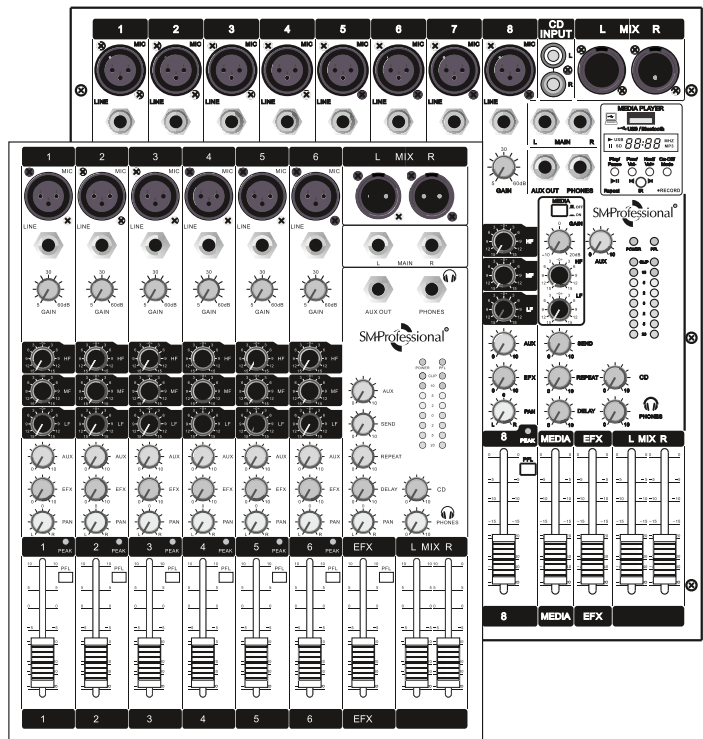


SMProfessional®

AiR® SERIES

Professional Mixers



INDEX:

1.....Introduction

2.....Product Care Instructions

3.....Features at a Glance

4.....Input / Output Features

5.....Media Player & PC Interface Section

6.....Setting Up Bluetooth Connection

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8.....Technical Specifications

1. Introduction

Thank you for buying the SMProfessional 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. 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.

3. Features at a Glance

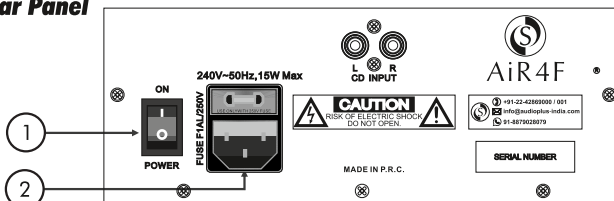
- Gain control with 3 Band EQ control on each input channel.
- Delay Effect on board with individual channel control.
- PFL (Cue) Switch on individual channel.
- Main L/R, Master XLR & Balance ¼ jack output.
- Aux send rotary control on all channel.
- L/R pan pot and clip LED per channel.
- Headphone output control.
- 240 Volt AC power supply.
- Stereo RCA CD input with Control.
- Media Player (Available in AiR U Series).
- 8 Segments L/R LED meter for Master level.

Models Available:

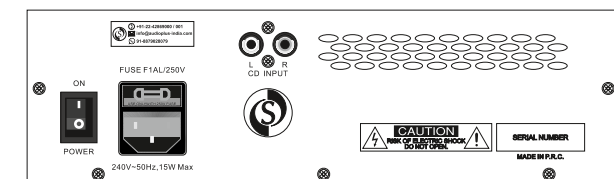
- AiR® 4F: 4 Mic/Line + 1 CD Input
- AiR® 6: 6 Mic/Line + 1 CD Input
- AiR® 8: 8 Mic/Line + 1 CD Input
- AiR® 12: 12 Mic/Line + 1 CD Input
- AiR® 16: 16 Mic/Line + 1 CD Input
- AiR® 6R: 6 Mic/Line + 1 CD Input + 1 Media Player + Recorder
- AiR® 6U: 6 Mic/Line + 1 CD Input + 1 Media Player
- AiR® 8U: 8 Mic/Line + 1 CD Input + 1 Media Player
- AiR® 12U: 12 Mic/Line + 1 CD Input + 1 Media Player
- AiR® 16U: 16 Mic/Line + 1 CD Input + 1 Media Player
- AiR® 18U: 18 Mic/Line + 1 CD Input + 1 Media Player

4. Input / Output Features

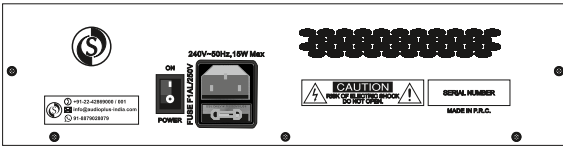
4.1 Rear Panel



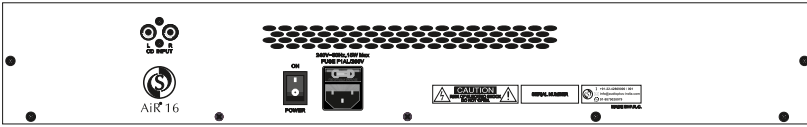
AiR® 4F
Rear Panel Artwork



AiR® 6, 8 & 12
Rear Panel Artwork



AiR® 6R, 6U, 8U,
12U, 16U, 18U
Rear Panel Artwork



AiR® 16
Rear Panel
Artwork

1. **Power (On/OFF) Switch** : It is used to switch ON and OFF the mixer.
2. **AC Inlet** : Use the supplied AC cord to connect the unit to 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 the fuse ONLY with a fuse of same voltage & rating. If the fuse blows again after replacement, hand over the unit to qualified service personnel.

4.2 Front Panel : 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.

XLR 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 ¼ inch stereo (TRS) Jack.

Balanced TRS:

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

Un-Balanced TRS:

Tip = Signal	Sleeve = Ground
--------------	-----------------

3. **Gain Control:** The Knob is used to gain both MIC & Line Input signal. Please do not operate at high gain levels as this may distort the signal and 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.

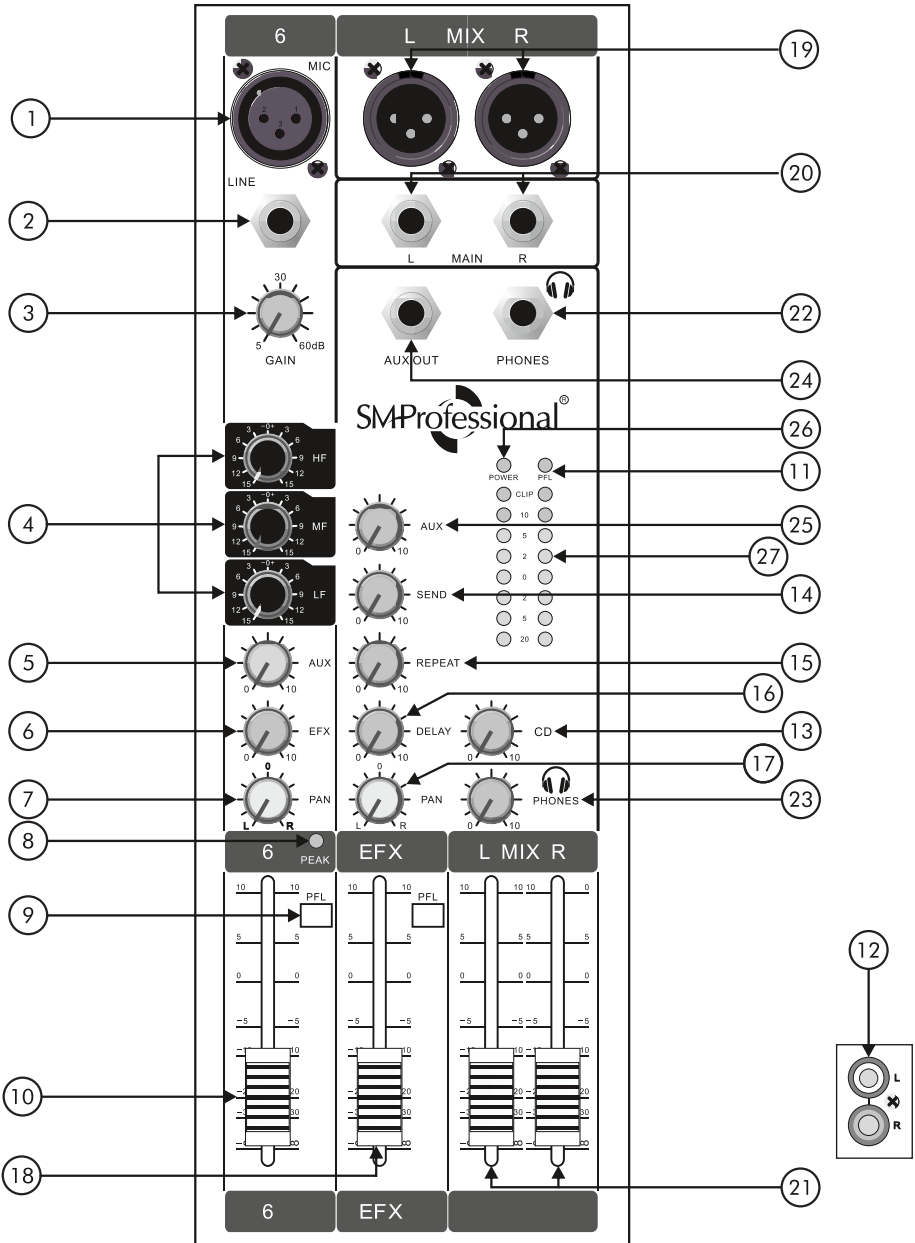
HF Control: Turning the HF control clockwise will Boost the signal at 12 KHz up to +15 dB. Turning the HF control counter-clockwise will cut the signal at 12 KHz up to -15 dB.

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

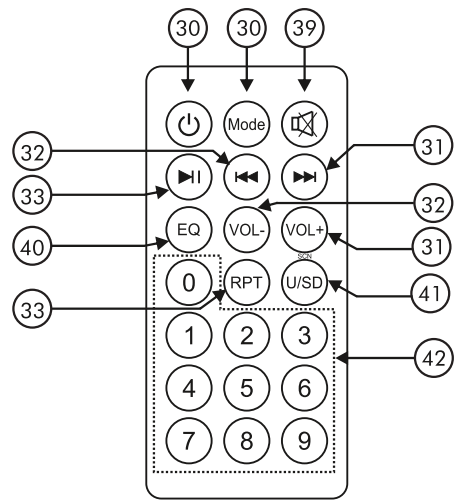
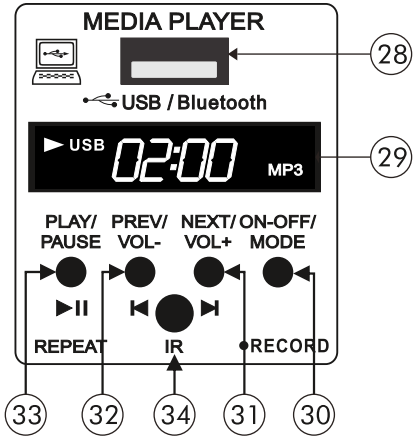
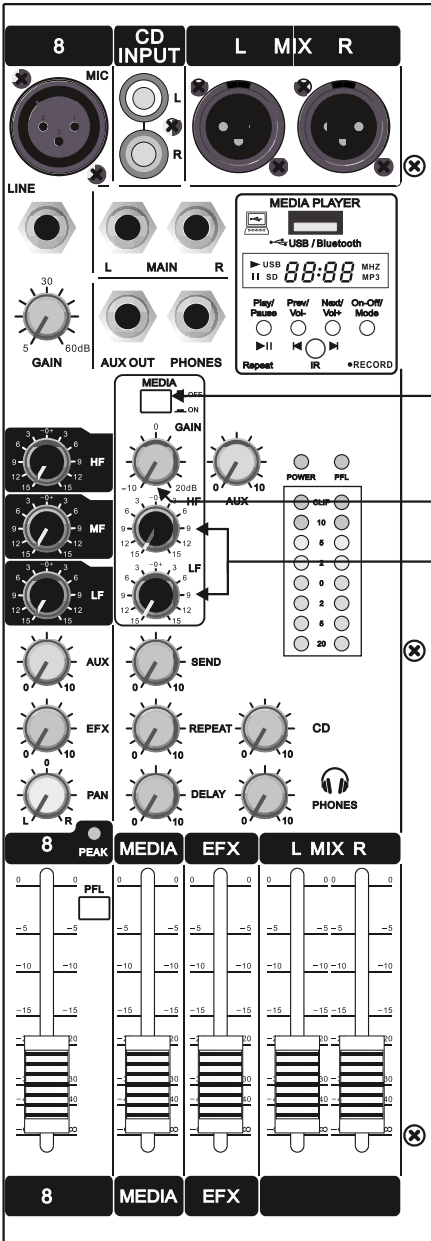
MF Control: Turning the MF control clockwise will Boost the signal at 2.5 KHz up to +15 dB. Turning the HF control counter-clockwise will cut the signal at 2.5 KHz up to -15 dB.

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

• **Front Panel Artwork: AiR® series**



• Front Panel Artwork: AiR® U series



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.

5. 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.

6. EFX Send: This Knob is used to control the send level to the Delay Effect provided on board.

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

8. Peak LED: This LED glows when the incoming audio signal is clipping.

9. 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 switch is turned on all other channels gets cut off automatically.

10. Channel Fader: This fader is used to set the level of the incoming signal to the Master output.

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

12. CD Input: This RCA input jack is provided to connect external devices like CD players, iPod's, MP3 player's etc. The input level can be controlled by the CD control.

Note: CD input is at rear panel on each AiR® series mixer & it is on front panel in AiR® U series Mixer.

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

4.3 Effects Section

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

15. Repeat: This knob is used to 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 Fader position.

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

17. Pan: This knob can be used to Assign/Balance the effect signal between the left & right output. (Unavailable in AiR® U).

18. Effects Fader (EFX): 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 (∞).

4.4 Output Section

19. Mix OUT (XLR): The output XLR connector is provided to connect Master output. The output level is determined by the Master fader.

20. Main OUT (Jack): This output jack is used to connect the Master output using the ¼ TRS jack. The output level is determined by the Master fader.

21. 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 faders, Aux Levels, EFX Fader, CD Input Etc.

22. Phones Jack: This is used to monitor Master Mix or PFL on individual Channel using a pair of headphones.

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

24. AUX OUT: This output jack is used to connect the Aux output to an external Auxiliary devices or monitor amplifiers.

25. AUX Send: This knob is used to control the level of signal to be sent to an external connected Auxiliary devices like Reverb & delay units, compressors etc.

26. Power LED: This Blue LED is provided to indicate Mixer ON status.

27. 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.

5. Media Player & PC Interface Section

5.1 Media Player

This mixer AiR® U version has the same functionality & ease of operation of the AiR® mixer with the additional provision of a built-in MP3 player (USB plug & play).

28. USB Input : USB input channel.



Terms of use : SMPProfessional respects intellectual property rights and we request our users to do the same. Please use Mp3 downloads only for program which you have legally purchased. PLEASE DO NOT USE PIRATED MUSIC OR PROGRAM.

29. Display: The seven segment display is provided to visualize all media player operation.

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) and record mode.



On remote:

-  To increase the volume of the media player.
-  Single press to go to the next track. long press to forward the audio

31.  Next/Vol+:

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

On remote:

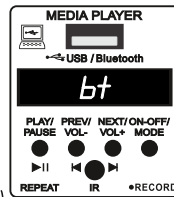
-  To increase the volume of the media player.
-  Single press to go to the next track. long press to forward the audio



Media Player Off



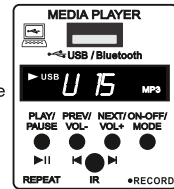
Media Player On/
USB Mode



Bluetooth Mode



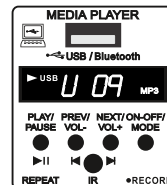
Record Mode



Volume +



Next Track



Volume -



Previous Track

32. ◀ Prev./Vol-:

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

On remote:

- ◻ VOL- To Decrease the volume of the media player.
- ◻ ◀ Single press to go to the Previous track. long press to reward the audio

33. ▶▶ Play/Pause/Repeat:

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

On remote:

- ◻ ▶▶ To play and pause the audio track.
- ◻ RPT To change the repeat mode from single to all tracks.

33.A. ▶▶▶ Play/Pause/Repeat/Record: (only for 6R)

- **Record:** 1) Insert USB.
2) For recording : Long Press record button. then record you audio .
3) To save/stop recording : long press the record button.
4) to pause recording : Single press record button.



Single Track Repeat



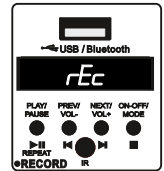
All Track Repeat



Play Mode



Pause Mode



AiR 6R Media player

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

35. Media On/Off Switch: This switch is used to enable or disable routing of media player signal to main output media.

36. Gain Control: This knob is used to adjust media player channel gain.

37. Media EQ:

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.

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.

38. Media Fader: This fader is used to set the level of the Media signal to the Master output.

Note: While selecting media section (Media On/Off switch) Please keep the media fader at minimum position.

Remote Features:

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

40. EQ: Press the switch to select below effects to the audio track.

- Jazz (JAZ) • Pop (POP) • Normal (Nor)
- Classic (CLA) • Rock (rOC) • Cut (Cut) - Bypass low frequencies

41. U/SD: Not Active.

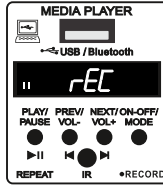
42. 0-9: Press switches to directly play track within the library.

Note: Remote control range is about it 6-8 meters insight.

(Please insure that the remote batteries are fully charged).

How to record an audio track

- 1) Connect a USB stick to an USB socket.
- 2) Press Mode switch and select record (rec) option.
- 3) Press play/pause switch to start recording.
- 4) Press play / pause switch to pause the recording and press it agin to continue recording.
- 5) Long press play/pause switch to stop the recording.



Record Mode



Recording Paused



Recording On

5.2 Using PC Audio Interface

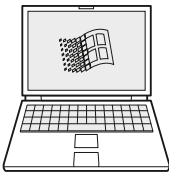
The AiR U Series Mixer has a built-in USB audio interface with plug & play connectivity for recording and playback using a PC/laptop and DAW (Digital Audio Workstation). The audio interface is class-compliant and does not require any device drivers to be installed. With this feature, users can connect multiple inputs, record them and get creative with their mixes. The AiR U Series Mixer is an ideal choice for musicians, podcasters, content creators, YouTubers, e-learning trainers, audio conferencing and host of different applications.

Requirements:

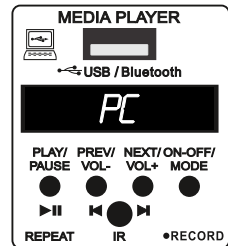
1. SMProfessional AiR U Series Mixer.
2. USB Type A (Male) to USB Type A (Male) Cable.
3. PC/Laptop Running Windows 7 or Above.

Note:

- The mixer cannot be bus-powered via USB. Always use the included power adaptor to supply power to the mixer.
- Although the USB interface in this mixer is class-compliant and no separate drivers are required, some PCs/Laptops may require basic WDM (Windows Driver Model) audio drivers to be installed. Kindly check with your PC / laptop manufacturer for any assistance on this. SMProfessional cannot be held responsible for any performance and incompatibility issues faced by the customers due to this.



USB Type A (Male) to USB Type A (Male) Cable



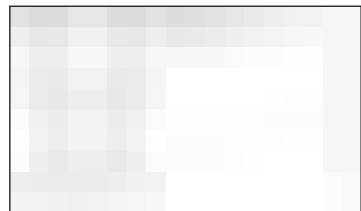
Installation Steps:

1. Connection:

Connect your mixer to a PC/Laptop using a USB Type A (Male) to USB Type A (Male) cable as shown in the diagram above. This enables a stereo signal to be sent to and from your mixer and PC/Laptop. The signal sent from the mixer to the PC/Laptop is the same as the master bus. The audio returning from the computer into the mixer appears directly in the master output.

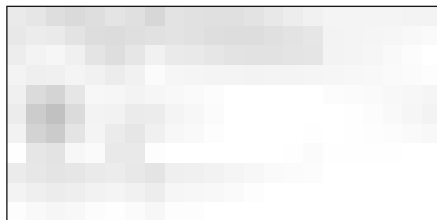
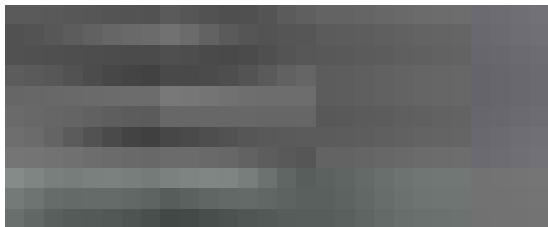
2. Audio Device Settings:

Find the audio device "**Speakers (JieLi Br21) / Mp3-Audio Spker**" in your PC/Laptop's hardware/device manager and change the input and output settings as required (However, some legacy PCs/Laptops (Windows 7 and Older) may display it differently) For best results, we recommend making the AiR U Series Mixer as your default audio device while recording and playback.



Recording Mode

For any further assistance, please go through the documentation of your PC/Laptop. **“Speakers (JieLi Br21) / Mp3-Audio Spker ”** it depends on Windows version.



Playback Mode

6. Setting Up Bluetooth Connection

- Long press mode switch to switch from USB to BT mode.
- From your phone or any of the Bluetooth device turn Bluetooth ON & search for device “NK-F3-BT”. Pair and connect to it. **(NOTE: For model 6R the Bluetooth name is “ MIX-MP3-BT”)**
- Now any music or audio you play on your device will be played through, Media player the music can be controlled (Play, Pause, Volume+ & Volume -, Reverse & Forward) by either your device or controls on the panel.

Reconnecting Your Device

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

Changing Connected Device

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

- 1) End the existing Bluetooth connection from your device by either disconnecting within your “settings” or turning off Bluetooth.
- 2) The “NK-F3-BT” Bluetooth can now be connected to a different BT device.
- 3) Follow the directions in “Setting up your Bluetooth Connection”.

ATTENTION: 1) Please ensure that there isn’t any obstruction between Bluetooth Transmitter (Mobile phones) and Receiver (AiR® 8U Mixer).

Out of Range or Lost Signal

If the music device (Mobile phones) is out of range (beyond 17 feet) of the Bluetooth Receiver (AiR® U Mixer) or if there is something blocking the Bluetooth signal, which shall be indicated by loss of audio or audio intermittency. To avoid a lost connection, move the music device back into range (within 17 feet), or reduce obstruction between the receiver and your smart phone. The connection will automatically be reestablished & audio signal will be through. If the connection does not restore you will need to establish it again as mentioned in “Setting up your Bluetooth Connection”.

• Troubleshooting Bluetooth Connection

PROBLEM	POSSIBLE SOLUTION
Paired Bluetooth device does not connect	Already connected to other BT device. Disconnect from it and pair & connect again.
	Make sure 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 device.
	Make sure that the BT module on the AiR® U Mixer is not muted (paused) and the volume is up.

Cannot pair the speaker with your Bluetooth device	Make sure your Bluetooth transmitting device is playing audio & the volume is down.
	Your Bluetooth device may be out of the specified range, try moving it closer to the speaker.
	Make sure that you work within the Bluetooth range of 17 feet, taking care that there is no metal or human body interference.
	Make sure you select "NK-F3-BT" in the pairing list on your device to finalize the connection. (required by some devices)
	Your Bluetooth device may be out of range-try moving it closer to the speaker.
	Already paired to other BT device. Unpair from it and then pair & connect again.

7. Wiring Information

Figure 1

Pin 3 - Negative / Cold / -Ve phase
Pin 2 - positive /Hot/ +Ve phase
Pin 1 - Screen / Ground / Earth

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

Ring - Negative / Cold / - Ve phase
Tip - positive / Hot / + Ve phase
Tip
Ring
Sleeve
Sleeve - Screen / Ground / Earth

To connect **balanced** equipment to an input or output, wire the 1/4" TRS jack as above

Figure 2

Screen / Ground / Earth
Signal

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

Tip = Signal
Sleeve = Screen/Ground/Earth
Tip
Sleeve

To connect **unbalanced** equipment to an input or output, wire the 1/4" TS jack as above

Figure 3

Pin 3 - Negative / Cold / -Ve phase
Pin 2 - positive /Hot/ +Ve phase
Connector body
Pin 1 - Screen / Ground / Earth

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

Pin 3 - Negative / Cold / -Ve phase
Pin 2 - positive /Hot/ +Ve phase
Connector body
Pin 1 - Screen / Ground / Earth

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

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 use of correct plug to support appliance earthing.

8. Technical Specifications:

Model	AiR® 4F	AiR® 6 / 6U/ 6R	AiR® 8 / 8U	AiR® 12 / 12U	AiR® 16 / 16U	AiR® 18U
Number Of Inputs	4 + CD In	6 + CD In	8 + CD In	12 + CD In	16 + CD In	18 + CD In
Input Sensitivity	-60dBm to -40dBm					
Nominal Input Level	MIC (-60dBm)					
	Line (-40dBm)					
	Effect (-10dB)					
	AUX In (-20dB)					
	Tape In (-10dB)					
Nominal Output Level	Effect Send(-10dBm)					
	AUX Send (0dBm)					
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			150V-240V~50Hz		240V~50Hz
Power Consumption	15W Max					

AiR® 4F	AiR® 6 / 6U/ 6R	AiR® 8 / 8U	AiR® 12 / 12U	AiR® 16 / 16U	AiR® 18U
Dimensions (W X D X H in mm)					
330x190x105	245x334x107	300x334x107	408x334x107	516x334x107	576 x 334 x 107
	252x334x107	307x334x107	414x334x107	522x334x107	
	252x334x107				
Net Weight					
3.0 kg	3.4 / 3.6 / 3.6 kg	3.9 / 4.1 kg	4.9 / 5.1 kg	5.6 / 5.8 kg	6.2 Kg
Gross Weight					
4.25 kg	4.9 / 5.1 / 5.1 kg	5.4 / 5.6 kg	6.4 / 6.6 kg	7.1 / 7.3 kg	8.7 Kg

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



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