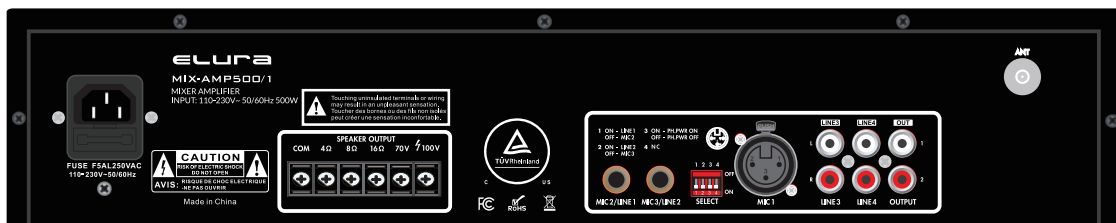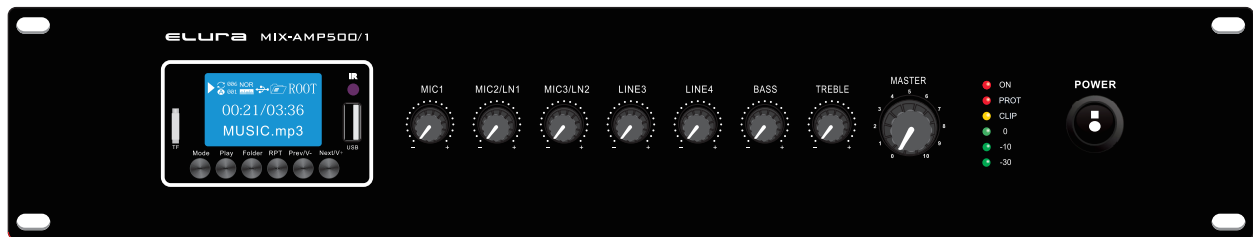# ELURA

COMMERCIAL

GREEN LABEL SERIES MIXER AMPLIFIER
OWNER'S MANUAL &
INSTALLATION GUIDE

ELURA MIX-AMP500/1
500-WATT 70V OR 100V
MIXER AMPLIFIER

Important Safety Instructions

1. Read these Instructions.
   Lisez ces instructions.

2. Keep these Instructions.
   Conservez ces instructions.

3. Heed all Warnings.
   Respectez tous les avertissements.

4. Follow all instructions.
   Suivez toutes les instructions.

5. Do not use this apparatus near water.
   Ne pas utiliser cet appareil près de l'eau.

6. Clean only with a dry cloth.
   Nettoyer uniquement avec un chiffon sec.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
   Ne pas bloquer les ouvertures de ventilation. Installer conformément aux instructions du fabricant.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
   Ne pas installer près de sources de chaleur telles que radiateurs, registres de chaleur, poêles ou autres appareils (y compris les amplificateurs) produisant de la chaleur.

9. Do not defeat the safety purpose of the polarized or grounding - type plug. polarized plug has two blades with one wider than the other. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
   Ne détruisez pas la sécurité de la terre ou polarisées - fiche. Une fich polarisée possède deux lames dont une est plus large que l'autre. Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour remplacer la prise obsolète.

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.
    Protégez le cordon d'alimentation d'être piétiné ou pincé, particulièrement au niveau des fiches, des prises, et le point où ils sortent de l'appareil.

11. Only use attachments/accessories specified by the manufacture .
    N'utilisez que des accessoires spécifiés par le fabricant.

12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/apparatus, combination to avoid injury from tip-over.

Utilisez uniquement un chariot, stand, trépied, support ou table spécifiés par le fabricant ou vendu avec l'appareil. Quand un panier ou rack est utilisé, faites attention lorsque vous déplacez l'ensemble chariot / appareil, pour éviter d'éventuelles blessures en cas de chute.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
    Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes de temps.

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.
    Confiez toute réparation à un personnel qualif é. Une réparation est nécessaire lorsque l'appareil a été endommagé de quelque façon que ce cordon d'alimentation ou la fiche est endommagé, liquide a été renversé ou des objets sont tombés dans l'appareil, l'appareil a été exposé à la pluie ou à l'humidité, ne fonctionne pas normalement, ou s'il est tombé.

15. **WARNING:** The mains plug (appliance coupler) is used as disconnect device, the disconnect device shall remain readily operable.
    AVERTISSEMENT: *La fiche d'alimentation (appareil coupleur) est utilisé comme dispositif de déconnexion, le dispositif de déconnexion doit rester facilement accessible.*

16. No naked flame sources, such as lighted candles, should be placed on the apparatus.
    Aucune source de flamme nue, telle que des bougies allumées, ne doit être placé sur l'appareil

17. Protective earthing terminal. The apparatus should be connected to a mains socket outlet with a protective earthing connection.
    Borne de terre de protection. L'appareil doit être connecté à une prise secteur avec une prise de terre.

Overview

Thank you for purchasing Elura Amplifier products. Elura is a high performance custom installed product engineered for commercial sound installations. Each Elura product is manufactured to the highest quality standard using state of the art components and built for years of enjoyment.

Features

- Compact rack-mountable design
- Tabletop mixer amplifier with Mp3 player, FM radio and wireless audio connectivity
- Power output of 500W
- Speaker outputs of 70V or 100V and 4 Ohm, 8 Ohm, 16 Ohm
- Mp3 player with USB/TF input on front panel, IR remote control for Mp3 player, FM radio and wireless audio connectivity operation
- LED indicators for power, clip, protect and signal
- Mic1 is a balanced XLR input with dipswitch selection of phantom power on/off
- Mic ducking available on the XLR Mic input
- Mic2-3/Line1-2 switchable inputs with unbalanced 6.3mm inputs
- Line3-4 RCA inputs and RCA line outputs
- Front panel volume control for Mic1-3, Line1-4, bass/treble, and master
- Includes short-circuit, clip, overload, and high temp protection
- Handheld remote included
- FM antenna included
- AC110V power supply system

Front Panel
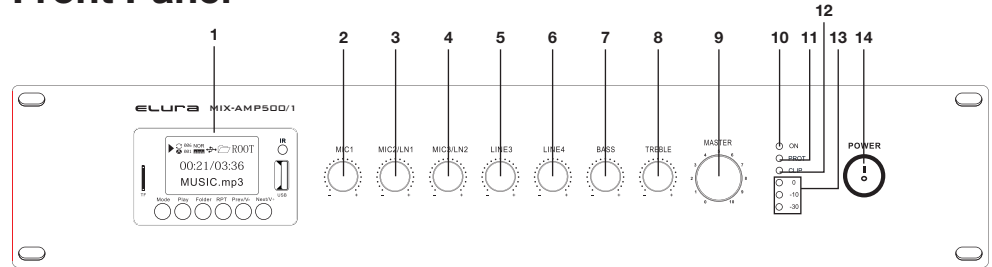
Rear Panel
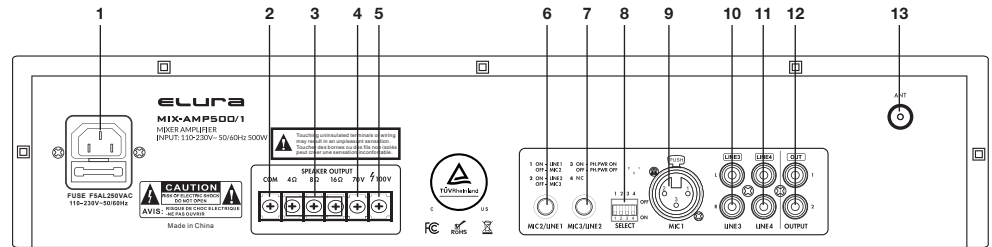
Front Panel

1. Mp3/FM/wireless audio media player module
2. Mic1 volume control
3. Mic2/Line input 1 volume control
4. Mic3/Line input 2 volume control
5. Line input 3 volume control
6. Line input 4 volume control
7. Bass control
8. Treble control
9. Master volume control
10. Power on indicator
11. Protection indicator in red
12. Clip indicator in yellow
13. Output level meters
14. Power on/off switch

Rear Panel

1. AC power socket and fuse
2. Speaker output COM (-)
3. Speaker output 4-8-16 Ohm (+)
4. Speaker output 70V (+)
5. Speaker output 100V (+)
6. Mic2/Line1 input
7. Mic3/Line2 input
8. Dipswitch selector
9. Mic1 input with mic ducking
10. Line 3 inputs
11. Line 4 inputs
12. Line outputs
13. FM antenna

1 ON – LINE1 OFF – MIC2	3 ON – PH.PWR ON OFF – PH.PWR OFF
2 ON – LINE2 OFF – MIC3	4 NC

Basic Connections

110V Power

70V Speaker

Microphone

CD Player

Mic Ducking on XLR input only
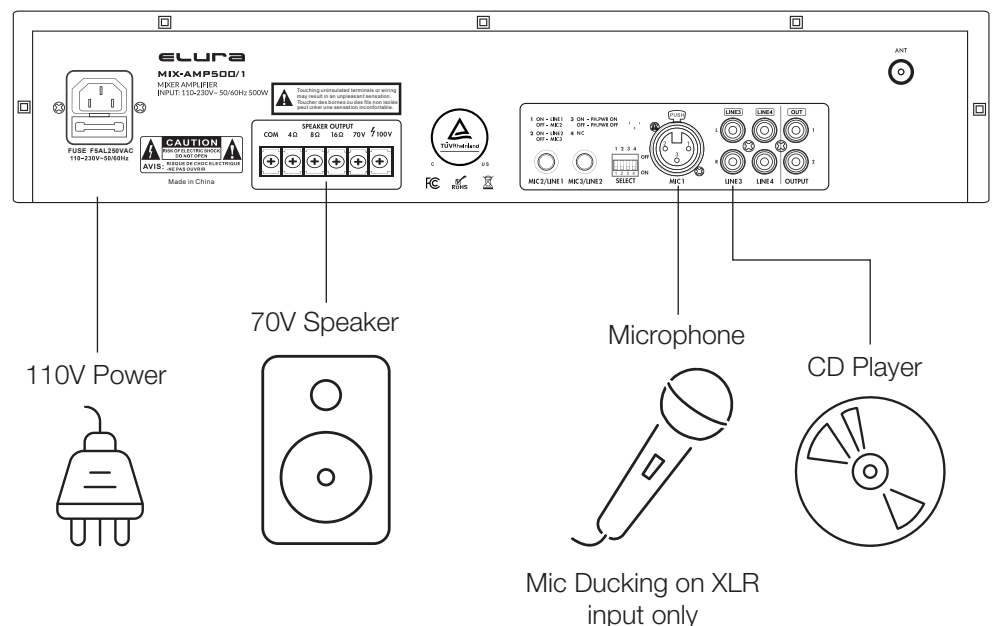
Output Connections

70V/100V Line System Connections

For 70V/100V line systems, connect the amplifier to the first speaker in the system using double-insulated speaker wire which is rated to handle the total output of the amplifier. Connect the "70V" or "100V" output terminal to the positive (+) connection of the speaker and "COM" output to the negative (-) connection of the speaker. Connect further speakers in parallel to the first speaker with all positive terminals and connected together and all negative terminals connected together as shown below.
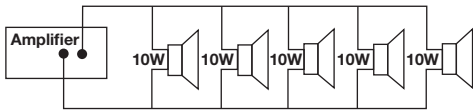

A 70V/100V line speaker system can comprise of many speakers connected together. The determining factor for how many speakers can be used in a single amplifier is the power rating. For most purposes, it is advised to connect as many speakers as needed with a combined wattage of no more than 80% of the amplifier's output power rating.

The terminals of a 70V/100V speaker are connected to a transformer and in some cases, this transformer may be "tapped" for different power ratings. The various taps can be used to adjust the wattage (and output volume) of each speaker in the system to help achieve the ideal total power requirement and sound level desired of the system for the amplifier.

Low Impedance Speaker Connections

These terminals offer 3 low impedance outputs 4Ω, 8Ω, 16Ω depending on your speaker connections. Please note that one wire only should be connected to COM screw and one wire to the selected speaker output.

Setup and Operation

- When all connections to the amplifier are made, turn all rotary controls down and switch on the power and the power "ON" LED will illuminate. Turn BASS and TREBLE controls to the 12 o'clock position (pointing straight up) and turn MASTER rotary control up part way for testing.

Speaker Connection Examples

70V Connection

4Ω Connection

8Ω Connection

16Ω Connection
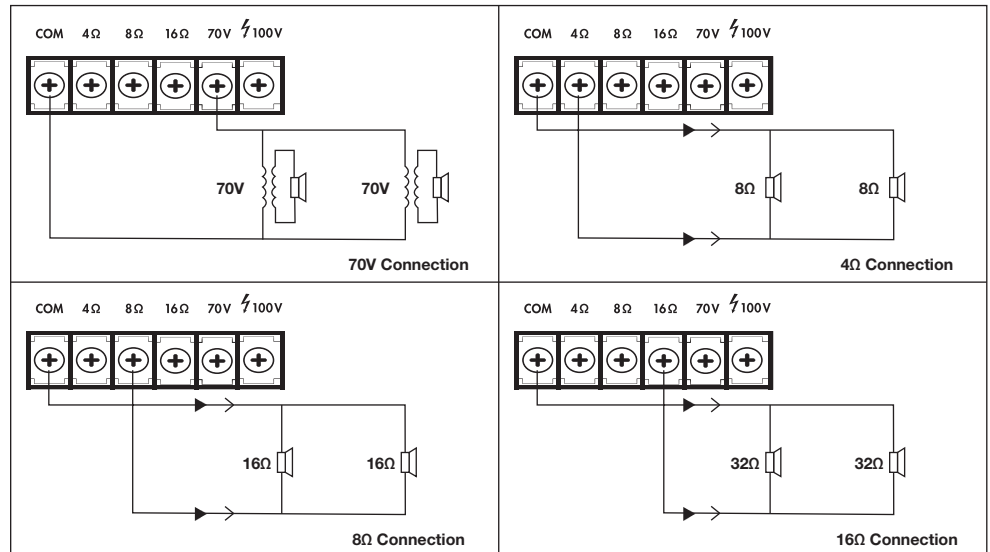
- Ensure a signal is being fed to Mic1 or Line inputs 1, 2, 3, or 4 and gradually increase the volume control for that channel until the output is heard through the speakers. Turn up the MASTER to the maximum required volume level and reduce the channel volume control if necessary.
- Note: The initial test can be made using the built-in USB/SD/FM audio player. The output of the amplifier is represented on the level meter LEDs and care should be taken that the Red "0" LED is only lit momentarily during use. Anything longer than a short flash of this LED may be indicating distortion or clipping of the output signal and the MASTER should be turned down.
- If a microphone is connected to Mic1 input, make sure it is switched on and if it requires phantom power, make sure dipswitch #3 is "ON". Gradually increase its volume control while speaking into the microphone until the desired volume level is achieved. The microphone volume should not be loud enough to cause feedback (squealing or howling noise).
- The MIX-AMP500/1 includes a ducking feature when speaking into Mic1, audio playback through channels 2-4 will be reduced in volume automatically.
- In addition to channel and MASTER volume controls, there are BASS and TREBLE EQ controls to adjust the tone of the overall output. At the 12 o'clock position, these controls have no effect to the signal (no boost or cut). Moving

the BASS control clockwise increases low frequencies in the audio, moving it counter clockwise will decrease the low frequencies. Likewise, moving the TREBLE control clockwise increases the high frequencies in the audio, while moving it counter clockwise will reduce the high frequencies. Adjust these EQ controls to suit your preference or compensate for the room acoustics.

Media Player
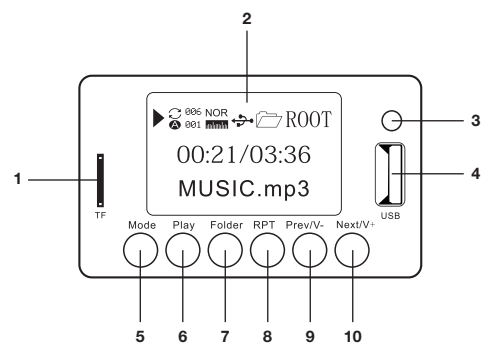
1. TF (TransFlash) or MicroSD
2. LED display
3. IR sensor
4. USB input
5. Mode to select Mp3/FM/wireless audio connectivity
6. Play
7. Folder
8. RPT repeat
9. Previous and volume - decrease
10. Next and volume + increase

The MIX-AMP500/1 has a built-in media player which includes Mp3/FM/wireless audio connectivity.

Front Panel Media Player Controls

- Mode – Use this button to toggle between wireless audio connectivity, USB/TF/MicroSD, and the built-in FM Tuner
- Volume Control – Press and hold the "Prev/V-" button to decrease the media player module's volume and press and hold "Next/V+" to increase the media player module's volume (Max=30). For most applications we recommend setting the volume to the maximum level and leaving it at that setting. The exception to this is when you would like to use the included remote control to adjust the volume of the media player module remotely.

Remote Control

The included remote control can be used for controlling the front panel media player. The remote control can adjust the volume levels of any media player source but can NOT adjust the overall amplifier master volume settings or adjust any sources other than those available on the built-in media player: wireless audio connectivity, USB, TF/MicroSD, and FM Tuner.
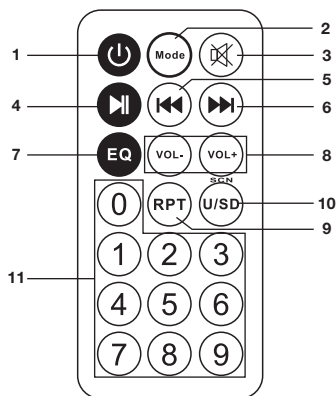
1. Power – Toggles the front panel media player On/Off
2. Mode - Toggles between wireless audio connectivity, USB, TF/MicroSD, and the built-in FM
3. Tuner
   Mute - Toggles the volume mute
4. On/Off.
   Play/Pause – Toggles between
5. Play/Pause
   Previous – Restarts the current track. Pressing this repeatedly will cycle through previously played
6. tracks
   Next – Skips to the next track. Pressing this repeatedly will cycle

7. through upcoming tracks
   EQ - Toggles among the preset EQ settings: Normal, Rock, Pop, Classical, Jazz, Country. The current setting appears at the top of the display
8. Vol-/Vol+ - Adjusts the volume level of the built-in media player. Using the remote control allows precise volume adjustments from levels 0 to 30. Pressing and holding a volume button will change the volume faster.
9. RPT (Repeat) – Toggles the track repeat function On/Off
10. U/SD – Toggles between USB and the TF/MicroSD card when both a USB and TF/MicroSD card source are present in the media player
11. Numeric Buttons – Entering a number will directly select a track by number. No enter key is necessary. To select track 13, enter 13 and wait and track 13 will start to play. If random (shuffle) is enabled, numeric entry will select random tracks.

Wireless Audio Pairing & Operation

Press the Mode button until seeing "BT" appear on the display. If no phone/tablet is currently connected, the message "BT Not Link" will appear. To pair a device, go to your device's wireless audio connectivity settings and select "Pair a New Device" or similar to search for available devices. The Elura MIX-AMP500/1 uses the default BT name of MIX-AMP500/1. Select this from your phone/tablet and complete the pairing process. In order to prevent unauthorized access to the wireless audio connectivity input, a 4-digit PIN code is required for pairing to your MIX-AMP500/1. The PIN code is 1234 and cannot be modified. Your phone/tablet is now ready to send its audio output to the MIX-AMP500/1. Play any audio content on your phone/tablet and it will play on the MIX-AMP500/1. For wireless audio connectivity operation, you can use your phone/tablet's volume control to adjust the volume levels. There will be three volume controls in operation that can each be adjusted: your phone/tablet volume, the MIX-AMP500/1 media player volume, and the MIX-AMP500/1 master volume.

Front Panel Controls for Wireless Audio Connectivity

- Play – Toggles between Play/Pause
- Folder – Toggles among the preset EQ settings: Normal, Rock, Pop, Classical, Jazz, Country. The current setting appears at the top of the display
- Repeat – Toggles the track repeat function On/Off
- Prev – Restarts the current track. Pressing this repeatedly will cycle through previously played tracks
- Next – Skips to the next track. Pressing this repeatedly will cycle through upcoming tracks

Remote Control Commands for Wireless Audio Connectivity

- Power – Toggles the front panel media player On/Off
- Mute – Toggles the volume mute On/Off. The current mute state will be visible in the top left of the built-in display.
- Play/Pause – Toggles between Play/Pause
- EQ – Toggles among the preset EQ settings: Normal, Rock, Pop, Classical, Jazz, Country. The current setting appears at the top of the display
- Prev – Restarts the current track. Pressing this repeatedly will cycle through previously played tracks
- Next – Skips to the next track. Pressing this repeatedly will cycle through upcoming tracks
- Repeat – Toggles the track repeat function On/Off
- U/SD – No function during wireless audio operation
- Numeric Buttons – No function during Bluetooth operation

FM Tuner Operation

The built-in FM Tuner can be used as a media source. Make sure to connect the supplied antenna or suitable 3rd party 75-ohm antenna to the Antenna connection on the rear of the MIX-AMP500/1. Press the Mode button to cycle between wireless audio connectivity, USB, TF/MicroSD, and the FM Tuner. When on the FM Tuner, you will see a frequency band display and a channel (station) indicator.

Front Panel Controls for the FM Tuner

- Play – Toggles between volume mute On/Off
- Folder – No function during FM Tuner operation
- Repeat – Initiates the auto-scan and store function to detect and store all tunable stations
- Prev – Press this button to cycle backwards through all stored stations
- Next – Press this button to cycle forwards through all stored stations

Remote Control Commands for the FM Tuner

- Power – Toggles the front panel media player On/Off
- Mute – Toggles the volume mute On/Off. The current mute state will be visible in the top left of the built-in display.
- Play/Pause – Toggles the volume mute On/Off. The current mute state will be visible in the top left of the built-in display.
- EQ – No function during FM Tuner operation
- Prev – Press this button to cycle backwards through all stored stations
- Next – Press this button to cycle forwards through all stored stations
- Repeat – Initiates the auto-scan and store function to detect and store all tunable stations
- U/SD – No function during FM Tuner operation
- Numeric Buttons – No function during FM Tuner operation. There is no direct entry feature to tune to a station.

USB, TF/MicroSD Media Player

The media player on the MIX-AMP500/1 can be used to play audio files stored on a FAT32 thumb drive or on a TF/MicroSD card. Playback is initiated automatically when a new USB or TF/MicroSD card is inserted. Playback can be controlled through either the front panel buttons or by using the included remote control. The front panel display will show the name of the currently playing track. If a USB or TF/MicroSD card is already inserted, press the Mode button to cycle between wireless audio, USB, TF/MicroSD, and the FM Tuner.

Front Panel Controls for the USB & TF/MicroSD Player

- Play – Toggles between Play/Pause
- Folder – Restarts the first track on the USB or TF/MicroSD Player
- Repeat – Toggles the track repeat function through various positions – repeat all, repeat track, random (shuffle)
- Prev – Restarts the current track. Pressing this repeatedly will cycle through previously played tracks. (Pressing and holding this button will lower the media player volume level)
- Next – Skips to the next track. Pressing this repeatedly will cycle through upcoming tracks. (Pressing and holding this button will raise the media player volume level)

Remote Control Commands for the USB & TF/MicroSD Player

- Power – Toggles the front panel media player On/Off
- Mute - Toggles the volume mute On/Off. The current mute state will be visible in the top left of the built-in display.
- Play/Pause – Toggles between Play/Pause
- EQ - Toggles among the preset EQ settings: Normal, Rock, Pop, Classical, Jazz, Country. The current setting appears at the top of the display
- Prev – Restarts the current track. Pressing this repeatedly will cycle through previously played tracks. Pressing and holding this button will fast forward the audio within the currently playing track.
- Next – Skips to the next track. Pressing this repeatedly will cycle through upcoming tracks. Pressing and holding this button will rewind the audio within the currently playing track.
- Repeat – Toggles the track repeat function through various positions – repeat all, repeat track, random (shuffle)
- U/SD – Toggles between USB and TF/MicroSD cards when both are present in the media player

- Numeric Buttons – Entering a number will directly select a track by number. No enter key is necessary. To select track 13, enter 13 and wait and track 13 will start to play. If random (shuffle) is enabled, numeric entry will select random tracks.

Remote Control Battery

The Remote Control uses a CR2025 button-cell battery that can be easily removed and changed from the rear, bottom of the remote by sliding the small cover off.

Specifications

Description	Mixer Amplifier with USB/TF/MicroSD/FM/Bluetooth
Rated Power Output	500 W
Speaker Outputs	100V or 70V & 4 Ohm-8 Ohm-16 Ohm
Connector	Mic 1 input by balanced XLR with phantom power with ch 2-4 ducking
	Mic/line switchable input 2-3 unbalanced 6.3mm jack
	Line 3-4 inputs by RCA; Line output by RCA
Input	Mic 1-3: 5-8mV, 600Ω; Line, 150-470mV, 10KΩ, unbalanced RCA
Line Out	0.775(0dBV)
Frequency Response	60Hz-15kHz(±3dB)
S/N Ratio	Line ≥ 85d8, Mic ≥ 72dB
THD	Less than 0.5%
Protection	Short-circuit, clip, overload and high temp protection
Accessories Included	Handheld remote & FM antenna
Remote Control Battery	CR2025
Power Consumption	650 W
Power Supply	AC110V; 50-60Hz
Dimension	19" (484mm) W x 16" (405mm) D x 3.5" (89mm) H
Weight	7.5kg (16.5lb)

Troubleshooting

No power LED on control panel	Ensure the AC power cord is in good condition and connected properly to an active AC outlet
	Check AC power connector fuse
	Ensure POWER switch is on
Power LED is on but no other LEDs and no output	Check input signals and condition of input connection leads
	Check MASTER, MIC, LINE IN or MEDIA controls are turned up
Power light and output LEDs lighting but no output	Check that the speaker output terminals are connected correctly & not shorted
	Check speakers are working (test on another amp if available)
Wireless Audio Connectivity cannot connect	Ensure that wireless audio is enabled on the sending device
	Ensure that the sending device is within wireless audio range (5-10m)
	If there are more than one wireless audio connectivity devices, check each one
No audio from connected Wireless Audio device	Ensure that volume controls are not turned down on sending device
	Check volume and Play/Pause buttons in case wireless audio is muted
USB player will not play audio from media	Press PLAY on transport controls
	Check that the memory device is connected properly (remove and re-insert)
	Check file types - standard Mp3 digital audio files required
	Check that the memory device works on a PC or Mac for standard playback
Output is very loud or distorted	Check that the level of the input signal is not too high
	Reduce MIC, LINE IN, MEDIA and/or MASTER level
	Ensure Hi-Z line level input(s) are not connected via MIC input

Output is working but at very low	Check that the input audio source level is not too low
	Increase MIC, LINE IN, MEDIA and/or MASTER level
	Check for low level recording of media files on USB
Feedback from microphone	Move microphone away from speakers and monitors
	Turn down MIC and/or MASTER level
Amplifier overheating	Ensure cooling vents are clear from debris and dust
	Check that 4-8Ω speakers are not connected to 70/100V terminals
	Ensure total 70/100V speaker wattage is lower than amplifier rating
	Ensure that 70/100V and 4-8Ω speakers are not both connected
	Ensure that total load connected to 4Ω or 8Ω output is not less than the rated connection

Product Warranty

The seller warrants the MIX-AMP500/1 free from defects in the material and workmanship for 2 years from the date of purchase from the seller or authorized dealer. Should this product fail to be in good working order within the warranty period, the seller, at its option repair or replace the unit, provided that the unit has not been subjected to accident, disaster, abuse, or any unauthorized modification. This warranty is offered by the seller for its buyer with direct transaction only. This warranty does not apply to products that have been abused, incorrectly installed, modified, disassembled and/or repaired by anyone other than Elura or our appointed repair facility.

A unit that fails under conditions other than those covered will be repaired at the current price of parts and labor in effect at the time of repair. Such repairs are warranted for 90 days from the day of reshipment to the buyer. If the unit is delivered by mail, customers agree to insure the unit or assume the risk of loss or damage in transit. Under no circumstances will a unit be accepted without a return authorization number.

The warranty is in lieu of all other warranties expressed or implied, including without limitations, any other implied warranty, all of which are expressly disclaimed.

Proof of sale may be required in order to claim warranty.

The content of this manual has been carefully checked and is believed to be accurate. However, the seller assumes no responsibility for any inaccuracies that may be contained in this manual. Also, the technical information contained herin regarding the MIX-AMP500/1 features and specifications are subject to change without further notice.