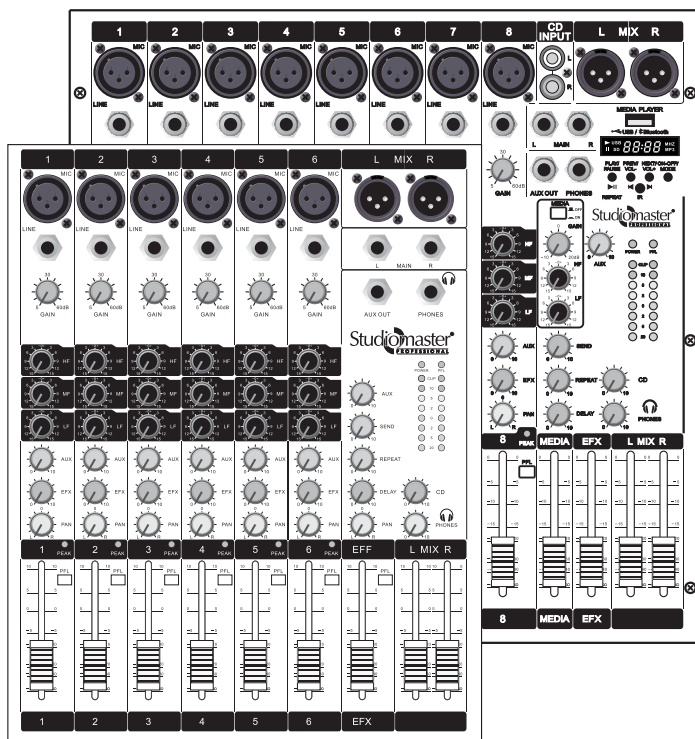


Studiomaster[®] PROFESSIONAL

AIR SERIES

Professional Mixers



INDEX:

1.....	Introduction
2.....	Features at a Glance
3.....	Input Section
4.....	Effects Section
5.....	Output Section
6.....	Media Player Section
7.....	Rear Section
8.....	Setting Up Bluetooth Connection
9.....	Troubleshooting Bluetooth Connection
10.....	Wiring Information
11.....	Technical Specifications
12.....	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 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.
- 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.
- Media Player (Available in AiR U Series).

Models Available :

- | | |
|---|---|
| • AiR 6 : 6 Mic /Line + 1 CD Input | • AiR 6U : 6 Mic /Line + 1 CD Input + 1 Media Player |
| • AiR 8 : 8 Mic /Line + 1 CD Input | • AiR 8U : 8 Mic /Line + 1 CD Input + 1 Media Player |
| • AiR 12 : 12 Mic /Line + 1 CD Input | • AiR 12U : 12 Mic /Line + 1 CD Input + 1 Media Player |
| • AiR 16 : 16 Mic /Line + 1 CD Input | • AiR 16U : 16 Mic /Line + 1 CD Input + 1 Media Player |

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)
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2. Line Input: The Line input will accept line level balanced or unbalanced signals using ¼ inch stereo (TRS) Jack.

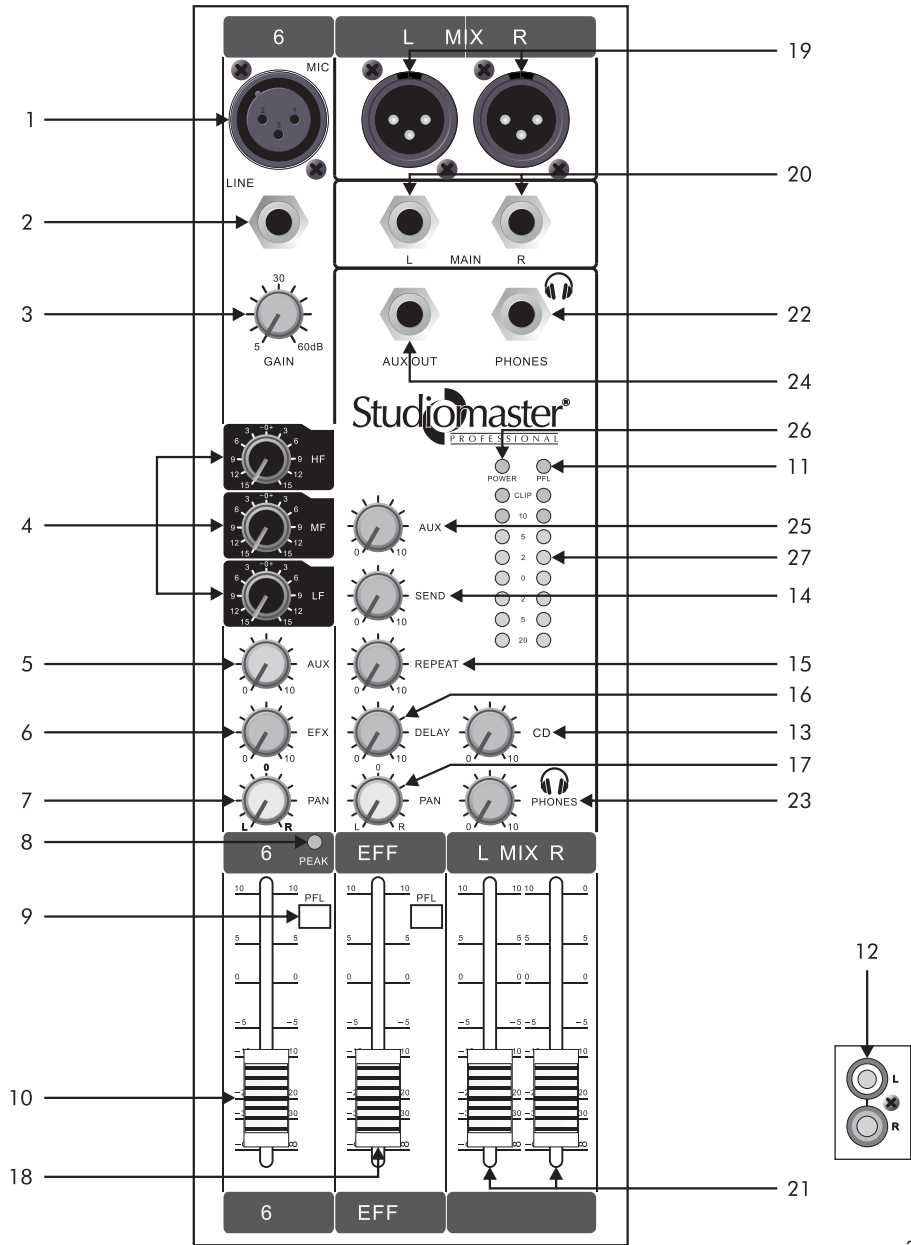
Balanced TRS:

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.

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 / Clip 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. 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 (∞).

5. 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 (Phono): This output jack is used to connect the Master output using the 1/4 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.

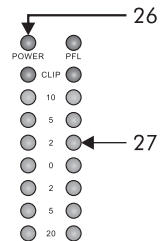
23. Phones Level: This knob is used to control the level of the headphone output.

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.

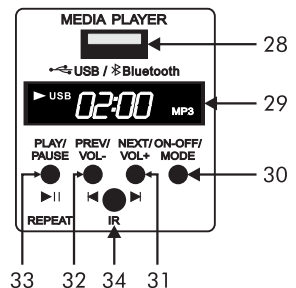


6. Media Player Section

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.

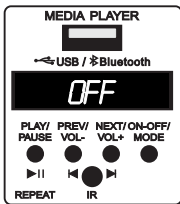
Terms of use : Studiomaster Professional respects intellectual property rights and we request our users to do the same. Please use Mp3 downloads only for program which you have legally purchased. PLEASE DO NOT USE PIRATED MUSIC OR PROGRAM.



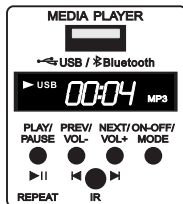
29. Display: The seven segment display is provided to visualize all media player operation.

30. On-Off/Mode Selection:

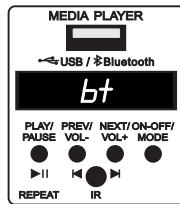
- Long press to switch On/Off the media player.
- USB is default mode.
- Single pressing will switch between USB and Bluetooth mode (BT).



Media Player Off



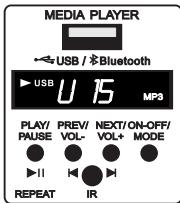
Media Player On/
USB Mode



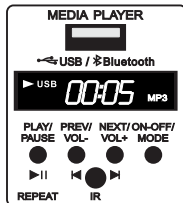
Bluetooth Mode

31. ► Next/Vol+:

- Single press this switch to go next track.
- Long press will increase volume of media player.
- Single pressing will switch USB and Bluetooth mode (BT).



Volume +



Next Track

32. ◀ Prev./Vol-:

- Single pressing the switch will go to previous track.
- Long pressing the switch decrease the volume of media player.



Volume -



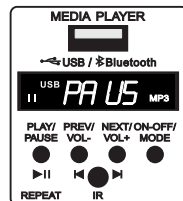
Previous Track

33. ►|| Play/Pause/Repeat:

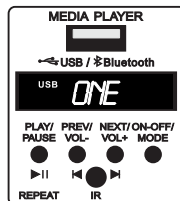
- Single press will switch media player between play and pause state.
- Long pressing this switch will change repeat selection from single track to all track.



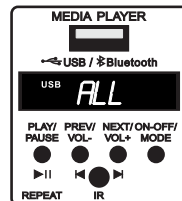
Play Mode



Pause Mode



Single Track Repeat



All Track Repeat

34. IR Sensor: The IR sensor is provided for remote operation.

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.

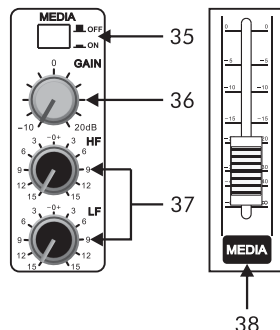
37. Media EQ:

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.

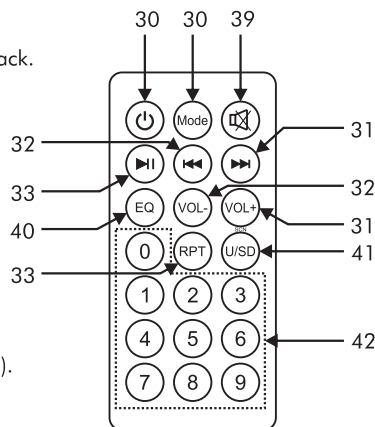
40. EQ: Press the switch to select below effects to the audio track.

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

41. U/SD: Not Active.

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

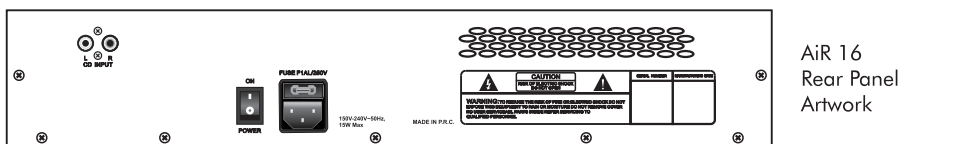
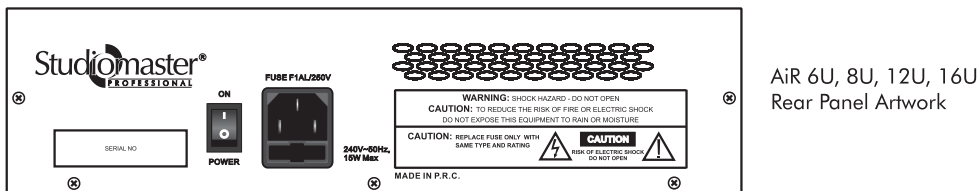
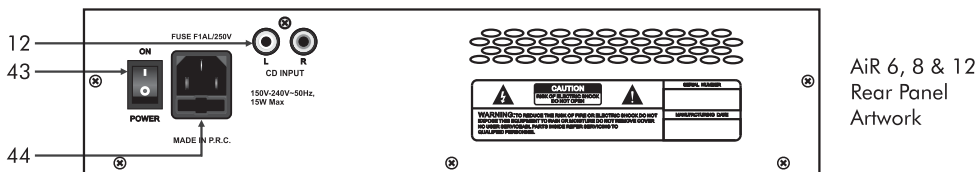
Note: Remote control range is about it 6-8 meters insight
(Please insure that the remote batteries are fully charged).



7. Rear Section

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

44. 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.



8. 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.
- 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".

9. 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.
	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.
Cannot pair the speaker with your Bluetooth device	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.

10. 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
Pin 1 - Screen / Ground / Earth

Connector body

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

Pin 1 - Screen / Ground / Earth

Connector body

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.

11. Technical Specifications:

Model	AiR 6 / 6U	AiR 8 / 8U	AiR 12 / 12U	AiR 16 / 16U
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 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 \pm 3dB			
Headphone	7V/220 Ohms			
EQ	High \pm 15dB @ 12KHz			
	Mid \pm 15dB @ 2.5KHz			
	Low \pm 15dB @ 80Hz			
Power Supply	240V~50Hz			150V-240V~50Hz
Power Consumption	15W Max			
Dimensions (WxDxH in mm)	245x334x107 /	300x334x107 /	408x334x107 /	516x334x107 /
	252x334x107	307x334x107	414x334x107	522x334x107
Net Weight	3.4 / 3.6 kg	3.9 / 4.1 kg	4.9 / 5.1 kg	5.6 / 5.8 kg
Gross Weight	4.9 / 5.1 kg	5.4 / 5.6 kg	6.4 / 6.6 kg	7.1 / 7.3 kg

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

12. 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.

[illegible]

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
SBM 20
Flex 2/Flex 2B
Flex 3
Flex 4

Wireless Microphones

BR 28 Series
BR 48 Series
ER 7 Series
ER 11 Series
ER 31 Series
ER 58 Series
KR 12 Series
TR 47 Series
XR 40 Series
XR 100 Series

Conference System

Vak 10 System
Vak 10s
Vak 10d / Vak 10c
Vak 20

Crossovers

SX-2
SX-321
SX-521

Processors

SEQ 152
SEQ 302F
SEQ 312
Multi 3
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 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 12.2 EFX
Diamond Club 12.2 USB
Diamond Club 16.2
Diamond Club 16.2 EFX

~ Diamond Supreme Series

Diamond Supreme 12
Diamond Supreme 12U
Diamond Supreme 16U

~ Club 2000 Series

C 142
C 182

~ Platinum Series

Platinum 12Fx
Platinum 16
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 855
DJX 875
DJX 925
DJX 975

CD/USB Media Player

MP 2000

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

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 0210

~ E-Series

EMB 1225
EMB 1530
EMB 1535

~ TITAN Series

TWF 2115
TWF 1815
TWF 1811
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 / 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 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 (Black & White)
B 400U
B 400UB

~ OP Series

OP 415
OP 515

~ SUB Series

O 12SUB
O 15SUB

Line Array System

FIRE 92
SLA-40 T
SLA-40 Kit
SLA 30
S 9022
S 9022 (FK)

Stabilizers

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

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