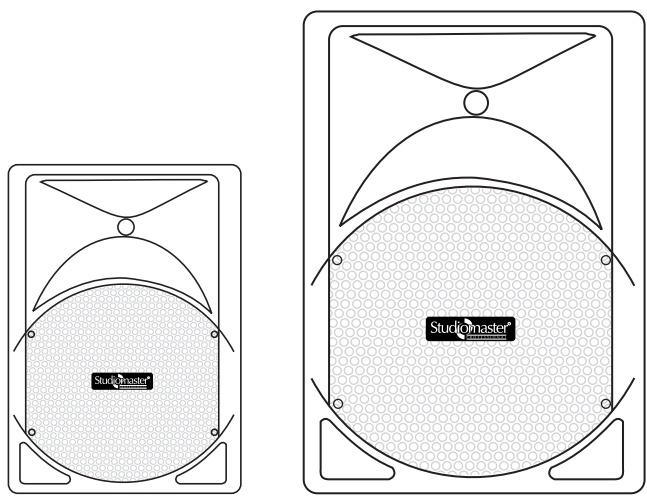# Studiomaster® PROFESSIONAL

ARIA

Plastic Moulded Passive Speaker

- Thank you for purchasing the Studiomaster Professional ARIA series Passive loudspeakers.
- 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. Warranty Information

Unpacking

As part of our system of quality control, every Studiomaster Professional product is carefully inspected before leaving the factory to ensure flawless appearance. After unpacking, please inspect for any physical damage. In the event that damage has occurred, immediately notify your Studiomaster Professional dealer. Retain the cartons for future use should the product require servicing / maintenance.

2. Introduction

The Aria series Passive loudspeakers combine a state of art design & outstanding sound quality to provide a choice of sound systems to suit almost every application.

3. Features

- 2-Way Speaker System.
- Heavy Duty Plastic Moulded Cabinets.
- Integral tripod stand adaptor.
- Supplied with additional brackets for the speaker to be used as a floor monitor. (Aria 12 & Aria 15 only)

4. Application

Floor Monitor or Main Speaker in
- Live Shows.
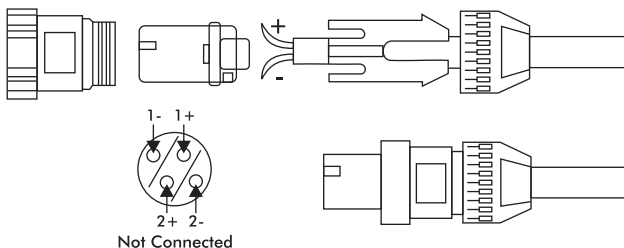- Night Clubs.
- House of Worship.
- DJ Set up's.

5. Connection

The Studiomaster Professional Aria series are equipped with high quality speakon connectors. Two connectors are installed in parallel allowing an additional speaker set to be installed.

The pin arrangement of speakon connector for full range:
1+ = In (+)   1- = In (-)   2+ = Not used   2-= Not used

Speakon Wiring Guide

1- 1+
2+ 2-
Not Connected

1) Wire Size:

Please use cables of the correct gauge in order to obtain optimum performance from your speaker system. For the Aria series we recommend that your cables should be no smaller than 14 gauge. For cables of length 100-250ft use cables no smaller than 14 gauge.

2). Matching an Amplifier with the ARIA Series.

To get the maximum performance from your ARIA series loudspeaker, Studiomaster Professional recommends the following guidelines.

Application Guidelines

a). **Monitored Application:** For monitored applications, where the peak transient capability must be maintained, the amplifier should be capable of delivering twice the continuous power rating of the speaker.

b). **Routine application:** For routine application where high continuous, but non-distorted output is likely to be encountered, the amplifier power rating should match the continuous power rating of the speaker.

To protect your system

a)   Use adequate clean power to drive the system to required levels. Avoid clipping or overloading your power amplifier.
b)   Recognize & respect the known limits of your equipment.
c)   Consider adding a peak limiter, such as the compressor/limiter to your system to electronically limit potentially damping.
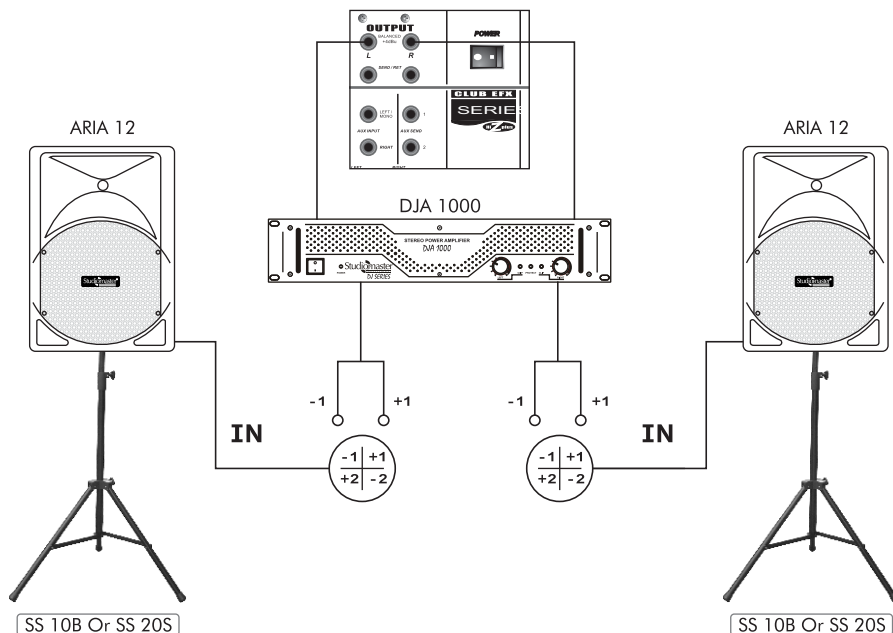d)   To get the best performance from a loudspeaker, the amplifier should be rated higher in terms of watts.

6. Hook Up Diagram

Products Used:

• Studiomaster Professional Aria 12 x 2 Passive Speakers.
• Studiomaster Professional DJA 1000 Power Amplifier.
• Mixer of your choice.
• Speaker stands SS 10B Or SS 20S.

Usage:

• Connect the output from the mixer in to the input of the amplifier (DJA 1000) to be used for the Aria 12.

• **For a similar set up of Aria 8, 2nos, DJA 500 amp should be used.**
• **For a similar set up of Aria 15, 2 nos, PA 2.0 amp should be used.**

7. Technical Specifications

Models	ARIA 8	ARIA 12	ARIA 15
Frequency Response	70Hz - 18kHz	50Hz - 20kHz	45Hz - 18kHz
Coverage (H x V)	90° x 30° x 45°	120° x 30° x 45°	90° x 30° x 45°
Power Handling (Watts)			
Continuous / Peak	120W / 240W	250W / 500W	400W / 800W
Sensitivity 1w/1m	96dB	96dB	98dB
Peak SPL	123dB	126dB	130dB
System Impedance	8 Ω	8 Ω	8 Ω
LF Driver			
Driver Size	8"	12"	15"
Coil Size (mm/in)	1.5"	2"	3"
HF Driver			
Coil Size (mm/in)	1.34"	1.75"	1.75"
Exit Size (mm/in)	1"	1"	1"
HF Protection	PTC	PTC	PTC
HF Horn			
Crossover Section	2 Way	2 Way	2 Way
Cross Over Frequency	3500Hz	2000Hz	2000Hz
Enclosure			
Stand Adaptor	Yes	Yes	Yes
Handle	---	Plastic Handle	Plastic Handle
Input Connector	Speakon	2 x Speakon	2 x Speakon
Dimension (W x D x H)mm	345 x 285 x 465	460 x 375 x 640	515 x 465 x 745
Weight	9.5Kgs	15.5Kgs	24.5Kgs