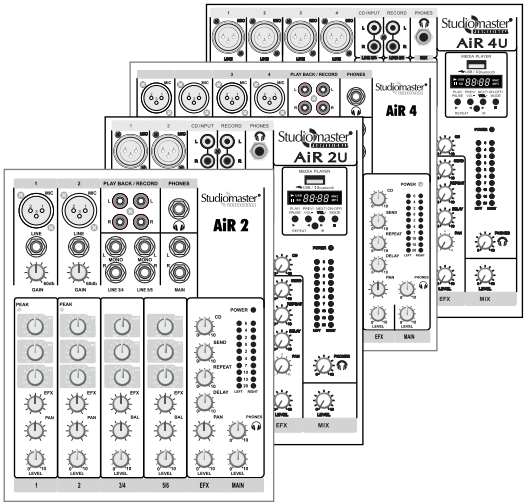
AiR 2 & AiR 4 SERIES



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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.

2. Features at a Glance

- Gain with 3 Band EQ control on each input channel.
- Delay EFX on board with individual channel control.
- Balanced ¼" Jack Master outputs.
- Dual 10 Segment L/R LED meter for master level.
- L/R Pan Pot & Clip LED per Channel.
- Headphone output with control.
- 240 Volt AC power supply.
- Stereo RCA Tape In & Out with Control.
- USB media player & Bluetooth connectivity (Available in AiR 2U & 4U).

Models Available:

- **AiR 2** : 2 Mic /6 Line + 1 CD Input
- **AiR 4** : 4 Mic /8 Line + 1 CD Input
- **AiR 2U** : 2 Mic /6 Line + 1 CD Input + 1 Media Player
- **AiR 4U** : 4 Mic /8 Line + 1 CD Input + 1 Media Player

3. Input Section

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

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

2. **Line Input:** This input accepts line level balanced or unbalanced signals using ¼" stereo (TRS) Jack. The Line input is designed for instruments such as keyboards, guitars, drum machines & other electronic instruments.

Sleeve = Ground	Tip = Send (To Effects)	Ring = Return (To Console)

3. **Gain Control:** This knob is used to increase gain on both MIC & Line level input signals. Please do not to operate at high gain levels as this may distort the signal & lead to audio clipping.

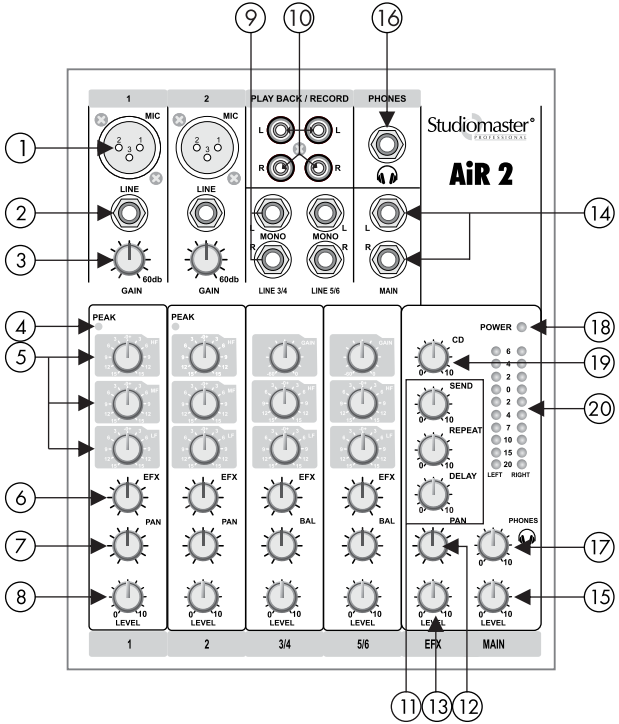
4. **Peak / Clip LED:** This LED glows when the incoming audio signal is clipping.

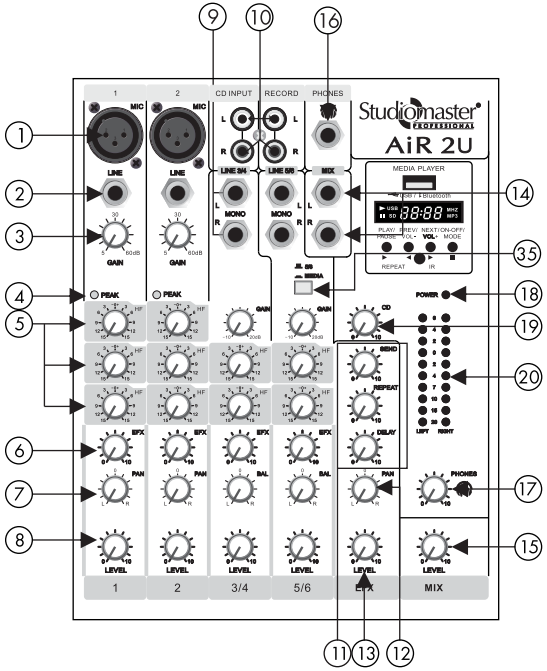
5. **EQ Section:** The mixer has a 3 band equalizer on mono inputs & 2 band equalizer on stereo inputs. The EQ is designed to be easy yet effective to use. It can be used to cut or boost certain frequencies to achieve a particular tone, or to eliminate an unpleasant characteristic.

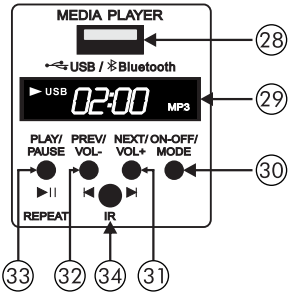
- **HF Control:** Turning the HF control clockwise will boost the signal at 12 KHz up to +15 dB. Turning the HF control counter-clockwise will cut the signal at 12 KHz up to -15 dB.
  Tip: This frequency band can be used to brighten up the high frequencies.

- **MF Control:** Turning the MF control clockwise will boost 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.

- **LF Control:** Turning the LF control clockwise will boost the signal at 80 KHz up to +15 dB. Turning the LF 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.




1
2
CD INPUT
RECORD
PHONES
MIC
LINE
GAIN
PEAK
LINE SM
LINE SR
MONO
MIX
MEDIA PLAYER
USB / Bluetooth
02:00
MP3
PLAY/ PAUSE
PREV/ VOL-
NEXT/ VOL+
ON-OFF/ MODE
REPEAT
IR
POWER
CD
SEND
REPEAT
DELAY
EFX
PAN
BAL
LEVEL
PHONES
USPY
KRNT
1
2
3/4
5/6
FX
MIX
Studiomaster
PROFESSIONAL
AiR 2U


MEDIA PLAYER
USB / Bluetooth
USB
02:00
MP3
PLAY/ PAUSE
PREV/ VOL-
NEXT/ VOL+
ON-OFF/ MODE
REPEAT
IR

6. **EFX Send:** This knob is used to control the send level to the delay EFX provided on board.

7. **Pan Control:** This knob is used to 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 from 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.

10. **Playback / CD input / Record**

- Playback / CD In Jack: The RCA input jack is provided to connect external devices like CD players, iPods, MP3 players etc. The input level of this can be controlled by the CD level knob. (See Feature No.19).
- Record Out Jack: The RCA output jack is provided to record master mix onto a recording medium. The output level of this determined by the master level control; alternately 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 positions.
- Delay: This knob is used to control the delay time of the effect from 1ms to 300ms.

12. **Pan:** This knob is used to 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.

5. Output Section

14. **Master OUT Jack (¼" TRS):** This jack is used to connect the master output using the ¼" TRS connectors / cables. The output level is determined by the master knob.

15. **Master Output Level Knob:** This knob controls the master output level. 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 the master mix.

17. **Phones Level:** This knob is used to control the level of the headphone output.

18. **Power LED:** This Blue LED glows when the required power is being supplied to the mixer.

19. CD In Knob: This knob is used to control the input level from external connected devices like CD players, iPods, MP3 players etc.

20. Level Meter: This dual 10 LED meter displays the level of master input & output. If the output is reaching the CLIP LED, please bring down the master knob until it stops clipping.

6. Media Player Section

The AiR 2U and AiR 4U models feature built-in USB Media player and wireless Bluetooth connectivity for audio playback. This section explains the operation of these features.

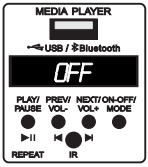
28. USB Input: USB port to insert flash storage devices.

Terms of use: Studiomaster Professional respects intellectual property rights and we request our users to do the same. PLEASE DO NOT USE PIRATED MUSIC OR PROGRAM.

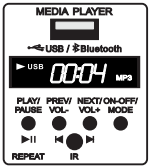
29. Display: The seven segment display is provided to view the media player operation and modes.

30. On-Off/Mode Selection:

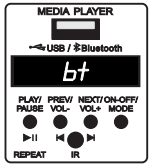
- Long press to switch the media player On/Off.
- USB is the default mode.
- Single press to switch between the USB and Bluetooth mode (BT).



Media Player Off



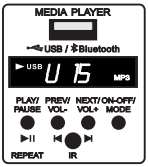
Media Player On/ USB Mode



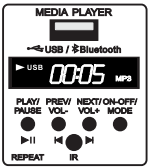
Bluetooth Mode

31. ⏯ Next/Vol+:

- Single press to go to the next track.
- Long press to increase the volume of the media player.



Volume +



Next Track

32. ⏮ Prev./Vol-:

- Single press to go back to the previous track.
- Long press to decrease the volume of the media player.

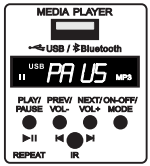
Volume -

Previous Track

33. ⏯ Play/Pause/Repeat:

- Single press to play and pause.
- Long press to change the repeat mode from single to all tracks.

Play Mode



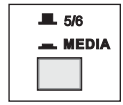
Pause Mode

Single Track Repeat

All Track Repeat

34. IR Sensor: The IR sensor for the supplied remote control.

35. Line 5/6 / Media Switch: This switch is used to select between the channel 5/6 & the media player mode. The released position of the switch means that the channel 5/6 is active and the pressed postilion means that the media player is active.



Note:

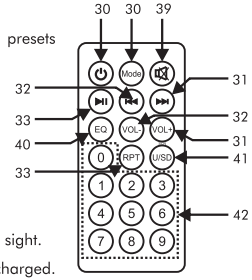
1. While selecting the media section, please keep the channel 5/6 level controls at the minimum position.
2. The channel 5/6 Gain, EQ, EFX, Pan and level controls are applicable to the media player as well.

Remote Features:

39. Mute: Press the switch to mute the audio track.

40. EQ: Press the switch to select between the equalizer presets mentioned below.

- Jazz (JAZ)
- Pop (POP)
- Classic (CLA)
- Rock (rOC)
- Normal (Nor)
- Cut (Cut) - Low cut filter



41. U/SD: Not Active.

42. 0-9: Press to directly play tracks within the library.

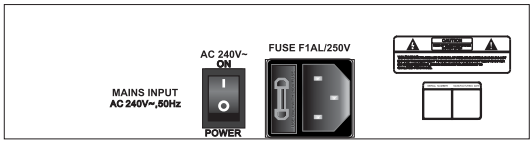
Note: Remote control range is about 6-8 meters line of sight. Please ensure that the remote batteries are fully charged.

7. Rear Section

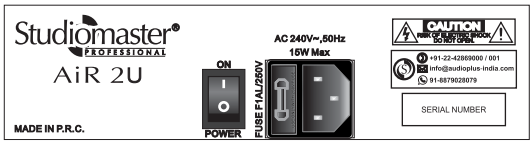
43. Power (On/OFF) Switch: It is used to switch the mixer ON and OFF.

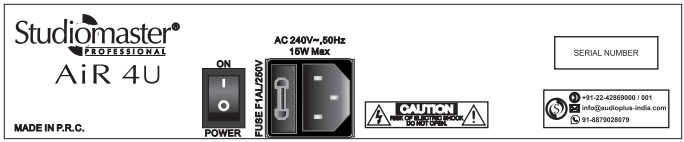
44. AC Inlet: Use the supplied AC cord to connect the unit to the AC mains.

The fuse can be accessed by the small drawer at the AC inlet. To change the fuse, unplug the AC cord first, pull out the fuse drawer & replace it with a fuse of the same voltage and rating. If the fuse blows again after replacement, hand over the unit to a qualified service personnel.



AiR 2 & 4 Rear Panel Artwork





8. Setting Up a Bluetooth Connection

- Long press to switch from USB to BT mode.
- From your phone or the Bluetooth device, turn Bluetooth ON and search for the device named "NK-F3-BT". On finding it, pair and connect to "NK-F3-BT".
- Any music or audio you play on your device will be streamed via Bluetooth. The music can be controlled (Play, Pause, Volume+ and Volume -, Reverse and Forward) either from your device or the controls on the mixer's panel.

Reconnecting Your Device

If you move out of the range or turn off the Bluetooth feature on your mobile device, the Bluetooth Receiver will disconnect from your device. To reconnect, click on the device name "NK-F3-BT" in your paired device list.

Changing Connected Device

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

1) End the existing Bluetooth connection from your device by either disconnecting within your "settings" or by turning off the Bluetooth feature completely.
2) The "NK-F3-BT" Bluetooth can now be connected to a different device.
3) Repeat and follow the directions mentioned in the "Setting Up a Bluetooth Connection" section above.

ATTENTION: Please ensure that there isn't any obstruction between the Bluetooth Transmitter (Mobile phone) and the receiver (AiR 2U & AiR 4U mixer).

Out of Range or Lost Signal

If the music device (Mobile phone) is out of the range (beyond 17 feet) from the Bluetooth Receiver (AiR U Mixer) or if there is something blocking the Bluetooth signal, there will be audio loss and dropouts. To avoid a lost connection, move the music device back into the range (within 17 feet), or reduce obstructions between the receiver and your smart phone. The connection will automatically be reestablished and the audio signal will be through. If the connection does not restore, you will need to establish it again using the steps mentioned in the "Setting Up a Bluetooth Connection" section above.

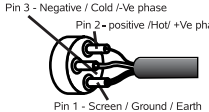
9. Troubleshooting Bluetooth Connection

PROBLEM	POSSIBLE SOLUTION
Paired Bluetooth device does not connect	The mixer is probably connected to another Bluetooth device. Disconnect from the other device and establish a fresh connection with the mixer.
	Make sure the USB mode is selected on AiR U mixer.
No or poor audio from Bluetooth connection	Move your BT device away from devices that generate electromagnetic interference such as microwave ovens, cordless phones, WiFi networks or other Bluetooth devices.
	Make sure that the BT module on the AiR U Mixer is not muted (paused) and the volume is up.

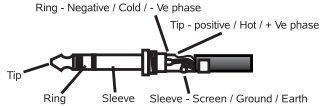
No or poor audio from Bluetooth connection	Make sure that your Bluetooth transmitting device is playing some audio and check the volume level on your device.
	Your Bluetooth device may be out of the specified range, try moving it closer to the mixer.
	Make sure that you work within the Bluetooth range of 17 feet, taking care that there is no metal or human body interference.
Cannot pair the mixer with your Bluetooth device	Make sure you select "NK-F3-BT" in the pairing list on your device to finalize the connection. It is required by some devices.
	Your Bluetooth device may be out of range. Move it closer to the mixer.
	The mixer is probably connected to another Bluetooth device. Disconnect from the other device and establish a fresh connection with the mixer.

10. Wiring Information

Figure 1

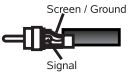


To connect a **balanced** microphone to a mic input, wire the 3 pin XLR as above

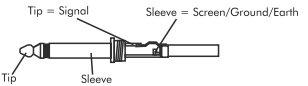


To connect **balanced** equipment to an input or output, wire the ¼" TRS jack as above

Figure 2

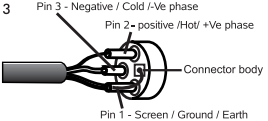


To connect to the record or playback sockets, wire the phono (RCA jack) as above.

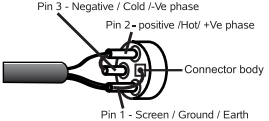


To connect **unbalanced** equipment to an input or output, wire the ¼" TS jack as above

Figure 3



To connect a **balanced** output cable wire the 3 pin XLR as above



To connect **unbalanced** output cable wire the 3 pin XLR as above

11. Technical Specifications:

Model	AiR 2	AiR 2U	AiR 4	AiR 4U
Number Of Inputs	2 Mic /6 Line + 1 CD In	2 Mic /6 Line + 1 CD In + 1 Media Player	4 Mic /8 Line + 1 CD Input	4 Mic /8 Line +1 CD In + 1 Media Player
Input Sensitivity Nominal Input Level	-60dBm to -40dBm			
	MIC (-60dBm)			
	Line (-40dBm)			
	Effect (-10dB)			
	AUX In (-20dB)			
	Tape In (-10dB)			
Nominal Ouput Level	Effect Send(-10dBm)			
Output Voltage	4 V (Max)			
Signal / Noise ratio	>85dB			
THD (1Khz)	<0.03%			
Frequency Response	20Hz-20KHz ±3dB			
Headphone	7V/220 Ohms			
EQ	High ±15dB @ 12KHz			
	Mid ±15dB @ 2.5KHz			
	Low ±15dB @ 80Hz			
Power Supply	240V~50Hz			
Power Consumption	15W Max			
Dimensions (W x D x H in mm)	190 x 245 x 67	190 x 245 x 67	242 x 245 x 70	245 x 245 x 70
Net Weight (kg)	1.86	1.90	2.20	2.24
Gross Weight (kg)	2.54	2.59	2.90	2.95

Note: Media player is available only in AiR U Series.

WARNING:

If the power plug supplied with this equipment does not suit the power supply socket in your area, please consult the dealer from whom the equipment has been purchased.

Please ensure the use of a correct plug to support appliance's earthing.

12. Product Care Instructions.

- Do not drop the mixer this could severely damage the product.
- Please keep this product away from direct sunshine and rain.
- Please keep this product away from heavy magnetic or electromagnetic fields, it could affect product performance.
- Please disconnect from the 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 the product in a flight case while transportation.

Range of Studiomaster Professional Products.

Wired Microphones
SM 100XLR
TRIO 100
SM 200XLR
TRIO 200
SM 300I
SM 400XLR
SM 450XLR
SM 500XLR
SM 600XLR
SM 650XLR
SM 800C
SM 900C
SBM 10
Flex 3
Flex 4

Wireless Microphones
BR 28 Series
BR 48 Series
ER 11 Series
ER 31 Series
ER 58 Series
TR 47 Series
XR 20 Series
XR 40 Series
XR 80 Series
XR 100 Series

Conference System
Vāk 10 System
Vāk 10d / Vāk 10c
Vāk 20

Crossovers
SX-2
SX-321
SX-341
SX-521

Processors
SEQ 152
SEQ 302F
SEQ 312 / SEQ 341
Multi 3 / Multi 6
SFX 8
SPS 8
SDX 4
Phantom 11

Mixers
~ Cub Series
CUB 4
CUB 6
CUB 6U

~ Air Series
AiR 2
AiR 4
AiR 6
AiR 8
AiR 12
AiR 16
AiR 2U
AiR 4U
AiR 6U
AiR 8U
AiR 12U
AiR 16U

Mixers
AiR Pro 18
AiR Pro 24
AiR Pro 28
AiR Pro 36

~ Air X Series
AiR X 10
AiR X 14
AiR X 18

~ 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 12.2U
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
C 142
C 182

~ Platinum Series
Platinum 16Fx

~ Diamond Pro-3 Series
Pro-3 12.3
Pro-3 16.3

~ DJ Mixers
DJX 300
DJX 325
Playmix 300
DJX 825
DJX 925
DJX 975

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
DPA 5000

~ DJA Series
DJA 100
DJA 500
DJA 800
DJA 1600
DJA 2500
DJA 3200
DJA 4000
DJA 5000

XJA 2600
~ Arena Series
Arena 20
Arena 30
~ Industrial Amplifier
ARC 120A
ARC 240A
ARC 120UB
ARC 240UB

Speaker Component
~ S-Series
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 1811
TWF 1810
TWF 1580
TMB 1555
TMB 1535
THF 0208

Passive Speakers
~ S-Series
S5225
S8018
S8118
S8128
S8028
~ Fire Series
Fire 21
Fire 51
Fire 51A
Fire 55

Passive Speakers
Fire 57
Fire 82
Fire 84

~ XVP Series
XVP 1225
XVP 1540
XVP 1540M
XVP 1560
XVP 2250
XVP 2550
XVP 2585
XVP 25A2
XVP 25A6
XVP 1808
XVP 1810
XVP 1812
XVP 2820

EKS 151

Q 400

Powered Speaker
~ ARIA Series
Aria 8
Aria 12
Aria 15

~ A Series
A 400
A 500

H 400

~ B Series
B 200
B 400

~ OP Series
OP 415
OP 515

~ SUB Series
A 12SUB
A 15SUB

Line Array System
FIRE 92
SLA-40 T
SLA-40 Kit
SLA 30
S 9022

Stabilizers
SVC - S1000
SVC - S2000
SVC - S3000
SVC - S5000
SVC - S6000
SVC - S8000
SVC - S10000
SVC - S12000

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