episode

PRODUCT MANUAL
EA-AMP-HYB-2D-1000
EA-AMP-HYB-2D-2000

REAL. LIFE. SOUND.

CONTENTS

CAUTION

Risk of Electrical Shock!
DO NOT OPEN!

ATTENTION ! RISQUE DE CHOC ! ÉLECTRIQUE PAS OUVRIR !

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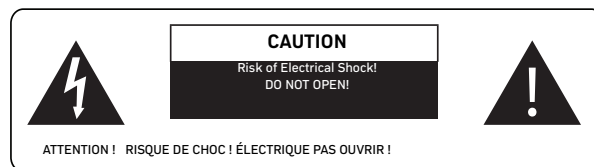
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time. 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.
14. This product employs a Class I (or grounded) construction and shall be connected to a mains socket outlet with a protective earthed (or ground) connection.
15. DO NOT EXPOSE THIS EQUIPMENT TO DRIPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.
16. TO COMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER SUPPLY CORD PLUG FROM THE AC RECEPTACLE.
17. THE MAIN PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.
18. **CAUTION:** TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

CAUTION

Risk of Electrical Shock!
DO NOT OPEN!

ATTENTION !   RISQUE DE CHOC ! ÉLECTRIQUE PAS OUVRIR !

⚡	Le flash de foudre avec le symbole de pointe de flèche, dans une triangle équilaterale, est prévu pour alerter l'utilisateur à la présence de la tens ion dangereuse non isolée dans la clôture du produit qui peut être de la grandeur suffisante pour constituer un risque de décharge électrique aux personnes..
!	Le point d'exclamation dans une triangle équilaterale est prévu pour alerter l'utilisateur à la présence des instructions importantes de fonctionnement et d'entretien (entretien) dans la littérature accompagnant l'appareil.

CONSIGNES DE SÉCURITÉ IMPORTANTES

Avertissement: Pour réduire le risque d' incendie ou un choc électrique, ne pas exposer cet appareil à la pluie ou à l'humidité.

1. Lisez ces instructions.
2. Conservez ces instructions.
3. Respectez tous les avertissements.
4. Suivez toutes les instructions.
5. Ne pas utiliser cet appareil près de l'eau.
6. Nettoyer avec un chiffon sec.
7. Ne pas bloquer les ouvertures de ventilation . Installer conformément aux instructions du fabricant.
8. Ne pas installer près de sources de chaleur telles que des radiateurs , registres de chaleur, poêles ou autres appareils (incluant les amplificateurs) qui produisent de la chaleur.
9. Ne pas contourner le dispositif de sécurité de la fiche polarisée ou de mise à la terre . Une fiche polarisée possède deux lames dont une plus large que l'autre . Une fiche de terre a deux lames et une troisième broche de mise à la terre . La lame large ou la troisième broche sont fournies pour votre sécurité . Si la fiche fournie ne rentre pas dans votre prise, consultez un électricien pour le remplacement de la prise obsolète.
10. Protégez le cordon d'alimentation ne soit piétiné ou pincé, en particulier au niveau des fiches , des prises de courant et le point de sortie de l'appareil.
11. N'utilisez que des fixations / accessoires spécifiés par le fabricant.
12. Utilisez uniquement avec le chariot, le trépied, le support ou la table spécifiépar le fabricant, ou vendu avec l'appareil. Quand un chariot est utilisé, faites attention en déplaçant l'ensemble chariot/appareil pour éviter les blessures en cas de renversement.
13. Débranchez cet appareil pendant les orages ou lorsqu'il n'est pas utilisépendant de longues périodes de time. Refer à un technicien qualifié personnel . Une réparation est nécessaire lorsque l'appareil a étéendommagé de quelque façon que ce cordon d' alimentation ou la prise estendommagé , du 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 .
14. Ce produit utilise une classe I (ou la terre) construction et doit être raccordé à une prise de courant mise à la terre avec une protection (ou masse) .
15. NE PAS EXPOSER CET APPAREIL À éclaboussures et s'assurer qu'aucun OBJET REMPLI DE LIQUIDE , TEL QU'UN VASE , sont placés sur le MATÉRIEL .
16. Pour déconnecter totalement cet appareil du secteur, débranchez la CORDON D'ALIMENTATION fiche de la prise secteur.
17. LA PRISE PRINCIPALE DU CORDON D'ALIMENTATION doit rester facilement accessible .
18. **ATTENTION:** POUR RÉDUIRE LE RISQUE DE CHOC ÉLECTRIQUE, NE PAS RETIRER. NO réparable par l'utilisateur pièces à l'intérieur. CONFIER L'ENTRETIEN DE PERSONNEL QUALIFIÉ .

INTRODUCTION

Thank you for purchasing Episode® Amplifiers. This amplifier is a 2 channel (70V or 8ohm selectable on each) designed for applications requiring two channel stereo audio, or two mono zones of audio with different sources or levels. Channels can also be bridged to increase output power and send a singular mono signal.

IP/OVRC CONTROL

Connect the amplifier to a LAN with internet access to activate an OvrC connection. Create a new account at www.OvrC.com, or log into an existing account. Select "Add a Device" and enter the device's MAC address and serial number (this information can be found next to the service tag on the product). If OvrC locates the device, directions to continue setup will be displayed.

The local UI can be accessed without OvrC by entering the IP address into a web browser. IP address can be displayed on the front panel via toggling to the "device details" menu. Default login information is shown below:

- Username: episode
- Password: episode

Popular Control System and RS-232 drivers can be found via the product support tab.

CONTENTS

- 1 x EA-AMP-HYB-2D-1000/2000 Amplifier
- 1 x Detachable 6ft IEC Power Cable
- 2 x Mounting Ears for Amplifier
- 4 x Removable Feet
- 1 x Quick Start Guide

TOOLS

- 2.0mm slotted Flathead Screwdriver
- Wire Strippers

SPEAKER RECOMMENDATION

This amplifier can be used with 70V or 8ohm loudspeakers, so long as the individual channel output is configured correctly. Use any combination of speakers where the sum of the wattage does not exceed the rated wattage of the speaker output, and the system impedance is not less than 2ohms. For landscape system design configuration, please see the Episode outdoors brand page.

FRONT PANEL
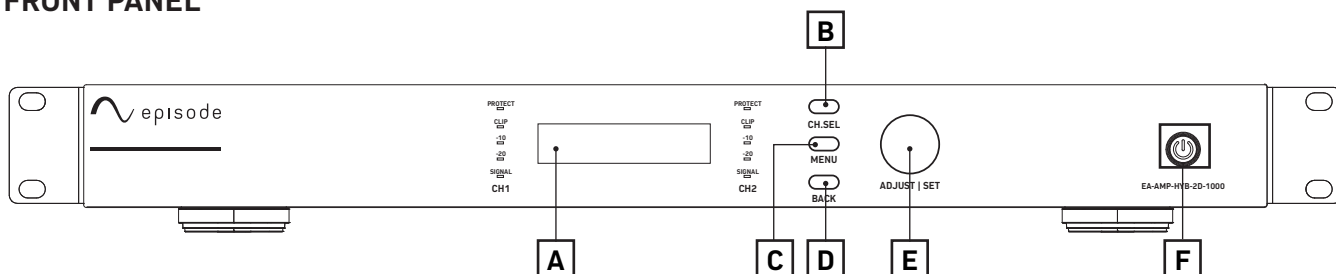
A. **Display Panel**
    Displays System Information
B. **Channel Select**
    Press to select the input channel
C. **Menu Select**
    Press to cycle through system menus

D. **Back Button**

Press to navigate back a step in the system menu

E. **Level Adjustment/Selection Button**

Turn to adjust system levels, press to select

F. **Power Switch with LED Indicator**

Momentary switch for manual control of standby power mode
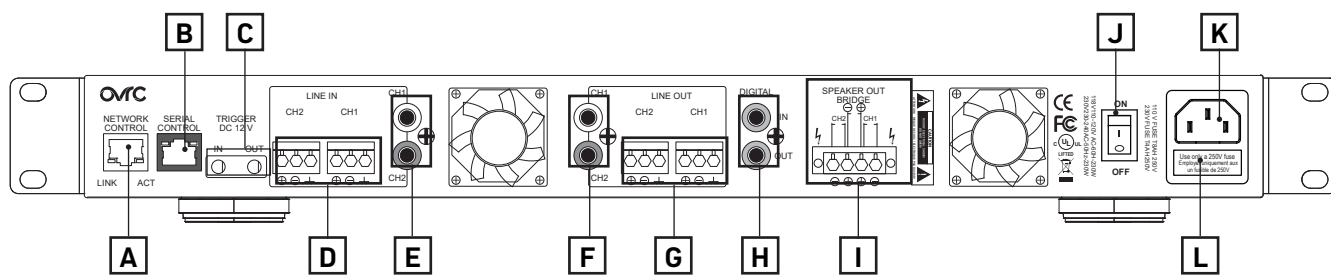
BLUE – On

RED – Standby

REAR PANEL

A. **Ethernet Port**

RJ45 port for connecting an Ethernet Cat5e/6 cable for IP control of the amplifier.

B. **RS-232**

To communicate with a control system or PC for serial control of the amplifier.

C. **12 Volt Trigger IN and OUT**

When 4.5-15 Volts DC are applied to 12V IN, amplifier will turn on. When voltage is dropped, amplifier turns back off. 12V OUT allows other equipment to be controlled from the same 12V signal.

D. **Balanced Inputs 1 & 2**

Set-screw connections for sources with balanced output

E. **Unbalanced Inputs 1 &2**

Unbalanced RCA input connections for connection of sources

F. **Unbalanced Loop Out 1 & 2**

Unbalanced RCA loop out for connection to other amplifiers

G. **Balanced Loop Out 1 & 2**

Set-screw balanced loop out for connection to other amplifiers

H. **Digital Input/Output ports**

Digital input and output ports for Digital sources

I. **Speaker Terminals**

Note proper positive and negative connections for operating in bridge mode when desired

J. **Power Switch**

Main amplifier power switch

K. **IEC Power Cord**

Detachable power for amplifier

L. **AC Fuse**

Replaceable main power fuse

SOURCE CONNECTIONS

Balanced and unbalanced connections are available as shown below. Line out connections may be used to send audio signals to other equipment.
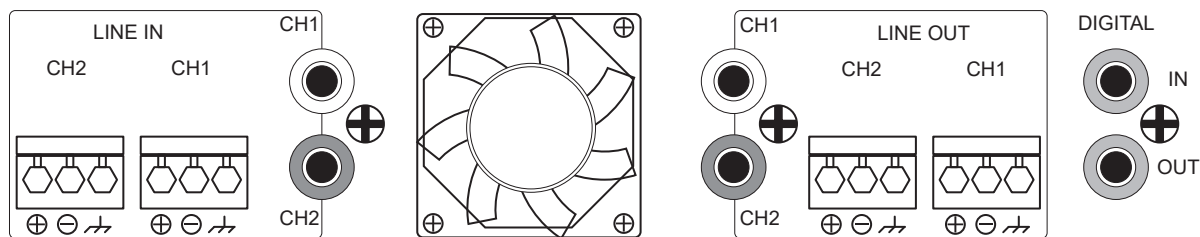
Input mode, source, pre-out, and gain adjustments can all be made via the GUI home screen.
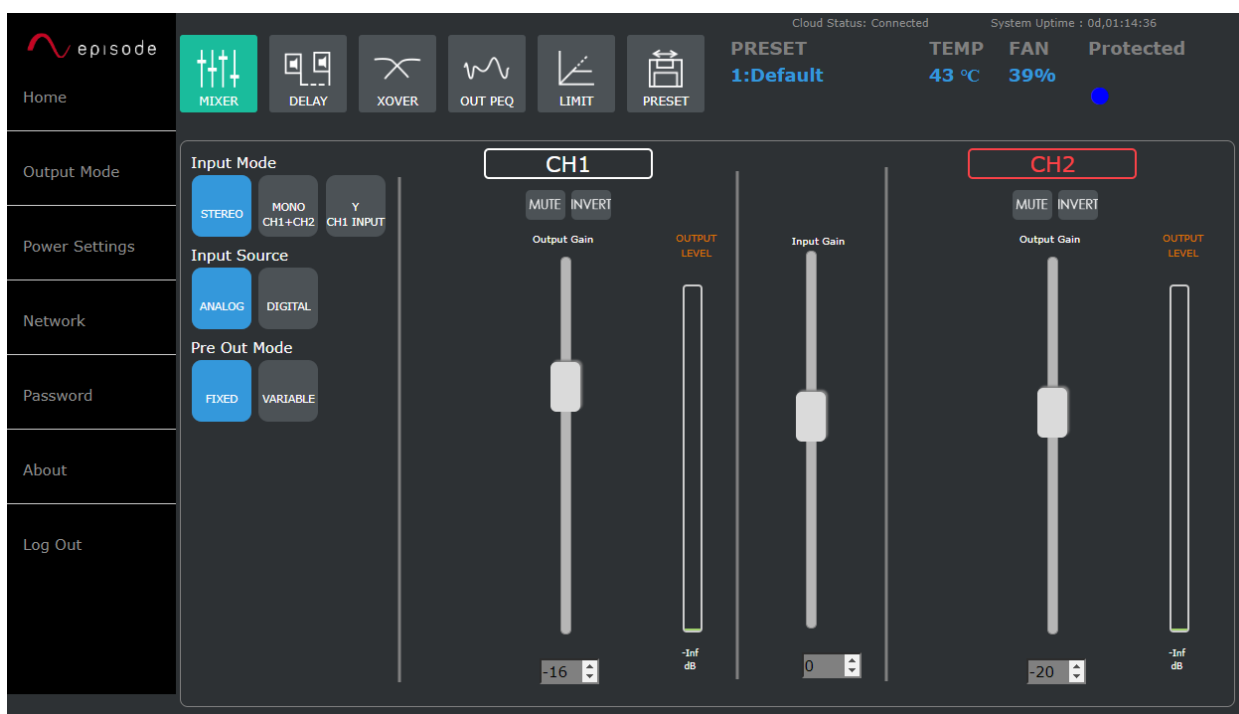
Sliding and precise delay adjustment is also available by channel via the home setup screen.
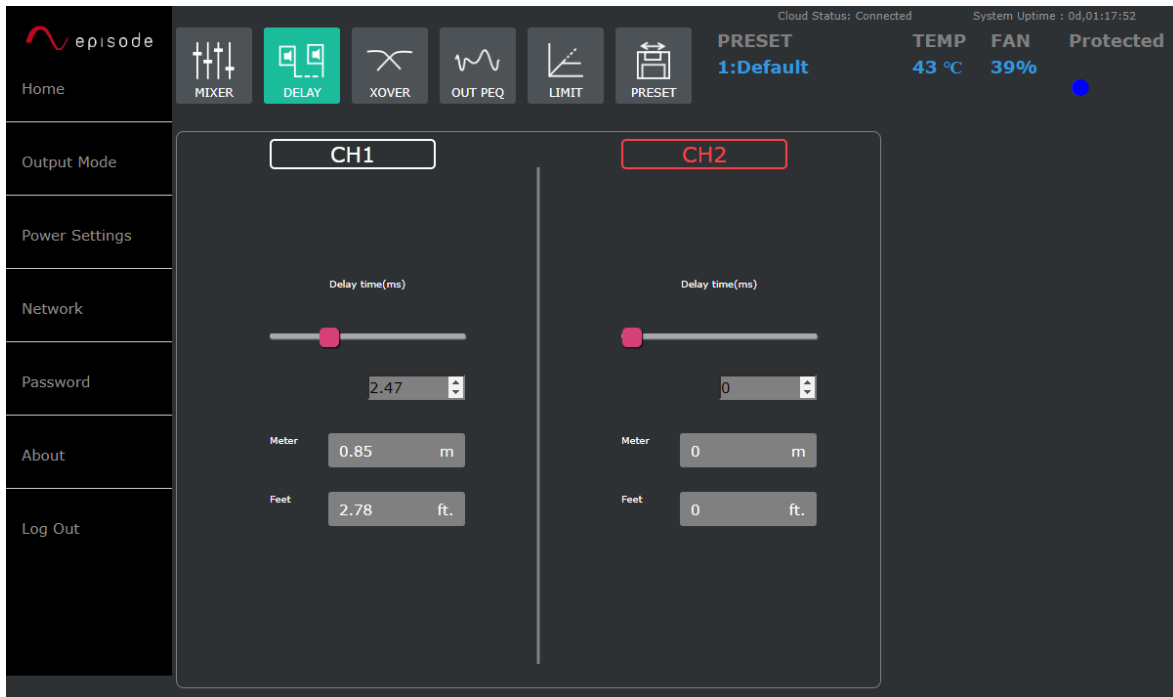
SPEAKER CONNECTIONS AND OUTPUT MODE
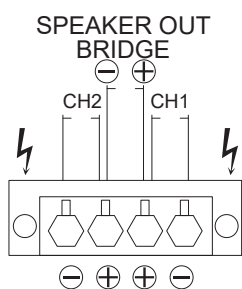
Use 14 or 16 gauge stranded two-conductor speaker wire. Connect the appropriate conductor to each screw terminal, observing correct polarity. Bridged markings are also shown to the left. Use burial rated wire as necessary for outdoor applications.
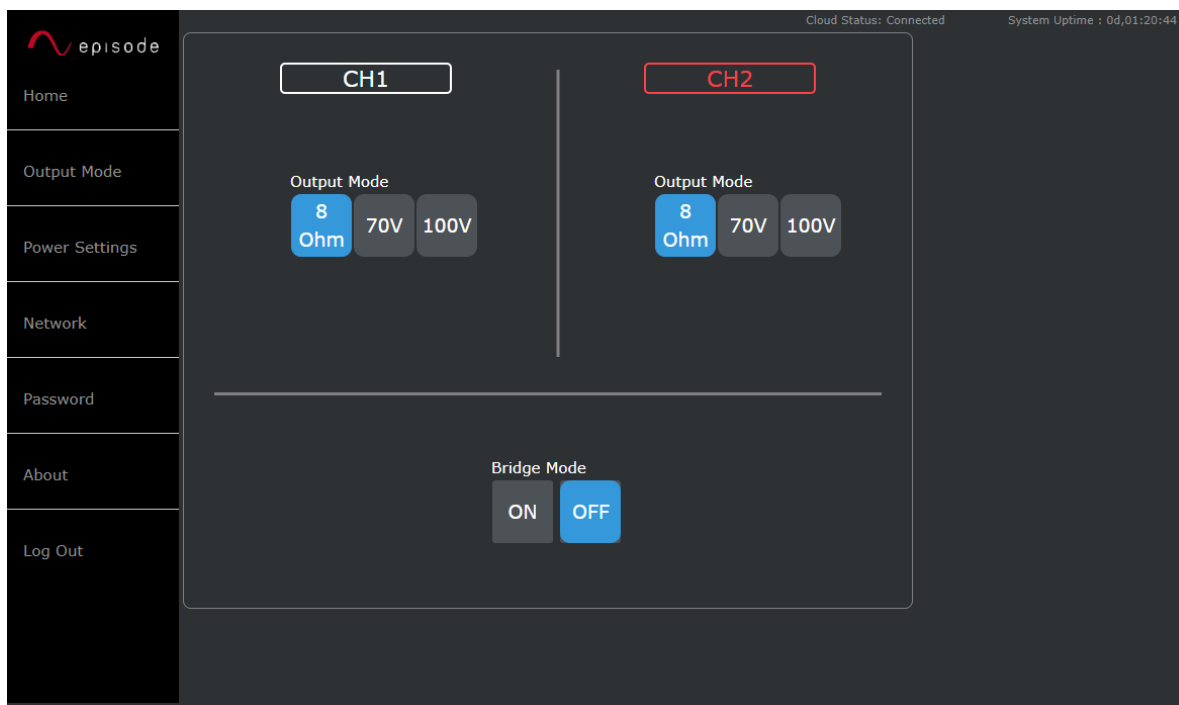
AMPLIFIER POWER CONTROL

Front Panel Power Button

When the amplifier is powered ON, the power swoosh will illuminate solid blue. When it is in STAND-BY, the power button will be red.

Resetting the Amplifier

Press and hold the power button for 10 seconds once the receiver is powered on for a "soft" reset. This will reset login information.

Press and hold for 20 seconds to initiate a factory reset. The front panel lights will flash indicating the reset is in progress. This will reset all settings including DSP, channel levels and input names.

12 Volt Trigger

The EA-AMP-HYB line of amplifiers are equipped with 12V DC trigger inputs and outputs for trigger control and daisy chain control of more than one amplifier.

To utilize the 12V DC trigger function, attach a mono mini cable between the 12V trigger output of the controlling device and the 12V DC TRIGGER IN port of the amplifier. Connect other devices to the OUT port on the amplifier using a mono-mini cable.

	Cable	3.5mm Mono-mini
	Tip	4.5-15V DC (constant during use)
	Sleeve	Ground/Common

Audio Sense

If Audio Sense is enabled via setup through the web GUI, the amplifier will turn on when an audio signal is detected. The unit will enter standby mode if no signal is detected after 15 minutes.

VOLUME CALIBRATION

To calibrate source input gain and inline volume control level:

1. Connect all speaker and audio source wiring. Connect power to the amplifier.
2. (If applicable) Set all volume controls to their maximum volume setting.
3. Set each output level adjustment knob to 50% and set the input level for unused channels to minimum.
4. Power on the amplifier and the source to be used. Play audio typical of what will be played in the area. Set the source volume level to half. If the audio becomes distorted, turn the volume down until audio is clear.
5. Set the level adjustment for the area to a level where the volume is slightly above normal listening level. If the audio becomes distorted, experiment with changes to the source volume and the LEVEL adjustment knob until audio is clear.

Calibration Setup Tips

Poor Calibration may cause the following issues. Use the tips below to identify and correct these problems:

TROUBLESHOOTING

Distorted Audio at Normal Volume

If the LEVEL adjustment for a zone is set too high to compensate for low source volume, distortion can occur in the form of background noise or poor audio quality. This will be heard as a steady hissing or humming behind music, clipping of signal, or distortion of highs and lows.

To eliminate this issue, re-adjust the volume levels by starting at baseline settings and re-adjusting the final volume so that a maximum comfortable volume level can be reached with no distortion while using the source volume or inline control.

Inline Volume "Thump"

If inline volume thumps, the amplifier and source volume levels are set too high. Inline volume controls should be calibrated so that they are one or two adjustment levels away from their maximum setting when audio is at the normal listening level. This will leave one to three settings above normal level for use if a little extra volume is needed.

SPECIFICATIONS

EA-AMP-HYB-2D-1000	
Channels	2-channel
Power Output	300W per channel @ 8 ohm (1000W bridged)
	500W per channel @ 4 ohm (2000W bridged)
	700w per channel @ 2 ohm
	500W per channel @ 70V
	500W per channel @100V (230VAC only)
Input Sensitivity	1.4 Vrms, max power
Input Impedance	RCA Analog input: 10kΩ
	Balanced Analog input: 20k Ω
Signal to Noise Ratio	101dB A-weighetd @ 1.4 Vms & 4Vms input max
Total Harmonic Distortion (THD)	Less than 1%
Frequency Response	± 2dB at ⅛th power (20 Hz to 20kHz)
Inputs	Network: RJ-45 jack, 10/100Mbps
Audio Inputs / Outputs	**Bal. Analog Audio:** 2 × 3-pos. Phoenix-style pluggable screw term. block **Analog RCA:** White jack (L. Ch), Red jack (R. CH) **Spkr. Output:** 2 × 3 pos. Phoenix-style pluggable screw term. block (12-18 AWG)
12 Volt Trigger	3.5 mm Mono Jack
Dimensions (Inches)	17"W x 1.73"H x 14"D
Rack Spacing	1U
Input Voltage	115V AC/230V AC
Weight	12 lbs
Certification	Meets FCC Part 15, UL EN60065
AC Power Consumption	230W Typical 1100W Max

SPEAKER PRESETS

Amplifiers come with a preloaded bank of presets noted in the table below. This includes full system presets and DSP settings for any landscape speaker when used in combination with ES-LS-BSUB-12 or ES-LS-HSUB-10.

		CHANNEL 2					
		LS-SAT-4 (70V)	LS-SAT-6 (70V)	LS-SAT-8 (70V)	LS-SAT-4 (8Ω)	LS-SAT-6 (8Ω)	LS-SAT-8 (8Ω)
CHANNEL 1	LS-SAT-4 (70V)	(2) LS4SATS					
	LS-SAT-6 (70V)		(3) LS6SATS				
	LS-SAT-8 (70V)			(4) LS8SATS			
	LS-SAT-4 (8Ω)				(17) LS4SAT_8		
	LS-SAT-6 (8Ω)					(18) LS6SAT_8	
	LS-SAT-8 (8Ω)						(19) LS8SAT_8
	LS-HSUB-10 (8Ω)	(5) ST4_HS10	(6) ST6_HS10	(7) ST8_HS10	(8) S4HS10_8	(9) S6HS10_8	(10) S8HS10_8
	LS-BSUB-12 (8Ω)	(11) ST4_SB12	(12) ST6_SB12	(13) ST8_SB12	(14) S4SB12_8	(15) S6SB12_8	(16) S8SB12_8

PRESETS ON UNIT OUT OF BOX			
Preset#	Preset Name	Output Voltage	Speaker Hookup
1	Default	8Ω	Flat
		8Ω	Flat
2	LS4SATS	70V	SAT 4
		70V	SAT 4
3	LS6SATS	70V	SAT 6
		70V	SAT 6
4	LS8 SATS	70V	SAT 8
		70V	SAT 8
5	ST4_HS10	8Ω	HARDSCAPE 10"
		70V	SAT 4
6	ST6_HS10	8Ω	HARDSCAPE 10"
		70V	SAT 6
7	ST8_HS10	8Ω	HARDSCAPE 10"
		70V	SAT 8
8	S4HS10_8	8Ω	HARDSCAPE 10"
		8Ω	SAT 4
9	S6HS10_8	8Ω	HARDSCAPE 10"
		8Ω	SAT 6
10	S8HS10_8	8Ω	HARDSCAPE 10"
		8Ω	SAT 8
11	ST4_SB12	8Ω	BURIAL 12"
		70V	SAT 4
12	ST6_SB12	8Ω	BURIAL 12"
		70V	SAT 6
13	ST8_SB12	8Ω	BURIAL 12"
		70V	SAT 8
14	S4SB12_8	8Ω	BURIAL 12"
		8Ω	SAT 4

PRESETS ON UNIT OUT OF BOX			
Preset#	**Preset Name**	**Output Voltage**	**Speaker Hookup**
15	S6SB12_8	8Ω	BURIAL 12"
		8Ω	SAT 6
16	S8SB12_8	8Ω	BURIAL 12"
		8Ω	SAT 8
17	LS4SAT_8	8Ω	SAT 4
		8Ω	SAT 4
18	LS6SAT_8	8Ω	SAT 6
		8Ω	SAT 6
19	LS8SAT_8	8Ω	SAT 8
		8Ω	SAT 8

To mix different LS-SAT models between channel 1 and 2, please see the preset configuration table below. Each parameter can be accessed and implemented via the local UI. Parameters for each reference configuration can be found in the support tab.

		CHANNEL 2					
		LS-SAT-4 (70V)	LS-SAT-6 (70V)	LS-SAT-8 (70V)	LS-SAT-4 (8Ω)	LS-SAT-6 (8Ω)	LS-SAT-8 (8Ω)
CHANNEL 1	LS-SAT-4 (70V)	(2) LS MIX4_6					
	LS-SAT-6 (70V)		(3) LS MIX4_8				
	LS-SAT-8 (70V)			(4) LS MIX6_8			
	LS-SAT-4 (8Ω)						
	LS-SAT-6 (8Ω)						
	LS-SAT-8 (8Ω)						
	LS-BSUB-12 (8Ω)						
	LS-BSUB-10 (8Ω)						

PRESET GROUP B				
Preset#	**Preset Name**	**Channel**	**Voltage**	**Speaker Hookup**
1	Default	1	8Ω	Flat
		2	8Ω	Flat
2	LS MIX4_6	1	70V	SAT 4
		2	70V	SAT 6
3	LS MIX4_8	1	70V	SAT 4
		2	70V	SAT 8
4	LS MIX6_8	1	70V	SAT 6
		2	70V	SAT 8

To use any landscape speaker and ES-LS-BSUB-8 or ES-LS-BSUB-10, please see the configuration table below. Each parameter can be accessed and implemented via the local UI. Parameters for each reference configuration can be found in the support tab.

		CHANNEL 2					
		LS-SAT-4 (70V)	LS-SAT-6 (70V)	LS-SAT-8 (70V)	LS-SAT-4 (8Ω)	LS-SAT-6 (8Ω)	LS-SAT-8 (8Ω)
CHANNEL 1	LS-SAT-4 (70V)	(2) LS4SATS					
	LS-SAT-6 (70V)		(3) LS6SATS				
	LS-SAT-8 (70V)			(4) LS8SATS			
	LS-SAT-4 (8Ω)				(17) LS4SAT_8		
	LS-SAT-6 (8Ω)					(18) LS6SAT_8	
	LS-SAT-8 (8Ω)						(19) LS8SAT_8
	LS-BSUB-8 (8Ω)	(5) ST4_SB8	(6) ST6_SB8	(7) ST8_SB8	(8) S4SB8_8	(9) S6SB8_8	(10) S8SB8_8
	LS-BSUB-10 (8Ω)	(11) ST4_SB10	(12) ST6_SB10	(13) ST8_SB10	(14) S4SB10_8	(15) S6SB10_8	(16) S8SB10_8

PRESET GROUP C				
Preset#	**Preset Name**	**Channel**	**Output Voltage**	**Speaker Hookup**
1	Default	1	8Ω	Flat
		2	8Ω	Flat
2	LS4SATS	1	70V	SAT 4
		2	70V	SAT 4
3	LS6SATS	1	70V	SAT 6
		2	70V	SAT 6
4	LS8 SATS	1	70V	SAT 8
		2	70V	SAT 8
5	ST4_SB8	1	8Ω	BURIAL 8"
		2	70V	SAT 4
6	ST6_SB8	1	8Ω	BURIAL 8"
		2	70V	SAT 6
7	ST8_SB8	1	8Ω	BURIAL 8"
		2	70V	SAT 8
8	S4SB8_8	1	8Ω	BURIAL 8"
		2	8Ω	SAT 4
9	S6SB8_8	1	8Ω	BURIAL 8"
		2	8Ω	SAT 6
10	S8SB8_8	1	8Ω	BURIAL 8"
		2	8Ω	SAT 8
11	ST4_SB10	1	8Ω	BURIAL 10"
		2	70V	SAT 4

PRESET GROUP C				
Preset#	Preset Name	Channel	Output Voltage	Speaker Hookup
12	ST6_SB10	1	8Ω	BURIAL 10"
		2	70V	SAT 6
13	ST8_SB10	1	8Ω	BURIAL 10"
		2	70V	SAT 8
14	S4SB10_8	1	8Ω	BURIAL 10"
		2	8Ω	SAT 4
15	S6SB10_8	1	8Ω	BURIAL 10"
		2	8Ω	SAT 6
16	S8SB10_8	1	8Ω	BURIAL 10"
		2	8Ω	SAT 8
17	LS4SAT_8	1	8Ω	SAT 4
		2	8Ω	SAT 4
18	LS6SAT_8	1	8Ω	SAT 6
		2	8Ω	SAT 6
19	LS8SAT_8	1	8Ω	SAT 8
		2	8Ω	SAT 8

WARRANTY

2-Year Limited Warranty

Episode® Amplifiers have a 2-Year Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products that have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to a designated service center with an assigned return authorization (RA) number. Contact technical support at support@episodeaudio.com for an RA number.

CONTACTING TECHNICAL SUPPORT

866.838.5052

support@episodeaudio.com

episode®