

Studiomaster[®] PROFESSIONAL

AiR SERIES

Professional Mixers



Models Available:

AiR 6, AiR 8, AiR 12 and AiR 16

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1. Introduction

Thank you for buying the Studiomaster Professional Air Series Mixer.

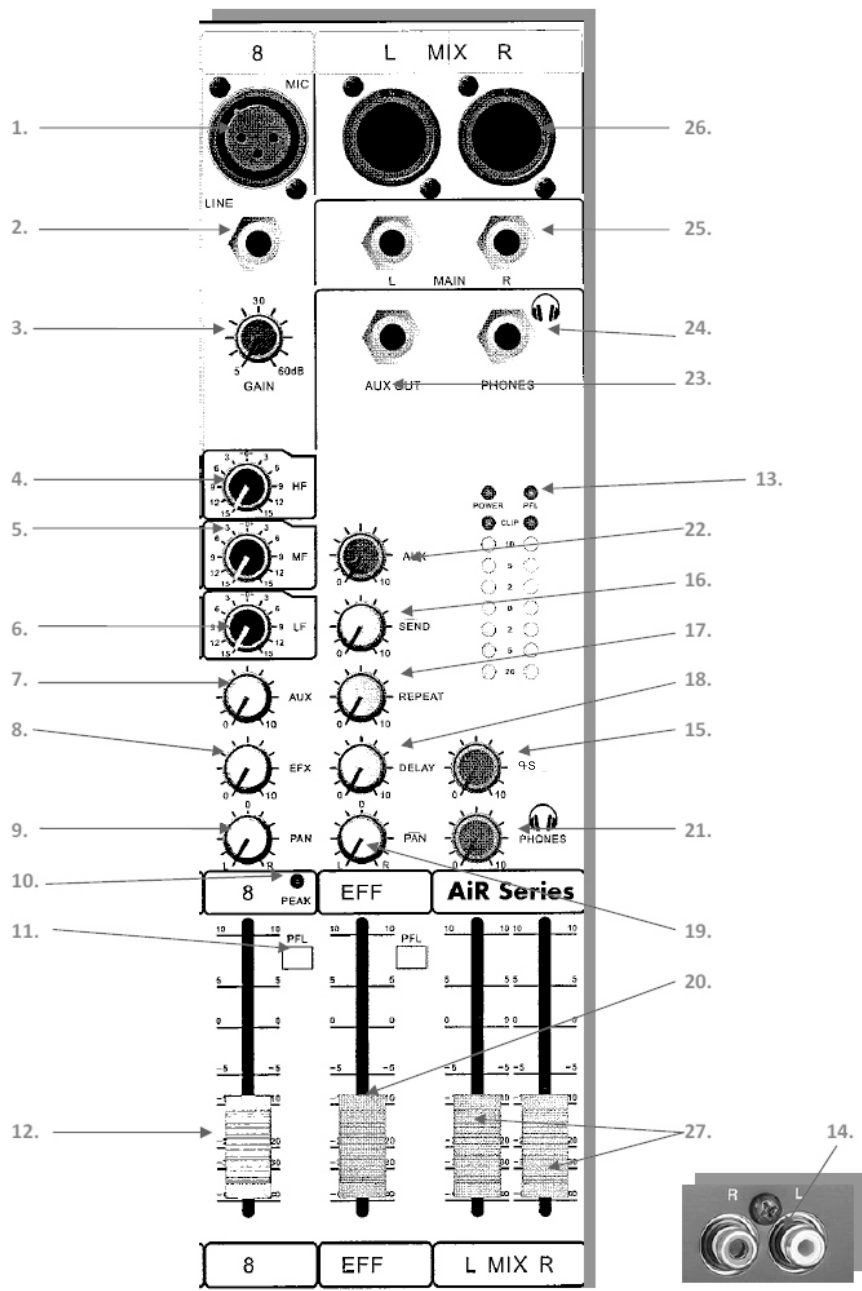
To ensure maximum performance and safety, please follow this instruction manual carefully.

Please retain this manual for future reference.

For any complaint, feedback or testimonials please contact our distributor / dealer.

Features

- Features at a Glance
- Gain control with 3 Band EQ control on each input channel.
 - Delay EFF on board with individual channel control.
 - PFL (Cue) Switch with individual channel control.
 - Main L/R master XLR & Balance ¼ jack output.
 - Aux send rotary control on all channel.
 - 8 Segments L/R LED meter for master level.
 - L/R pan pot and clip LED per channel.
 - Headphone output control.
 - 240 Volt AC power supply.
 - Stereo RCA CD input with Control.



3. Input Section

The Input channel of the AiR series mixer has two connectors. MIC input & Line Input. Please do not use both the inputs at the same time. Doing this may permanently damage the equipment. Please ensure the Gain levels, the Fader Levels & the Aux Controls are set to minimum while connecting or disconnecting inputs.

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

Wiring:

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

2. Line Input: The Line input will accept line level balanced or unbalanced signals using 1/4 inch stereo (TRS) Jack.

Balanced TRS:

Tip	+ve Phase
Ring	-ve Phase
Sleeve	Ground

Un-Balanced TRS:

Tip	Single
Sleeve	Ground

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. EQ Section: The AiR Series has a Three Band Equalizer on each channel strip. The EQ is Designed to be easy & 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.

4. HF Control: Turning the HF control clockwise will gain the signal at 12 KHz up to +15 db. Turning the HF control counter-clockwise will cut the signal at 12 KHz up to -15 db.

Tip: This Frequency band can be used to brighten up the High frequencies.

5. MF Control: Turning the MF control clockwise will gain the signal at 2.5 KHz up to +15 db. Turning the HF control counter-clockwise will cut the signal at 2.5 KHz up to -15 db.

Tip: This Frequency band can be used to enhance presence in Vocals..

6. LF Control: Turning the LF control clockwise will gain the signal at 80 KHz up to +15 db. Turning the HF control counter-clockwise will cut the signal at 80 KHz up to +15 db.

Tip: This Frequency band can be used to get a punchy bass response.

7. AUX Send: The AUX is provided to be used with external effect processor like Reverb & delay units, compressors etc. The Aux section is in "Pre-fader" mode.

Please note: Effect return from the external processors will have to be input in to an un-used channel.

Tip: The Aux send can also be used to provide a Headphone mix to artist & also to a recorder as an input.

8. EFF Send: This Knob is used to control the send level to the Delay EFF provided on board.

9. Pan Control: This Knob is used to pan the incoming signal between the Left & Right output channel.

10. Peak / Clip LED: This LED glows when the incoming audio signal is clipping.

11. PFL: The Pre-Fade listen (PFL) allows you to monitor the signal "Before the Fader". This Knob is used to check if the gain levels are correct. When the PFL knob is turned on all other channels are cut off automatically.

12. Channel Fader: This fader 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.

13. PFL LED: This LED illuminates when the PFL mode is active on any channel.

14. CD In Jack: This is RCA input jack is provided to connect external devices like CD players, iPod's, MP3 player's etc. The input level of this can controlled by the Tape In Knob.

15. CD In Control: This knob is used to control the input level from external connected devices like Cassette Decks, iPod's, MP3 player's etc.

4. Effects Section

16. Effects Send: This knob can be used to adjust the volume of the on-board delay EFF.

17. 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 EFF Fader position

18. Delay: This knob is used to control the delay time of the Effect from 1ms to 300 ms.

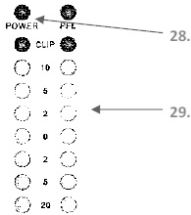
19. Pan: This knob can be used assign the effect signal between the left & right output.

20. Effects Fader (EFF): This fader is used to set the level of the effect signal to the master output.

To bypass the effects signal, the fader needs to be set at infinity (∞).

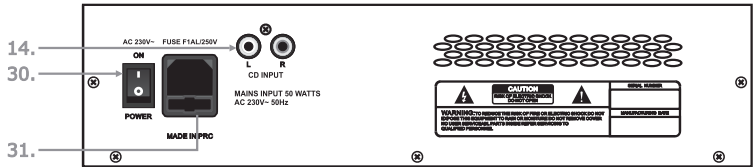
5. Output Section

- 21. Phones Level:** This knob is used to control the level of the headphone output.
- 22. AUX Send:** This knob the control the level of signal to be sent to external connected Auxiliary devices like Reverb & delay units, compressors etc.
- 23. AUX OUT:** This output jack is used to connect to external Auxiliary devices or monitor amplifiers.
- 24. Phones Jack:** This is used to monitor master mix or PFL on individual Channel using a pair of headphones.
- 25. Main OUT (Phono):** This output jack is used to connect the master output using the ¼ TRS jack. The output level is determined by the master fader.
- 26. Main OUT (XLR):** This output jack is used to connect the master output using balanced XLR connectors. The output level is determined by the master fader.
- 27. L/R Output Fader:** The Left & Right fader are the master output level control, these determine the level of all signals sent by the channel fader,s’ Aux Levels, EFF Fader, Tape Input Etc.
- 28. Power LED:** This is Blue LED glows when required power is being supplied to mixer.
- 29. Level Meter:** This 8 LED meter display the level of master input & output. If the output is reaching the CLIP LED please bring down the master L/R fader until its stops clipping.

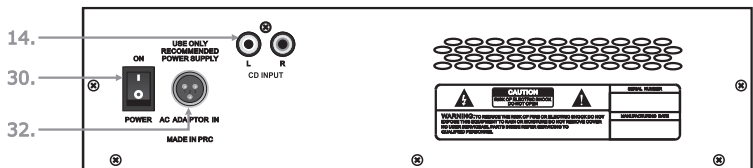


6. Rear Section (AIR 6, 8 & 12)

- 30. Power Switch (Power) :**When the switch turned ON, the unit is in working status.
- 31. Power Connector :**The power of this unit is 240V/50Hz.



7. Rear Section (AIR 16)



32.External AC adaptor connector.

8. Technical Specifications:

Model	AiR 6	AiR 8	AiR 12	AiR 16
Number Of Inputs	6 + CD In	8 + CD In	12 + CD In	16 + CD In
Input Sensitivity	-60dBm to -40dBm			
Nominal Input Level	MIC (-60dBm)			
	Line (-40dBm)			
	Effect (-10dB)			
	AUX In (-20dB)			
	Tape In (-10db)			
Nominal Ouput Level	Effect Send(-10dBm)			
	AUX Send (0dBm)			
Output Voltage	4 V (Max)			
Signal / Noise ratio	>85dB			
THD (1Khz)	<0.03%			
Frequency Response	20Hz-20KHz ± 3 dB			
Headphone	7V/220Ohms			
EQ	High ± 15 db @ 12KHz			
	Mid ± 15 db @ 2.5KHz			
	Low ± 15 db @ 80Hz			
Power Supply	AC 240V/50Hz			External Adapter
Power Consumption	15VA Max			

9. 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.

10. Recommended Studiomaster Professional Equipments.

- PA 2.0 (Power Amplifier)
- XVP 2580 (Passive Speaker)
- SM 500 XLR (Wired Microphone)
- SM 200 XLR (Wired Microphone)
- SM 100 XLR (Wired Microphone)
- MR 12/ MM 12 (Wireless Microphone)

For Further Details on all Studiomaster Professional products please visit www.studiomasterprofessional.com/
www.audioplus-india.com or contact us at 91-22-4286 9047 / 4286 9000

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