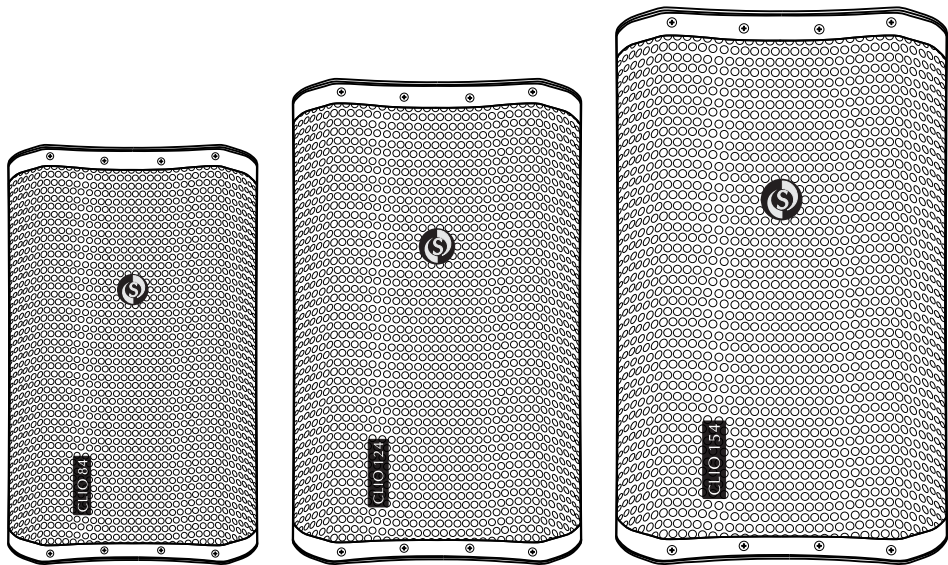




# CLIO SERIES

*Professional Active Speaker*

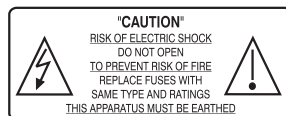


- Thank you for purchasing the SMProfessional Clio Series Active Speakers.
- To ensure optimum performance and safety, please follow this instruction manual carefully.
- Please retain this manual for future reference.
- For any complaint, feedback or testimonials please contact our distributor / dealer.

1.....	Safety Instructions
2.....	Features
3.....	Rear Panel & Commands & Functions
4.....	Block Diagram
5.....	Connections
6.....	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 appliance (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 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 is 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 exit from 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
- Objects have fallen, or liquid had been spilled into the appliance; 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 had been dropped, or the enclosure damaged.

## Servicing:

The user should not attempt to service the appliance beyond that 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, & 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 force the amplifier incorporated in the speaker to work in overload for extended periods of time.
- 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

- For connecting the speaker, use only qualified & experienced personnel having sufficient technical knowledge or specific instructions for making the connections correctly & thus preventing electrical dangers.
- 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 entire sound system must be designed & installed in compliance with the current standards & regulations regarding electrical systems.



### 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.

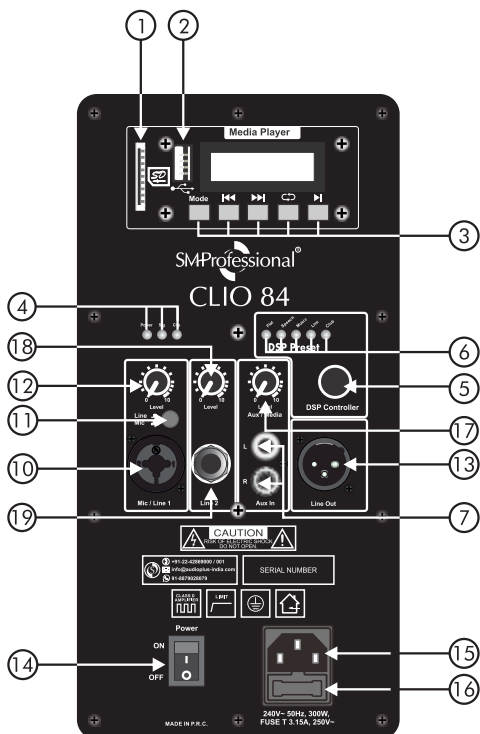
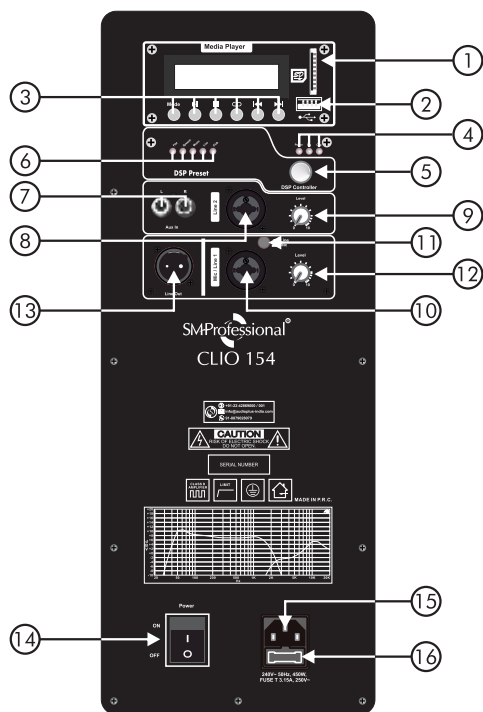
## PROTECTION SYSTEM

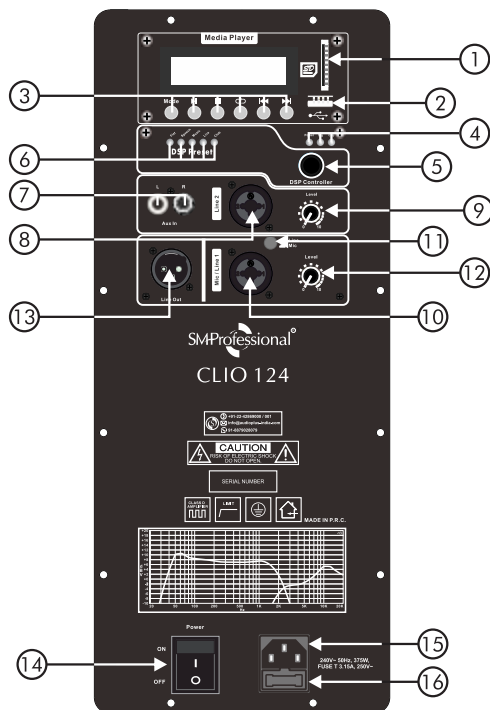
The speaker is equipped of a exclusive system, which protects the loudspeakers against overheating, ensuring the maximum reliability in all professional applications. In addition, a sophisticated system incorporated in the amplifier handles the limiter circuits and the protection against overheating and short circuits.

## 2. Features

- High-performance 2-way Bi-Amplified design active loudspeakers.
- Driven by an efficient class D amplifier.
- Integrates powerful LF & HF drivers to deliver high SPL and a wide dispersion area.
- Easy DSP sound presets (flat / speech / music / live / club).
- USB/SD MP3 player and Bluetooth.
- True Wireless Stereo (TWS) for pairing two units.
- Input for Clío 124 /154: 1 x Stereo RCA, 1 x XLR-Jack (line) and 1 x Switchable XLR-Jack (mic/line).
- Input for Clío 84: 1 x Stereo RCA, 1 x Jack (line) and 1 x Switchable XLR-Jack (mic/line).
- XLR line out for linking additional speakers.
- Built-in soft clip limiter for speaker protection.
- Integrated stand mounting socket
- Ergonomically-shaped handles for easy transportation.
- Durable plastic moulded enclosure with a wood grain finish.

## 3. Rear Panel Commands And Functions





- 1) **SD Card Slot:** Use it to insert an SD card with MP3 files for playback.
- 2) **USB Disk:** Use it to insert a flash-based USB storage device (pendrive) with MP3 files for playback.
- 3) **Mode Selection and Playback Control:** Use the "Mode" switch to toggle between USB/SD and Bluetooth modes. Use the play/pause, stop, repeat, previous/rewind and next/forward knobs to take full control of your music playback.

**Terms of Use:** Studiometer Professional respects intellectual property rights and we request our users to do the same. Please use MP3 downloads only from sources which you have legally purchased. PLEASE DO NOT USE PIRATED MUSIC OR PROGRAMS.

**Disclaimer:** Your acceptance and use of this product will be treated as your agreement to the following clause: Studiometer Professional, Audioplus and all associated companies and sellers are indemnified from any liability the end-user may incur by using illegally procured material or immoral content or any other such similar program selection.

- 4) **Status LEDs:** The Power LED indicates the ON and OFF status of the speaker. The Signal LED indicates the presence of audio signals at any of the connected inputs. The Clip LED indicates clipping or distortion at any of the connected inputs. Kindly reduce the input volume level on the speaker or reduce the output level on the connected device/equipment.
- 5) **DSP Preset Controller:** The loudspeaker integrates the following DSP-based EQ sound presets - Flat, Speech, Music, Live and Club. Use this rotary knob to toggle between the various DSP presets.
- 6) **DSP Preset LEDs:** These LEDs light up based on the respective DSP preset selected.
- 7) **Aux In:** This is a stereo RCA line input to connect devices such as CD/media players, iPods, MP3 players and DJ mixers etc.
- 8) **Line 2:** This combo XLR-Jack input accepts line-level signals from various sources.

- 9) **Line 2 / Aux In / Media level Control:** Use this rotary knob to control the volume level of the line 2 / Aux in / Media inputs (Clio 124 / 154) (see Pt. 7 & 8).
- 10) **Mic / Line 1:** This combo XLR-Jack input accepts both mic and line-level signals from various sources.
- 11) **Mic / Line 1 Input Sensitivity Selector:** Use this switch to change the input sensitivity between mic and line. The mic mode is ideal to connect a dynamic microphone.  
Note: Do not use a microphone in the line mode. Doing so may damage your equipment.
- 12) **Mic / Line 1 Level Control:** Use this rotary knob to control the volume level of the mic / line 1 input (see Pt. 10).
- 13) **Line Out:** Use this balanced XLR (M) output to connect/link this speaker to an additional speaker.
- 14) **Power Switch:** Use this switch to power the speaker ON or OFF.
- 15) **Power Cord Input:** Use the supplied cord to power up the speaker. Kindly check and match the voltage requirement indicated on the rating plate of the unit. Connect the power cord only to a mains socket outlet with a protective earthing connection.
- 16) **Fuse Carrier:** Houses a fuse to protect the unit from unwanted power surges.
- 17) **Aux/Media Level Control:** Use this rotary knob to control the volume level of the Aux/Media input. (Clio 84)
- 18) **Line 2:** This jack input accepts line level signal from various sources. (Clio 84)
- 19) **Line 2 Level Control:** Use this rotary knob to control the volume level of the line input. (Clio 84)

### Bluetooth Operation and Indication

Action	Indication for Clio 124 / 154	Indication for Clio 84
1) When Power On	It displays 'on' and then "Well Come Please Wait"	"Blue Display"
2) Bluetooth mode	'Bluetooth Unconnected' on display.	"Blue Display"
3) USB mode (Default mode)	USB 88:88	USB 88:88
4) SD/MMC mode	SD 88:88	SD 88:88

### Clio Series Features

- ☞ Plays any Mobile phone or other smart device with Bluetooth wirelessly.
- ☞ Connect your smart device (Mobile phones, Laptops, Tablet phones etc.) & control music directly from the palm of your hand.
- ☞ 13 meter range line of sight for Bluetooth connection gives you room to roam around your premises.

### Setting up your Bluetooth Connection for Clio Series

- Press mode button to switch from USB mode to bluetooth mode.
- Clio 154 & Clio124: From your phone or any of the Bluetooth device turn Bluetooth ON and search for device "Clio 154 & Clio124".
- Clio 84: From your phone or any of the Bluetooth device turn Bluetooth ON and search for device "Clio 84". Pair and connect to it.
- Now any music or audio you play on your device will be played through Clio 154 / Clio 124 / Clio 84 and the music can be controlled (Play, Pause, Volume + and Volume -, Reverse & Forward) by either your device or controls on the panel.

## Reconnecting Your Device

If you move out of range or turn off the Bluetooth feature on your mobile device, the Bluetooth Receiver will get disconnected from your device. To reconnect, click on the device name (Bluetooth) on your paired device list.

## Changing Connected Device

If you want to switch from one device to another, follow these steps:

- 1) End the existing *Bluetooth* connection from your device by either disconnecting within your "settings" or turning off *Bluetooth*.
- 2) The *Bluetooth* can now be connected to a different BT device.
- 3) Follow the directions in "**Setting up your Bluetooth Connection**".

**ATTENTION:** 1) Please ensure that there isn't any obstruction between *Bluetooth* Transmitter (Mobile phones, Laptops, Tablet phones etc.) & Receiver (Clio 154 / Clio 124 & Clio 84 Bluetooth).

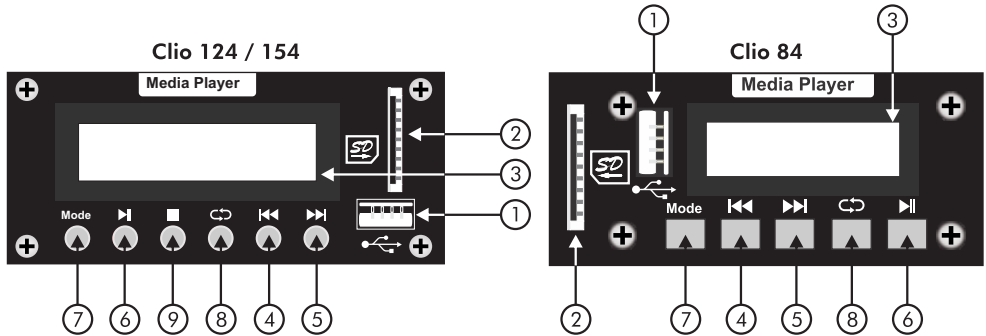
## Out of Range or Lost Signal

If the music device (Mobile phones, Laptops, Tablet phones etc.) is out of range (beyond 13 meter) of the *Bluetooth* Receiver (Clio 154 / Clio 124 / Clio 84) or if there is something blocking the *Bluetooth* signal, which shall be indicated by loss of audio or audio intermittency. To avoid a lost connection, move the music device back into range (within 13 meter), or reduce obstruction between the receiver and your smart phone. The connection will automatically be reestablished and audio signal will be through. If the connection does not restore you will need to establish it again as mentioned in "Setting up your Bluetooth Connection".

## Troubleshooting Bluetooth Connection

PROBLEM	POSSIBLE SOLUTION
Paired <i>Bluetooth</i> device does not connect	Already connected to other BT device. Disconnect from it and pair & connect again.
No or poor audio from <i>Bluetooth</i> connection	Move your BT device away from devices that generate electromagnetic interference, such as microwave ovens, cordless phones, WIFI networks or other <i>Bluetooth</i> device.
	Make sure that the BT module on the Clio 154 / Clio 124 / Clio 84 panel is not muted and the volume is up.
	Make sure your <i>Bluetooth</i> transmitting device is playing audio & the volume is up.
	Your <i>Bluetooth</i> device may be out of the specified range, try moving it closer to the Clio 154 / Clio 124 / Clio 84.
	Make sure that you work within the <i>Bluetooth</i> range of 13 meter, taking care that there is no metal or human body interference.
Cannot pair the speaker with your <i>Bluetooth</i> device	Make sure you select " <i>Bluetooth</i> " in the pairing list on your device to finalize the connection. (required by some devices)
	Your <i>Bluetooth</i> device may be out of range-try moving it closer to the Clio 154 / Clio 124 / Clio 84.
	Already paired to other BT device. Unpair from it and then pair & connect again.

## Media Player Description



- 1) **USB Input Socket:** For inserting the USB drive.
- 2) **SD Card Input Socket:** For inserting the SD Card.
- 3) **LED Display:** For displaying track Number.
- 4) **Previous (⏮):** Press button to select previous song & long press of this button will decrease volume level.
- 5) **Next (⏭):** Press this button to select next song & long press of this button will increase volume level.
- 6) **Play / Pause (⏮):** Press this button to Play or pause the MP3 songs.
- 7) **Mode:** This button use for either USB or Bluetooth.
- 8) **⏮ :** This button have four functions showing on display one by one
  1. Single : play one song continue again & again (repeat).
  2. Folder : To select song from folder, if there is any folder.
  3. Random : Select song or track randomly.
  4. All : Play all song one by one.
- 9) **■ :** Press this button to stop song & then press play / pause button to play song from start.  
(Clio 154 & Clio 124)



True Wireless Stereo (TWS) Function & Operation

True Wireless Stereo (TWS) technology lets you use two Clio series speaker units (same models) paired via Bluetooth to form a wireless left and right channel system to deliver true stereo sound. Apart from a louder output, TWS empowers a wide stereo imaging and natural, more pleasing sound.

Requirements:

- 2 x Clio series speaker units with TWS compatibility.
- Bluetooth device (smartphone,laptop and TV etc)

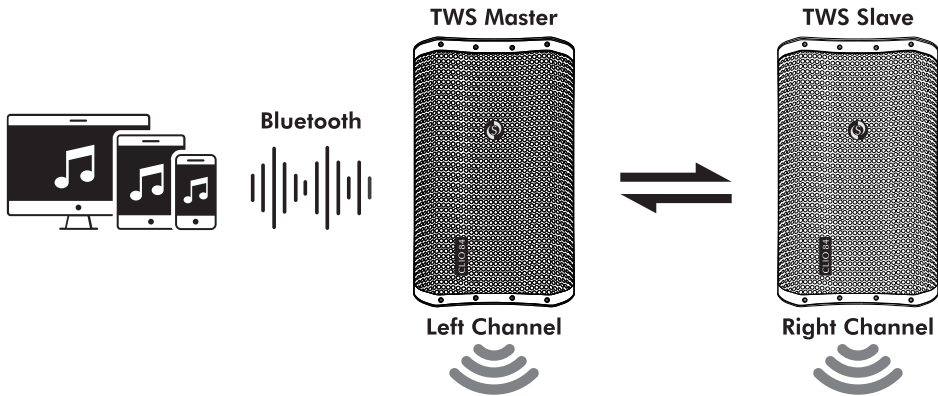
Note:

The TWS functionality is only compatible with between two units of the same model. Kindly refer to the compatibility chart below.

Configuration	TWS Compatibility
Clio 84 + Clio 84	✓ Compatible
Clio 124 + Clio 124	✓ Compatible
Clio 154 + Clio 154	✓ Compatible
Clio 84 + Clio 124 + Clio 154	✗ Not Compatible

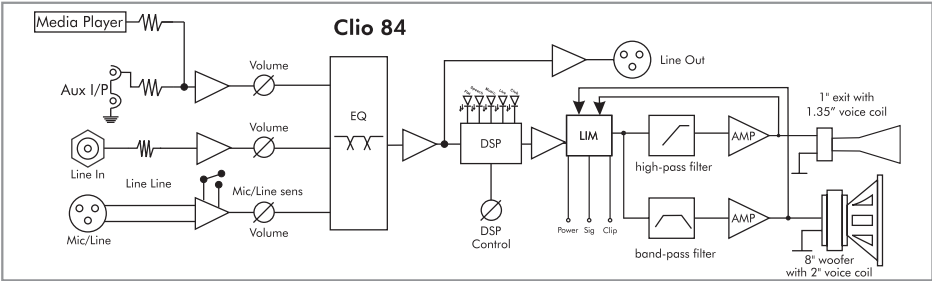
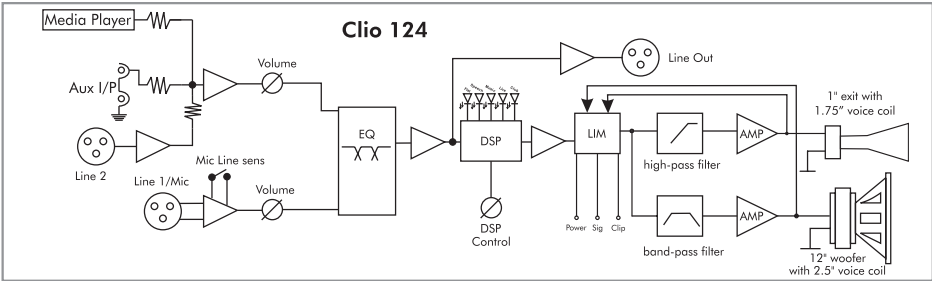
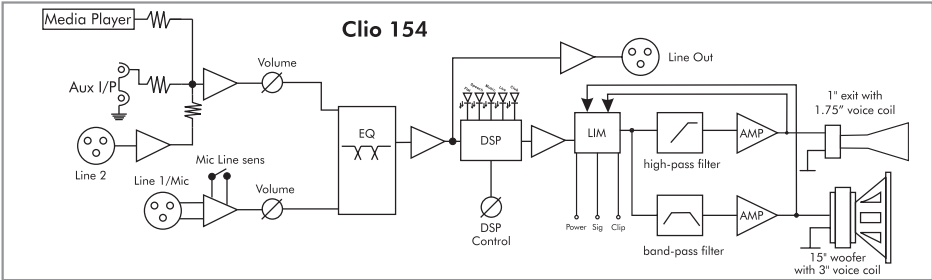
TWS Connection:

Note: Steps to connect via Bluetooth are mentioned on Page 6.

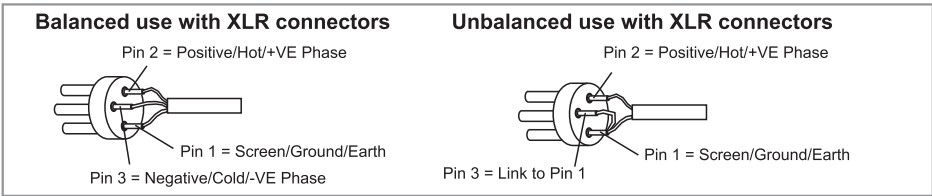
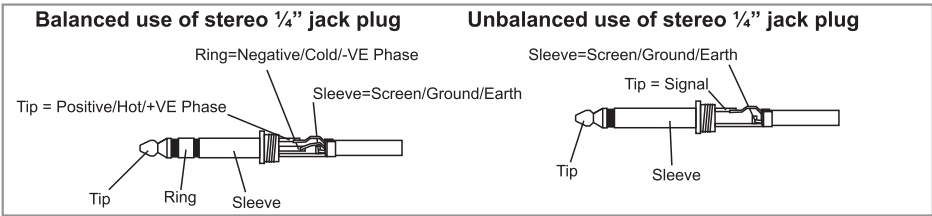


1. Press the Mode button on the rear to select the Bluetooth mode. Long press the Mode button of the first Clio series speaker unit. This will pair it as the master device to the selected audio source (smart phone, player, PC, TV etc).
2. After successfully pairing the first unit with the audio sources, now move to the second unit. Press the Mode button on the rear panel to select the Bluetooth mode. Long press the mode button of the second unit. This will pair the second (the so-called" slave") unit to the master device i.e. the master Clio series speaker unit, not the sources. This way, you will get a stereo system, which plays separate left and right channels.
3. For optimal results, ensure both the units are at the same volume level. You can also place the speaker apart for a more spatial stereo sound and a wide dispersion area.

4. Block Diagram



5. Connections



## 6. Technical Specifications

Model	Clio 84	Clio 124	Clio 154
System	Bi-Amp		
Amplifier Type	Class D DSP		
Protection	Short Circuit, Open Circuit and Thermal		
RMS Power	200W @ 1% Distortion	325W @ 1% Distortion	400W @ 1% Distortion
Inputs	1 x Stereo RCA, 1 x Jack (line) and 1 x Switchable XLR-Jack (mic/line)	1 x Stereo RCA, 1 x XLR-Jack (line) and 1 x Switchable XLR-Jack (mic/line)	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 8" woofer with 2" voice coil	1 x 12" woofer with 2.5" voice coil	1 x 15" woofer with 3" voice coil
HF Driver Size	1" exit with 1.35" voice coil	1" exit with 1.75" voice coil	1" exit with 1.75" voice coil
Frequency Response	40Hz-20kHz ±3dB	55Hz-19kHz ±3dB	40Hz-20kHz ±3dB
Total Coverage	90° / 60° (Horizontal / Vertical)		
Max SPL	121dB	123.5 dB	128dB
Limiter	Independent HF and LF		
Main Voltage	240V ~ 50Hz		
Fuse Rating	T 3.15A/250V		
Dimensions (W x D x H) mm	280 x 240 x 435	385 x 345 x 615	440 x 390 x 715
Net Weight (Kg)	9	15	21



### 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.

## Range of Studiometer Professional Products.

### Wired Microphones

SM 100XLR  
TRIO 100  
SM 200XLR  
TRIO 200  
SM 300I  
SM 400XLR  
SM 450XLR  
SM 500XLR  
SM 600XLR  
SM 650XLR  
Flex 3  
Flex 4

### Wireless Microphones

BR 28 Series  
BR 48 Series  
ER 11 Series  
ER 31 Series  
ER 58 Series  
XR 20 Series  
XR 40 Series  
XR 60 Series  
XR 80 Series  
XR 100 Series  
NT 50 Series  
NT 60 Series

### Conference System

Vak 10 System  
Vak 10d / Vak 10c  
Vak 20  
Vak 30  
Vak 30d / Vak 30c

### Crossovers

SX-2  
SX-321  
SX-341

### Processors

SEQ 152  
SEQ 302F  
SEQ 312 / SEQ 341  
Multi 3  
SFX 8  
SPS 8  
SDX 4

### Mixers

~ **Mini Series**  
Mini 6 / Mini 6U  
Mini 8 / Mini 8U

~ **Air Series**

Air 2  
Air 4  
Air 4F  
Air 6  
Air 6R  
Air 8  
Air 12  
Air 16  
Air 24  
Air 2U  
Air 4U  
Air 6U  
Air 8U

### Mixers

~ **Air Series**  
Air 12U  
Air 16U

Air Pro 18  
Air Pro 28  
Air Pro 36

~ **AQUA Series**

Aqua 6  
Aqua 8  
Aqua 10  
Aqua 14

~ **Digital Mixer**  
D. Mix 20

~ **Diamond Club Series**

Diamond Club 6.2  
Diamond Club 8.2  
Diamond Club 8.2 EFX  
Diamond Club 12.2  
Diamond Club 12.2EFX  
Diamond Club 12.2UX  
Diamond Club 16.2  
Diamond Club 16.2EFX

~ **Diamond Supreme Series**

Diamond Supreme 12  
Diamond Supreme 12U  
Diamond Supreme 16U

~ **Club 2000 Series**

Club 2000 142  
Club 2000 182

~ **Diamond Pro-3 Series**

Pro-3 12.3  
Pro-3 16.3

~ **DJ Mixers**

DJX 325  
DJX 825  
DJX 925

### Amplifiers

~ **P - Series**

PA 1.5  
PA 2.0  
PA 3.0  
PA 4.5  
PA 6.0  
PA 7.5

~ **DPA Series**

DPA 2000  
DPA 3200  
DPA 4500

~ **RAX Series**

RAX 5020  
RAX 7020

~ **DJA Series**

DJA 500  
DJA 800  
DJA 1600

~ **DJA Series**

DJA 2500  
DJA 3200  
DJA 4000  
DJA 5000

~ **Arena Series**

Arena 20  
Arena 30

~ **Industrial Amplifier**

ARC 120A  
ARC 240A  
ARC 120UB  
ARC 240UB

### Speaker Component

~ **S-Series**

SWF 18140  
SWF 18120  
SWF 18100  
SWF 1880  
SWF 1560  
SMB 1565  
SMB 1545  
SMB 1530  
SMB 1250  
SMB 1230  
SMB 1220  
SHF 0104  
SHF 0106  
SHF 0210

~ **E-Series**

EMB 1225  
EMB 1530  
EMB 1535

~ **TITAN Series**

TWF 2115  
TWF 1815  
TWF 1810  
TWF 1580  
TWF 1570  
TMB 1555  
TMB 1535  
THF 0208

~ **FURY Series**

F18.120  
F15.70  
F15.40  
F15.50X  
F15.40X  
F12.30X

### Passive Speakers

~ **S-Series**

S8018  
S8118  
S8218  
S8128  
S8028

~ **Fire Series**

Fire 21  
Fire 51  
Fire 55  
Fire 57 / Fire 59  
Fire 82  
Fire 84

### Passive Speakers

~ **XVP Series**

XVP 1540  
XVP 2550  
XVP 2585MK2  
XVP 1808  
XVP 1810  
XVP 2820

~ **ELAN Series**

ELAN 151  
ELAN 181

EKS 151

Q 400

~ **ARIA Series**

Aria 8  
Aria 12  
Aria 15

### Powered Speaker

~ **A Series**

A 500

~ **Clio Series**

Clio 84  
Clio 124  
Clio 154

~ **B Series**

B 200  
B 400V2

~ **OP Series**

OP 415  
OP 515

~ **SUB Series**

12SUB  
15SUB

~ **Muse Series**

MUSE 61

### Line Array System

FIRE 92  
SLA-40 T  
SLA-40 Kit  
S 9022

### Stabilizers

SVC - S1000  
SVC - S2000  
SVC - S3000  
SVC - S5000  
SVC - S5001  
SVC - S8000  
SVC - S10000  
SVC - S12000

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