



FreeSpace® IZA 2120-LZ & IZA 2120-HZ Integrated Zone Amplifiers

FreeSpace® ZA 2120-LZ & ZA 2120-HZ Zone Amplifiers

Installation and Operating Guide Installations- og betjeningsvejledning Installations- und Bedienungsanleitung Guía de instalación y funcionamiento Guide d'installation et d'utilisation Manuale di installazione e funzionamento Installatie- en bedieningshandleiding Bruksanvisning för installation och användning



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Additional Resources

This product is intended for installation by professional installers only! This document is intended to provide professional installers with basic installation and safety guidelines for Bose[®] FreeSpace[®] amplifiers in typical fixed-installation systems. Please read this document before attempting installation.



Warning: All Bose products must be used in accordance with local, state, federal and industry regulations. It is the installer's responsibility to ensure installation of the amplifier is performed in accordance with all applicable codes, including local building codes and regulations. Consult the local authority having jurisdiction before installing this product.

Warning: To reduce the risk of fire or electrical shock, do not expose the product to rain or moisture.



Warning: Do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids such as vases, on or near the apparatus. As with any electronic products, use care not to spill liquids into any part of the system. Liquids can cause a failure and/or a fire hazard.



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 system enclosure that may be of sufficient magnitude to constitute a risk of electrical shock. Do not touch the output terminals while amplifier power is ON. Make all connections with amplifier OFF.

The exclamation point within an equilateral triangle, as marked on the system, is intended to alert the user to the presence of important operating and maintenance instructions in this installation guide.

Caution: This product shall be connected to an AC mains socket outlet with a protective earthing (grounding) connection.

Caution: Do not place any naked flame sources, such as lighted candles, on or near the apparatus.

Caution: Make no modifications to the system or accessories. Unauthorized alterations may compromise safety, regulatory compliance, and system performance.



Warning: Contains small parts which may be a choking hazard. Not suitable for children under age 3.

Note: The product label is located on the bottom of the product.

- **Note:** Where the mains plug or appliance coupler is used as the disconnect device, such disconnect device shall remain readily operable.
- **Note:** The product must be used indoors. It is neither designed nor tested for use outdoors, in recreational vehicles, or on boats.

- 1. Read these instructions.
- 2. Keep these instructions for future reference.
- 3. Heed all warnings on the product and in all product documentation.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. To ensure reliable operation of the product and to protect it from overheating put the product in a position and location that will not interfere with its proper ventilation.
- 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 wider blade or third prong is provided for your safety. If the provided plug does not fit in 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.



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 to prevent damage to this product.
- 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. Do not attempt to service this product yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Bose to be referred to an authorized service center near you.

CE This product conforms to all applicable EU directive requirements. The complete Declaration of Conformity can be found at www.Bose.com/compliance.

This Product meets the immunity requirements for the E2 class EN55103-2 directive.

Initial turn on inrush current: IZA 2120-LZ and IZA 2120-HZ: 12.6 Amps (230V/50 Hz), 6.6 Amps (120V/60 Hz) ZA 2120-LZ and ZA2120-HZ: 12.6 Amps (230V/50 Hz), 7.8 Amps (120V/60 Hz)

Inrush current after 5 seconds AC mains interruption: IZA 2120-LZ and IZA 2120-HZ: 12.5 Amps (230V/50 Hz), 6.5 Amps (120V/60 Hz) ZA 2120-LZ and ZA2120-HZ: 12.3 Amps (230V/50 Hz), 7.7 Amps (120V/60 Hz)

Information About Products That Generate Electrical Noise (FCC Compliance Notice for US)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at one's own expense.

This product complies with the Canadian ICES-003 Class A specifications.

CAN ICES-3(A)/NMB-3(A)

Product overview

This guide provides installation and operating information for FreeSpace® IZA 2120-LZ / IZA 2120-HZ integrated zone amplifiers and ZA 2120-LZ / ZA 2120-HZ zone amplifiers.

FreeSpace IZA 2120-LZ / IZA 2120-HZ integrated zone amplifier

The FreeSpace IZA 2120-LZ / IZA 2120-HZ integrated zone amplifier provides signal processing, routing, paging, zoning and amplification for a wide range of commercial applications such as retail stores, restaurants and bars, hospitality venues, conference rooms, schools and auxiliary zones.

The integrated zone amplifier offers a variety of input connections (mic/line/page), input gain and output level adjustments, and operational modes. Built-in Bose® FreeSpace FS3/HPF, DS 16, DS 40, DS 100, FS3B, and RoomMatch® Utility RMU105 loudspeaker EQ presets can be selected for loudspeaker optimization.

FreeSpace ZA 2120-LZ / ZA 2120-HZ zone amplifier

The FreeSpace ZA 2120-LZ / ZA 2120-HZ zone amplifier makes system expansion easy. Simply connect the auxiliary output of an IZA integrated zone amplifier to the input of a ZA zone amplifier. The two amplifiers will function together as one system sharing the same music, paging sources, master volume control and optional loudspeaker equalization.

ZA zone amplifiers are designed to expand sound systems that utilize front end signal processing from products such as the Bose FreeSpace IZA 2120-LZ, IZA 2120-HZ, IZA 250-LZ and IZA 190-HZ integrated zone amplifiers and Bose ControlSpace[®] engineered sound processors. The FreeSpace ZA 2120-LZ / ZA 2120-HZ zone amplifiers can also be used as stand-alone amplifiers from any balanced or unbalanced line-level source.

Included accessories

Each carton includes one amplifier plus the items indicated in the following table:

	IZA 2120-LZ	IZA 2120-HZ	ZA 2120-LZ	ZA 2120-HZ
Feet with locking pins	4	4	4	4
5-pin Euroblock	2	2	1	1
4-pin Euroblock	1 black, 1 green	2 black, 1 green		
2-pin Euroblock	1 black, 2 green	1 black, 2 green	2 black, 2 green	3 black, 2 green
RCA cable			1	1
AC power cord*	1	1	1	1
Owners Guide	1	1	1	1

*The appropriate power cord for your region is included.



Limited warranty

Your product is covered by a limited warranty. Visit **pro.Bose.com** for warranty details.

FreeSpace[®] IZA 2120-LZ

The four-input IZA 2120-LZ mixer amplifier is optimized for low-impedance stereo or mono applications. It supports loudspeaker EQs for the FreeSpace DS 16, DS 40, and the larger DS 100, and RoomMatch[®] Utility RMU105.

IZA 2120-LZ front panel



POWER switch – ON/OFF AC power.

- **Power LED** Solid blue LED indicates the unit is ON. Blinking blue LED indicates the unit is in standby mode.
- INPUT SIGNAL LED LED is green from –37 dBu to 11 dBu, LED goes red over 11 dBu. MASTER LEVEL set at 5.
- OUTPUT LIMIT LED LED is green from –46 dBFS to –2 dBFS, LED goes red over –2 dBFS, approximately 80 W/channel. For each output, 120 watts is 0 dBFS.
- AUX INPUT 1/8" (3.5 mm) stereo line-level input connector. A cable insertion mutes INPUT A and INPUT B for priority override. Pages can still be made from the PAGE INPUT. AUX INPUT does not have any gain adjustment, therefore, all gain adjustments must be done from the external source device.
- INPUT A/B Switch Allows selection of rear line-input channels A or B.
- TREBLE/BASS Controls Allows tonal adjustments of both outputs simultaneously. These are 1st order shelving filters that provide ±6 dB adjustment at 7 kHz and above (TREBLE) and 100 Hz and below (BASS). They have a slope of approximately 6 dB/octave.
- BASTER LEVEL Control Controls the overall system volume for both the loudspeakers and the AUX OUTPUT when the AUX OUTPUT DIP switch is set to VARIABLE. If the AUX OUTPUT DIP switch is set to FIXED, the AUX OUTPUT maintains maximum level.
 - **Note:** When using a REMOTE volume connection, the front panel MASTER LEVEL control becomes disabled. See "Remote control connections" on page 29 for more details.

IZA 2120-LZ rear panel



- **INPUT A/B** Balanced and unbalanced line-level input connectors.
- INPUT GAIN Allows for 0 dB to –30 dB of adjustment to each INPUT A/B.
- Image: MUTE Contact closure connection that upon trigger (short) will mute all outputs (including AUX OUTPUT).
- PAGE INPUT Euroblock mic/line input that supports dynamic microphones with voice activation (VOX) or a trigger contact closure for use with push-to-talk (PTT) microphones.
- **9** PAGE INPUT GAIN Allows for 0 dB to +50 dB of gain control of PAGE INPUT signal.
- **G** PAGE INPUT THRESHOLD Adjusts the level at which the VOX PAGE INPUT signal causes other inputs to be lowered. A 10 dB adjustment range lifts the page trigger level away from the noise floor to prevent false triggers. At minimum setting, a –70 dBu signal will trigger a VOX page. At maximum setting, a –60 dBu signal will trigger a VOX page. When in PTT page mode this adjustment is not active.
- EQ Provides loudspeaker equalization presets: Flat, DS 16, DS 40, DS 100 and RMU105. Use the Flat setting for loudspeakers that are not Bose or that do not require EQ.
- IP Switches A bank of switches to set the amplifier configuration. All switches set to the left position is the standard configuration.
 - OUTPUT Sets the outputs to either STEREO or MONO mode.
 - A/B SELECT Determines if A/B inputs are selected by the front panel INPUT A/INPUT B switch (FRONT) or the rear panel remote control input (REMOTE).
 - AUTO STANDBY If enabled (ON) the amplifier will go into standby mode after twenty minutes without an input signal. If in standby mode and an audio signal is detected, the amplifier will automatically wake and amplify audio within 0.7 seconds. The OFF position disables this feature.
 - PAGE BYPASS MASTER Sets the paging volume to follow the front panel MASTER LEVEL setting (OFF) or to output maximum
 volume (ON). The PAGE INPUT GAIN adjustment is available in either mode. Use this feature if the output volume is too low to
 hear a page.
 - PAGE MODE Sets the amplifier to mix paging (MIX) with the selected input source or to duck the input source (DUCK) when
 paging is activated.
 - PAGE START Determines if paging is to be activated by a push-to-talk (PTT) stimulus or voice stimulus (VOX).
 - AUX OUTPUT (FLAT/EQ) Determines if the auxiliary output will either have no EQ adjustment (FLAT) or an EQ adjustment determined by the EQ slide switch position (EQ).
 - AUX OUTPUT (FIXED/VARIABLE) Sets the auxiliary output level to either follow the front panel MASTER LEVEL control setting (VARIABLE), or to the maximum output level (FIXED).
 - AUX INPUT Enables (ENABLED) or disables (DISABLED) the auxiliary input. If enabled, inserting a cable into the auxiliary input will mute INPUT A and B.
- **9** AUX OUTPUT Variable or fixed, unbalanced line-level output signal for use with ZA zone amplifiers or for routing the signal to additional audio equipment.
- REMOTE Input connector for either a Bose[®] volume control with A/B switch user interface accessory (PC 041967) or a Bose volume control user interface accessory (PC 041966).
- **OUTPUT 1/OUTPUT 2 TRIM** Allows for up to 40 dB attenuation of the individual loudspeaker outputs relative to the master level.
- **OUTPUT** Two inverted 2-pin Euroblock connectors for loudspeaker connections. Outputs are not bridgeable.

FreeSpace® IZA 2120-HZ

The four-input IZA 2120-HZ mixer-amplifier is optimized for dual-zone high-impedance applications. It has the ability to independently adjust the EQ, bass/treble level, and volume control (with A/B source selection via two remote controls) for each zone.

This mixer-amplifier supports loudspeaker EQs for the FreeSpace FS3/HPF, DS 16, DS 40, and the larger DS 100 and FS3B. Since each output supports an independent EQ, the amplifier has the ability to bi-amp by driving a DS loudspeaker with EQ on one channel and an FS3B with EQ on the second channel, or any required combination.

IZA 2120-HZ front panel



- **1 POWER switch** ON/OFF AC power.
- **Power LED** Solid blue LED indicates the unit is ON. Blinking blue LED indicates the unit is in standby mode.
- **INPUT SIGNAL LED** LED is green from –37 dBu to 11 dBu, LED goes red over 11 dBu. MASTER LEVEL set at 5.
- OUTPUT LIMIT LED LED is green from –46 dBFS to –2 dBFS, LED goes red over –2 dBFS, approximately 80 W/channel. For each output, 120 watts is 0 dBFS.
- O AUX INPUT 1/8" (3.5 mm) stereo line-level input connector. A cable insertion mutes INPUT A and INPUT B for priority override. Pages can still be made from the PAGE INPUT. The AUX INPUT is summed to MONO. AUX INPUT does not have any gain adjustment, therefore, all gain adjustments must be done from the external source device.
- **INPUT** A/B Switch Selects either INPUT A or INPUT B on the rear panel when the rear panel A/B SELECT DIP switch is set to FRONT.
- TREBLE/BASS Controls Allows tonal adjustments of both outputs simultaneously. These are 1st order shelving filters that provide a ±6 dB adjustment at 7 kHz and above (TREBLE) and 100 Hz and below (BASS). They have a slope of approximately 6 dB/octave.
- MASTER LEVEL Control Controls the overall system volume for both the loudspeakers and the AUX OUTPUT when the AUX OUTPUT DIP switch is set to VARIABLE. If the AUX OUTPUT DIP switch is set to FIXED, the AUX OUTPUT maintains maximum level.
 - **Note:** When using a REMOTE volume connection, the front panel MASTER LEVEL control becomes disabled. See "Remote control connections" on page 29 for more details.

IZA 2120-HZ rear panel



- **INPUT A/B** Balanced and unbalanced line-level input connectors. Each input is summed to mono.
- **2** INPUT GAIN Allows for 0 dB to –30 dB of adjustment to each INPUT A/B.
- **3** MUTE Contact closure connection that upon trigger (short) will mute all outputs (including AUX OUTPUT).
- PAGE INPUT Euroblock mic/line input that supports dynamic microphones with voice activation (VOX) or a trigger contact closure for use with push-to-talk (PTT) microphones.
- 9 PAGE INPUT GAIN Allows for 0 dB to +50 dB of gain control of PAGE INPUT signal.
- PAGE INPUT THRESHOLD Adjusts the level at which the VOX PAGE INPUT signal causes other inputs to be lowered. A 10 dB adjustment range lifts the page trigger level away from the noise floor to prevent false triggers. At minimum setting, a –70 dBu signal will trigger a VOX page. At maximum setting, a –60 dBu signal will trigger a VOX page. When in PTT page mode this adjustment is not active.
- EQ Provides loudspeaker equalization presets: FS3/HPF, DS 16, DS 40, DS 100 and FS3B. The FS3/HPF is the flat setting. Use this setting for loudspeakers that are not Bose or that do not require EQ. The HPF is set at 55 Hz.
- **③** DIP Switches A bank of switches to set the amplifier configuration. All switches set to the left position is the standard configuration.
 - REMOTE 1 CONTROL Sets the REMOTE 1 input to control both outputs (or zones) simultaneously (ZONE 1+2), or allows each REMOTE input to control its own output (ZONE 1). Each remote has independent A/B selection capability. If only one remote is being used, then this switch must be set to ZONE 1+2.
 - A/B SELECT Determines if A/B inputs are selected by the front panel INPUT A/INPUT B switch (FRONT) or the rear panel remote control input (REMOTE).
 - AUTO STANDBY If enabled (ON) the amplifier will go into standby mode after twenty minutes without an input signal. If in standby mode and an audio signal is detected, the amplifier will automatically wake and amplify audio within 0.7 seconds. The OFF position disables the feature.
 - PAGE OUTPUT Paging can be set to occur in ZONE 1 only or both zones, ZONE 1+2.
 - **PAGE BYPASS MASTER** Sets the paging volume to follow the front panel MASTER LEVEL setting (OFF) or to output maximum volume (ON). The PAGE INPUT GAIN adjustment is available in either mode. Use this feature if the output volume is too low to hear a page.
 - **PAGE MODE** Sets the amplifier to mix paging (MIX) with the selected input source or to duck the input source (DUCK) when paging is activated.
 - PAGE START Determines if paging is to be activated by a push-to-talk (PTT) stimulus or voice stimulus (VOX).
 - AUX OUTPUT 1 (White) Determines if auxiliary output 1 will either have no EQ adjustment (FLAT) or an EQ adjustment determined by the EQ 1 slide switch position (EQ).
 - AUX OUTPUT 2 (Red) Determines if auxiliary output 2 will either have no EQ adjustment (FLAT) or an EQ adjustment determined by the EQ 2 slide switch position (EQ).
 - AUX OUTPUT Sets the auxiliary output level to either follow the front panel MASTER LEVEL control setting (VARIABLE), or to the maximum output level (FIXED).
 - AUX INPUT (ZONE 1+2 / ZONE 1) The auxiliary input source can either be output into zone one only or both zones.
 - AUX INPUT (ENABLED / DISABLED) Enables (ENABLED) or disables (DISABLED) the auxiliary input. If enabled, inserting a
 cable into the auxiliary input will mute INPUT A and B.
- AUX OUTPUT Variable or fixed, unbalanced line-level output signal for use with ZA zone amplifiers or for routing the signal to additional audio equipment.
- **0** 70V/100V Changes the outputs from 70V to 100V.
- REMOTE Input connector for either a Bose[®] volume control with A/B switch user interface accessory (PC 041967) or a Bose volume control user interface accessory (PC 041966).
- **OUTPUT 1/OUTPUT 2 TRIM** Allows for up to 40 dB attenuation of the individual loudspeaker outputs relative to the master level.
- **B** OUTPUT Two inverted 2-pin Euroblock connectors for loudspeaker connections. Outputs are not bridgeable.

FreeSpace[®] ZA 2120-LZ/HZ

ZA 2120-LZ/HZ front panel



POWER SWITCH – ON/OFF AC power.

POWER LED – Solid blue LED indicates the unit is ON. Blinking blue LED indicates the unit is in standby mode.

INPUT SIGNAL LED – LED is green from –37 dBu to 11 dBu, LED goes red over 11 dBu.

OUTPUT LIMIT LED – LED is green from –46 dBFS to –2 dBFS, LED goes red over –2 dBFS, approximately 80 W/channel. For each output, 120 watts is 0 dBFS.

ZA 2120-LZ/HZ rear panel



- **1 INPUT** Balanced and unbalanced line-level input connectors.
- AUTO STANDBY If enabled (ON) the amplifier will go into standby mode after twenty minutes without an input signal. If in standby mode and an audio signal is detected, the amplifier will automatically wake and amplify audio within 0.7 seconds. The OFF position disables the feature.
- **INPUT (HZ only)** The input can be set to either DUAL mono inputs or SUMMED to one mono input.

OUTPUT (LZ only) - The output can be set to STEREO or MONO.

- REMOTE 1 CONTROL (HZ only) Sets the REMOTE 1 input to control both outputs (or zones) simultaneously (ZONE 1+2), or allows each REMOTE input to control its own output (ZONE 1). If only one remote is being used, then this switch must be set to ZONE 1+2.
- **5** 70V/100V Sets the outputs to 70V or 100V.
- **MUTE** Contact closure connection that upon trigger (short) will mute all outputs.
- REMOTE Input connectors for the Bose[®] volume control user interface accessory (PC 041966).
- OUTPUT TRIM Allows for up to 40 dB attenuation of each loudspeaker output.
- **OUTPUT** Two inverted 2-pin Euroblock connectors for loudspeaker connections. Outputs are not bridgeable.

Importance of proper ventilation

For placement of the amplifier, keep the following in mind:

- Make sure that air can circulate freely from left to right for adequate ventilation. There are vents on the sides.
- The temperature of the rack should be controlled to ensure that amplifiers are not exposed to ambient temperatures exceeding 40° C (104° F).
- Do not cover or block amplifier vents.
- Do not place the amplifier in an enclosed space, such as a cabinet.
- Make sure the chassis is protected from heat and kept away from direct heat sources, such as heating vents and radiators.

CAUTION: Do not allow the chassis to exceed the maximum operating temperature of 40° C (104° F). Be aware of conditions in an enclosed rack that may increase the temperature above room-ambient conditions. If the amplifier becomes too hot, it will go into a thermal protection mode and mute all outputs.

Removing rack-mount ears

Rack-mount ears can be removed by removing the three screws from each rack-mount ear.



Placing on a flat surface

The amplifier can be placed on a flat, stable surface like a table, counter, or shelf. The rack-mount ears can be removed and plastic feet (included with the amplifier) can be installed to protect the surface area and prevent the chassis from sliding.

Note: When installing the amplifier in an office, conference room, or classroom, carefully place it in a way that minimizes the audible affects of the internal cooling fan of the amplifier. It is recommended to place the amplifier below ear level, in a corner, with the fan inlet (left side) pointing away from the seating area.

Installing the feet on the amplifier

The included feet are comprised of two parts: a foot and a pin.

- 1. Place the amplifier upside-down on a flat, level surface on a protective covering to avoid scratching the top of the chassis.
- 2. Insert the four feet into the four holes on the bottom of the chassis.
- 3. Insert a pin into the hole on the foot.
- 4. Press down on the pin until the foot locks into place. Repeat for all four feet.



Stacking units

One amplifier can be stacked on top of another when there is limited space available on a table, counter, or shelf.



Connecting an amplifier to a ControlSpace® engineered sound processor

The balanced inputs of the IZA 2120-LZ/HZ and ZA 2120-LZ/HZ can be used to easily connect to the balanced outputs of a ControlSpace engineered sound processor.



Page input connections

The PAGE INPUT is a mic/line input with a trigger contact closure. This input signal is routed to all outputs (including AUX OUT) when the trigger is detected. This is designed for push-to-talk paging microphones and telephone paging systems. In VOX mode a dynamic microphone is also supported. See the diagrams below for input wiring configurations. Use the included 4-pin Euroblock.



Remote control connections

Remote volume and source selection control

The amplifier is designed to work with the Bose[®] volume control with A/B switch user interface accessory (PC 041967), or the volume control user interface accessory (PC 041966). The REMOTE connector on the rear panel of the amplifier is labeled to match the connector on the user interface. Use the included 4-pin Euroblock. See the appropriate Bose volume control user interface install guide for more details.





IZA 2120-HZ remote configuration examples

Configuration example 1

REMOTE 1 can be a Bose volume control with A/B switch user interface accessory (PC 041967). REMOTE 1 will control the level and source selection of both outputs simultaneously. This configuration requires setting the REMOTE 1 CONTROL DIP switch to ZONE 1+2 and the A/B SELECT DIP switch to REMOTE. If only one remote is being used, this switch must be set to ZONE 1+2. If this switch is set to ZONE 1, the REMOTE input will not operate, and front panel controls will be active.



Configuration example 2

REMOTE 1 and REMOTE 2 can be a Bose volume control with A/B switch user interface (PC 041967) accessory. REMOTE 1 will control the level and source selection of output one and REMOTE 2 will control the level and source selection of output two. This configuration requires setting the REMOTE 1 CONTROL DIP switch to ZONE 1 and the A/B SELECT DIP switch to REMOTE.



Configuration example 3

REMOTE 1 can be a Bose volume control with A/B switch user interface accessory (PC 041967) and REMOTE 2 can be a volume control user interface accessory (PC 041966). In this configuration, REMOTE 1 controls the level of output one and the source selection for both outputs. REMOTE 2 controls the level for output two. The A/B pin from REMOTE 1 needs to be jumpered with wire to the A/B pin on REMOTE 2. This configuration requires setting the REMOTE 1 CONTROL DIP switch to ZONE 1 and the A/B SELECT DIP switch to REMOTE. If the A/B jumper wire is not connected, output two will default to amplifying input B constantly. If output two is to amplify input A constantly, the A/B pin of REMOTE 2 needs to be jumpered to the COM pin. This configuration also works with the remote types reversed with a volume control user interface accessory (PC 041966) on REMOTE 1 and a volume control with A/B switch user interface accessory (PC 041966) on REMOTE 1 and a volume control with A/B switch user interface accessory (PC 041966) on REMOTE 1 and a volume control with A/B switch user interface accessory (PC 041966) on REMOTE 1 and a volume control with A/B switch user interface accessory (PC 041966) on REMOTE 1 and a volume control with A/B switch user interface accessory (PC 041967) on REMOTE 2.



Configuration example 4

REMOTE 1 and REMOTE 2 can be a volume control user interface accessory (PC 041966). In this configuration, REMOTE 1 controls the level of output one and REMOTE 2 controls the level for output two. A/B source selection for both outputs is simultaneously controlled by the front panel switch. This configuration requires setting the REMOTE 1 CONTROL DIP switch to ZONE 1 and the A/B SELECT DIP switch to FRONT.



Configuration example 5

REMOTE 1 can be a volume control user interface accessory (PC 041966). In this configuration, REMOTE 1 controls the level of both outputs simultaneously. A/B source selection for both outputs is simultaneously controlled by the front panel switch. This configuration requires setting the REMOTE 1 CONTROL DIP switch to ZONE 1+2 and the A/B SELECT DIP switch to FRONT.



Remote connections to zone amplifiers

Remote volume control

The zone amplifiers are designed to work with the Bose[®] volume control user interface accessory (PC 041966). The REMOTE connector on the rear panel of the amplifier is labeled to match the connector on the user interface. Use the included 2-pin Euroblock. See the Bose volume control user interface accessory install guide for more details.



ZA 2120-HZ remote configuration examples

Configuration example 1

REMOTE 1 can be a Bose[®] volume control user interface accessory (PC 041966). REMOTE 1 will control the level of both outputs simultaneously. This configuration requires setting the REMOTE 1 CONTROL switch to ZONE 1+2. If only one remote is being used, this switch must be set to ZONE 1+2. If this switch is set to ZONE 1, the REMOTE will not operate.



Configuration example 2

REMOTE 1 and REMOTE 2 can be a volume control user interface accessory (PC 041966). In this configuration, REMOTE 1 controls the level of output one and REMOTE 2 controls the level for output two. This configuration requires setting the REMOTE 1 CONTROL switch to ZONE 1.



Remote input functionality

The amplifier also can be controlled with a linear taper 10k ohm potentiometer (fully CCW = 0 ohm, fully CW=10k ohm) and SPDT switch. When the SW1 switch is set to short the A/B pin to the COM pin, the amplifier switches to input A. When the SW1 switch is set to make the A/B pin open, the amplifier switches to input B.



Mute with standard contact closure

The amplifier is designed to mute all outputs (including AUX OUT) when the MUTE contacts are shorted together. Use the included 2-pin Euroblock.



Loudspeaker usage

This table shows the maximum quantity of loudspeakers supported by each IZA 2120-HZ or ZA 2120-HZ amplifier output for each loudspeaker tap setting. The data is based on the maximum output of 120 watts per each amplifier output. **Do not exceed 120 W per output**.

	Max. Qty.	of Loudspea	akers Per Ou	utput / Tap S	Setting
FreeSpace DS 16	120 / 1W	60 / 2W	30 / 4W	15 / 8W	7 / 16W
FreeSpace DS 40	48 / 2.5W	24 / 5W	12 / 10W	6 / 20W	3 / 40W
FreeSpace DS 100	9 / 12.5W	4 / 25W	2 / 50W	1 / 100W	
FreeSpace 3 System	4 / 25W	2 / 50W	1 / 100W	0 / 200W	
FreeSpace 3 Acoustimass Module I or II	4 / 25W	2 / 50W	1 / 100W	0 / 200W	
FreeSpace 360P II	12 / 10W	6 / 20W	3 / 40W	1 / 80W	
RoomMatch Utility RMU105:					
with RMUXF40 Transformer	48 / 2.5W	24 / 5W	12 / 10W	6 / 20W	3 / 40W
with RMUXF100 Transformer	9 / 12.5W	4 / 25W	2 / 50W	1 / 100W	

High-impedance loudspeakers per amplifier output

Expansion overview

The FreeSpace[®] zone amplifier makes system expansion easy. When a system design requires more loudspeakers than the FreeSpace IZA 2120-LZ/HZ integrated zone amplifier can support, a FreeSpace zone amplifier can be connected to provide additional power or zones.

When connected together, the IZA 2120-LZ/HZ and any zone amplifier (ZA 2120-LZ/HZ, ZA 250-LZ, ZA 190-HZ) can operate together as one system, sharing the same music and paging sources. The IZA 2120-LZ/HZ amplifier operates as the master of the zone amplifier, determining which audio sources will be heard. The overall MASTER LEVEL volume can be controlled by the integrated zone amplifier in one larger zone, or volume control can be distributed in multi-zone installations.

Connecting an IZA 2120-LZ/HZ amplifier to a ZA 2120-LZ/HZ amplifier

Using the included RCA cable, connect the AUX OUT of the IZA 2120-LZ/HZ amplifier to the unbalanced INPUT of any zone amplifier.



Note: It is recommended that when amplifiers are connected together, that both amplifier AC power cords are plugged into the same AC outlet to reduce potential noise issues.

Line input connections

When using a front-end signal processor, or connecting multiple zone amplifiers to an integrated zone amplifier, the included RCA cable may need to be modified. The wiring diagram for the zone amplifier line-level input RCA connectors is provided below.



Connecting an IZA 2120-LZ/HZ amplifier to multiple zone amplifiers

The auxiliary output of the IZA 2120-LZ/HZ can be connected in a star configuration to four zone amplifiers without experiencing signal loss.

Using T/S RCA connectors:



Using RCA male stackable connector cables:



Troubleshooting

Problem	What to do
No power	 Turn on power. Blue LED on front-panel will be visible when power is on. Make sure the power cord is plugged in. Try a different AC outlet that is working with another piece of equipment.
Power is on, but no sound	 Make sure the input source is turned on. Verify that there is an input signal from the source. Check the cable connections from the source to the amplifier. Ensure the desired source (A/B) is selected on the front panel. If a user interface is connected to the REMOTE connector on the rear panel, make sure the desired source (A/B) is selected on user interface (user interface overrides the front-panel source select). Make sure the MASTER LEVEL control is turned up. If a user interface is connected to the REMOTE connector on the rear panel, make sure the volume control on the user interface is turned up (user interface overrides the front-panel MASTER LEVEL control). Make sure a 1/8" (3.5 mm) TRS input cable is not connected to the AUX INPUT. The AUX INPUT has a mechanical override feature so if an input cable is connected to it the selected Input A/B source will be automatically overridden - even if the AUX INPUT audio source is not playing or connected. If a contact closure is connected to the MUTE connector on the rear panel, make sure it has not been triggered. If a source is connected to the PAGE INPUT connector on the rear panel, make sure it has not been triggered. If a source is connected to the PAGE INPUT connector on the rear panel, make sure it has not been triggered. Make sure that loudspeakers are connected. See "Loudspeaker usage" on page 33. Check that the amplifier has adequate ventilation. Improper ventilation could cause the amplifier to go into protection mode and no audio will be heard.
Power is on, but sound is low	 Verify that the audio input source output is turned up to a nominal level. Check the cable connections from the source to the amplifier. Increase input level of source with GAIN controls on amplifier. Turn GAIN knob clockwise until you start seeing a red INPUT SIGNAL CLIP LED on front-panel. Then turn GAIN counter-clockwise until the LED turns green. Make sure OUTPUT TRIM controls on amplifier are not turned down too low. If a user interface is connected to the REMOTE connector on the rear panel, make sure the volume control on the user interface is turned up (user interface overrides the front-panel MASTER LEVEL control). Make sure that loudspeaker taps are set correctly. See "Loudspeaker usage" on page 33.
Sound is distorted	 Verify that the INPUT SIGNAL CLIP LED on the front-panel is not red. If it is red, reduce the source output level or reduce the input gain. If the input source signal is clean, verify that the loudspeakers are not overdriven or damaged. Check the loudspeaker tap setting.
Unnatural sound	 Verify that the proper EQ preset is selected for the loudspeakers being used. With the IZA 2120-HZ, use the HPF setting for loudspeakers other than FreeSpace[®] loudspeakers and those that have their own EQ settings. Check the TREBLE and BASS controls on the front-panels.

AC current draw and thermal dissipation information

Amplifier rated channel power is 120 W.

	IZA 2120-LZ, AC	Current Draw	and Thermal Diss	ipation			
Test Signal & Power Level		Total Audio	120 VAC 60 Hz	230 VAC 50 Hz	Thermal Dissipation, Max		
lest olghar a rower Lever	(Both IZA channels driven)	Output, W	Line Current, A	Line Current, A	Watts	BTU/hr	kCal/hr
Power Or	n, Idling	0	0.16	0.13	30	102	26
1/8th Rated Power IEC65 Bandlimited Pink Noise	8Ω / Ch	15	0.19	0.15	34	116	29
6 dB Crest Factor DS 16 EQ Enabled	4Ω / Ch	30	0.50	0.28	64	218	55
1/3rd Rated Power IEC65 Bandlimited Pink Noise	8Ω / Ch	40	0.25	0.17	39	133	34
6 dB Crest Factor DS 16 EQ Enabled	4 Ω / Ch	80	1.00	0.539	136	464	117
	IZA 2120-HZ, AC	Current Draw	and Thermal Diss	ipation			
Test Signal & Power Level	Load Configuration	Total Audio	120 VAC 60 Hz	230 VAC 50 Hz	Therma	al Dissipati	on, Max
	(Both IZA channels driven)	Output, W	Line Current, A	Line Current, A	Watts	BTU/hr.	kCal/hr.
Power Or	n, Idling	0	0.27	0.17	40	136	34
1/8th Rated Power IEC65 Bandlimited Pink Noise	70V / Ch	30	0.55	0.30	69	235	59
6 dB Crest Factor DS 16 EQ Enabled	100V / Ch	30	0.61	0.33	76	259	65
1/3rd Rated Power IEC65 Bandlimited Pink Noise	70V / Ch	80	1.15	0.60	138	471	119
6 dB Crest Factor DS 16 EQ Enabled	100V / Ch	80	1.15	0.64	147	502	127
	ZA 2120-LZ, AC	Current Draw	and Thermal Diss	ipation			
Test Signal & Power Level		Total Audio 120 VAC 60 Hz 230 VAC 50 Hz Thermal D		al Dissipati	Dissipation, Max		
lest Signal & Power Level	(Both IZA channels driven)	Output, W	Line Current, A	Line Current, A	Watts	BTU/hr.	kCal/hr.
Power Or	n, Idling	0	0.13	0.12	28	96	24
1/8th Rated Power IEC65 Bandlimited Pink Noise	8Ω / Ch	15	0.18	0.14	32	109	28
6 dB Crest Factor DS 16 EQ Enabled	4Ω / Ch	30	0.50	0.27	62	212	53
1/3rd Rated Power IEC65 Bandlimited Pink Noise	8Ω / Ch	40	0.24	0.17	39	133	34
6 dB Crest Factor DS 16 EQ Enabled	4Ω / Ch	80	1.00	0.55	127	433	109
	ZA 2120-HZ, AC	Current Draw	and Thermal Diss	ipation			
Test Signal & Power Level	Load Configuration (Both IZA channels driven)	Total Audio Output, W	120 VAC 60 Hz Line Current, A	230 VAC 50 Hz Line Current, A	Therma Watts	al Dissipati BTU/hr.	on, Max kCal/hr.
Power Or	n, Idling	0	0.20	0.15	34	116	29
1/8th Rated Power IEC65 Bandlimited Pink Noise	70 V/ Ch	30	0.57	0.31	71	242	61
6 dB Crest Factor DS 16 EQ Enabled	100V / Ch	30	0.66	0.35	81	276	71
1/3rd Rated Power IEC65 Bandlimited Pink Noise	70V / Ch	80	1.13	0.58	133	454	114
6 dB Crest Factor DS 16 EQ Enabled	100V / Ch	80	1.25	0.65	150	512	129

IZA 2120-LZ specifications

Power Rating				
Amplifier Power	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω			
Audio Performance	· ·			
Frequency Response	20 Hz – 20 kHz (+0/–3 dB, @ 1 W reference 1 kHz)			
THD+N	\leq 0.5 % (at rated power)	,		
Channel Separation (Crosstalk)	≤ –58 dBu (below rated power, 1 kHz	2)		
Dynamic Range	88 dB	-/		
Integrated DSP				
A/D and D/A Converters	24-bit / 48 kHz			
Processing Functions	Loudspeaker EQ, Bose [®] Opti-voice [®]	paging, Dynamic equalization		
Loudspeaker Presets	· · · ·	100, and RoomMatch [®] Utility RMU105		
Audio Latency	10.4 ms (any input to speaker output			
Audio Inputs		. ,		
	Line Inputs	Page Inputs	Auxiliary Input	
Input Channels	2 unbalanced, 2 balanced	1 balanced mic/line	1 unbalanced line	
Connectors	Stereo RCA, 5-pin Euroblock	4-pin Euroblock	1/8" (3.5mm) TRS	
Input Range	–8 dBu to 22 dBu	–58 dBu to 12 dBu	-60 dBu to -1 dBu	
Adjustment Range	0 dB to –30 dB	0 dB to +50 dB	Fixed	
Input Impedance	20 kΩ	2 kΩ	20 kΩ	
Maximum Input Level	22 dBu	12 dBu	–1 dBu	
Sensitivity	-8 dBu	n/a	-3 dBu	
Nominal Input Level	4 dBu	-38 dBu	-8 dBu	
Audio Outputs				
	Amplifier Outputs	Auxiliary Output		
Outputs	2	1 unbalanced		
Connectors, Output	2-pin inverted Euroblock	Stereo RCA		
Output Impedance	4 Ω	150 Ω		
Nominal Output Level	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω	2 dBu		
Indicators and Controls				
Power LED	Solid blue indicates power is on, blin	king blue indicates standby mode		
Input Signal Clip LED	Green indicates input signal is within	Green indicates input signal is within –37 dBu to 11 dBu, red indicates signal is over 11 dBu, master level set at 5		
Output Signal Clip LED	Green indicates output signal is within –46 dBFS to –2 dBFS red indicates signal is over –2 dBFS, approximately 80 W/channel, for each output 120 watts is 0 dBFS			
Controls, Front Panel	Power On/Off, Input Select (A/B), Tre	ble/Bass Tone Controls, Master Level		
Controls, Rear Panel	Amplifier Mode DIP switches, Loudspeaker EQ preset selector, Input Gain (A/B/Page), Output trims, Remote			
Electrical				
Mains Voltage	100 VAC - 240V AC (±10%, 50/60 Hz)			
AC Power Consumption	24 W (Standby), 300 W (Max)			
Mains Connector	Standard IEC (C14)			
Maximum Inrush Current	12.6 Amps (230 VAC / 50 Hz), 6.6 Amps (120 VAC / 60 Hz)			
Overload Protection	High temperature, output short, excessively low or high AC line voltage			
Physical				
Dimensions	1.7" H x 19.0" W x 12.8" D (44 mm x	1.7" H x 19.0" W x 12.8" D (44 mm x 483 mm x 324 mm)		
Shipping Weight	12.0 lb (5.4 kg)			
Net Weight	9.0 lb (4.1 kg)			
Cooling System	Single fan creates continuous left-to-	-right air flow		
General		-		
Inputs (Control)	Remote input for Volume Control wit (PC041966), Mute input control via a	h A/B Select user interface (PC041967 normally open contact closure), Volume Control user interface	

IZA 2120-HZ specifications

Power Rating				
Amplifier Power	2 x 120 W @ 70/100V			
Audio Performance				
Frequency Response	55 Hz – 20 kHz (+0/–3 dB, @ 1 W reference 1 kHz)			
THD+N	\leq 0.3 % (at rated power)			
Channel Separation (Crosstalk)	≤ –58 dBu (below rated power, 1 kHz)		
Dynamic Range	88 dB	,		
Integrated DSP				
A/D and D/A Converters	24-bit / 48 kHz			
Processing Functions	Loudspeaker EQ, Bose® Opti-voice®	paging, Dynamic equalization		
Loudspeaker Presets	FreeSpace® FS3/HPF, DS 16, DS 40,	DS 100, and FS3B		
Audio Latency	10.4 ms (any input to speaker output	or aux output)		
Audio Inputs				
	Line Inputs	Page Input	Auxiliary Input	
Input Channels	2 unbalanced, 2 balanced	1 balanced mic/line	1 unbalanced line	
Connectors	Stereo RCA, 5-pin Euroblock	4-pin Euroblock	1/8" (3.5mm) TRS	
Input Range	–8 dBu to 22 dBu	–58 dBu to 12 dBu	–60 dBu to –1 dBu	
Adjustment Range	0 dB to -30 dB	0 dB to +50 dB	Fixed	
Input Impedance	20 kΩ	2 kΩ	20 kΩ	
Maximum Input Level	22 dBu	12 dBu	–1 dBu	
Sensitivity	–8 dBu	n/a	–3 dBu	
Nominal Input Level	4 dBu	-38 dBu	–8 dBu	
Audio Outputs				
	Amplifier Outputs	Auxiliary Output		
Outputs	2	1 unbalanced		
Connectors	2-pin inverted Euroblock	Stereo RCA		
Output Impedance	n/a	400 Ω		
Nominal Output Level	2 x 120 W @ 70/100V	2 dBu		
Indicators and Controls				
Power LED	Solid blue indicates power is on, blin	king blue indicates standby mode		
Input Signal Clip LED	Green indicates input signal is within	Green indicates input signal is within -37 dBu to 11 dBu, red indicates signal is over 11 dBu, master level set to 5		
Output Signal Clip LED	Green indicates output signal is within –46 dBFS to –2 dBFS, red indicates signal is over –2 dBFS, approximately 80 W/channel, for each output 120 watts is 0 dBFS			
Controls, Front Panel	Power On/Off, Input Select (A/B), Tre	ble/Bass Tone Controls (x2), Master Le	evel	
Controls, Rear Panel	Amplifier Mode DIP switches, Loudsp	eaker EQ preset selector, Input Gain (A	/B/Page), Output trims, Remote (x2)	
Electrical				
Mains Voltage	100 VAC – 240 VAC (±10%, 50/60 Hz)			
AC Power Consumption	26 W (Standby), 300 W (Max)			
Mains Connector	Standard IEC (C14)			
Maximum Inrush Current	12.6 Amps (230 VAC / 50 Hz), 6.6 Amps (120 VAC / 60 Hz)			
Overload Protection	High temperature, output short, excessively low or high AC line voltage			
Physical				
Dimensions	1.7" H x 19.0" W x 12.8" D (44 mm x 483 mm x 324 mm)			
Shipping Weight	12.0 lb (5.4 kg)			
Net Weight	9.0 lb (4.1 kg)			
Cooling System	Single fan creates continuous left-to-right air flow			
General				
Inputs (Control)	Remote input for Volume Control with (PC041966), Mute input control via a	n A/B Select user interface (PC041967 normally open contact closure), Volume Control user interface	

ZA 2120-LZ specifications

Power Rating	
Amplifier Power	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω
Audio Performance	
Frequency Response	20 Hz - 20 kHz (+0/–3 dB, @ 1 W reference 1 kHz)
THD+N	\leq 0.5 % (at rated power)
Channel Separation (Crosstalk)	≤ -58 dBu (below rated power, 1 kHz)
Dynamic Range	88 dB
Audio Inputs	
Input Channels	1 unbalanced, balanced
Connectors	Stereo RCA, 5-pin Euroblock
Input Range	-8 dBu to 22 dBu
Input Impedance	20 kΩ
Maximum Input Level	22 dBu
Nominal Input Level	4 dBu
Audio Outputs	
Outputs	2
Connectors	2-pin inverted Euroblock
Nominal Output Level	2 x 120 W @ 4 Ω, 2 x 60 W @ 8 Ω
Indicators and Controls	
Power LED	Solid blue indicates power is on, blinking blue indicates standby mode
Input Signal Clip LED	Green indicates input signal is within -37 dBu to 11 dBu, red indicates signal is over 11 dBu
Output Signal Clip LED	Green indicates output signal is within –46 dBFS to –2 dBFS, red indicates signal is over –2 dBFS, approximately 80 W/channel, for each output 120 watts is 0 dBFS
Controls, Front Panel	Power On/Off
Controls, Rear Panel	Auto Standby: On/Off switch, Output: Stereo/Mono switch, Mute, Output trims, Remote
Electrical	
Mains Voltage	100 VAC - 240 VAC (±10%, 50/60 Hz)
AC Power Consumption	21 W (Standby), 300 W (Max)
Mains Connector	Standard IEC (C14)
Maximum Inrush Current	12.6 Amps (230 VAC / 50 Hz), 7.8 Amps (120 VAC / 60 Hz)
Overload Protection	High temperature, output short, excessively low or high AC line voltage
Physical	
Dimensions	1.7" H x 19.0" W x 12.8" D (44 mm x 483 mm x 324 mm)
Shipping Weight	11.5 lb (5.2 kg)
Net Weight	8.5 lb (3.9 kg)
Cooling System	Single fan creates continuous left-to-right air flow
General	
Inputs (Control)	Remote input for Volume Control (PC041966), Mute input control via a normally open contact closure

ZA 2120-HZ specifications

Power Rating	
Amplifier Power	2 x 120 W @ 70/100V
Audio Performance	
Frequency Response	55 Hz - 20 kHz (+0/-3 dB, @ 1 W reference 1 kHz)
THD+N	\leq 0.3 % (at rated power)
Channel Separation (Crosstalk)	\leq –58 dBu (below rated power, 1 kHz)
Dynamic Range	88 dB
Audio Inputs	
Input Channels	1 unbalanced, 1 balanced
Connectors	Stereo RCA, 5-pin Euroblock
Input Range	-8 dBu to 22 dBu
Input Impedance	20 kΩ
Maximum Input Level	22 dBu
Nominal Input Level	4 dBu
Audio Outputs	
Outputs	2
Connectors	2-pin inverted Euroblock
Nominal Output Level	2 x 120 W @ 70/100V
Indicators and Controls	
Power LED	Solid blue indicates power is on, blinking blue indicates standby mode
Input Signal Clip LED	Green indicates input signal is within -37 dBu to 11 dBu, red indicates signal is over 11 dBu
Output Signal Clip LED	Green indicates output signal is within –46 dBFS to –2 dBFS, red indicates signal is over –2 dBFS, approximately 80 W/channel, for each output 120 watts is 0 dBFS
Controls, Front Panel	Power On/Off
Controls, Rear Panel	Auto Standby: On/Off switch, Input: Dual/Summed switch, Remote 1 Control: Zone 1/Zone 1+2 switch, Output Voltage: 70/100V switch, Mute, Output trims, Remote (x2)
Electrical	
Mains Voltage	100 VAC - 240 VAC (±10%, 50/60 Hz)
AC Power Consumption	23 W (Standby), 300 W (Max)
Mains Connector	Standard IEC (C14)
Maximum Inrush Current	12.6 Amps (230 VAC / 50 Hz), 7.8 Amps (120 VAC / 60 Hz)
Overload Protection	High temperature, output short, excessively low or high AC line voltage
Physical	
Dimensions	1.7" H x 19.0" W x 12.8" D (44 mm x 483 mm x 324 mm)
Shipping Weight	11.5 lb (5.2 kg)
Net Weight	8.5 lb (3.9 kg)
Cooling System	Single fan creates continuous left-to-right air flow
General	
Inputs (Control)	2 remote inputs for Volume Control (PC041966), Mute input control via a normally open contact closure





IZA 2120-HZ Integrated Zone Amplifier



