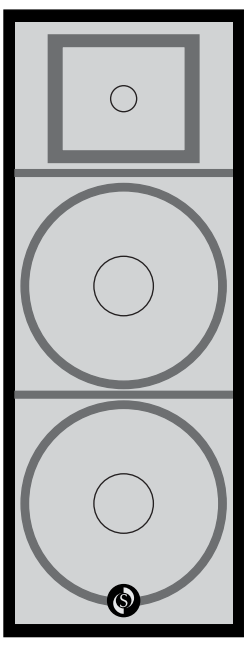




# FIRE 59

## Professional Passive Speakers



- Thank you for purchasing the Studiomaster Professional Fire 59 Passive Speaker.
  - 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
  - 2.....Introduction
  - 3.....Features
  - 4.....Application
  - 5.....Connection
  - 6.....Application Guideline
  - 7.....Hook-up Diagram
  - 8.....Technical Specifications

## 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.

### Introduction

The Dual 15" Studiomaster Professional Fire 59 loudspeakers combine state of art crossover design & outstanding components to ensure superior sound reproduction, making it suitable for a wide range of applications.

### Features

- High power handling, high efficiency.
- Extremely powerful dual 15" long-excursion drivers provide incredibly deep bass & power.
- Features back firing ports to enhance the bass response.
- Overload protection circuitry ensures optimal HF driver protection.
- Heavy-Gauge, perforated metal speaker grille.
- Dual-Speakon Connector allows linking of additional loudspeakers.
- Power Rating: 1700W (RMS) & Impedance: 4Ω.
- Frequency Range: 40Hz-20KHz.
- Ergonomically shaped handles for easy transportation.
- Attractive Black Paint Finish.

### Application

- Main PA.
- Night Clubs.
- House of Worship.
- DJ applications.

### Connection

The Studiomaster Professional Fire 59 is 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:

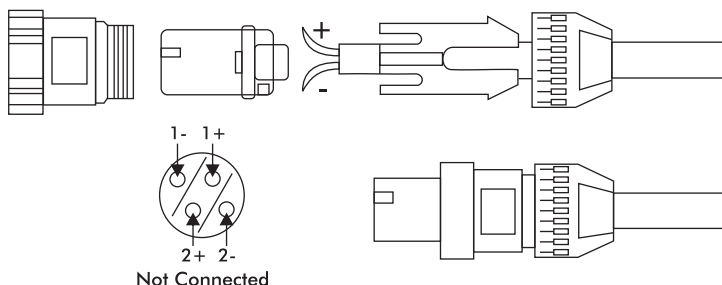
1+ = In (+)

1- = In (-)

2+ = Not used

2- = Not used

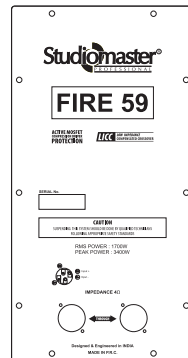
#### Speakon Wiring Guide



### **Note:**

Each speaker connected in parallel increases the load on the amplifier & can add up to a total load that may exceed the amplifier's capabilities, leading to possible damage.

- Two 4Ω parallel connected loud speakers make a total load of 2Ω, which is too low for many amplifiers.



### **1) Wire size**

Please use cables of the correct gauge in order to obtain optimum performance from your speaker system. We recommend that your cable should be no smaller than 14 gauge. For cables of length 100-250ft use cables no smaller than 12 gauge.

### **2). Matching amplifier.**

To get the maximum performance from your Fire 59 loudspeaker, Studiometer Professional recommends the following guidelines.

### **Application Guidelines**

- a). **Carefully Monitored Application :** For carefully 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. As an example, a speaker rated at 1700 continuous Watts can be safely driven by an amplifier capable of 3400 Watts (Fire 59) power output.
- b). **Routine application:** For routine application where high continuous, but non-distorted output is likely to encountered, the amplifier power rating should match the continuous power rating of the speaker.
- c). Please ensure that the back firing ports are not blocked or covered, doing this will affect the bass performance.

### **To protect your system**

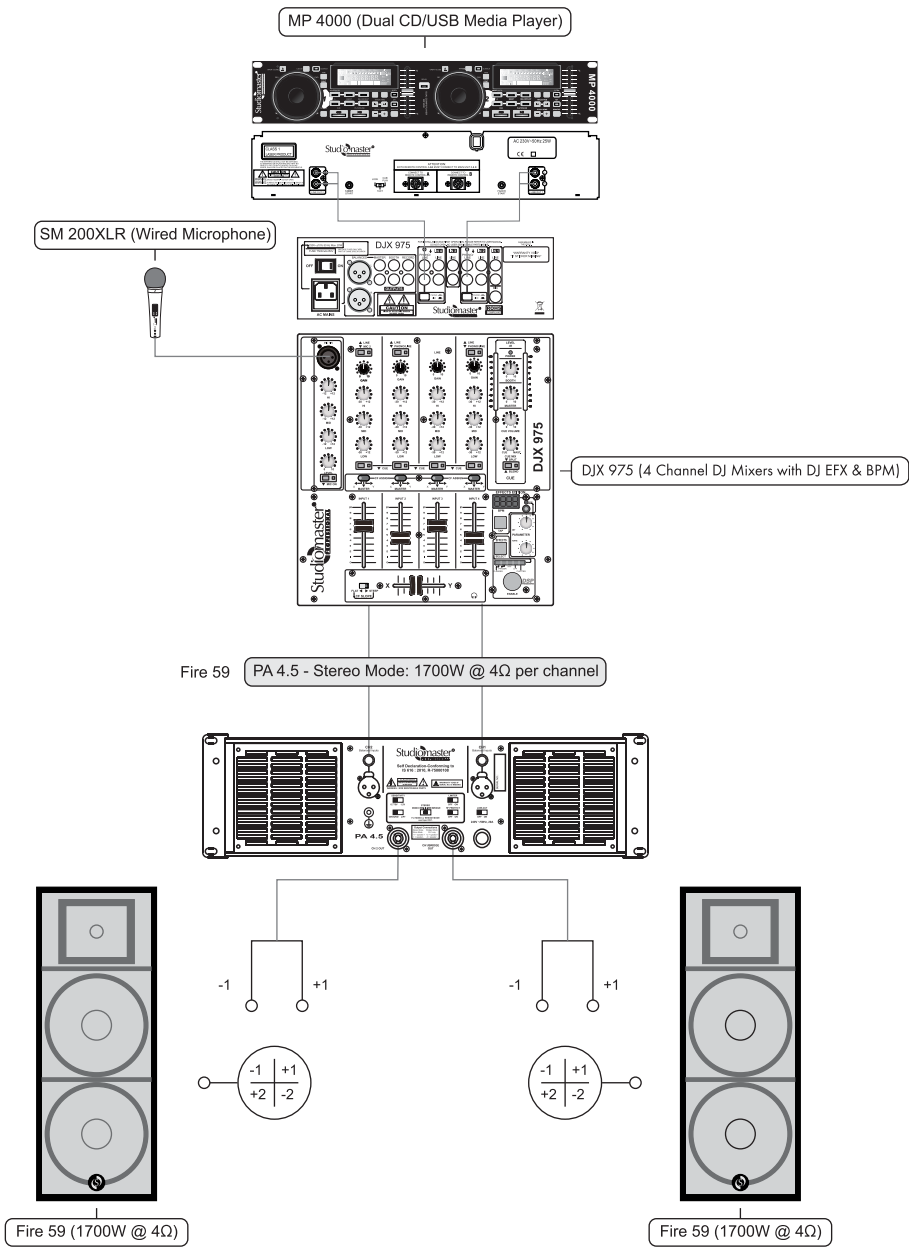
- a) Use adequate clean power to drive the system to required levels. Avoid **clipping** or overloading your power amplifier & mixer.
- b) Continuous Clipped Signals will destroy your speakers even when driven at low power.
- c) Recognize and respect the known limits of your equipment.
- d) Consider adding a peak limiter, such as the compressor/limiter to your system to electronically limit potentially damping.

Hook up diagrams

1. Stereo Set-Up (For DJ)

Power: 3400 Watts RMS (Fire 59)

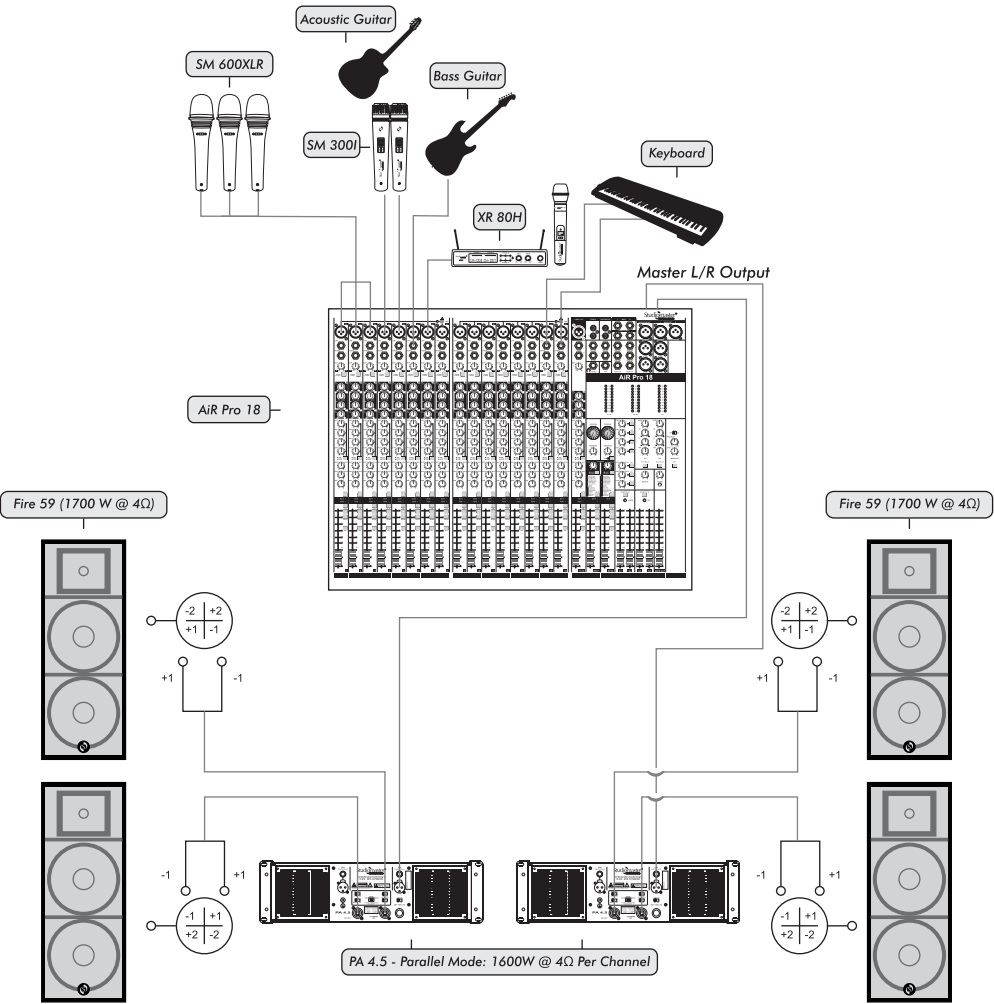
Impedance: 4Ω



2. Stereo Set-Up (For DJ)

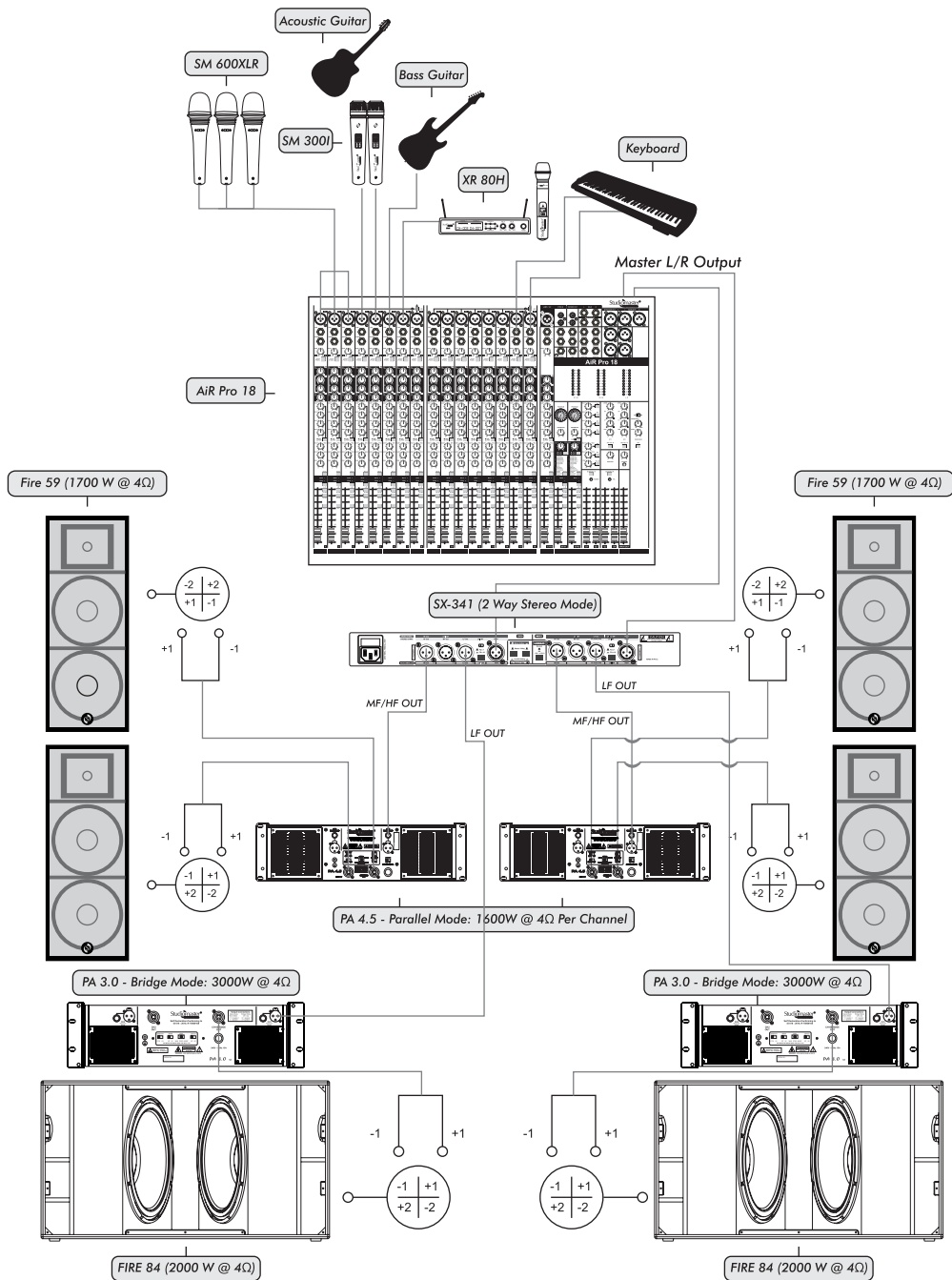
Power: 6800 Watts RMS (Fire 59)

Impedance: 4Ω

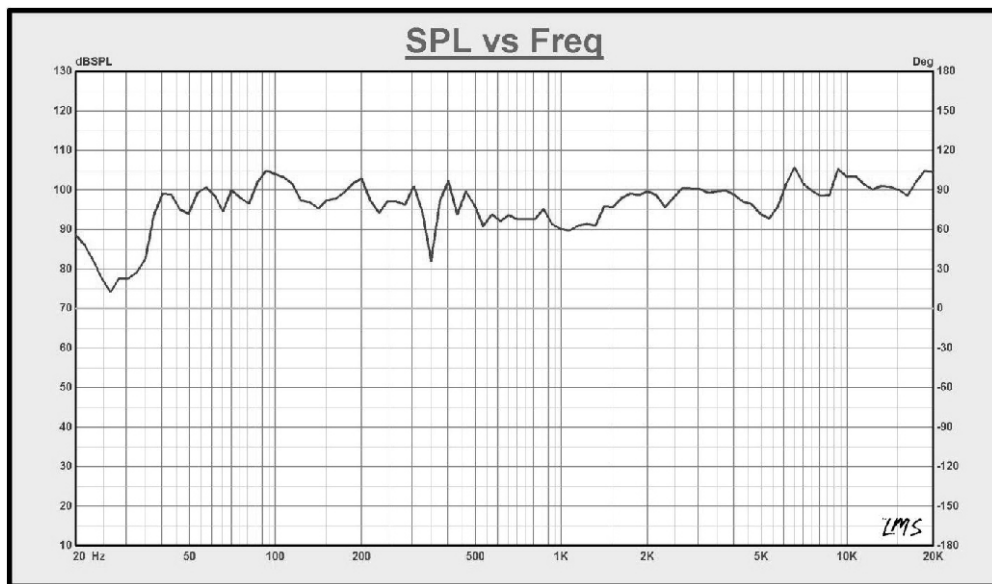


3. Stereo Set-Up (Live /Orchestral Setup)

Power: 10800 Watts RMS



## Frequency Response (Fire 55)



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## Technical Specifications

Models	Fire 59
Frequency Response	40Hz-20KHz
Coverage (H x V)	90°× 60°
Power Handling (Watts)	
Continuous	1700W
Peak	3400W
Sensitivity 1w/1m	101dB
Peak SPL	134
System Impedance	4 Ω
LF Driver	
Driver Size (inches)	2 x 15"
Coil Size (inches)	4.0"
HF Driver	
Coil Size (inches)	2.84"
Exit Size (inches)	2.0"
HF Protection	MOSFET
Crossover Section	
Crossover Type	2 Way
Crossover Frequency	2300Hz
Enclosure	
Shape	Trapezoidal
Finish Colour	Black
Input Connector	2 x Speakon
Dimension (W x D x H)mm	1160 x 450 x 530
Net Weight	62.0 Kg

\* Design and specification are subject to change without notice.

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