections must be carried out by qualified and experienced personnel with the technical competence required to ensure correct wiring and electrical safety.
- Connect the speaker to the mains supply only after all audio and control connections have been completed.

- Before powering the system, verify all connections carefully and ensure that no short circuits are present.
- The complete sound system must be designed and installed in accordance with current electrical standards and regulations.

### Protection and Reliability Features

This speaker incorporates an advanced protection system that safeguards the internal loudspeakers against overheating, ensuring maximum reliability in professional applications.

The built-in amplifier includes sophisticated circuitry for:

- Limiting and dynamic protection
- Thermal protection
- Short-circuit protection

These systems ensure safe operation under demanding conditions.

### Signal and Cable Management

To prevent hum, interference, or signal degradation caused by inductive fields or electromagnetic disturbances, all microphone-level and line-level cables (e.g., 0 dB/V) must be screened and routed away from:

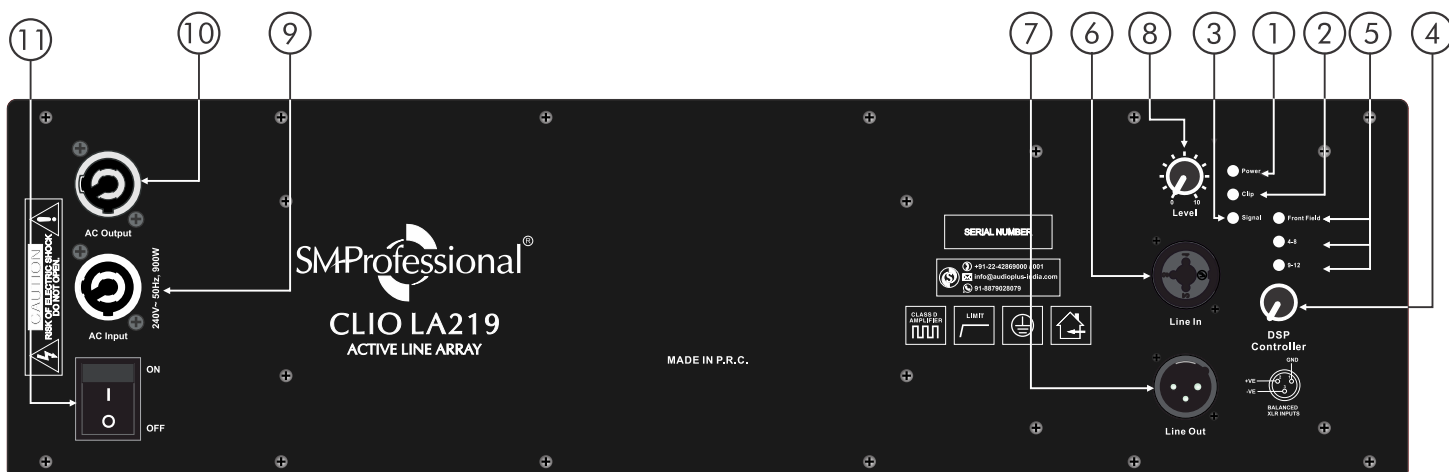
1. Equipment that generates strong magnetic fields (e.g., large power transformers)
2. Electrical power distribution cables
3. Loudspeaker output lines

Proper cable routing is essential for maintaining optimal system performance and minimizing noise.

## 2. Features

- High Performance 2-way Bi-amplified design Active Line Array.
- Driven by efficient class D amplifier.
- Integrates powerful LF & HF drivers to deliver high SPL and a wide dispersion area.
- Easy DSP sound presets (Front field / 4-8 / 9-12)
- Durable plastic moulded enclosure.
- Input for Clio LA 219: 1 combi jack input
- XLR link out for linking additional speaker.
- Built-in soft clip limiter for speaker protection.
- Integrated stand mounting socket
- Ergonomically-shaped handles for easy transportation.

## 3. Rear Panel Commands And Functions



- 1) **Power LEDs:** The Power LED indicates the ON and OFF status of the speaker.
- 2) **Clip LEDs:** The Clip LED indicates clipping or distortion at any of the connected inputs.
- 3) **Signal LEDs:** The Signal LED indicates the presence of audio signals at any of the connected inputs.
- 4) **DSP Preset controller:** This rotary knob help switch between three different DSP modes which are Front Field, 4-8, 9-12.
- 5) **DSP Preset LEDs:** These LED turns on to indicate the selected DSP preset from the three available DSP modes.

- 6) **Line input:** This is a Combi jack input that supports both 6.3mm jack and XLR input line-level signals from various sources.
- 7) **Line out:** Use this balanced XLR output to connect/link to an additional speaker.
- 8) **Line Level control:** Use this rotary knob to control the volume level of the line input.
- 9) **AC Input Socket:** Connect the power cord only to a mains Input socket with a protective earthing connection.  
Kindly check and match the voltage requirement indicated on the rating plate of the unit.
- 10) **AC Output Socket:** When two or more speakers are to be cascaded, please connect the power cord to AC Output Socket and then to the input of the consecutive speaker.
- 11) **Power Switch:** Use this switch to power the speaker ON or OFF.

#### 4. DSP Preset

##### Front Field :

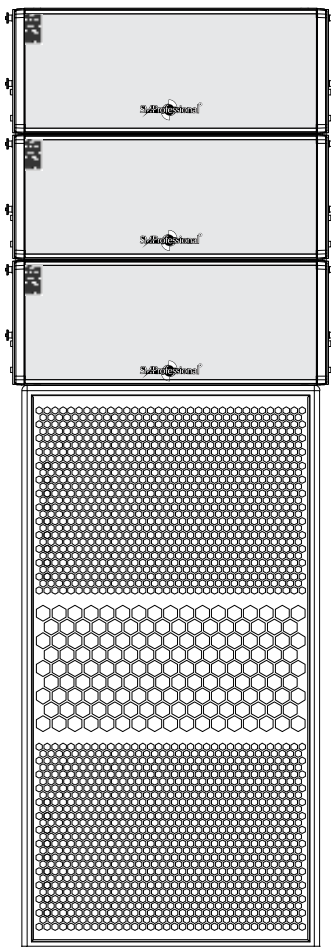
- Designed for use with up to 3 line arrays.
- Suitable for floor stacking or placement on a subwoofer.
- This preset provides the flattest frequency response and is ideal when using one subwoofer per side.

##### 4-8:

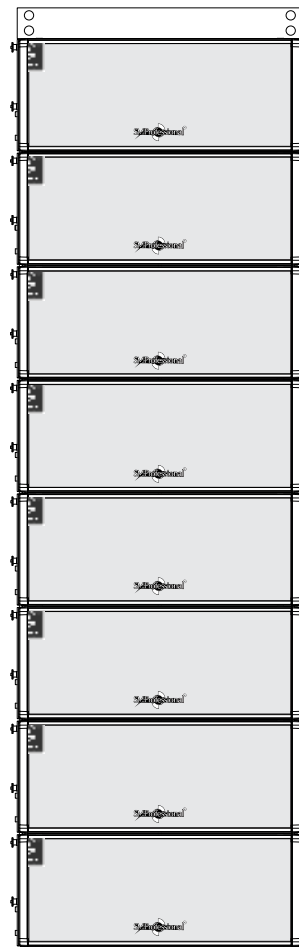
- Designed for use with up to 8 boxes, either flown or stacked on a subwoofer.
- This preset compensates for low-mid summation, ensuring the system maintains a flat frequency response suitable for all musical genres.

##### 9-12:

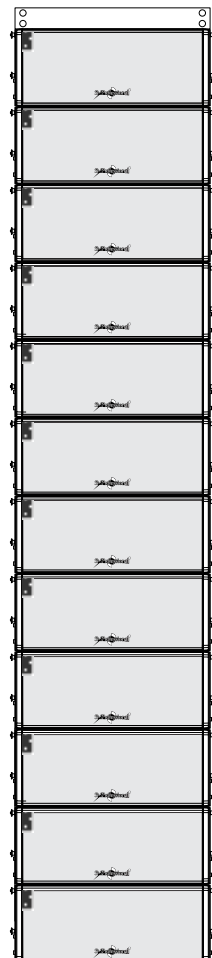
- Designed for use with up to 12 flown boxes, the maximum supported by the system.
- This preset further attenuates low-mid frequencies to ensure even distribution and a consistent frequency response throughout the coverage area.



Front Field Preset

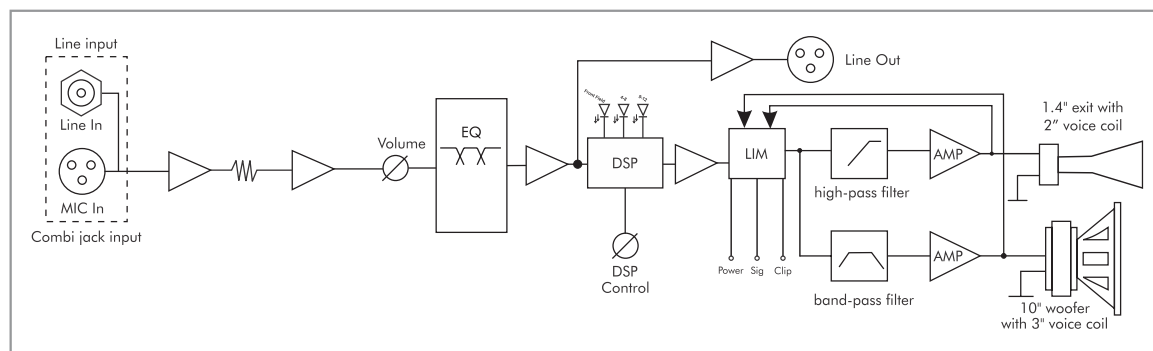


4-8 Preset

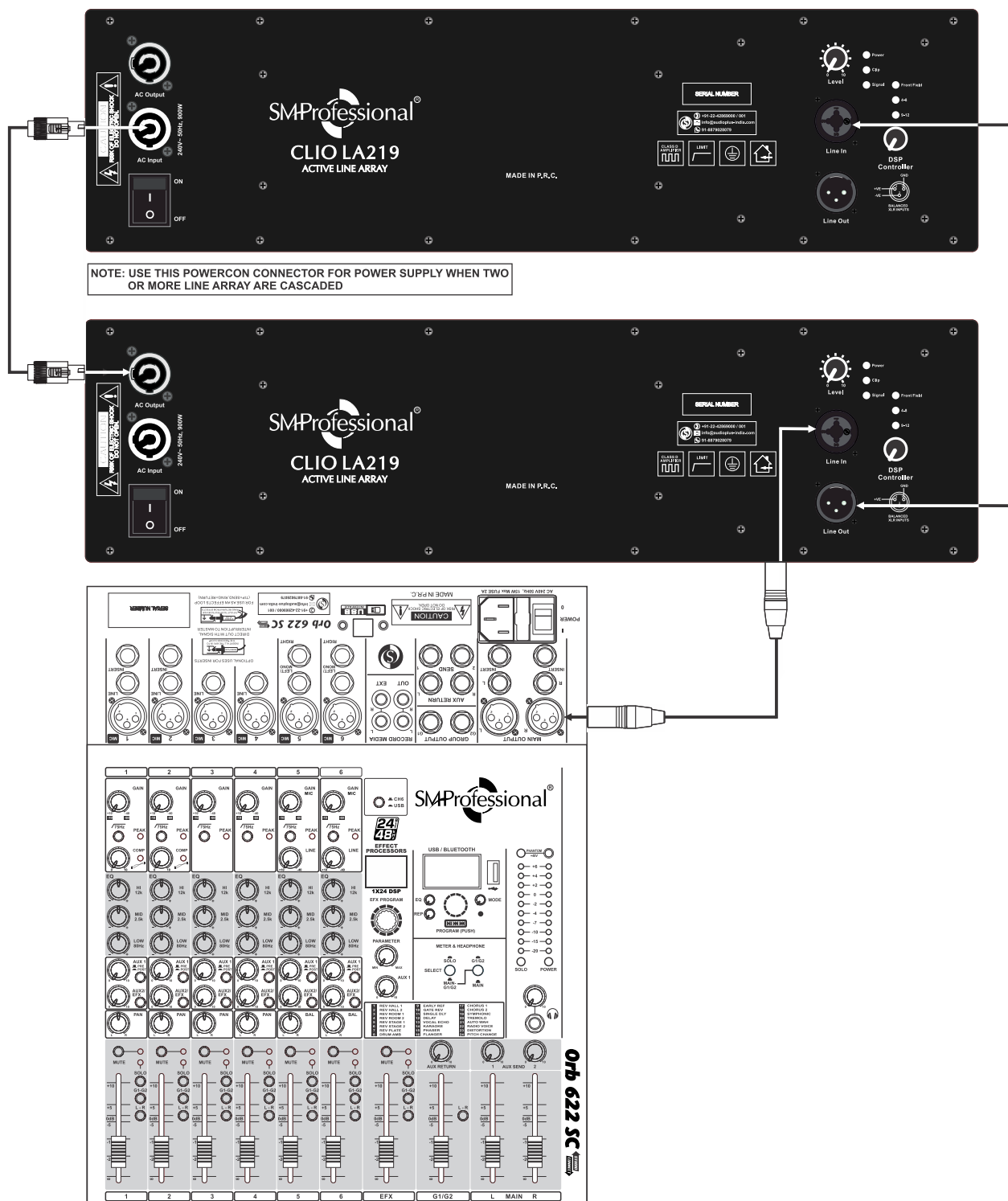


9-12 Preset

## 5. Block Diagram



## 6. Set up

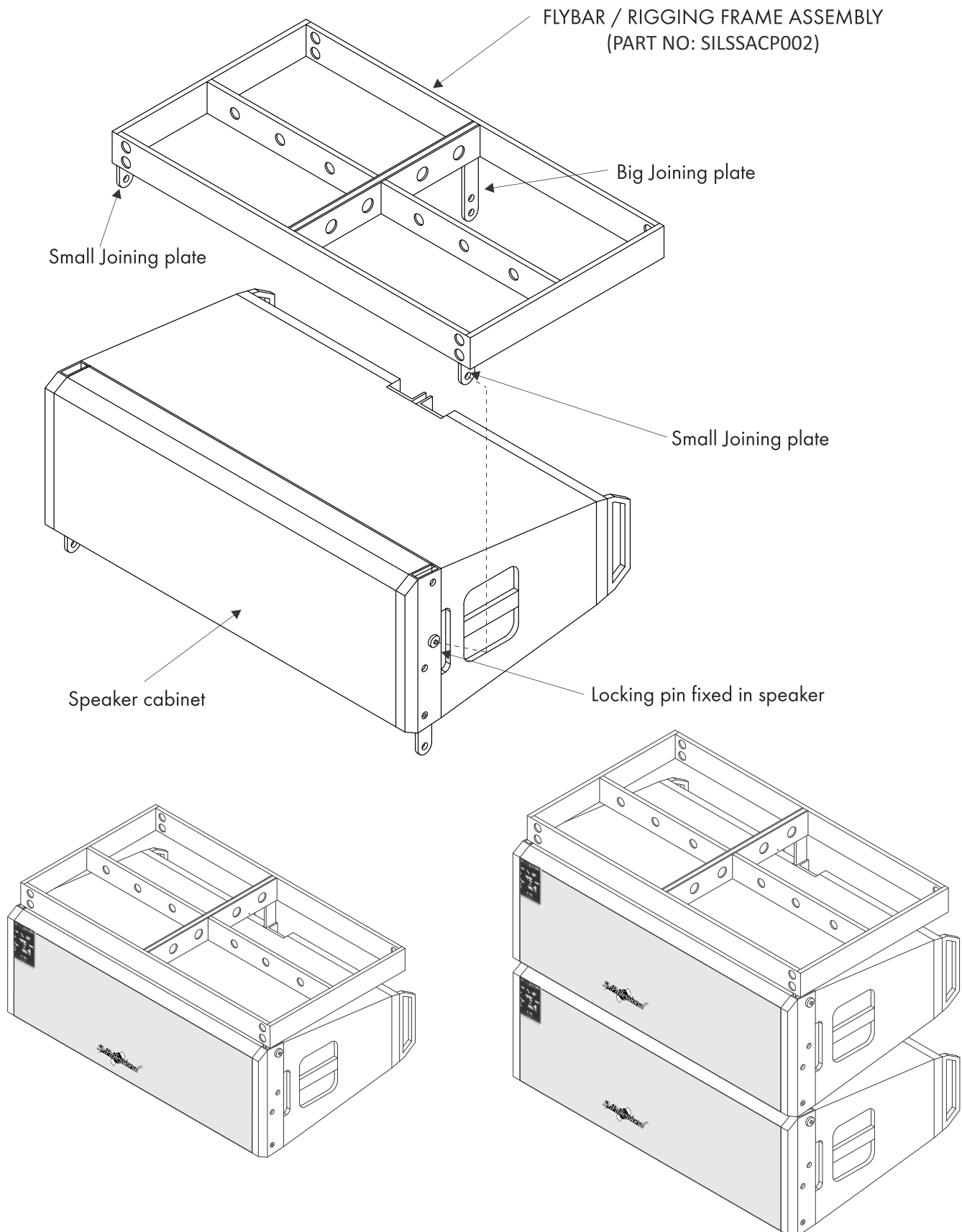




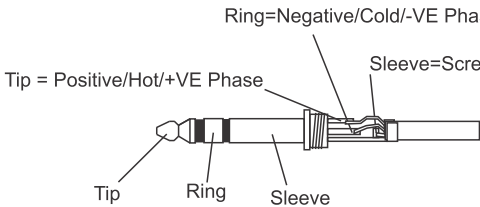
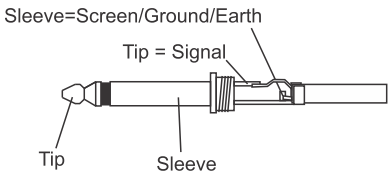
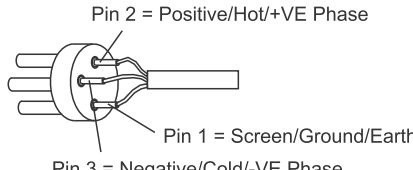
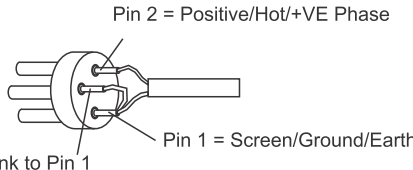
## 7. Installation

Follow the below procedure to fix speaker cabinet with fly bar/Rigging frame.

- Place speaker cabinet in line with Fly bar / rigging frame.
- Please ensure that speaker direction is correct ("SMProfessional" Logo on bottom side).
- Insert Joining Plates in cabinet as shown in figure below & fix with locking Pin (Fixed to speaker).



## 8. Connections

<b>Balanced use of stereo ¼" jack plug</b> 	<b>Unbalanced use of stereo ¼" jack plug</b> 
<b>Balanced use with XLR connectors</b> 	<b>Unbalanced use with XLR connectors</b> 

## 9. Technical Specifications


Model	Clio LA219
System	Bi-Amp
Amplifier Type	Class D
Protection	Short Circuit, Open Circuit and Thermal
RMS Power	700W @ 1% Distortion
Inputs	1 x XLR-Jack (line)
Line Input Sensitivity	0dBu
Output Connector (Line output)	Balanced XLR
LF Driver Size	2 X 10" Ferrite LF, 3" Voice coil
HF Driver Size	1 X 1.4" Titanium HF Driver, 2" Voice Coil
Frequency Response	60Hz-20kHz $\pm$ 3dB
Vertical Coverage	10°
Horizontal Coverage	90°
Max SPL	127dB
Crossover	2000Hz
Limiter	Independent HF and LF
Main Voltage	240V ~ 50Hz
Dimensions (W x D x H) mm	770 x 495 x 300
Net Weight (Kg)	32.2



### 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.

**Disclaimer: Specifications are subject to change without notice. Unauthorized reproduction of this manual is prohibited.**

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