

A860 Multi-Channel Amplifier

Owner's Manual



BLUESOUND
PROFESSIONAL

IMPORTANT SAFETY INSTRUCTIONS

- **Read instructions** - All the safety and operating instructions should be read before the product is operated.
- **Retain instructions** - The safety and operating instructions should be retained for future reference.
- **Heed Warnings** - All warnings on the product and in the operating instructions should be adhered to.
- **Follow Instructions** - All operating and use instructions should be followed.
- **Cleaning** - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.
- **Attachments** - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
- **Water and Moisture** - Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- **Accessories** - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
-  **Cart** - A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.
- **Ventilation** - Slots and openings in the cabinet are provided for ventilation to ensure reliable operation of the product and to protect it from overheating. 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.
- **Power Sources** - This product should be operated only from the type of power source indicated on the marking label and connected to a MAINS socket outlet with a protective earthing connection. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- **Power-Cord Protection** - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
- **Mains Plug** - Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- **Outdoor Antenna Grounding** - If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- **Lightning** - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
- **Power Lines** - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- **Overloading** - Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- **Flame Sources** - No naked flame sources, such as lighted candles, should be placed on the product.
- **Object and Liquid Entry** - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- **Headphones** - Excessive sound pressure from earphones and headphones can cause hearing loss.
- **Damage Requiring Service** - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - When the power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - If the product has been dropped or damaged in any way.
 - When the product exhibits a distinct change in performance-this indicates a need for service.
- **Replacement Parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **Battery Disposal** - When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- **Safety Check** - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- **Wall or Ceiling Mounting** - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

WARNING



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.



CAUTION REGARDING PLACEMENT

To maintain proper ventilation, be sure to leave a space around the unit (from the largest outer dimensions including projections) than is equal to, or greater than shown below.

- Left and Right Panels: 10 cm
- Rear Panel: 10 cm
- Top Panel: 10 cm

Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

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 is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

The apparatus should only be used in moderate climates.

FCC STATEMENT

This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.

CAUTION

- Changes or modifications to this equipment not expressly approved by Bluesound Professional for compliance could void the user's authority to operate this equipment.
- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
 - 1 this device may not cause harmful interference, and
 - 2 this device must accept any interference received, including interference that may cause undesired operation.
- This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 - 1 This device may not cause interference.
 - 2 This device must accept any interference, including interference that may cause undesired operation of the device.
- Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
 - 1 The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
 - To prevent electric shock, match wide blade of plug to wide slot, fully insert.
 - Marking and rating plate can be found at the rear panel of the apparatus.
 - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.
 - Mains plug is used as disconnect device and it should remain readily operable during intended use. In order to disconnect the apparatus from the mains completely, the mains plug should be disconnected from the mains socket outlet completely.
 - Battery shall not be exposed to excessive heat such as sunshine, fire or the like.
 - Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
 - An appliance with a protective earth terminal should be connected to a mains outlet with a protective earth connection.
 - Operating temperature: 0~35 degrees

RESPONSIBLE PARTY

Lenbrook International
633 Granite Court
Pickering, ON L1W 3K1
Canada
Tel: 1 905 8316555

MPE REMINDER

To satisfy FCC/IC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

IF IN DOUBT CONSULT A COMPETENT ELECTRICIAN.



This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 2004/108/EC.

NOTES ON ENVIRONMENTAL PROTECTION



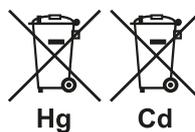
At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging point this out.



The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials, or other forms of recycling of old products, you are making an important contribution to the protection of our environment.

Your local administrative office can advise you of the responsible waste disposal point.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES



(DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION) (FOR EUROPEAN CUSTOMERS ONLY)

Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste.

End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.

INTRODUCTION

GETTING STARTED

WHAT'S IN THE BOX

Packed with your A860 you will find

- Two detachable mains power cord
- 10 pieces of 6-position terminal block (for INPUT/OUTPUT)
- 2 pieces of 4-position terminal block (for SPEAKERS)
- 1 piece of 4-position terminal block (for 12V TRIGGER)
- 4 pieces of feet with mounting screws
- Quick Setup Guide

QUICK START

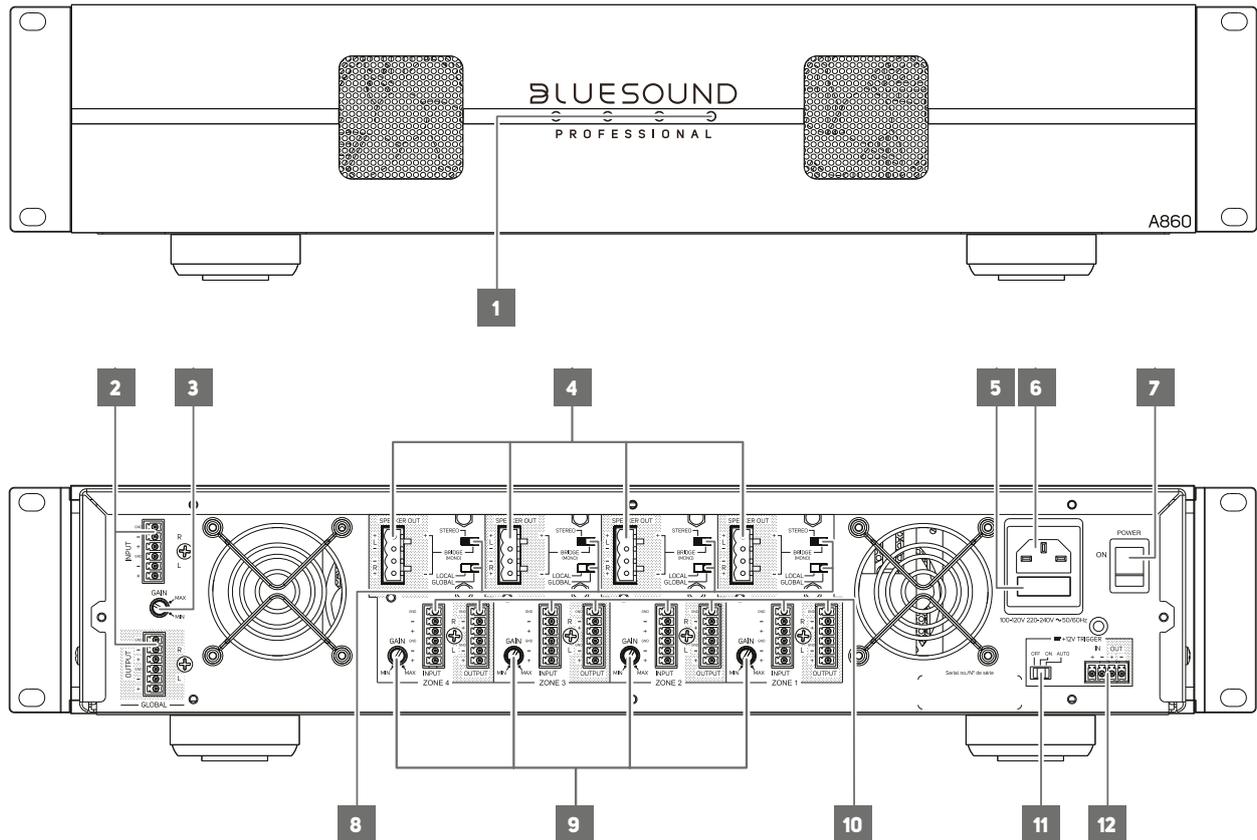
Refer to the supplied A860 Quick Setup Guide for basic instructions in setting up your new Bluesound Professional A860. The following important notes must also be observed when setting up your A860.

IMPORTANT SETUP NOTES

- Before setting up or making connections, ensure that the A860 and other devices to be connected to A860 are unplugged or powered down.
- Connect external speaker cables to supplied SPEAKER terminal block ensuring that the connections match A860's Zone SPEAKER OUT terminal markings.
- Bare wire or loose strands from the speaker cables must not touch the rear panel or other speaker terminals.
- After installing the external speaker cables to the supplied SPEAKER terminal blocks, plug in the wired up SPEAKER terminal blocks to corresponding ZONE (ZONE 1- 4) speaker terminals of A860.
- Connect corresponding end of the AC power cord to A860's AC mains input and the AC power cord's plug connected to mains power outlet.
- Set the POWER switch at the rear panel to "ON" setting (TRIGGER OFF/ ON/AUTO switch set to OFF position). Zone channels with active input signal will have their corresponding Zone channel LED indicators illuminated.

SAVE THE PACKAGING

Please save the box and all of the packaging in which your A860 arrived. Should you move or otherwise need to transport your A860, this is by far the safest container to do so. We've seen too many otherwise perfect components damaged in transit for lack of a proper shipping carton, so please: Save that box



ATTENTION!

Please ensure that the A860 is powered off or unplugged from the mains power outlet before making any connections. It is also advisable to power down or unplug all associated components while making or breaking any signal or AC power connections.

1 ZONE 1 – 4 LED INDICATORS

- ZONE input channels with active source or input signal will have their corresponding ZONE LED indicators illuminated in blue.
- If there is no active source or input signal connected to a particular ZONE, the corresponding ZONE LED indicator will not light up.

IMPORTANT NOTICE

If the selected source is GLOBAL and there is an active source at GLOBAL's INPUT terminals, all four (ZONE 1-4) Zone LED indicators will illuminate at the same time.

2 GLOBAL INPUT/OUTPUT

- Always turn OFF the A860 and other components in the system before connecting or disconnecting anything to GLOBAL INPUT/OUTPUT terminals.
- Ensure that the supplied INPUT/OUTPUT terminal block's "+, -, GND" are wired accurately to corresponding OUTPUT terminals of compatible external devices such as preamplifiers, processors or other applicable devices. Install the wired up INPUT/OUTPUT terminal block to A860's GLOBAL INPUT terminal.

- Ensure that the supplied INPUT/OUTPUT terminal block's "+, -, GND" are wired accurately to corresponding INPUT terminals of compatible external devices such as amplifiers, receivers or other applicable devices. Install the wired up INPUT/OUTPUT terminal block to A860's GLOBAL OUTPUT terminal. The GLOBAL OUTPUT terminal is a line level "loop through" output. The same level of input signal at the GLOBAL INPUT terminal is available at the OUTPUT terminal thereby allowing the same signal to be shared or passed on to another amplifier.
- These INPUT/OUTPUT terminals are dedicated only to GLOBAL settings.
- If the LOCAL/GLOBAL mode selector switch of a particular ZONE is set to GLOBAL, the source connected to GLOBAL's INPUT terminals will become the active input for the particular ZONE.

3 GLOBAL GAIN CONTROL

- Before switching ON the A860 for the first time, make sure all GAIN controls are set to minimum (MIN) level position.
- This GAIN control is dedicated only to GLOBAL settings. Rotate clockwise or counterclockwise to adjust GLOBAL audio level.
- Refer also to item about GAIN CONTROL (ZONE 1-4).

IDENTIFICATION OF CONTROLS

4 SPEAKER OUT (ZONE 1 - 4)

- Connect external speaker cables to supplied SPEAKER terminal block ensuring that the connections match A860's Zone SPEAKER OUT terminal markings.
- At STEREO mode, ensure that particular Zone's "R+" is connected to the "+" terminal of your right speaker and "R-" connected to the speaker's "-" terminal. Connect the particular Zone's SPEAKER OUT terminals marked "L+" and "L-" to the left speaker in the same way.

STEREO MODE SPEAKER CONNECTION

EXTERNAL SPEAKER TERMINAL	A860 SPEAKER TERMINAL			
	SPEAKER OUT "R +"	SPEAKER OUT "R -"	SPEAKER OUT "L +"	SPEAKER OUT "L -"
External Left speaker "+" terminal			✓	
External Left speaker "-" terminal				✓
External Right speaker "+" terminal	✓			
External Right speaker "-" terminal		✓		

- At Bridge Mode, connect the external single speaker to the particular Zone's SPEAKER OUT terminals marked "R +" and "L+" ensuring that "L+" is connected to the external speaker's "+" terminal and "R+" connected to the external speaker's "-" terminal.

BRIDGE MODE SPEAKER CONNECTION

EXTERNAL SPEAKER TERMINAL	A860 SPEAKER TERMINAL			
	SPEAKER OUT "R +"	SPEAKER OUT "R -"	SPEAKER OUT "L +"	SPEAKER OUT "L -"
Single external speaker "+" terminal			✓	
Single external speaker "-" terminal	✓			

5 FUSE HOLDER

- In the unlikely event a fuse needs to be replaced, unplug the AC power cord from the mains power outlet. Then, remove all connections from the amplifier. Use a flathead screwdriver or similar to open the fuse holder via the slot located at the top edge of the fuse holder. With the screwdriver in place, push it outward to unlatch and open the fuse holder.
- Only replace the fuse with the same type, size, and specification - T6.3AL 250V.

IMPORTANT NOTICE

Do not use any substitute fuse of different type, rating or value. Failure to observe this precaution may cause damage to the amplifier circuits and may create a fire hazard and/or defeat the safety built into the amplifier and may void the warranty.

6 AC MAINS INPUT

- The A860 comes supplied with two separate AC power cords. Select the AC power cord appropriate for your region.
- Before connecting the AC power cord plug to the mains power source, ensure that it is firmly connected to A860's AC Mains input socket first.
- Always disconnect the AC power plug from the mains power source first, before disconnecting the other end of the AC power plug from the A860's AC Mains input socket.

7 POWER SWITCH

- The POWER switch supplies the master AC mains power for the A860.
- Set the POWER switch to "ON" setting (TRIGGER OFF/ ON/ AUTO switch set to OFF position). ZONE input channels with active source or input signal will have their corresponding ZONE LED indicators illuminated in blue. If there is no active source or input signal connected to a particular ZONE, the corresponding ZONE LED indicator will not light up.

IMPORTANT NOTICE

If all four ZONE LED indicators do not illuminate after powering up the unit, it means no one among the ZONE or GLOBAL input channels has active source or input signal.

8 STEREO/BRIDGE MODE SELECTOR SWITCH (ZONE 1- 4)

- Depending upon the corresponding speaker setup connection, slide the particular Zone's selector switch to either STEREO or BRIDGE mode.

LOCAL/GLOBAL MODE SELECTOR SWITCH

Slide particular Zone's selector switch to either LOCAL or GLOBAL depending upon the selected input. If GLOBAL is selected, the source connected to GLOBAL's INPUT terminals will become the active input for the particular ZONE. On the other hand, if LOCAL is selected, the active source at corresponding Zone's INPUT terminals will be applied. To illustrate, if LOCAL/GLOBAL mode selector switch of ZONE 4 is set to GLOBAL, the input from GLOBAL's INPUT terminals will be the active input for ZONE 4. On the other hand, if LOCAL/ GLOBAL mode selector switch of ZONE 4 is set to LOCAL, input from ZONE 4 INPUT terminals will be the active input for ZONE 4.

9 GAIN CONTROL (ZONE 1-4)

- The A860 is equipped with separate GAIN controls for each Zone.
- Before switching ON the A860 for the first time, make sure all GAIN controls are set to minimum (MIN) level position.
- Rotate clockwise or counterclockwise a Zone's GAIN control to adjust its audio level with respect to the corresponding Zone's INPUT source signal.

Level Matching

In a surround sound or system with more than one set of speakers, differences in levels can occur due to varying inefficiencies among the speakers. In case your preamplifier or processor also has individual trims for each channel, set these to neutral or mid position (usually marked as 0dB). Adjust the GAIN control so that the speakers driven by the A860 have the correct level compared to the other speakers, judging from your listening position.

Extended Volume Control Range

Many systems have so much voltage gain that the speakers (or your ears) are overdriven at any volume control setting higher than 11 or 12 o'clock. As a result you are confined to using only the lower half of the volume control's range, where adjustments are imprecise and where channel balance errors tend to be greater.

If the input level is reduced, you can turn up the volume control of your processor or preamplifier, making more effective use of its range. (Suggestion: Adjust the GAIN controls so that your preferred maximum sound levels usually occur at about 2 or 3 o'clock on the volume control). As an added benefit, this procedure suppresses any noise produced by the preamplifier's high level circuitry (e.g. any residual hum or hiss that does not go away when the Volume is turned down).

10 INPUT/OUTPUT (ZONE 1 - 4)

- These INPUT/OUTPUT terminals are dedicated to their respective ZONE SPEAKERS.
- Always turn OFF the A860 and other components in the system before connecting or disconnecting anything to the INPUT/OUTPUT terminals.
- Ensure that the supplied INPUT/OUTPUT terminal block's "+, -, GND" are wired accurately to corresponding OUTPUT terminals of compatible external devices such as preamplifiers, processors or other applicable devices. Install the wired up INPUT/OUTPUT terminal blocks to corresponding A860's ZONE INPUT terminals.
- Ensure that the supplied INPUT/OUTPUT terminal block's "+, -, GND" are wired accurately to corresponding INPUT terminals of compatible external devices such as amplifiers, receivers or other applicable devices. Install the wired up INPUT/OUTPUT terminal blocks to corresponding A860's ZONE OUTPUT terminals.
- The ZONE OUTPUT terminal is a line level "loop through" output. The same level of input signal at a particular ZONE INPUT terminal is available at the corresponding ZONE OUTPUT terminal thereby allowing the same signal to be shared or passed on to another amplifier.

11 TRIGGER - OFF/ON/AUTO

- The TRIGGER switch has three settings - OFF, ON or AUTO.
- At OFF setting, +12V TRIGGER OUT will output 12V when A860 is at operating mode and 0V when it is at standby mode or powered OFF.
- At ON setting and with the +12V TRIGGER IN of the A860 connected to compatible external equipment that is equipped with a +12V TRIGGER output, the A860 can be switched remotely from standby mode to operating mode and vice-versa.
- At AUTO setting, the A860 will instantaneously turn to operating mode from standby mode if it senses any input signal (approximately above 20mV RMS input) applied through any of the GLOBAL or ZONE INPUT sockets.

12 +12V TRIGGER IN/OUT

- Use the supplied 12V TRIGGER terminal block connector to connect +12V TRIGGER IN terminal to compatible external +12V Trigger source and +12V TRIGGER OUT terminal to compatible external equipment that is equipped with a +12V TRIGGER input. Install the wired up +12V TRIGGER terminal block to A860's +12V TRIGGER IN/OUT rear panel terminal.
- The +12V TRIGGER IN allows the A860 to be remotely switched from standby mode to operating mode and vice-versa by ancillary equipment such as a preamplifier, AV processor, etc. The controlling device must be equipped with a +12V trigger output to use this feature.
- The +12V TRIGGER OUT is used for controlling external equipment that is equipped with a +12V trigger input. With TRIGGER - OFF/ON/AUTO set to OFF, this output will be 12V when the A860 is at operating mode and 0V when it is at standby mode or powered OFF.
- Refer also to the item about "TRIGGER - OFF/ON/AUTO".

TROUBLESHOOTING

CONDITION	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
No power	• Power cord is disconnected.	• Connect AC power cord to mains power outlet securely
	• Rear panel POWER switch not at ON setting	• Set the rear panel POWER switch to ON setting
A860 always at standby mode	• TRIGGER OFF/ON/AUTO switch set to "AUTO" position	• Slide the TRIGGER OFF/ON/AUTO switch to "OFF" position
No audio	• AC power cord unplugged or POWER switch not at ON setting	• Connect AC power cord to mains power outlet securely
		• Set the rear panel POWER switch to ON setting
	• No input signal applied through the rear panel INPUT terminals	• Check that there is active input signal applied through the rear panel INPUT terminals
	• GAIN control level at minimum setting	• Adjust GAIN control level until audio is heard.
	• LOCAL/GLOBAL switch is set to LOCAL (or GLOBAL)	• Set LOCAL/GLOBAL switch to corresponding input terminal (LOCAL or GLOBAL)
No sound one channel	• Speaker not properly connected or damaged	• Check connections and speakers
	• Input lead disconnected or damaged	• Check leads and connections
Weak bass/diffused stereo image	• Speakers wired out of phase	• Check speaker connections

All specs are measured according to IHF 202 CEA 490-AR-2008 standard. THD is measured using AP AUX 0025 passive filter and AES 17 active filter.

OVERALL SPECIFICATIONS

Continuous output power into 8 ohms	8 x 50W (ref. 20 Hz-20 kHz at rated THD, all channels driven)
Continuous output power into 4 ohms	8 x 60W (ref. 20 Hz-20 kHz at rated THD, all channels driven)
Continuous output power into 8 ohms (Mono, Bridge mode)	120 W (ref. 20 Hz - 20 kHz, <0.02 % THD)
Rated THD (250 mW to rated power, CCIF IMD, DIM 100)	<0.03 % (ref. 20 Hz - 20 kHz)
Signal-to-Noise Ratio, A-weighted	>80 dB (ref. 1 W)
	>100 dB (ref. 50 W)
Clipping power	>155W (ref. 1 kHz, 8 ohms, 0.1% THD)
Damping factor	>150 (ref. 8 ohms, 50 Hz and 1kHz)
Frequency response	±1.0 dB (ref. 20 Hz - 20 kHz)
Input sensitivity	1.1V (ref. rated power)
Voltage gain	33 dB
Minimum input signal to trigger auto sense mode	>20 mV
Rated power	600W (120V 60Hz, 230V 50Hz)
Idle power	<26 W
Standby power	<0.5 W

DIMENSION AND WEIGHT

Gross dimensions (W x H x D)*	483 x 105 x 323 mm
	19 ¹ / ₁₆ x 4 ³ / ₁₆ x 12 ³ / ₄ inches
Shipping weight	7.1 kg (15.7 lbs)

* - Gross dimension includes feet and extended rear panel terminals

Specifications are subject to change without notice. Check out www.bluesoundprofessional.com for updated documentation or latest information about A860.

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www.bluesoundprofessional.com

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