

**SubZero**

**SUBZERO  
AMPLIFIER  
SERIES**

SZ-ZA120 / ZA240

**USER MANUAL**

## WARNING!

Do not open cover. No user-serviceable parts inside. Refer servicing to qualified service personnel. Do not place the product in a location near a heat source such as a radiator, or in an area subject to direct sunlight, excessive dust, mechanical vibration or shock. The product must not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the product. No naked flame sources, such as lighted candles, should be placed on the product. Allow adequate air circulation and avoid obstructing vents (if present) to prevent internal heat build-up. The ventilation must not be impeded by covering the appliance with items such as newspapers, table-cloths, curtains etc.

## VAROVÁNÍ!

Nezakrývejte. Uvnitř nejsou žádné součásti opravitelné uživatelem. S požadavkem na servis se odkaže na kvalifikované servisní oddělení. Neumisťujte produkt v blízkosti zdroje tepla, jako je radiátor, nebo na místo s přímým slunečním světlem, nadměrným prášením, mechanickými vibracemi nebo šokem. Produkt nesmí přijít do kontaktu s vodou a žádné objekty naplněné tekutinami, jako například vázy, by neměly být umístěny na produkt. Žádné zdroje otevřeného ohně, jako například svíčky, by neměly být umístěny na produkt. Umožněte dostatečnou cirkulaci vzduchu a vyhněte se obstrukci ventilátorů (pokud jsou přítomné) pro předejití interního přehřívání. Ventilace nesmí být narušena překrytím zařízení výrobky jako např. noviny, kuchyňské utěrky, záclony apod.

## DVARSEL!

Dækslet må ikke åbnes. Ingen bruger-udskeftelige dele indeni. Overlad service til kvalificeret service personale. Placer ikke produktet i nærheden af varmekilder såsom en radiator eller i direkte sollys, meget støv, mekaniske vibrationer eller stød. Produktet må ikke udsættes for vand eller stænk, og ingen genstande fyldt med væsker, f.eks. vaser, må anbringes på produktet. Må ikke placeres nær åben ild, tændte stearinlys må ikke placeres på produktet. Vær sikker på at der er tilstrækkelig luftcirkulation og undgå at dække ventiler (hvis der er nogen) for at undgå at produktet bliver varmt. Ventilationen må ikke blokeres med overdækning af apparatet med genstande som aviser, dug, gardiner osv.

## WAARSCHUWING!

Maak de behuizing niet open. Dit toestel bevat geen onderdelen die door de gebruiker kunnen worden vervangen. Laat onderhoud over aan bevoegd onderhoudspersoneel. Plaats het product niet in de buurt van een hittebron zoals een radiator of in direct zonlicht of in een stofrijke omgeving, mechanische vibratie of schok. Plaats het product niet in de buurt van spattende of lekkende voorwerpen gevuld met een vloeistof zoals bijvoorbeeld een vaas. Er mogen geen open vlammen zoals aangestoken kaarsen op de apparatuur worden geplaatst. Zorg om overhitting te voorkomen voor voldoende ventilatie en bellemmer ventilatieroosters niet. Bedek het product niet met dingen zoals kranten, tafellakens, gordijnen etc.

## VAROITUS!

Älä avaa kantta. Ei sisällä käyttäjä-huollettavia osia. Huollot saa suorittaa vain pätevä huoltomies. Älä säilytä tuotetta minkään kuuman lähellä kuten patteri tai suorassa auringonpaisteessa, pölyisessä, mekaanisessa värinässä tai iskussa. Tuotetta ei saa altistaa tippuvalle tai loiskeelle tai nesteitä sisältäviä tuotteita kuten maljakko eivät saa olla tuotteen lähetyvillä. Avotulia kuten sytytetty kynttilä ei saa olla tuotteen päällä. Salli riittävä ilmankierto ja vältä tuuletusaukkojen tukkiminen (jos sellaisia on olemassa) estämään sisäisen lämmön muodostuminen. Tuuletusta ei saa estää peittämällä laite esineillä, kuten sanomalehdillä, pöytäliinoilla, verhoilla jne.

## ATTENTION!

Ne pas ouvrir le couvercle. Aucune pièce interne réparable par l'utilisateur. Confier la réparation à du personnel de réparation qualifié. Ne pas laisser l'appareil à proximité d'une source de chaleur telle qu'un radiateur, dans un endroit directement exposé aux rayons du soleil, trop poussiéreux, ou pouvant subir des chocs mécaniques. L'appareil ne doit pas être exposé aux gouttes d'eau et aux éclaboussures, et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé dessus. Ne placer aucune source de flamme nue, telle qu'une bougie allumée, sur l'appareil. Assurer une circulation d'air suffisante et éviter d'obstruer les fentes (le cas échéant) afin d'éviter une surchauffe interne. La ventilation ne doit pas être bloquée en couvrant l'appareil avec des objets tels que des journaux, des nappes, des rideaux, etc.

## WARNUNG!

Öffnen Sie nicht das Gehäuse. Im Inneren befinden sich keine vom Benutzer zu wartenden Teile. Überlassen Sie Wartungsarbeiten qualifiziertem Fachpersonal. Stellen Sie das Produkt nicht an einen Ort in der Nähe einer Wärmequelle wie etwa eines Heizkörpers oder in einem Bereich mit direktem Sonnenlicht, übermäßigem Staub, mechanischen Vibrationen oder Stößen. Schützen Sie das Produkt vor tropfenden oder spritzenden Flüssigkeiten, und stellen Sie keine mit Flüssigkeiten gefüllten Gegenstände wie Vasen auf das Produkt. Offene Feuerquellen wie Kerzen dürfen nicht auf dem Gerät abgestellt werden. Sorgen Sie für eine ausreichende Luftzirkulation und vermeiden Sie, dass die Lüftungsschlitze (falls vorhanden) abgedeckt werden, um einen internen Wärmestau zu verhindern. Die Belüftung darf nicht durch Abdecken des Gerätes mit Gegenständen wie Zeitungen, Tischdecken, Vorhängen usw. blockiert werden.

EN

## AVVERTIMENTO!

IT

Non aprire il coperchio. Se fosse necessario, riferirsi ad un esperto. Non esporre il prodotto a fonti di calore, luce del sole diretta, polvere, vibrazioni meccaniche o altri possibili shock. Non esporre il prodotto a perdite di liquido o a spruzzi. Non appoggiare nessun oggetto contenente acqua sul prodotto. Non esporre il prodotto a fuoco, candele o oggetti simili. Assicurarsi la circolazione dell'aria e non ostruire le ventole, se presenti, per evitare il surriscaldamento. La ventilazione non deve subire impedimenti dovuti a giornali, tovaglie, tende, ecc.

## ADVARSEL!

NO

Ikke åpne dekslet. Inneholder ingen deler som kan brukes. Overlat reparasjon til kvalifisert servicepersonell. Ikke plasser produktet i nærheten av varmekilder som f.eks. en radiator, eller i områder som er utsatt for direkte sollys, mye støv, mekanisk vibrasjon eller støt. Produktet må ikke utsettes for drypping eller spruting, og gjenstander som er fylt med væsker, som f.eks. vaser, skal ikke plasseres på produktet. Åpne flammer, som f.eks. tente lys, bør ikke plasseres på produktet. Tillat tilstrekkelig luft sirkulasjon og unngå å blokkere ventiler (hvis tilstede) for å forhindre intern varmeoppsamling. Pass på at ventilasjon ikke hindres ved å unngå å dekke apparatet med ting som aviser, bordduker, gardiner osv.

## OSTRZEŻENIE!

PL

Nie otwierać pokrywy. W środku nie ma części nadających się do naprawy przez użytkownika. Prosimy pozostawić serwis dla wyszkolonego personelu. Nie umieszczaj produktu w pobliżu źródła ciepła, np. grzejnika, lub w bezpośrednim świetle słonecznym, kurzu, czy mechanicznym wibracjom. Produkt ten nie może być ekspozowany na kapanie lub chlapanie, a przedmioty wypełnione płynami, takie jak wazy, nie powinny być na nim umieszczane. Źródła otwartego ognia, takie jak np. świece, nie powinny być umiejscowiane na produkcie. Należy zapewnić odpowiednią wentylację i unikać blokowania otworów wentylacyjnych, aby uniknąć niepożądanego wzrostu temperatury. Wentylacja nie powinna być utrudniana poprzez nakrywanie urządzenia gazetami, obrusami czy zasłonami.

## ATENÇÃO!

PT

Não abra a tampa. Não tente a reparação do instrumento por si. Dirija-se a pessoal qualificado. Não aproxime a uma fonte de calor excessivo ou exponha o produto à luz solar, poeira, vibração ou choque. Não mantenha o produto num local húmido ou perto líquidos como vasos, etc. Não aproxime o produto a fontes de fogo vivo, como velas. Mantenha o produto num espaço suficientemente arejado de forma a evitar sobre-aquecimento. Não bloqueie a ventilação do instrumento, cobrindo-o com artigos como cortinas, toalhas de mesa ou jornais.

## VÝSTRAHA!

SK

Neotvárajte kryt. Vo vnútri nie sú žiadne súčasti, ktoré sú opraviteľné užívateľom. S požiadavkou na servis sa obráťte na kvalifikované servisné stredisko. Nevystavujte produkt do blízkosti akéhokoľvek tepelného zdroja ako napr. radiátora, alebo do kontaktu so slnečným žiarením, nadmerným prášnym prostredím, mechanickým vibráciám alebo šokom. Produkt nesmie prísť do kontaktu s vodou a žiadny objekt naplnený vodou, ako napr. váza, nesmie byť umiestnený na produkt. Žiadne výrobky s otvoreným ohňom, ako napr. sviečky, by nemali byť umiestnené na produkt. Umožnite dostatočnú cirkuláciu vzduchu a zabráňte obštrukcii ventilačných otvorov (ak sú prítomné) kvôli prevencii vnútorného prehrievania. Ventilácia nesmie byť narušená prekrytím zariadenia výrobkami ako napr. noviny, kuchyňské utierky, záclony a pod.

## OPOZORILO!

SI

Ne odpirajte pokrova. V notranjosti ni nobenih delov, ki jih uporabnik lahko sam popravlja. Popravilo prepustite usposobljenemu oseboju. Ne postavljajte izdelka na lokacijo v bližini vira toplote, kot je radiator, ali na območje, ki je izpostavljeno neposredni sončni svetlobi, pretiranem prahu, mehanskim tresljajem ali udarcem. Izdelek ne sme biti izpostavljen kapljanju ali brizganju in nobeni predmeti, napolnjeni z vodo, kot so vaze, se ne smejo postaviti na izdelek. Nobenega od virov odprtega ognja, kot so vžgane sveče, se ne sme postavljati na izdelek. Zagotovite zadostno kroženje zraka in umaknite ovire na odprtinah (če obstajajo), zaradi preprečevanja kopičenja notranje toplote. Ventilacija se ne sme ovirati s prekrivanjem naprave s predmeti, kot so časopisi, prti, zavese itn.

## ¡ADVERTENCIA!

ES

No abra la tapa. No intente reparar el aparato usted mismo. Llévelo a reparar por personal calificado. No coloque el aparato cerca de fuentes de calor excesivo o donde esté expuesto a luz solar directa, golpes, vibraciones o polvo. Evite lugares expuestos a humedad. No ponga objetos llenos de líquidos en la superficie de este aparato. No se deben colocar fuentes de llama desnuda, como velas encendidas, en la superficie de este aparato. Mantenga suficiente espacio alrededor del aparato para permitir una ventilación adecuada. No obstruya o tape las aberturas con objetos como periódicos, manteles, cortinas, etc.

## VARNING!

SE

Öppna ej locket. Inga användarvänliga delar inuti. För reparationer vänd er till kvalificerad servicepersonal. Ställ ej produkten vid en värmekälla t.ex element, i direkt solljus, damm, elektronisk vibration eller shock. Produkten bör ej bli utsatt för droppande eller stänk och inga objekt fyllda med vätskor som t.ex vaser skall ställas på produkten. Ingen källa till öppna flammor som t.ex tända ljus bör placeras på produkten. Tillåt tillräcklig luftcirkulation och blockera ej eventuella ventiler för att undvika intern överhettning. Ventilen bör ej täckas av föremål såsom tidningar, dukar, gardiner etc.

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# INTRODUCTION

Thank you for purchasing the SubZero ZA120 / ZA240 Amplifier.

To ensure you get the most from your new product, please read this manual carefully.

## FEATURES - ZA120

- 100V and COM outputs for powering ceiling/wall speakers.
- Single speaker output suitable for 8ohm speakers.
- Two balanced XLR inputs.
- Two jack/line inputs.
- Two stereo RCA outputs.
- Built-In media player with Bluetooth connectivity plus USB and SD card ports.

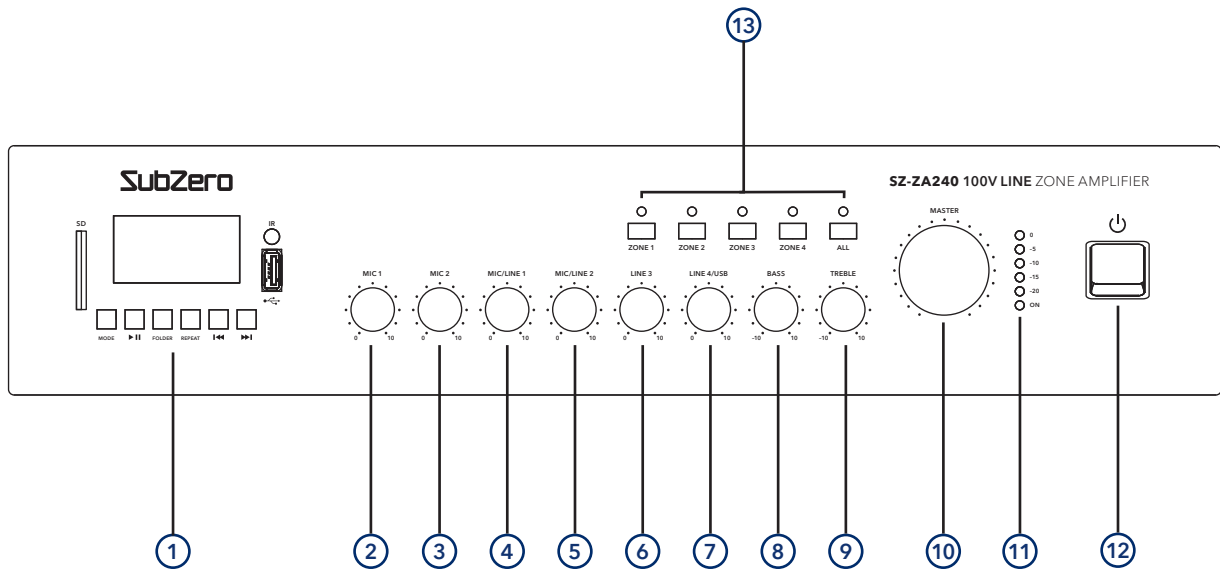
## FEATURES - ZA240

- Four zoned 100V and COM outputs for powering up to four speaker zones.
- Single speaker output suitable for 8ohm speakers.
- Two balanced XLR inputs.
- Two jack/line inputs.
- Two stereo RCA inputs.
- Built-In media player with Bluetooth connectivity plus USB and SD card ports.

## BOX CONTENTS

- SubZero ZA120 / ZA240
- UK Power Cable
- EU Power Cable
- User Manual

# OVERVIEW



## FRONT PANEL

### 1. MEDIA PLAYER

Media Player with USB/SD/Bluetooth (see Media Player section below).

### 2. MIC 1

Increases or decreases the volume of MIC 1 input.

### 3. MIC 2

Increases or decreases the volume of MIC 2 input.

### 4. MIC / LINE 1

Increases or decreases the volume of MIC / LINE 1 inputs.

### 5. MIC / LINE 2

Increases or decreases the volume of MIC / LINE 2 inputs.

### 6. LINE 3

Increases or decreases the volume of LINE 3 input.

### 7. LINE 4 / USB

Increases or decreases the volume of LINE 4 / USB input.

### 8. BASS EQ CONTROL

Increases or decreases the amount of the low/ bass frequencies by 10dB.

### 9. TREBLE EQ CONTROL

Increases or decreases the amount of the high/ treble frequencies by 10dB.

### 10. MASTER VOLUME CONTROL

Increases or decreases the master output volume.

### 11. OUTPUT LEVEL METER

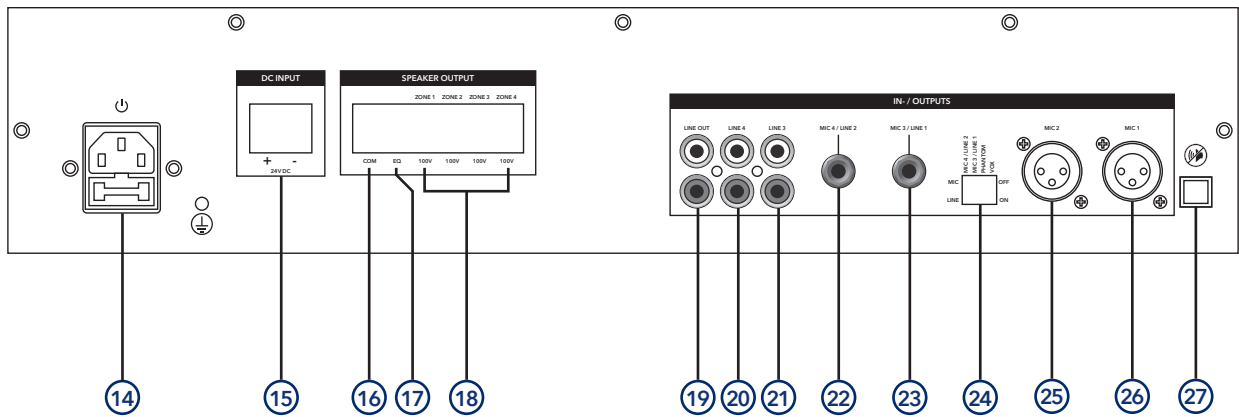
Visual display of the output volume.

### 12. POWER ON/OFF SWITCH

Turns the amplifier on or off.

### 13. SPEAKER ZONE SELECTOR BUTTONS (SZ-ZA240 Only)

Selects which zones are active. Pressed in = On, pressed out = Off.



## REAR PANEL

### 14. IEC MAINS INLET & FUSE HOLDER

Connect the supplied power cable here.

### 15. DC24V POWER TERMINALS

Connect a DC24V power supply here (such as a battery).

### 16. COM SPEAKER TERMINAL

Connection for COM line to speakers (see Connection & Set Up guide below).

### 17. 8Ω SPEAKER TERMINAL

Connection for 8ohm line to speakers (see Connection & Set Up guide below).

### 18. 4 ZONE 100V SPEAKER TERMINALS (ZA240 ONLY)

Connection for 100V line to speakers in to zones 1 to 4 (see Connection & Set Up guide below).

### 19. LINE OUT CONNECTORS (RCA PHONO)

Output connection for linking to further amplifiers (simulates master output).

### 20. LINE 4 INPUT (RCA PHONO)

Input for line devices (i.e. CD Players).

### 21. LINE 3 INPUT (RCA PHONO)

Input for line devices (i.e. CD Players).

### 22. MIC/LINE 2 INPUT (6.3MM TS JACK)

Input for line devices (i.e. CD Players) or dynamic microphone.

### 23. MIC/LINE 1 INPUT (6.3MM TS JACK)

Input for line devices (i.e. CD Players) or dynamic microphone.

### 24. DIP SWITCHES

(See DIP Switches section below).

### 25. MIC 2 INPUT (BALANCED XLR)

Input for dynamic or condenser microphones (to provide +24v phantom power to condenser, see DIP Switches section below).

### 26. MIC 1 INPUT (BALANCED XLR)

Input for dynamic or condenser microphone (to provide +48v phantom power to condenser, see DIP Switches section below).

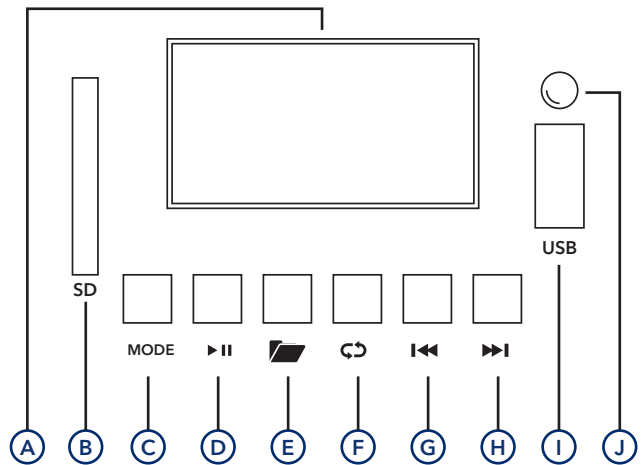
### 27. 24V MUTE CONTACTS

Connection for emergency mute function.

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# MEDIA PLAYER

- A. MEDIA PLAYER DISPLAY
- B. SD CARD SLOT
- C. MODE SELECTING -USB/BLUETOOTH/SD
- D. PLAY / PAUSE BUTTON
- E. FOLDER BUTTON
- F. REPEAT MODE SETTING
- G. PREVIOUS TRACK OR HOLD FOR VOLUME DECREASE
- H. NEXT TRACK OR HOLD FOR VOLUME INCREASE
- I. USB INPUT
- J. REMOTE CONTROL ACCEPTOR



## BLUETOOTH

To connect a Bluetooth enabled device to the ZA series amplifiers, please follow the below steps (ensure that the amplifier is powered on and within range):

- Open the Bluetooth settings on the Bluetooth enabled device.
- Scan for Bluetooth devices and search for 'SubZero' in the devices list.
- Select 'SubZero'. The Bluetooth enabled device should confirm that it is now connected.
- Play audio from the Bluetooth enabled device, ensuring that volume is turned up.
- Turn up the CH7/8 / MP3 volume control on the built-in mixer, ensuring the CH7/8 / MP3 button is pressed in.

## USB/SD PLAYER

When a USB memory stick is inserted into the USB port (I) or SD card into the SD slot (B), the USB or SD symbol will show in the display and any compressed audio files will start to play automatically.

Turn up the USB/LINE4 volume control on the amplifier to the required level.

Pressing the REPEAT button will step through the repeat modes - ONE: repeat current track, RAND: random, ALL: repeat all.

Pressing the Previous Track button skips backwards through tracks on the memory device. Press and hold this button to decrease the playback volume.

Pressing the Next Track button briefly steps forwards through tracks on the memory device. Press and hold this button to increase the playback volume.

Pressing the Play/Pause button will Pause the current track. Pressing it again will resume playback.

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# REMOTE CONTROL FOR MEDIA PLAYER

## 1. PLAY/PAUSE

Starts or stops the current track being played via the digital media player (i.e. USB, SD or Bluetooth).

## 2. CHANNEL DECREASE

No function.

## 3. CHANNEL INCREASE

No function.

## 4. EQ SETTING

Controls the tone level of the digital media player.

## 5. TRACK 0-99

Select a certain track number by pressing either one, or a combination, of numbers between 0 and 99.

## 6. VOLUME INCREASE

Increases the master output volume of the digital media player.

## 7. VOLUME DECREASE

Decreases the master output volume of the digital media player.

## 8. SKIP TRACK FORWARDS

Selects the next track.

## 9. SKIP TRACK BACKWARDS

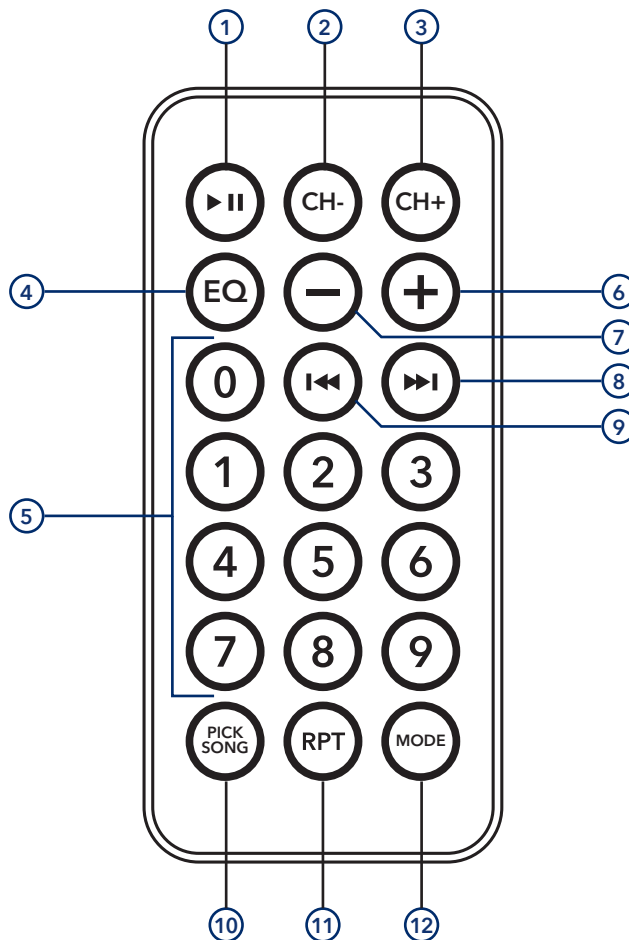
Selects the previous track.

## 10. RANDOM TRACK

Activates the random track setting, whereby the digital media will play tracks in a random order from the selected device. To deactivate the setting, press the button again.

## 11. REPEAT TRACK

Activates the repeat track setting. Pressing the button once will cause repetition of the current track. Pressing the button twice will cause repetition of all tracks on the selected media device, in order. Pressing the button a third time will deactivate the setting.



## 12. MODE

Selects the preferred media device. Pressing the button will cycle between the USB, SD and Bluetooth device inputs, starting from the currently selected device.

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## CONNECTION & SETUP

Always ensure the device is powered off and the volume controls are turned down before inserting or removing cables.

Connect the rear IEC inlet to the mains using the supplied power cable. Ensure that the voltage is correct as indicated on the voltage selector and that the mains outlet is switched on. Alternatively, the amplifier can be powered by a 24V battery, such as a lorry or boat battery, by connecting the "+" and "-" of the battery to the 24Vdc INPUT on the rear panel. Please ensure that DC cables can handle the required current (10A minimum is recommended)

The ZA series amplifiers have 6 input channels. MIC 1 and MIC 2 inputs are dedicated microphone channels. Connect the main announcement microphones to these channel using a balanced XLR cable. Connect microphones or line level devices to the MIC/LINE 1 and MIC/LINE 2 inputs using 6.3mm (1/4") jack cables. Please ensure the correct sensitivity is selected for the type of input device you are connecting (see DIP Switch section on page 13). Connect any other line level devices to the LINE 3 and LINE 4 inputs using RCA Phono cables.

### **NOTE:**

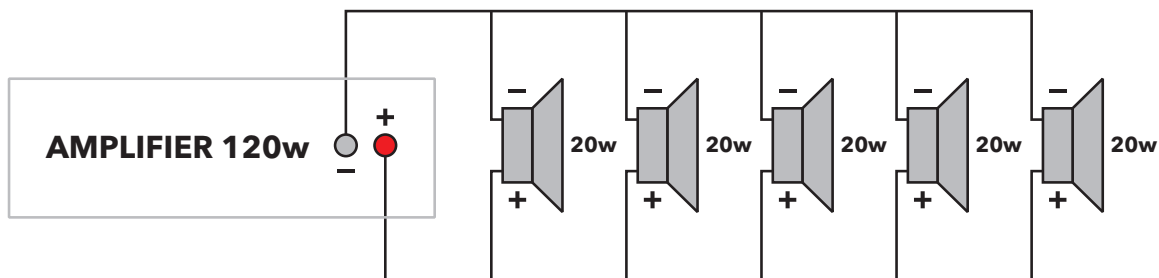
The ZA series amplifiers have a mono output, and therefore stereo signals will be summed together.

Further mixer-amplifiers or slave amplifiers can be connected from the rear LINE OUT sockets, using an RCA Phono cable. This output carries the full mix of all channels as produced through the speakers.

### **SPEAKER OUTPUTS**

The ZA series amplifiers can be used either as 100V line amplifiers or standard low impedance power amplifiers. Please note these 2 configurations cannot be used together.





### 100V LINE SYSTEMS

For 100V line systems, connect the amplifier to the first speaker in the system using double-insulated speaker wire which has adequate current rating to handle the total output of the amplifier.

Connect the "100V" output terminal to the positive (+) connection of the speaker and "COM" output to the negative (-) connection of the speaker. Connect further speakers in parallel to the first speaker with all positive terminals connected and all negative terminals connected as shown above.

A 100V line speaker system can comprise of multiple speakers connected in parallel. The number of speakers you are able to connect to a single amplifier is dependent on the amplifiers power rating. For most purposes, it is advised to connect as many speakers as needed with a combined wattage of no more than 90% of the amplifier's output power rating.

#### NOTE:

- For the ZA240 the total output power is split across the 4 zones, dependant on how many speakers are connected to each zone. It is not possible to achieve 240W of total power output for each zone individually.

### SPEAKER ZONES (ZA240 ONLY)

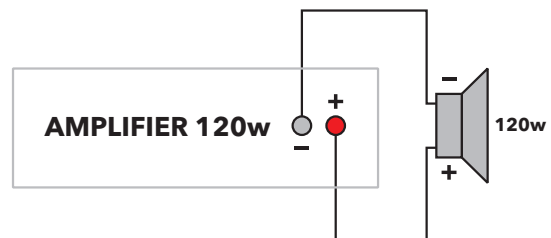
The ZA240 has 4 separate terminals for 100V speakers. The speakers connected to the terminals labelled ZONE 1 / ZONE 2 / ZONE 3 / ZONE 4 (+) and COM (-) are controlled by the 4 corresponding zone switches on the front panel (e.g. a speaker connected to ZONE 1 and COM will only work if Zone 1 is selected on the front panel).

The ALL switch enables all zones simultaneously.

### LOW IMPEDENCE SPEAKERS

The ZA Series amplifiers also include an output for a single 8ohm speaker. Connect the "8Ω" terminal to the positive (+) speaker connection and "COM" terminal to the negative (-) speaker connection.

Please ensure that the power of the connected 8ohm speaker is equal to the total output power of the amplifier. For example, for the ZA120, which features 120w of total output power, an 8ohm speaker with a output power rating of 120w is recommended.



#### NOTE:

- It is important to ensure that the speaker load is no less than 8Ω and that the power handling of the speaker is equal to or greater than the output power of the amplifier.

- **DO NOT USE 8Ω and 100V OUTPUTS AT THE SAME TIME.**

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## OPERATION

Once you have completed your connections and settings, please follow the below steps:

- Turn all the volume controls down to their lowest setting and turn on the power using the power On/Off switch.
- Turn the Master volume to 12 o'clock, play a signal into one of the line inputs, and gradually increase the volume control for the input channel until the signal is heard through the speakers. (Note: If a line input is not available, the built-in media player can be used).
- Repeat this process as necessary for any other required inputs.
- The output of the amplifier is represented on the VU level meter LEDs. Please take care to ensure the Red '0' LED does not illuminate during use. If the red LED illuminates during use it may be an indication of distortion or clipping of the output signal. If this occurs lower the channel input volume and master volume as necessary.
- When powering down the amplifier, ensure the Master volume control is turned all the way down before using the power On/Off switch to turn off the amplifier.

### CONNECTING A MICROPHONE USING XLR

Once a microphone has been connected to the MIC 1 or MIC 2 input, make sure it is switched on and if phantom power is required, ensure this feature is enabled on the DIP switch (see DIP Switches section on page 13), then follow the below steps:

- Turn the Master volume to 12 o'clock, and gradually increase the MIC 1/MIC 2 input volume whilst speaking into the microphone until the required volume level is heard through the speakers.

**NOTE:**

The microphone should not be able to pick up the sound from the speakers, as this can cause feedback to occur.

- Repeat this process for any other required microphone connections.

### EQ

Using the Bass and Treble EQ controls you can adjust the tone of the master output.

At the 12 o'clock position, these controls are applying no effect to the signal.

Rotating either the Bass or Treble control clockwise will boost the frequencies, whilst moving it anticlockwise will cut the frequencies.

Adjust these EQ controls to suit the type of audio being played, or to compensate for the acoustics of the room.

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## DIP SWITCHES

### VOX

When a speaking into a microphone connected to the MIC1 channel the VOX function will lower the volume of the input channels by -40dB, and return them to normal when speaking has stopped.

### PHANTOM

Use this switch to provide +24V phantom power to condenser microphones.

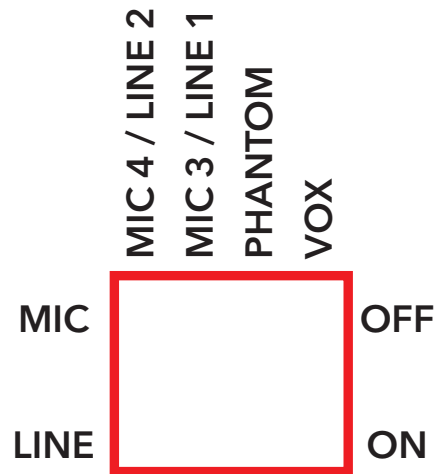
### MIC3/LINE1

Use this switch to change the sensitivity of channel MIC3/LINE1 between MIC and LINE levels.

### MIC4/LINE2

Use this switch to change the sensitivity of channel MIC4/LINE2 between MIC and LINE levels.

**Note:** Ensure the amplifier is switched off before making any changes to the DIP switches. Making any changes when the amplifier is switched on may cause loud noises which can damage the speakers



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## SPECIFICATIONS

### SZ-ZA120

Power supply	220-240Vac, 50/60Hz (IEC) or 24Vdc option (screw terminals)
Output power: RMS	120Wrms
Outputs : Speaker	100V/ 8Ω / COM
Output: Line	RCA signal output
Inputs	2-Mic XLR, 2 x mic/line jack, 2 x RCA line, 24V mute contacts
Volume controls	Mic1, Mic2, mic/line (1+2), line3, line4 / (USB), master
Equalizer: Bass / Treble	120Hz ±10dB / 10kHz ±10dB
Bluetooth version	4.0
Phantom power	+24V (MIC 1, MIC2 input)
THD	<0.5%
Dimensions	488 x 345 x 100mm
Weight	8.6KG

### SZ-ZA240

Power supply	220-240Vac, 50/60Hz (IEC) or 24Vdc option (screw terminals)
Output power: RMS	240Wrms
Outputs : Speaker	4X100V /8Ω / COM
Output: Line	RCA signal output
Inputs	2-Mic XLR, 2 x mic/line jack, 2 x RCA line, 24V mute contacts
Volume controls	Mic1, Mic2, mic/line (1+2), line3, line4 / (USB), master
Equalizer: Bass / Treble	120Hz ±10dB / 10kHz ±10dB
Bluetooth version	4.0
Phantom power	+24V (MIC 1, MIC2 input)
THD	<0.5%
Dimensions	488 x 345 x 100mm
Weight	9.8KG



KETTLESTRING LANE | YORK | YO30 4XF | UNITED KINGDOM  
METALLVÄGEN 45A | 195 72 ROSERSBERG | STOCKHOLM | SVERIGE  
LAHNSTRASSE 27 | 45478 MÜLHEIM AN DER RUHR | DEUTSCHLAND

If you have any more questions about this product, please do not hesitate to contact the Gear4music Customer Service Team on: **+44 (0) 330 365 4444** or **[info@gear4music.com](mailto:info@gear4music.com)**