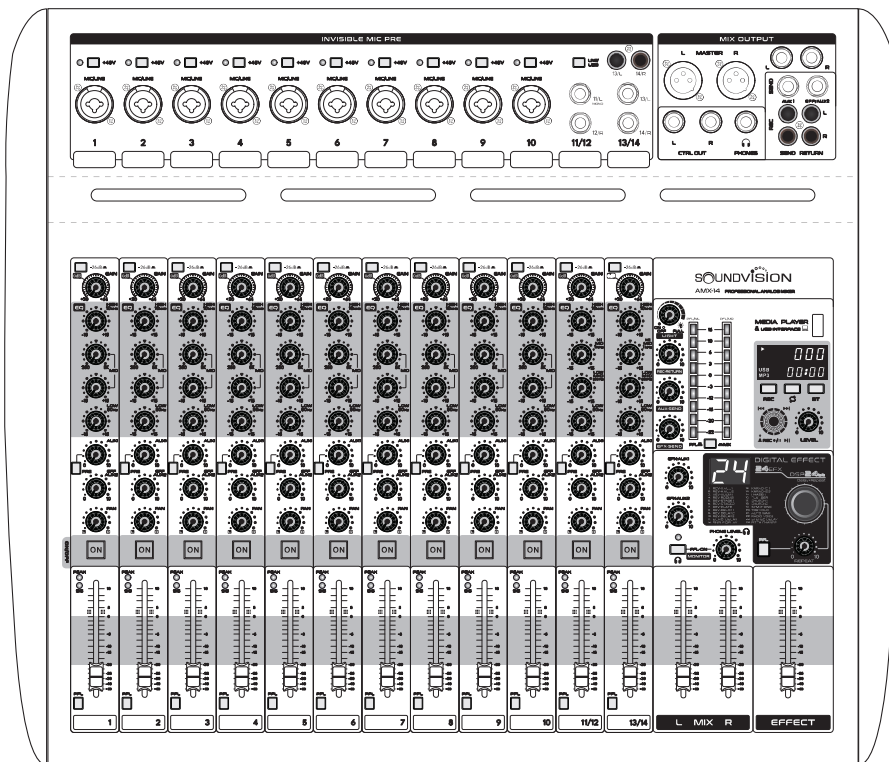


SOUNDVISION™

AMX Series

08 | 10 | 14



PROFESSIONAL ANALOG MIXER

USER MANUAL

AMX Series

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Thank you for choosing our company's professional mixing console product. You have now acquired a high-quality series of mixing consoles provided by our company. Welcome to our family!

All our products have undergone careful design, so please read this manual carefully. It contains important and helpful information that will allow you to get the maximum performance from your new product.

Unboxing and Inspection: Inspect your new equipment upon unboxing. If any damage is found, please notify the shipping company immediately. As the recipient, you can file a claim with the shipping company for any damage that occurred during transit.

CAUTIONS

Before installation and use, please ensure the correct voltage is used.

To ensure sufficient ventilation, maintain a minimum gap of 50cm around the equipment.

Do not obstruct the ventilation holes with items such as newspapers, tablecloths, or curtains, which may impede proper airflow.

Do not place any exposed flame sources, such as lit candles, on the device.

Avoid using the equipment in environments with high temperatures, direct sunlight, or excessive humidity, especially in tropical or temperate climates.

The device should not be exposed to water droplets or splashes, and items filled with liquid, such as vases, should not be placed on the device.

Non-technical personnel should not open the chassis and attempt to access the internal components due to the risk of electric shock.

Avoid collision, throwing, or excessive vibration of the device to prevent damage.

The device bears a warning sign marked with a "⚡" indicating a warning of hazardous voltage.

External cables connected to ports marked with this sign should be installed or used by instructed personnel using approved leads or flexible cables.

If the device is not in use for an extended period, turn it off instead of leaving it powered on.

Do not step on or pull the power cord.

The equipment should be connected to a power outlet with a protective grounding connection.

If a plug and socket combination or an isolating switch is used as the disconnect device, ensure it is easily operable.

Images and specifications may differ from the actual product. Please refer to the physical product for accurate details.

Changes may be made without prior notice.

FEATURES

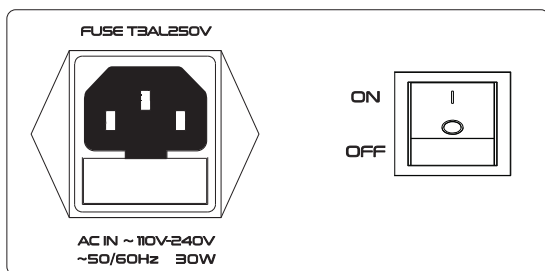
- AMX-Series professional analog mixer 8, 10, and 14 Channels.
- 4 / 6 / 10 mono and 2 stereo input channels.
- Master, Phones, Control, Aux, Eff and Rec output channels.
- Ultra-low noise invisible Mic preamps with +48V phantom power.
- 24-bit DSP processor provides up to 24 effect presets.
- Built-in 2-in/2-out, USB audio interface (Audio player and recorder.)
- Each mono input channel is equipped with 3-bands EQ (1 band of swept mids)
- Each stereo input channel is equipped with 4-bands EQ
- PFL/PEAK LED and 60mm fader for each channels.
- Power supply for AC 110–240Voltage.

* USB Interface Compatibility : Supports Windows / iOS

PREPARATION BEFORE USING THE AMX SERIES ANALOG MIXER.

Make sure to set the power switch of the mixing console to the OFF position.

Connect the undamaged power cord to the AC socket on the rear panel of the mixing console, as indicated in the diagram:



Insert the power plug into a standard household power outlet.

When the mixing console is not in use or during thunderstorms with lightning in your area, make sure to unplug the power cord from the external power outlet.

POWER ON:

Turn the power switch of the mixing console to the ON position. When you are ready to power off the console, switch the power switch to the OFF position. Note: Even when the power switch is in the OFF position, there may still be a small amount of residual current in the system.

Therefore, it is important to unplug the power cord from the external power outlet when the mixing console is not in use for an extended period.

QUICK START GUIDE:

To get sound output from the speakers and initiate partial stereo output, please note that the operational methods and steps may vary depending on the input devices you are using.

Make sure to turn off the mixing console and set all levels and controls (such as STEREO OUT master fader, channel faders, GAIN knobs, etc.) to their minimum positions.

To avoid damaging the speakers, power on the devices in the following order: peripheral devices, professional audio mixer, power amplifier (or powered speakers).

Reverse this order when powering off.

Note: If you are using a condenser microphone that requires phantom power, turn on the phantom power switch on the professional audio mixer before powering on the amplifier or powered speakers.

Adjust the GAIN knobs for each channel to make the corresponding PEAK indicator briefly flash at the highest peak level.

Note: When inputting audio sources to each channel, adjust the appropriate equalization and gain settings for the best state before the PEAK indicator lights up.

Set the channel faders to create the desired initial balance, and then adjust the overall volume using the STEREO OUT master fader.

Note: Check the levels applied to the STEREO L/R bus using the level meters on the console.

If the PEAK indicator frequently lights up, slightly reduce the channel fader or GAIN knob to avoid distortion.

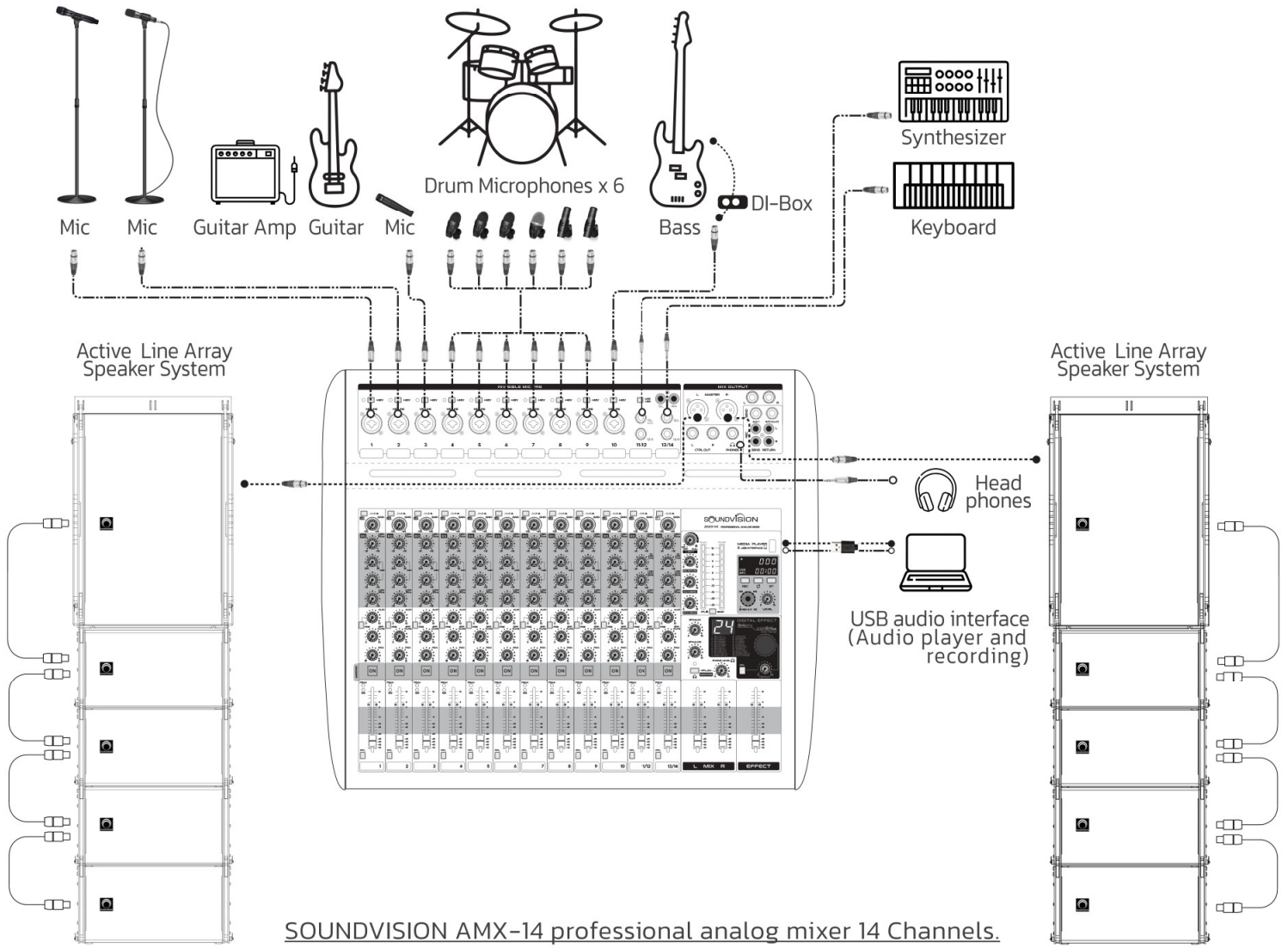
Wiring connections for input and output interfaces:

Please refer to the wiring diagram on page 9 and select appropriate cables. Incorrect wiring can lead to abnormal audio output or even damage to the power amplifier and speaker equipment.

PACKING LIST

- AMX Analog mixer x 1 pc.
- AC Power cable x 1 pc.
- USB cable (Type A To Type A) x 1 pc.
- User manual x 1 book.

CONNECTION EXAMPLE



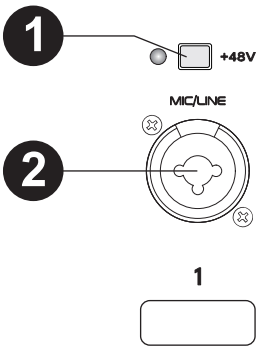
--- INPUT

----- OUTPUT

 XLR CONNECTOR

 TRS PHONES

 TR PHONES



SIGNAL INPUT SECTION

1. +48V Phantom Power Switch:

When this button is pressed, the indicator light will illuminate. This provides 48V DC power to the 2nd and 3rd pins of the XLR inputs for condenser microphone usage.

Note: Do not connect devices such as condenser microphones that do not require +48V power to the microphone input when this button is pressed to avoid damaging the equipment.

2. Microphone (XLR)/Line 6.3 Balanced Dual-Use Input Interface:

The microphone (XLR) input interface is suitable for connecting passive low-level input signals, such as wired microphones. If you are connecting a condenser microphone that requires +48V power, make sure to press the +48V phantom power switch for the respective channel.

Note: If you are connecting a condenser microphone that does not require +48V power, make sure to turn off the +48V phantom power switch for the respective channel.

The Line 6.3 balanced input interface is used for balanced signal inputs, such as wireless microphones or other high-level input signals.

3. Fixed Attenuation (PAD):

Pressing this button attenuates the signal input of the channel by 26dB, suitable for fixed attenuation when the input signal is too strong.

4. Gain Control Key:

Adjusts the input signal level. To achieve the optimal balance between signal-to-noise ratio and dynamic range, adjust the gain key based on the flashing of the peak indicator, ensuring that the sound does not distort due to excessive adjustment.

5. Channel EQ Adjustment:

Use this rotary knob to adjust the high, mid, and low frequencies of the channel's signal to achieve the desired effect.

6. AUX1 Signal Send:

This knob is used to adjust the output level of the AUX1 signal for the respective channel.

7. AUX1 Signal Pre/Post Fader Switch:

Select whether to send the AUX signal before or after the fader. When the switch is ON, the professional audio mixer sends the pre-fader (before the fader adjustment) signal to the AUX bus, ensuring that the AUX output is not affected by the channel faders. When the switch is OFF, the mixer sends the post-fader (after the fader adjustment) signal to the AUX bus.

8. Reverb Send or AUX2 Signal Send:

This knob is used to adjust the level of the channel's signal sent to the internal reverb or the output level of the AUX2 signal.

9. Balance Adjustment for Left and Right Channels of the Channel Output:

This knob is used to adjust the balance of the channel's signal output to the left and right channels of the main output.

10. Mute Switch:

When this button is pressed and the light is on, the signal passes through. When the button is released and the light goes off, the signal is muted.

11. Peak Indicator:

Indicates whether the channel signal is overloaded or distorted. When the indicator is slightly lit or continuously lit, it means that the input signal for that channel is too strong or the gain or volume adjustment for that channel is too high, resulting in excessive output volume and distortion. When the indicator is slightly lit or continuously lit, adjust the input signal level or adjust the gain or EQ settings for that channel until the indicator does not light up, which is the optimal state.

12. Signal Indicator:

This indicator will light up when there is a signal input for the respective channel, serving as a signal presence indicator.

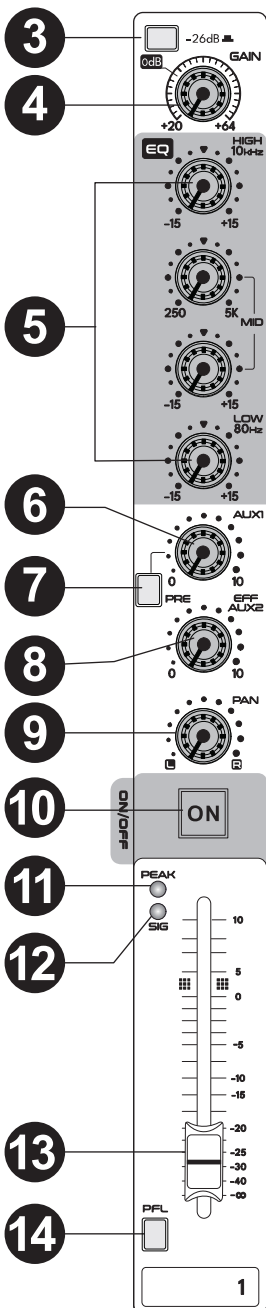
13. Channel Volume Control Fader:

Adjusts the volume of the channel output signal to achieve signal balance between the different channels. Before use, make sure to set it to the off position.

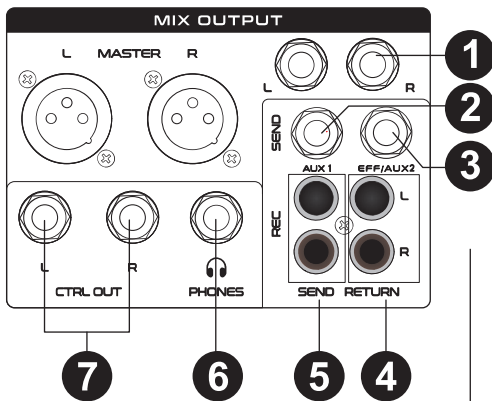
Note: Set the attenuator fader for channels that are not in use to the minimum position to minimize noise generated during operation.

14. PFL (Pre-Fader Listen) Monitoring Key:

When this button is pressed, the channel's signal will be directly sent to the headphone output, allowing you to monitor the signal of the selected channel. (This button's function is only active when the main PFL monitoring key is pressed.)



MAIN CONTROL SECTION OF THE MIXING CONSOLE



1. Main Output Interface:

This interface serves as the main signal output of the mixing console and is used to connect to a power amplifier or other audio devices. (Please use balanced output wiring methods.)

2. AUX1 External Signal Output Interface:

The external signal from the channel is output through this interface to other external devices. This interface is a mono interface.

3. Effects Send Interface / AUX2 External Signal Output Interface:

This interface is used to output the effects or external signals from the channels to other external devices. It is a mono interface.

4. Tape Deck (CD Player) Signal Input Interface:

External audio devices such as tape decks or CD players can input audio signals to the main control circuit of the mixer through this interface.

5. Recording Signal Output:

The main signal of the mixer is output through this interface to audio devices such as recording machines.

6. Headphone Output Interface:

This interface is a stereo 6.3mm headphone jack for monitoring purposes.

7. Headphone Auxiliary Monitoring Output:

The signal for auxiliary monitoring comes from the headphone output or can be understood as the monitoring output.

8. Night Vision Light and Side Panel Illumination Control Switch:

This knob is used to control the on/off state and brightness of the lights for night vision and side panel illumination.

9. External Audio Device Volume Control:

Used to adjust the volume of external devices such as CD players or tape decks that are connected to the mixer.

10. External Signal Volume Control:

Used to adjust the overall volume of the signals sent to the external signal output ports.

11. Effects Send Volume Control:

Used to adjust the overall volume of the signals sent to the effects send ports.

12. Mixer Effects Send to External Signal AUX1 Volume Control:

Used to adjust the volume of the mixer's effects sent to the external signal AUX 1
Note: The volume sent to AUX1 is not affected by the EFFECT fader.

13. Mixer Effects Send to External Signal AUX2 Volume Control:

Used to adjust the volume of the mixer's effects sent to the external signal AUX 2
Note: The volume sent to AUX2 is not affected by the EFFECT fader.

14. Monitor Select Button:

When pressed, the mixer's headphones enter the monitoring mode. The monitoring mode allows for monitoring of the individual signals selected by pressing the PFL (Pre-Fader Listen) buttons.

15. Headphone Volume Control:

Used to adjust the volume of the headphones.

16. Main Output Volume Control:

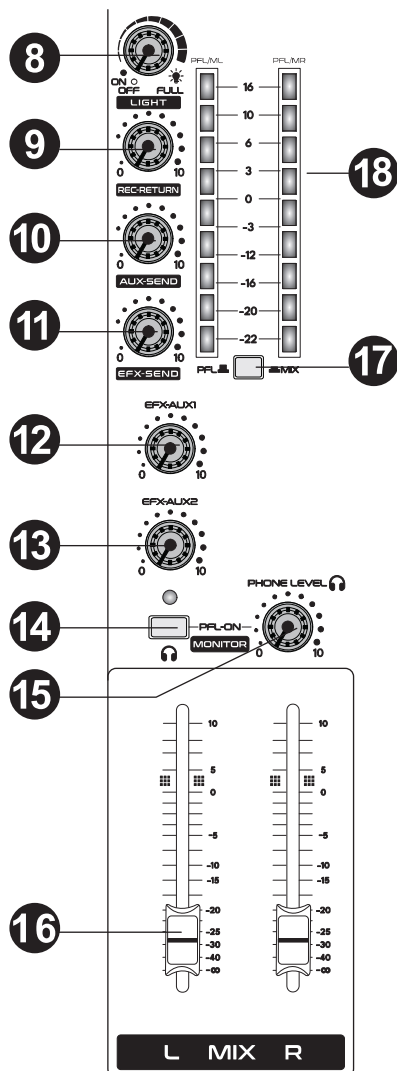
Used to control the volume of the main output of the mixer.

17. Main Channel and Monitor Output Signal Switching Key:

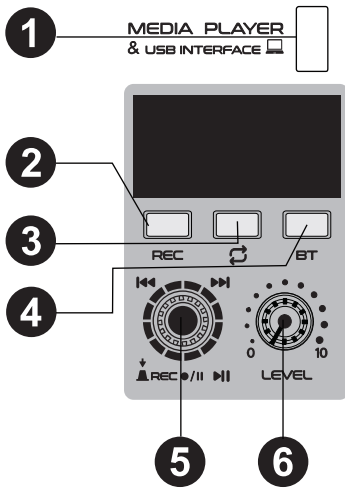
Pressing this button indicates the level of the main channel output signal, and releasing the button indicates the level of the monitor output signal.

18. Output Signal Level Meters:

Used to monitor the level of the currently monitored or main output signals.



USB PLAYER AND DIGITAL EFFECTS PROCESSOR



1. USB Interface:

Insert a USB flash drive or connect the computer's sound card data cable to play various audio file formats. This player has a built-in computer sound card function, which allows you to play computer music by connecting it to a computer via USB. You can control the computer's music playback using the track selection, pause, and play buttons on the device.

The USB interface can also output the device's audio signal to a computer for recording and post-production. The USB interface can also be used to connect a smartphone for music playback, recording, and live streaming.

2. MP3 Recording Button:

When a USB flash drive is inserted, press this button to enter the recording standby mode. Press the encoder knob briefly (5) to start recording, press the encoder knob again briefly (5) to pause the recording, and press the encoder knob briefly (5) to continue recording. Long-press the REC button to save and exit the recording mode. The recorded files are saved on the USB flash drive and, by default, the recording file is listed as the last file.

3. MP3 Loop Mode Selection Button:

Used to select the audio playback mode (single loop, playlist loop, sequential playback).

4. MP3 Bluetooth Signal Shortcut Button:

Long-press this button to enter the Bluetooth mode, and long-press it again to exit the Bluetooth mode.

5. MP3 Encoder Knob:

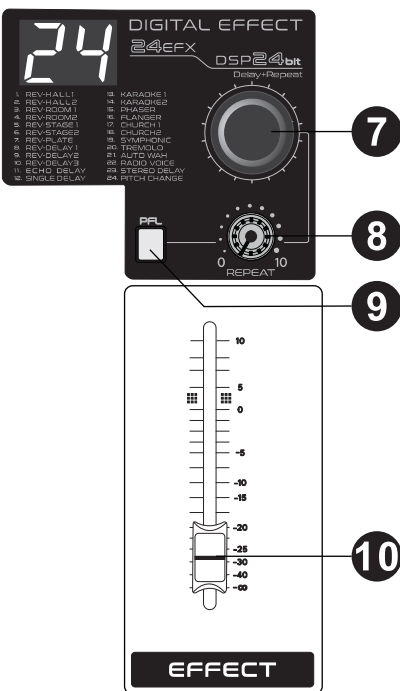
Turning the knob to the left selects the previous song.

Turning the knob to the right selects the next song.

Pressing the encoder knob during music playback acts as the play/pause button. Pressing the encoder knob in menu mode acts as the confirmation button.

6. MP3 Player Volume Control:

Used to adjust the volume of the MP3 player on the device.



7. Effects Selection Control Button:

Rotate this encoder to select from 24 different effect programs.

Press the encoder knob to confirm the currently selected effect program.

The 24 effect programs are illustrated in the diagram.

No.	Program	No.	Program
1.	REV-HALL 1	13.	KARAOKE 1
2.	REV-HALL 2	14.	KARAOKE 2
3.	REV-ROOM 1	15.	PHASER
4.	REV-ROOM 2	16.	FLANGER
5.	REV-STAGE 1	17.	CHURCH 1
6.	REV-STAGE 2	18.	CHURCH 2
7.	REV-PLATE	19.	SYMPHONIC
8.	REV-DELAY 1	20.	TREMOLO
9.	REV-DELAY 2	21.	AUTO WAH
10.	REV-DELAY 3	22.	RADIO VOICE
11.	ECHO DELAY	23.	STEREO DELAY
12.	SINGLE DELAY	24.	PITCH CHANGE

8. Reverb Depth Adjustment:

Used to adjust the reverb depth (repetition rate) of the device.

9. Effects Monitoring Button:

When pressed, the effects of the device enter the monitoring mode.


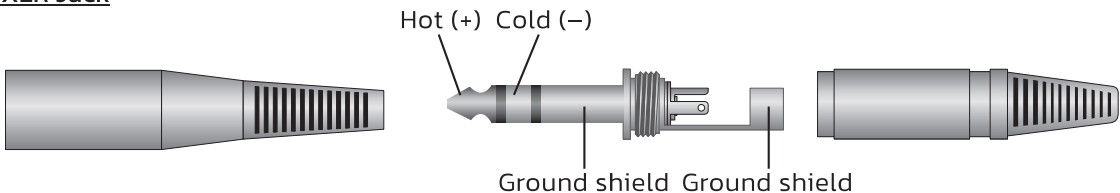
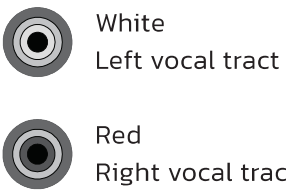
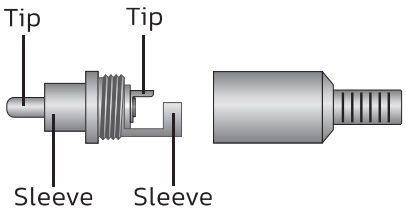
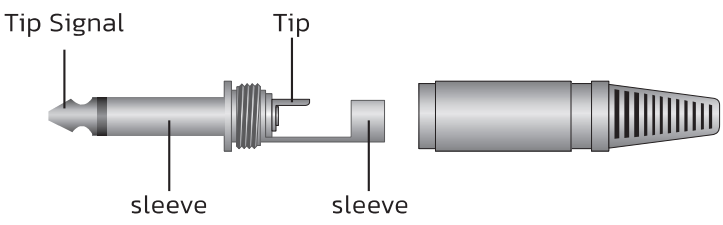
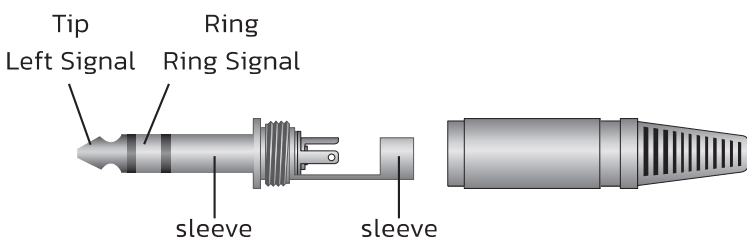
10. Effects Overall Volume Control:

Used to control the overall volume of the device's effects.

WIRING CONNECTIONS / AUDIO CONNECTIONS:

To set up an audio system, you will need a variety of audio cables. It is important to use high-quality cables for optimal audio performance. Please refer to the diagram below for the corresponding cable connections.

For recording input and output interfaces, it is recommended to use commercial-grade XLR cables. However, you can also use unbalanced devices to connect to input or output interfaces. In such cases, you need to bridge the mono or stereo plug with a sleeve and ring (for XLR connectors, this would be pins 1 and 3).

<p><u>Balanced XLR Jack</u></p> <p>INPUT</p> 	 <p>Pin 1: Ground shield Pin 2: Hot (+) Pin 3: Cold (-)</p> <p>For unbalanced use, pins 1 and 3 must be bridged</p>
<p><u>RCA Jack</u></p> 	
<p><u>TS Phone Jack</u></p>	
<p><u>TRS Phone Jack</u></p>	

ANALOG INPUT / OUTPUT SPECIFICATIONS

Inputs

Functions	Minimum Impedance for Z Input	Input Gain Settings	Input Level			Balanced/ Unbalanced Interfaces	Interfaces
			Minimum	Normal	Maximum		
Microphone	2.2K	Max Gain (dB)	-76dB -24dB	-56dB -4dB	-38dB +14dB	Balanced	XLR : Pin 1 Gnd Pin2 (+), Pin3 (-)
Line	4K7	Max Gain (40dB) Max Gain (-10dB)	-56dB -10dB	-36dB +14dB	-18dB +32dB	Balanced	TRS :Tip(+) Ring (-), Sleeve Ground
Recording	10K	N/A (10dB)	-17dBu	-10dBu	+12dBu	Unbalanced	RCA Phonol
Return	10K	N/A (20dB)	-21dBu	-1dBu	+17dBu	Balanced	TRS :Tip(+) Ring (-), Sleeve Ground

OdBu=0.755V

Outputs

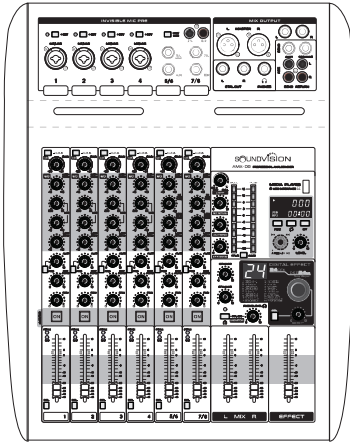
Functions	Minimum output impedance	Opnut Level		Balanced/ Unbalanced Interfaces	Interfaces
		Normal	Maximum		
Monitor sends	600	+4dBu	+22dBu	Balanced	TRS :Tip(+) Ring (-), Sleeve Ground
Head phone	8	+4dBu (no load)	+22dBu	Balanced	TRS :Tip(left) Ring (right), Sleeve Ground
REC	1K	+4dBu	+22dBu	Unbalanced	RCA Phonol

SPECIFICATIONS

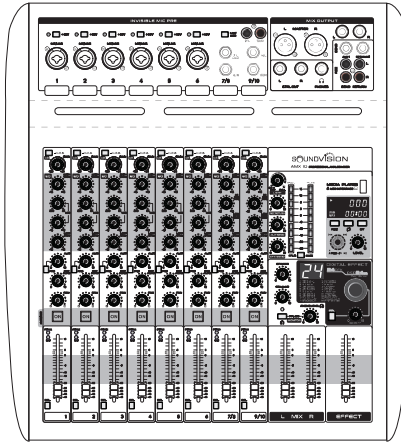
AMX-SERIES	AMX-08	AMX-10	AMX-14
Input channels	8	10	14
Mono (Mic/Line)	4 (Combo XLR)	6 (Combo XLR)	10 (Combo XLR)
Stereo (Line)	2 (TS) (5/6, 7/8)	2 (TS) (7/8, 9/10)	2 (TS) (11/12, 13/14)
REC (Return)	2 (RCA)	2 (RCA)	2 (RCA)
Output channels			
Master out	2 (XLR) , 2 (TR)		
Phones out	1 (TRS)		
Control out	2 (TS)		
AUX (Send)	2 (TS)		
REC (Send)	2 (RCA)		
Digital I/O	2-in/2-out, USB audio interface (Audio player and recording)		
PAD	-26dB (mono)		
Input channel EQ			
Mono	High : Gain +15dB /-15dB, Frequency: 10kHz (shelving) Mid : Gain +15dB /-15dB, Mono 250Hz-5kHz, Frequency: 2.5kHz (peaking) Low : Gain +15dB /-15dB, Frequency: 80Hz (shelving)		
Stereo	High : Gain +15dB /-15dB, Frequency: 10kHz (shelving) High-Mid : Gain +15dB /-15dB, Frequency: 1kHz (peaking) Low-Mid : Gain +15dB /-15dB, Frequency: 800Hz (peaking) Low : Gain +15dB /-15dB, Frequency: 80Hz (shelving)		
Signal indicator	PEAK indicator (red), SIG indicator (green) *Peak lights if the signal comes with in +17dB of the clipping level.		
LED level meter	2 x 10 points LED meter (16, 10, 6, 3, 0, -3, -12, -16, -20, -22 dB) *Peak lights if the signal comes with in +17dB of the clipping level.		
Digital effects	24 programs, Control Knob.		
GENERAL			
Frequency responses	20Hz-20kHz+1dB, -3dB @+4dB, 600Ω		
Total harmonic distortion	<0.1%(THD+N) @+14dB, 20Hz-20kHz, 600Ω		
Operating temperature	- 50°C to 80°C		
Phantom power	+48V per channel		
Power consumption	30W		
Power requirements	110V-240V/50-60Hz		
Net weight	4.5 Kgs.	5 Kgs.	6 Kgs.
Gross weight			
Dimensions (W x D x H)	418*430*110 mm	424*430*110 mm	540*430*110 mm

DIMENSIONS

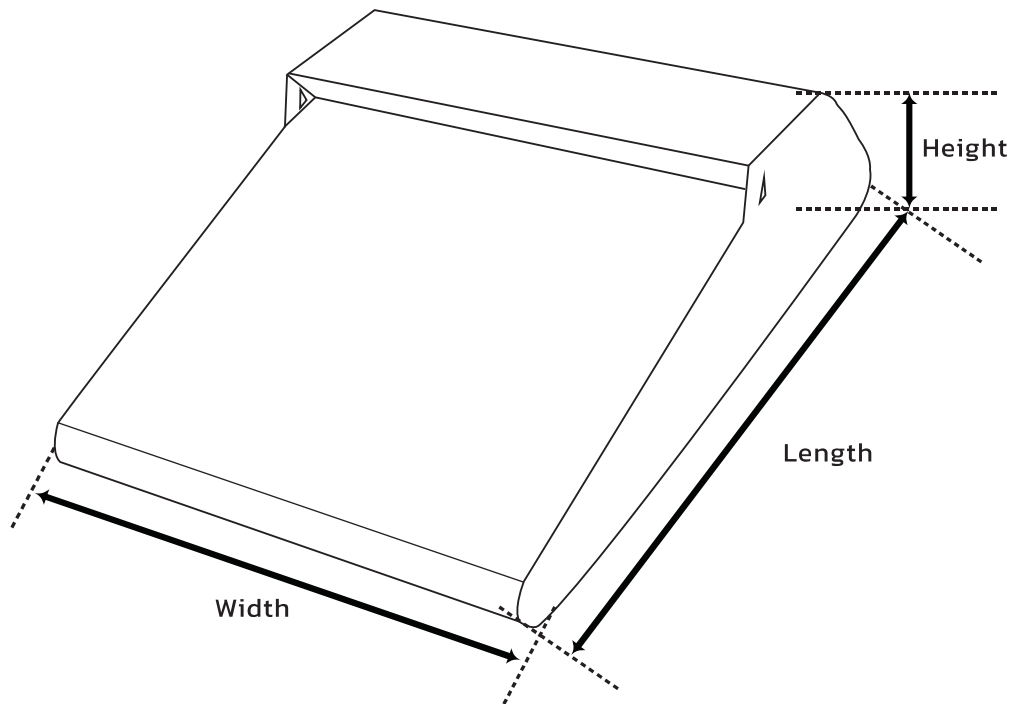
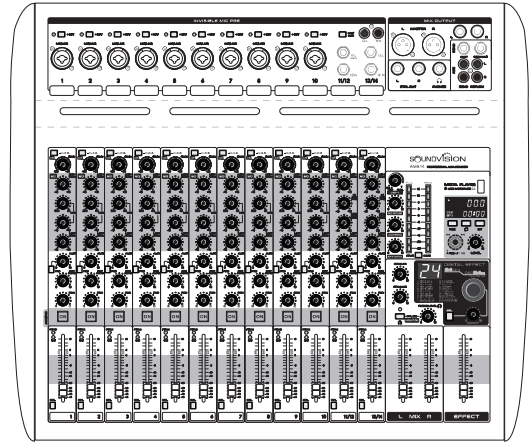
AMX-08



AMX-10

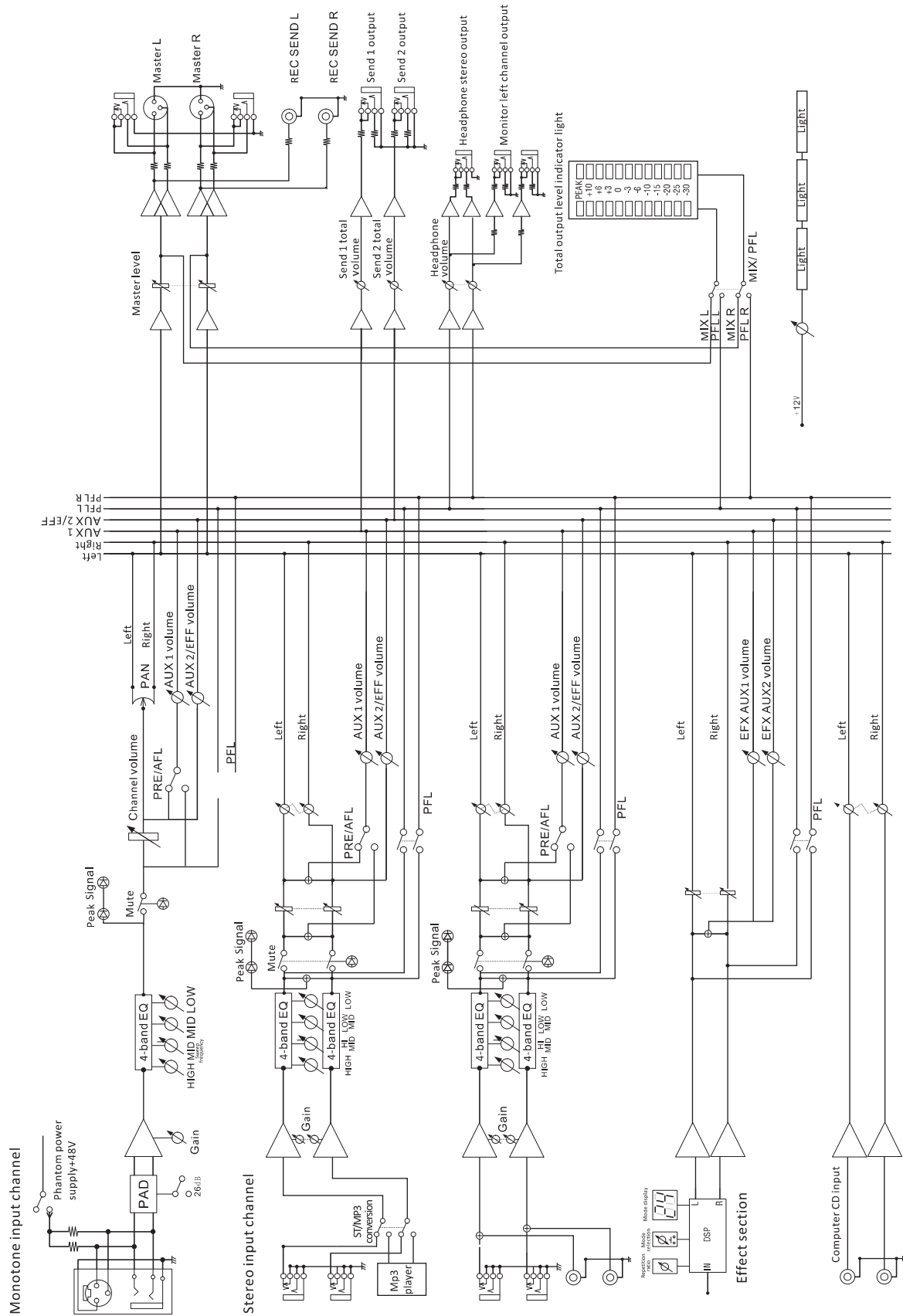


AMX-14



Models	Width	Length	Height	Weight
AMX-08	418mm	430mm	110mm	4.5 kgs.
AMX-10	424mm	430mm	110mm	5 kgs.
AMX-14	540mm	430mm	110mm	6 kgs.

BLOCK DIAGRAM AND LEVEL DIAGRAM



TRADEMARK AND LICENSES



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