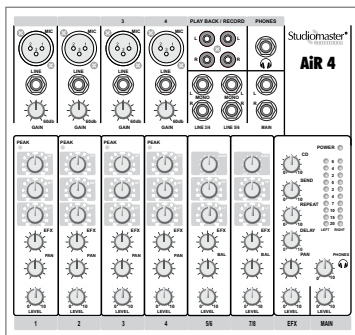
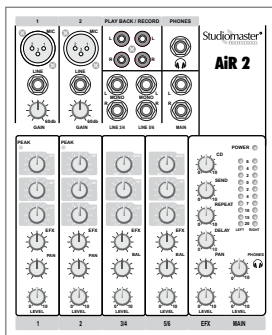




# AIR 2 & AIR 4 SERIES



## Index:

- 1.....Introduction
- 2.....Features at a Glance
- 3.....Input Section
- 4.....Effects Section
- 5.....Output Section
- 6.....Technical Specifications
- 7.....Product Care Instructions

## 1. Introduction

Thank you for buying the Studiomaster Professional Air Series Mixer.

To ensure maximum 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.

## 2. Features at a Glance.

- Gain with 3 Band EQ control each channel.
- PFL (Cue) Switch with individual channel control.
- Dual 10 Segment L/R LED meter for master level.
- Headphone output with control.
- Stereo RCA Tape In & Out with Control.
- Model Available AiR 2 (2 MIC / Line + 4 Stereo inputs) & AiR 4 (4 MIC / Line + 4 Stereo Inputs)
- Delay EFX on board with individual channel control.
- Balanced 1/4 Jack Master outputs.
- L/R Pan Pot & Clip LED per Channel.
- 240 Volt AC power supply.

## 3. Input Section

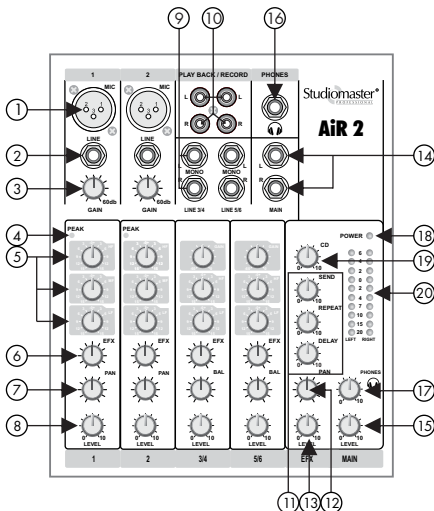
- 1. MIC Input:** This Electronically balanced XLR input is designed to accept low impedance balanced signals from microphones.

Balanced XLR	
Pin 1	Ground
Pin 2	Hot (+ve Phase)
Pin 3	Cold (-ve Phase)

Balanced TRS	
Tip	+ve Phase
Ring	-ve Phase
Sleeve	Ground

Un-Balanced TRS	
Tip	Signal
Sleeve	Ground

- 2. Line Input:** The Line input will accept line level balanced or unbalanced signals using 1/4 inch stereo (TRS) Jack.
- 3. Gain Control:** The knob is used to gain both MIC & Line Input signal. Please do not to operate at high gain levels as this may distort the signal & lead to Audio clipping. The Line input is designed for instruments like Keyboards, Guitars, Drum Machines & other electronic instruments.
- 4. Peak / Clip LED:** This LED glows when the incoming audio signal is clipping.
- 5. EQ Section:** The AiR has a 3 Band Equalizer on mono inputs & 2 Band Equalizer on stereo inputs. The EQ is designed to be easy yet effective to use. The EQ can be used to Cut or Boost certain frequencies to achieve a particular tone, or to eliminate an unpleasant characteristic.
- **HF Control:** The HF control can be used cut or boost up to +/- 15 db at 12 kHz.  
**Tip:** This Frequency band can be used to brighten up the High frequencies.
  - **MF Control:** The MF control can be used cut or boost up to +/- 15 db at 2.5 kHz.  
**Tip:** This Frequency band can be used to enhance presence in Vocals.
  - **LF Control:** The LF control can be used cut or boost up to +/- 15 db at 80 Hz.  
**Tip:** This Frequency band can be used to get a punchy bass response.
- 6. EFX Send:** This Knob is used to control the send level to the Delay EFX provided on board.
- 7. Pan Control:** This Knob can be used pan the incoming signal between the Left & Right output channel.
- 8. Channel Level Knob:** This knob is used to set the level of the incoming signal to the master output. Normal operating position is at "0"; however you have an optional headroom of up to +10db.
- 9. Stereo Input Jacks:** These TRS Jack Inputs are used to connect high impedance inputs for sources such as keyboards, drum machines, synthesizers, tape machines or returns from processing units. The inputs are BALANCED for low noise and top quality professional equipment. Avoid using UNBALANCED sources to prevent 'hum' being introduced into the sound system. Mono sources may be used by plugging into the left jack only.



#### 10. Playback / Record

- **Playback In Jack:** This is RCA input jack is provided to connect external devices like CD Player, iPod's, MP3 player's etc. The input level of this can be controlled by the CD level Knob. (See Feature No.19)
- **Record Out Jack:** This is RCA output jack is provided to record master mix onto a recording medium. The output level of this determined by the master level control; alternatively the input level on the recording medium can be used for the same.

### 4. Effects Section

#### 11. Effect Parameters:

- **Send:** This knob can be used to adjust the volume of the on-board delay EFX.
- **Repeat:** This knob is used control the feedback time of the delayed signal. Be careful while using this knob, as this may cause feedback loop or unpleasant loud howl, which may damage some equipment. If this occurs please minimize the Repeat Knob & the EFX Knob position
- **Delay:** This knob is used to control the delay time of the Effect from 1ms to 300ms.

**12. Pan:** This knob can be used assign the effect signal between the left & right output.

**13. Effects Level Knob (EFX):** This knob is used to set the level of the effect signal to the master output. To bypass the effects signal, the knob needs to be set at -0 or at infinity ( $\infty$ ).

### 5. Output Section

**14. Master OUT Jack (1/4 TRS):** This output jack is used to connect the master output using the 1/4 TRS jack. The output level is determined by the master knob.

- 15. Master Output Level Knob:** This knob controls the master output level control, it determines the level of all signals sent by the channel knob, Aux Level, EFX Knob, Tape Input Etc.
- 16. Phones Jack:** This is used to monitor master mix or PFL on individual channel using a pair of headphones.
- 17. Phones Level:** This knob is used to control the level of the headphone output.
- 18. Power LED:** This is Blue LED glows when power required power is being supplied to mixer.
- 19. CD In Knob:** This knob is used to control the input level from external connected devices like CD Player, iPod's, MP3 player's etc.
- 20. Level Meter:** This Dual 10 LED meter display the level of master input & output. If the output is reaching the CLIP LED please bring down the master knob until its stops clipping.

## 6. Technical Specifications

	<b>AIR 2</b>	<b>AIR 4</b>
Number Of Inputs	2 Mono MIC/Line + 2 Stereo	4 Mono MIC/Line + 2 Stereo
Input Sensitivity	-60dBm ~ -40dBm	-60dBm ~ -40dBm
Nominal Input Level	MIC (-60dBm), Line (-40dBm), Effect (-20dB), Tape In (-10dB)	
Nominal Output Level	Effect Send(-10dBm)	Effect Send(-10dBm)
Output Voltage	4 V (Max)	4 V (Max)
Signal / Noise ratio	>85dB	>85dB
THD (1KHz)	<0.03%	<0.03%
Frequency Response	20Hz-20KHz $\pm$ 3dB	20Hz-20KHz $\pm$ 3dB
Headphone	7V/220Ohms	7V/220Ohms
EQ	High $\pm$ 15dB @ 12KHz, Mid $\pm$ 15dB @ 2.5KHz, Low $\pm$ 15dB @ 80Hz.	
Power Supply	AC 240V 50/60Hz	AC 240V 50/60Hz

## 7. Product Care Instructions.

- Do not drop the mixer this could severely damage the product.
- Please keep this product away from direct sunshine & Rain.
- Please keep this product away from heavy magnetic or electromagnetic fields, it could affect product performance.
- Please disconnect from power supply when the product is not being used for a long time.
- Do not open any of the components yourself, for repairs please get in touch with your retailer.
- Please read the owner manual before using this product.
- Please place product in flight case while transportation.

\* Design and specification are subject to change without notice

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