



**PROFESSIONAL EIGHT-CHANNEL AUDIO
MIXER WITH USB INTERFACE,
BLUETOOTH, AND DSP SOUND EFFECTS**

AMX7343 OWNER'S MANUAL



Thank you for purchasing the **Audio2000's®** professional eight-channel audio mixer with USB interface, Bluetooth, and DSP sound effects! For the best results and the utmost satisfaction from your new unit, please read this manual thoroughly, and retain it for future reference. For more information, please visit our website (www.audio2000s.com).

CONTENTS

Warning.....	1-2
Precautions.....	3
Package Contents	4
Features.....	4
Functions and Controls.....	4-7
Specifications.....	7
Troubleshooting.....	8
Service Information.....	9

WARNING

* TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

* THIS APPLIANCE SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING WATER AND THAT NO OBJECT FILLED WITH LIQUIDS SUCH AS VASES SHALL BE PLACED ON APPARATUS.



This lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

Warning: To reduce the risk of electric shock, do not remove cover (or back) no user-serviceable parts inside. Refer servicing to qualified service personnel.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
 - 11) Only use attachments/accessories specified by the manufacturer.
 - 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



S3125A

- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Grounding or Polarization: This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- 16) Ventilation slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 17) The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

PRECAUTIONS

On Safety

- * Operate only on designated AC power supply (120V AC in North America).
- * Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- * Unplug the unit from the wall outlet or set the Master switch to OFF if it is not to be used for several days.
- * To disconnect the cord, pull it out by the plug. Never pull the cord itself.

On Installation

- * Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation holes.
- * Do not install the unit in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

On Repackaging

Do not throw away the carton and packing materials. They make an ideal container in which to transport the unit. When shipping the unit to another location, repack it as it was originally packed at the factory.

PACKAGE CONTENTS

<u>Items</u>	<u>Quantities</u>
AMX7343 Eight-Channel Audio Mixer	1
Multi-Voltage AC/DC Power Supply Cord	1
Owner's Manual	1

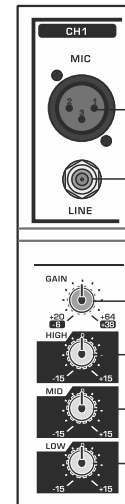
FEATURES

SYSTEM FEATURES

1. 8-Channel Audio Mixer
2. Built-in USB Interface to Computer for Recording and Music Playing Applications
3. Built-in DSP Sound Effects
4. Built-in Bluetooth Interface
5. Built-in MP3 Player Supporting a Variety of Music Formats
6. Microphone / Stereo Line Inputs
7. AUX Send and Return Jacks
8. Ultra-Musical 3-Band EQ on All Channels
9. MUTE and PFL Control Buttons on All Channels
10. AUX and PAN Controls on All Channels
11. LED Display for USB
12. Peak LED Indicators on All Channels
13. 5-Band Stereo Graphic Equalizer
14. High-Accuracy Level Indicator
15. Phantom Power Switch (+48V)
16. Sealed Rotary Control Knobs to Resist Dust and Grime
17. Rugged Chassis
18. Multi-Voltage Power Supply for Worldwide Use

FUNCTIONS AND CONTROLS

CHANNEL INPUT



1. **[MIC] Input Jack** --- This is a balanced XLR input jack. This XLR input jack is to be connected to a microphone via a balanced XLR cable.



2. **[LINE] Input Jack** --- This is an unbalanced 1/4-inch input jack. This 1/4-inch input jack is to be connected to a musical instrument, or an audio device via a 1/4-inch TS cable.



2a. **[5/6] Mono/Stereo Input Jacks** --- These are the 1/4" TS input jacks for channel 5 and channel 6. Channel 5 is utilized as the left channel while channel 6 is utilized as the right channel in the stereo mode. If only one 1/4" TS plug is connected to channel 5 and the channel 6 input jack is not connected, the mono audio signal to channel 5 will be routed to channel 6 simultaneously, such that both channel 5 and channel 6 carry the same mono audio signal.

3. **[GAIN] Control Knob** --- This knob is used to raise or lower the gain level of the input signal. There are two sets of gain control dB numbers. The lower sets of dB numbers are for the microphone signal level control while the higher sets of dB numbers are for the audio signal level control. When the audio level is higher than a predetermined threshold, the [PEAK] LED indicator (refer to numeral 10) will keep blinking until the audio level goes below the threshold.

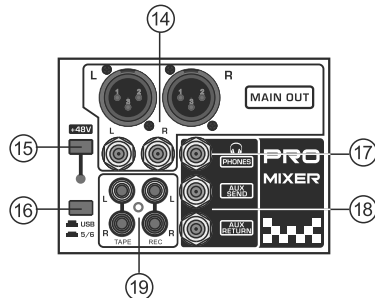
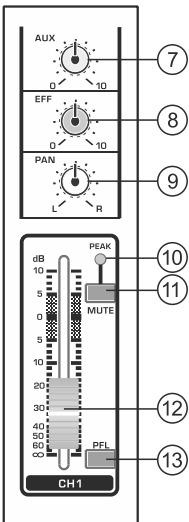
4. **[HIGH] Treble-tone Control Knob** --- This knob is used to adjust the gain for the input signal band centered at 12.5KHz in the range from -15dB to +15dB.

CHANNEL INPUT

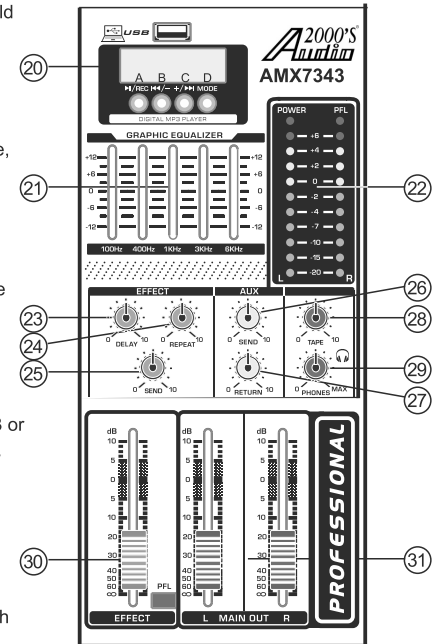
5. **[MID] Alto-tone Control Knob** --- This knob is used to adjust the gain for the input signal band centered at 2.5KHz in the range from -15dB to +15dB.
6. **[LOW] Bass-tone Control Knob** --- This knob is used to adjust the gain for the input signal band centered at 80Hz in the range from -15dB to +15dB.
7. **[AUX SEND] Control** --- This control adjusts the level of the input sent to the AUX SEND output (refer to numeral 18).
8. **[EFF] Control Knob** --- This knob is used to adjust the level of the signal routed from this channel to the reverberation line. This signal level will vary according to the settings of the channel attenuators (HIGH, MID LOW). The signals from the stereo channel (R and L) will be mixed before being routed to the reverberation line.
9. **[PAN] Control** --- This control determines how much of the input signal is sent to the left and right channels. When the knob is centered at 12 O'clock, the input signal is sent equally to the left channel and the right channel with a -3dB attenuation. Turn this control fully counter-clockwise to send 100% of the input signal to the left channel. Turn this control fully clockwise to send 100% of the input signal to the right channel.
10. **[PEAK] LED Indicator** --- This PEAK LED indicator will keep blinking when the input signal level is higher than a predetermined threshold. When the PEAK LED indicator is blinking, adjust the gain control knob (refer to numeral 3) to a lower gain level until the PEAK LED indicator stops blinking to maintain the sound quality.
11. **[MUTE] Button** --- Press this knob down to silence the input signal (preventing the input signal from being sent to the main output).
12. **[LEVEL] Control Fader** --- This level control fader is used to raise or lower the audio volume of the signal from this channel.
13. **[PFL] Pre-Fade Listen Button** --- Press this knob down to monitor (or listen) the channel's audio at the point before the audio level fader. The PFL red LED indicator light is shown in numeral 22.

14. **[MAIN OUT] Stereo Output Jacks** --- These are stereo main output jacks, including a left 1/4" TS jack, a right 1/4" TS jack, a left balanced XLR male jack, and a right balanced XLR male jack. These jacks are to be connected to power amplifiers or active speakers.
15. **[+48V PHANTOM] Button/LED Light** --- When one or more condenser microphones are connected to the XLR [MIC] input jacks (refer to numeral 1), press this [+48V PHANTOM] button to turn on the 48V phantom power to the condenser microphones via the XLR [MIC] input jacks. When the 48V phantom power is turned on, the phantom power LED light will be turned on and stay on.

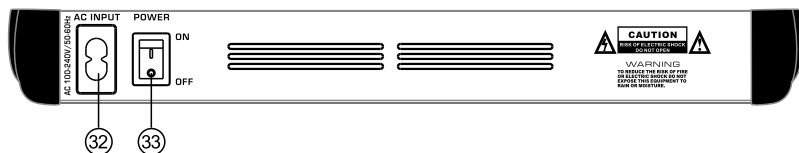
16. **USB & CH5/6 Selection Button** --- This selection button is used to route the signals from USB or CH5/6 to the outputs. When this selection button is pressed down, the signals from CH5/6 are selected. When this selection button is released, the signals from USB are selected.
17. **[PHONES] Stereo Output Jack** --- This is a 1/4" TRS jack for the stereo monitoring earphones/headphones.
18. **[AUX SEND & RETURN] Jacks** --- The RETURN input jack is a 1/4" TS jack. The [RETURN] input jack can be utilized alone as an input jack connecting to an external sound source. The SEND output is a 1/4" TS jack. This SEND output is the sum of the signals sent from each channel. If a particular channel's AUX SEND control knob (refer to numeral 7) is fully turned down, that channel is not contributing to the SEND output signal. A signal processor can be placed between the SEND output jack and the RETURN input jack as an external signal processor.



19. **[TAPE / REC] INPUT/OUTPUT Jacks** --- These input/output jacks are stereo RCA jacks. The input jacks (TAPE) allow for the connection of a playback device, such as CD player. The output jacks (REC) are to be connected to external recording device.
20. **USB/BLUETOOTH/PC Status Display & Control** --- The display shows the playing or recording status. There are four control functions as follows:
 - A. “▶/REC” Button: When the USB device, the Bluetooth interface, or a PC is used for playback, press this button to start playing music from the device. Press this button again to have the music paused. When the music is paused, press this button to continue the music from where it was paused. When USB device is used, press and hold this button to start recording the music to the USB device. Press and hold this button again to exit the recording and start playing the recorded music directly.
 - B. “◀/” Button: When the music from the USB device, the Bluetooth interface, or a PC is in progress, press this button to start the previous music track. Press and hold this button to lower the sound level.
 - C. “+▶” Button: When the music from the USB device the Bluetooth interface, or a PC is in progress, press this button to start the next music track. Press and hold this button to raise the sound level.
 - D. “MODE” Button: Press this button to select the USB or the Bluetooth interface as the input source. Press and hold this button to loop the playback.
21. **[5-BAND STEREO GRAPHIC EQUALIZER]** --- This 5-band stereo graphic equalizer adjusts the main output stereo signal sound quality.
22. **Stereo Signal Level Meter** --- This is a stereo signal level meter configured with ten LED lights for each channel (Left and Right). This stereo signal level meter includes six green LED lights at the bottom, three yellow LED lights at the middle, and one red LED light at the top on both the left channel side and the right channel side. When the red LED light is turned on frequently, the MAIN OUT output (refer to numeral 14) signal level may need to be lowered by adjusting the MAIN OUT level fader (refer to numeral 31 on page 7). The red POWER LED indicator light is placed above the left red level meter LED light. The red PFL (refer to numeral 13) LED indicator light is placed above the right red level meter LED light.
23. **[DELAY] Control Knob** --- This knob controls the time duration between the reverberation. Turn this knob clockwise to increase the delay time and counter-clockwise to decrease it.
24. **[REPEAT] Control Knob** --- Use this control knob to adjust the REPEAT setting of the echo effect. As REPEAT adjusts the total number of reverberation (echo) prior to fade-out, the more REPEAT that is applied, the more reverberation will occur prior to fade-out. Turn this control knob clockwise to increase and counter-clockwise to decrease the reverberation number.
25. **EFF [SEND] Control Knob** --- This controls the depth of the sound effect applied to the SEND output signal. Turn this knob clockwise to increase the depth of the sound effect to the SEND output signal and counter-clockwise to decrease it.
26. **[SEND] Level Control** --- This control knob adjusts the signal level of the SEND output (refer to numeral 18).
27. **[RETURN] Level Control** --- This control knob adjusts the signal level of the RETURN input (refer to numeral 18).



28. **[TAPE] Level Control** --- This control knob adjusts the signal level of the TAPE input (refer to numeral 19).
29. **[PHONES] Level Control** --- This control knob is used to adjust the earphones/headphones volume
30. **[EFFECT] Level Control Fader** --- This EFFECT level control fader is used to raise or lower the depth of the reverberation effect of the MAIN OUT output signal.
31. **[MAIN OUT] Level Control Fader** --- This level control fader is used to raise or lower the audio volume of the signal to the MAIN OUT output jacks.
32. **[AC INPUT] Jack** --- This is an AC input jack.
33. **[POWER] Switch** --- This is an ON/OFF power switch.



SPECIFICATIONS

Frequency Response	20Hz-20KHz $\pm 1\text{dB} + 4\text{dBu} @ 1\text{KHz}$	
Total Harmonic Distortion	$< 0.5\% @ +4\text{dBu} (22\text{Hz} - 22\text{KHz})$	
Channel	8-CH	
Input Channels	MIC/LINE	6(XLR)
	STEREO	1(7-8)
	MP3	1
	USB Sound Card	2.0Type-A
	Bluetooth	1
Output Channels	REC/RCA	1
	Main/6.35Jack	L/R
	Main/XLR	L/R
Auxiliary	Phones/6.35Jack	1
	INSERT	/
	SEND(OUT)	1
Input Channel Function	Return(IN)	1
	MUTE/PFL	2 Buttons
	EQ/3-band	HIGH: Gain $\pm 15\text{dB}$, Frequency : 12KHz shelving MID: Gain $\pm 15\text{dB}$, Frequency : 2.5KHz shelving LOW: Gain $\pm 15\text{dB}$, Frequency : 80Hz shelving
Peak LED	LED turns on when post EQ signal reaches 3dB below clipping level	
Level Meter	2 x 10-segment LED meter, (+6,+4,+2,0,-2,-4,-7,-10,-15,-20dB)	
Main control equalizer	5-band stereo graphic equalizer	
Effects/FX	Built-in DSP	
Phantom Power Voltage	+48V	
Power Source (50Hz-60Hz)	AC 100-240V	
Power Consumption	25W	

TROUBLESHOOTING

Should problems occur, they are, in many cases, due to simple operation mistakes or the like. On the basis of the following checks, you will be able to rectify a number of problems yourself without difficulty. If the problem cannot be remedied after the following checks, please consult your dealer.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Power can not be turned on	Power Supply cord was not connected or was not connected securely.	Securely connect the power supply cord to the mixer DC input and/or the AC power outlet.
	The power supply cord is defective.	Replace the power supply cord.
	The AC power outlet has no power.	Connect the power supply to an AC power outlet with proper power.
No output sound	The AC power source is from an AC power extension cord and the power switch of the extension cord is not turned on.	Turn on the power switch of the AC power extension cord.
	The power is off.	Turn on the power.
One channel no sound	The stereo level fader was turned to minimum.	Adjust the stereo level fader to have an optimal output level.
	The main output audio cable is missing or defective.	Connect, repair or replace the audio cables.
	The gain control knob to the channel was turned to minimum.	Adjust the gain control knob to that channel to have an optimal output level.
Microphone no sound	The level control knob to the channel was turned to minimum.	Adjust the level control knob to that channel to have an optimal output level.
	No phantom power to the condenser microphone	Turn on the phantom power.
	The gain control knob to the microphone channel was turned to minimum.	Adjust the gain control knob to that microphone channel to have an optimal microphone output level.
Distorted sound	The level control knob to the microphone channel was turned to minimum.	Adjust the level control knob to that microphone channel to have an optimal microphone output level.
	The amplitude of the input signal is over the threshold.	Adjust the gain control knob to lower the input gain.
	The amplitude of the main output signal is over the threshold of the connected amplifiers or active speakers.	Adjust the stereo level fader to lower the main output level.

SERVICE INFORMATION

SHIPPING DAMAGE

If the shipping carton is found to be damaged, notify the delivery company immediately. Save the damaged carton as evidence for the delivery company to inspect. It is the responsibility of the shipper to file a claim with the delivery company for any damaged that occurs during shipping. In the case that the shipping carton is in good condition but the unit is damaged or defective, call H & F Technologies, Incorporated, U.S.A. at 805-523-2759.

WARRANTY PERIOD

For the period of one (1) year from date of original retail or online purchase for parts and 90 days for labor (the Warranty period) from an authorized Audio2000'S® dealer, H & F Technologies, incorporated, U.S.A., warrants that products distributed by H & F Technologies, Incorporated in the U.S.A. that fail to function properly under normal use due to manufacturing defect when installed and operated according to the owner's manual instructions enclosed with the unit will be repaired or replaced with a new or reconditioned product with comparable value, at the discretion of H & F Technologies, incorporated, without charge to you for parts or actual repair work. Parts supplied under this warranty may be new or rebuilt at the option of H & F Technologies, incorporated.

This Warranty period for retail or online customers commences upon the date of retail sale, online sale, or the time that the product is first put into use, whichever occurs first.

This Warranty is valid for 90 days from the date of purchase on any product which is used in any trade or business, or in an industrial or commercial application.

PRODUCT

This warranty covers the product during the warranty period with the proof of purchase only. In the event service is required, call H & F Technologies, Incorporated at 805-523-2759 for a Return Authorization number (RA number) and the product must be delivered within the Warranty period, transportation prepaid by the product owner from within the United States. You will be responsible for removal and installation of the product. H & F Technologies, Incorporated will pay for the standard shipping cost for returning the product to you within the continental United States for all necessary repairs or replacements which are covered by the warranty.

No liability will be accepted for damages or loss directly caused from the use of this product. H & F Technologies, Incorporated's liability shall be limited to the repairs or replacements of this product if found to be defective.

WHAT'S NOT COVERED

- 1) Any damage to the products resulting from alteration, modifications not authorized in writing by H & F Technologies, Incorporated, misuse or abuse, neglect, accident, improper installation, damage due to lightning or due to power surges, subsequent damage from leaking, damaged or inoperative batteries or the use of batteries not conforming to those specified in the owner's manual instructions.
- 2) The cost of parts or labor, which would be otherwise provided without charge under this warranty, obtained from any source other than an H & F Technologies, Incorporated Authorized Service Company or other designated location. This warranty does not cover defects or damages caused by the use of unauthorized parts or labor, or from improper maintenance.
- 3) Normal wear and tear of this product, including but not limited to headset and lapel microphones, earphone ear cushions, microphone clip, and microphone mesh grille.
- 4) Any product that has been used as a rental unit.