



User Guide



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Introduction

BlacklineX Powered

Thank you for purchasing a Martin Audio BlacklineX Powered Series system. This series integrates all of Martin Audio's engineering expertise into easy-to-use, quick-to-deploy, high-powered loudspeakers that bring professional quality sound, top-flight performance and road-worthy durability into the hands of hard-working industry professionals — from musicians, music bars and mobile DJ's, to corporate AV, House of Worship installations and more. With optional Bluetooth control, streaming and a built-in three channel mixer, BlacklineX Powered puts Martin Audio's signature stadium sound at your fingertips.

Comprising two two-way systems — the ultra-compact XP12 and the powerful XP15 — and the XP118 subwoofer, the multi-purpose BlacklineX Powered Series raises the performance of loudspeaker systems in its class to a new level. Because the XP12, XP15 and XP118 are active systems with on-board DSP, they can be used without a controller, making system set up extremely quick and easy. Simply connect a signal feed direct from the mixing console, and eliminate the need for amplifier racks.



Important Safety Instructions – Read Before Proceeding

Please read these instructions and retain for future reference. Heed all warnings and follow all instructions.

- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat source such as radiators, heat registers, stoves, or other such apparatus (including amplifiers) that produce heat.
- Do not defeat the purpose of the grounding type plug, a grounding plug has two blades and a grounding prong, the third prong is provided for your safety.
- If the provided plug does not fit your outlet consult an electrician for a replacement type.
- Protect power cords from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit the apparatus.
- Only use attachments and accessories specified by Martin Audio Ltd.
- Use only with the cart, stand, tripod, bracket, flying hardware 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 tripping.
- Unplug the apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Service is required when the apparatus has been damaged in any way, such as power-supply cable or plug damaged, liquid has been spilled or objects have fallen into the apparatus, this apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- This apparatus shall not be exposed to dripping or splashing, and no object filled with liquids, such as vases or beer glasses, shall be placed on the apparatus.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- This apparatus has been designed with Class-I construction and must be connected to a mains socket outlet with a protective earthing connection (the third grounding prong).
- This apparatus has been equipped with a rocker-style AC mains power switch. This switch is located on the rear panel and should remain readily accessible to the user.
- The mains plug or an appliance coupler is used as the disconnect device, so the disconnect device shall remain readily operable.



DO NOT EXPOSE TO
RAIN OR MOISTURE



NE PAS EXPOSER A LA
PLUIE NI A L'HUMIDITE



Caution

To reduce the risk of electric shock do not remove the back cover. There are no user serviceable parts inside the unit. Refer servicing to qualified service personnel only. Call Martin Audio, Ltd on +44 (0) 1494 535312 or e-mail info@martin-audio.com for service.

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 significant magnitude to constitute a risk of electric shock to persons.

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

Unpacking the Units

Each Martin Audio BlacklineX Powered Series loudspeaker is built to the highest standard and thoroughly inspected before it leaves the factory. After unpacking the system, examine it carefully for any signs of transit damage and inform your dealer or distributor if any such damage is found. It is suggested that you retain the original packaging so that the system can be repacked at a future date if necessary.

Please note that Martin Audio and its distributors cannot accept any responsibility for damage to any returned product, through the use of non-approved packaging. When the product has reached the end of its useful life, please dispose of it responsibly through a recycling centre.

Approvals

SAFETY STANDARD: EN IEC 62368-1:2020 + A11:2020

EMC Directive 2014/30/EU, Article 6
EN 55032:2012, Class B + AC:2013
EN 55032:2015, Class B
EN 55035:2017
EN 61000-3-2:2014
EN 61000-3-3:2013
EN 55103-2:2009, environment E2
EN 301 489-17:2017 V3.1.1

CISPR 32:2012, Class B
CISPR 32:2015, Class B
CISPR 35:2016
IEC 61000-3-2:2014
IEC 61000-3-3:2013
47 CFR Part 15, Subpart B, Class B
(Complies with limits from §15.109 and §15.249)
ICES003 Issue 6:2016

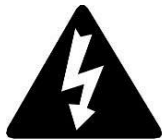
Safety Rules

- This BlacklineX Powered product must be powered exclusively by an earth connected mains socket in electrical networks compliant to IEC 60364 or similar local rules. It is vital that the user verifies this fundamental safety requirement. If you are in any doubt, get the installation checked by qualified personnel before use.
- The means of disconnection from the mains is the mains plug. We strongly recommend that you power the BlacklineX Powered loudspeakers via a professionally installed mains supply with an easily accessible on/off switch or circuit breaker.
- Before powering the BlacklineX Powered loudspeaker, make sure that the unit is supplied with the correct mains operating voltage: 100 - 240V ~ 50 - 60Hz.
- The BlacklineX Powered products are protected by internal fuses located on the main amplifier board designated F500.
- Do not use this unit if the electrical power cord is frayed or broken.
- Do not remove the cover. Removing the cover will expose you to potentially dangerous voltage.

Consignes de sécurité importantes – Lire avant de commencer

Veuillez lire ces instructions et les conserver pour vous y référer ultérieurement. Respectez tous les avertissements et suivez toutes les instructions.

- Ne pas utiliser cet appareil à proximité de l'eau.
- Nettoyer uniquement avec un chiffon sec.
- Ne pas installer à proximité d'une source de chaleur telle qu'une flamme nue, un radiateur, une bouche de chaleur, un poêle ou d'autres appareils (dont les amplificateurs) produisant de la chaleur.
- Ne pas détériorer la sécurité de la fiche polarisée ou de la fiche de terre. Une fiche polarisée comporte deux lames dont l'une est plus large que l'autre. Une fiche de terre comporte deux lames et une troisième broche de mise à la terre. La lame la plus large ou la troisième broche assure la sécurité de l'utilisateur. Si la fiche fournie ne s'adapte pas à la prise électrique, demander à un électricien de remplacer la prise non conforme.
- Protéger le cordon d'alimentation afin que personne ne marche dessus et que rien ne le pince, en particulier au niveau des fiches des prises de courant et du point de sortie de l'appareil.
- Utiliser uniquement les accessoires spécifiés par le fabricant.
- Utiliser uniquement avec un chariot, un trépied, un support ou une table spécifiée par le fabricant ou vendu avec l'appareil. Si un chariot est utilisé, déplacer l'ensemble chariot-appareil avec précaution afin de ne pas le renverser, ce qui pourrait entraîner des blessures.
- Débrancher l'appareil pendant les orages ou quand il ne sera pas utilisé pendant longtemps.
- Confier toute réparation à du personnel qualifié. Des réparations sont nécessaires si l'appareil est endommagé d'une façon quelconque, par exemple : cordon ou prise d'alimentation endommagé, liquide renversé ou objet tombé à l'intérieur de l'appareil, exposition de l'appareil à la pluie ou à l'humidité, appareil qui ne marche pas normalement ou que l'on a fait tomber.
- La prise secteur ou un coupleur d'appareil électrique doit rester facilement utilisable.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

DO NOT EXPOSE TO
RAIN OR MOISTURE

ATTENTION
RISQUE DE CHOC ELECTRIQUE
NE PAS ENLEVER

NE PAS EXPOSER A LA
PLUIE NI A L'HUMIDITE



Series Overview

XP12

The XP12 fulfils the requirement for a compact system that can deliver high SPL — either as a stand-alone system or supplemented by the XP118 subwoofer. Featuring a 12" (300mm) LF driver unit and a 1" (25mm) exit compression driver on a rotatable horn, its 80° x 50° dispersion pattern is ideal for short to medium throw applications. The LF driver has a 2.5" (65mm) voice coil and a high BL motor, while the HF compression driver utilises a 1.75" (44mm) polyimide diaphragm for extended high frequency response.

The XP12's enclosure is constructed from birch/poplar plywood and coated in black textured paint. For easy removal, its steel grille is spring-fitted into the sides of the enclosure. The XP12 is fitted with M8 inserts for a wall bracket and eyebolt suspension, plus a pole-mount socket with a removable bung that maintains clean lines when the XP12 is used in install applications.



XP15

The XP15 is a high-powered two-way system designed for professional portable applications and installations that demand the ultimate in sonic performance from a single enclosure. With an accurately-defined 80° x 50° coverage pattern, it combines high output capability with exceptional sonic performance and impact.

The XP15 features a 15" (380mm)/3" (75mm) voice coil LF driver unit, and a 1" (25mm) exit HF compression driver with a 1.75" (44mm) polyimide diaphragm for extended high frequency response.

Its protective steel grille is spring-fitted into the sides of the enclosure for easy access to rotate the HF horn. The symmetrical, multi-angle enclosure is manufactured from birch/poplar ply and coated in textured black paint. The XP15 is fitted with M8 inserts for eyebolt suspension, plus a pole-mount socket.



XP118

The XP118 is a compact, high-performance powered subwoofer for use with BlacklineX Powered Series full-range loudspeakers. It extends the low-frequency operating range of the combined system to 42Hz and provides exceptional low frequency impact. It can be used singly, stacked or flown via integral M10 inserts and features a long-excursion 18" (460mm)/3" (75mm) voice coil driver in a compact reflex enclosure. Its four reflex ports have a large frontal area to reduce turbulent air noise at very high levels.

The XP118 enclosure is constructed from birch/poplar ply and finished in textured black paint. A perforated steel grille protects the driver. The enclosure has a 35mm pole-mount fitting in the top surface and two side handles.



Accessories

Wall Bracket

You can wall mount the XP12 in portrait using the standard WB10/12B wall bracket from Martin Audio. You can't wall mount the XP12 in landscape and you can't wall mount the XP15. The XP12 wall bracket has two parts enabling the wall section to be fitted at first fix stage when cables are run. The cabinet half can be fitted to the loudspeaker in advance of arriving at site so that final installation is just a case of joining the two halves of the bracket and adjusting the position for the coverage required and connecting the cable. The part number is:

XP12 WB10/12B



Eye Bolts

All BlacklineX Powered loudspeakers have threaded inserts available for flown applications in fixed installations. Both full range cabinets have M8 inserts and the XP118 has M10 inserts. The inserts can be used for fitting bespoke flying hardware or for flying using eye bolts. These must be forged steel shouldered types certified with a safe working load in excess of the cabinet weight.

Do NOT be tempted to use cheaper formed steel types commonly available from DIY stores as they are unsafe for flying heavy loudspeaker cabinets.

Correctly rated shouldered eye bolts are available from Martin Audio as an optional accessory. Part numbers are as follows:

M8 (XP12, XP15) HTKCT05

M10 (XP118) HTKCT06

Pole Mount

BlacklineX Powered loudspeakers have integral pole mount "top hat" fittings. These are fitted to the base of all full range loudspeakers; XP12 and XP15, and on the top of the XP118. The fittings all use the standard 35mm diameter so they can be used with any regular loudspeaker stand or accessory. The fitting in the subwoofers allows use of a mounting pole to elevate one of the full range cabinets on top of the sub. Martin Audio also makes a distance pole specifically for use with the BlacklineX Powered range. This will support any of the full range cabinets at the optimum height above an XP118. The part number is as follows:

Pole HTKCT04



Safety

Instructions

It is important that loudspeaker systems are used in a safe manner. Please take some time to review the following points concerning safe use of BlacklineX Powered loudspeaker systems.

Professional loudspeakers are capable of producing extremely high sound levels and should be used with care. Hearing loss is cumulative and can result from levels above 90dB if people are exposed for a long period. Never stand close to loudspeakers driven at high level.

Pole or Stand Mounting

BlacklineX Powered full-range loudspeakers incorporate pole mounting ("top hat") sockets so that they may be pole or stand mounted.

When using poles or stands, the following precautions are advised:

- Ensure that the stand will support the weight of the loudspeaker by checking the stand manufacturer's rating. See Section 10 for the weights and dimensions of the loudspeakers.
- Make sure that the stand is placed on a level surface and that its legs are fully extended.
- Do not place more than one loudspeaker on each stand.
- Run cables so that they do not present a trip hazard which could pull the loudspeaker over.
- When using a pole mount with a sub-bass system, observe similar precautions.

Stacking

- Ensure that the floor or stage is level and solid.
- Be aware that loudspeakers producing high-power levels can move or creep. To avoid this, place friction material between the floor and loudspeaker and between each loudspeaker or use strapping to secure the stack.

Rigging and Suspension

WARNING: Suspending the system should only be done by qualified personnel following safe rigging practices. Secure fixings to the building structure are vital. Seek help from architects, structural engineers or other specialists if in any doubt.

BlacklineX Powered Series enclosures are designed for portable applications but can be suspended singly by means of the threaded inserts provided. Enclosures are fitted internally with steel corner reinforcement brackets, where necessary, to ensure that each cabinet is strong enough to be hung from its top.

- Never suspend one enclosure from another to form an array or cluster using these fittings.
- The common practice of using commercially available eye bolts for suspension should only be undertaken with great caution. Only forged shoulder eye bolts should be considered, and it is important that the thread length is at least 30mm.
- Formed eye bolts i.e. those which are formed from a steel rod bent into an eye are not recommended.
- Eye bolts are strongest along the thread axis. Angling the enclosure will result in an angle pull and it is important to use eye bolts that are safe in these circumstances.

Connections

Power Connection

This is a standard 3-prong IEC power connector. Connect the detachable power cord (included in the packaging with the loudspeaker) to the power receptacle and plug the other end of the power cord into an AC outlet.

- Make sure that the AC power is matched to the AC power indicated on the rear panel (below the IEC receptacle)
- Disconnecting the plug's ground pin is dangerous. DOT NOT disconnect.

XLR and 1/4" Combo Inputs

Both input channels may accept a balanced mic signal using an XLR connector. They are wired as follows, according to standards specified by the AES (Audio Engineering Society).

XLR Balanced Wiring:

- Pin 1 = Shield (ground)
- Pin 2 = Positive (+ or hot)
- Pin 3 = Negative (– or cold)

In addition to accepting a balanced mic signal using an XLR connector, these input channels may also accept 1/4" line-level signals driven by balanced or unbalanced sources.

Additionally, both input channels may accept Hi-Z sources (such as guitars) via the 1/4" input without the need for a separate DI box.

To connect balanced lines to these inputs, use a 1/4" Tip-Ring-Sleeve (TRS) plug. "TRS" stands for Tip-Ring-Sleeve, the three connection points available on a stereo 1/4" or balanced phone jack or plug. TRS jacks and plugs are used for balanced signals and are wired as follows:

1/4" TRS Balanced Mono Wiring:

- Sleeve = Shield
- Tip = Hot (+)
- Ring = Cold (–)

To connect unbalanced lines to these inputs, use a 1/4" mono (TS) phone plug, wired as follows:

1/4" TS Unbalanced Mono Wiring:

- Sleeve = Shield
- Tip = Hot (+)

Mix Out

This is a male XLR-type connector that produces the mix of the three input channels determined by the level and EQ settings entered. Use it to daisy-chain several BlacklineX Powered loudspeakers together off the same signal source(s).

They are wired as follows, according to standards specified by the AES (Audio Engineering Society):

Balanced XLR Output Connector:

- Pin 1 – Shield (ground)
- Pin 2 – Positive (+ or hot)
- Pin 3 – Negative (– or cold)

Rear Panel Controls

Power Switch

Press the bottom of this rocker switch inwards to turn on the loudspeaker. Press the top of this rocker switch inwards to turn off the loudspeaker.

As a general guide, the mixer (or other signal source) should be turned on first, subwoofers next and loudspeakers last. As such, the loudspeakers should also be turned off first, followed by the subwoofers, then the mixer. This will reduce the possibility of any turn-on or turn-off thumps and other noises generated by any upstream equipment from coming out of the loudspeakers.

LCD Display

This modern, high-resolution, all-colour TFT LCD display is one of the most vital features of the BlacklineX Powered loudspeakers. It displays loudspeaker information including (but not limited to) levels, EQ, selected voicing, pairing the speakers and a Bluetooth device, settings, lock / unlock status and other parameters. This is simply for control and monitoring locally at the loudspeaker.

Loudspeaker Control

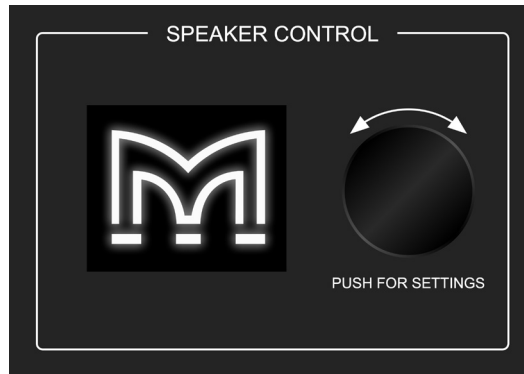
This push-button rotary encoder allows you to access functions such as channel and master level control and metering, application specific voicings & EQ, Bluetooth configuration, set-up functions, and product information. See the chapter on system set up.

Loudspeaker Control

The BlacklineX Powered system is set up using the loudspeaker control section comprising the LCD screen and rotary encoder which incorporates a push-button for selecting properties selected on the screen using the encoder

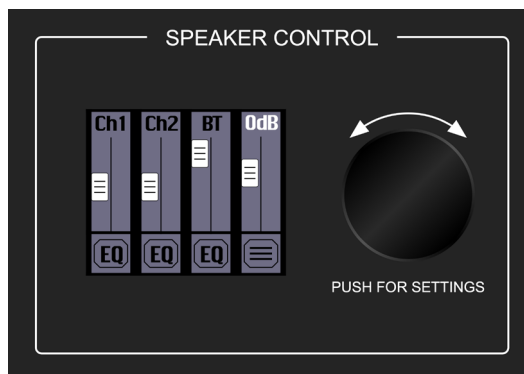
Power Up

On power up the screen briefly displays the Martin Audio logo while the processor boots up:

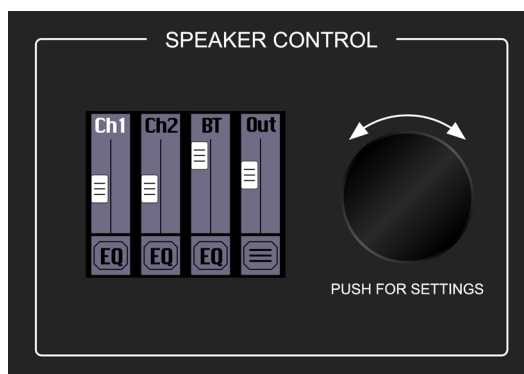


It will revert to the mixer screen before returning to whichever screen has been selected as the default, as supplied this will be the mixer screen.

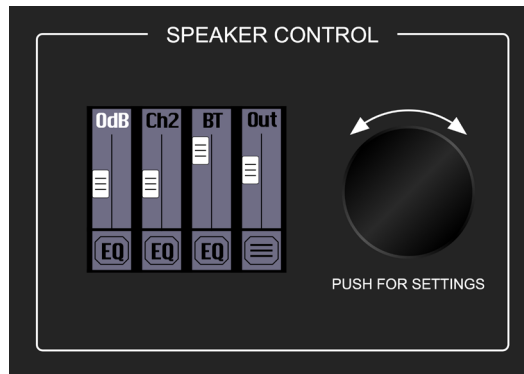
Mixer Screen



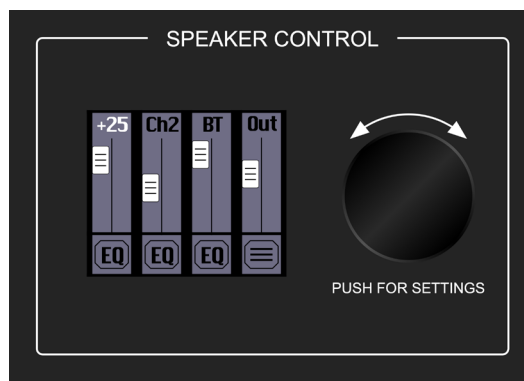
Rotating the loudspeaker control encoder will adjust whichever function is highlighted in white. In the mixer window this defaults to the output level. Push the encoder once to revert to select mode, the highlighted output level will change from the figure in dB to **Out**, rotate the encoder to scroll between the selections. There are options for channels 1, 2 and 3 which is the Bluetooth channel, EQ for all three channels and the menu option bottom right which takes you to the second level. For example, select channel 1 (**Ch1**).



Press the encoder to enter edit, the **Ch1** changes to the level in dB:



This can be adjusted to the figure required using the encoder, the fader knob icon will move up and down to give a graphical representation of the increase or decrease in gain:



The level control ranges are as follows:

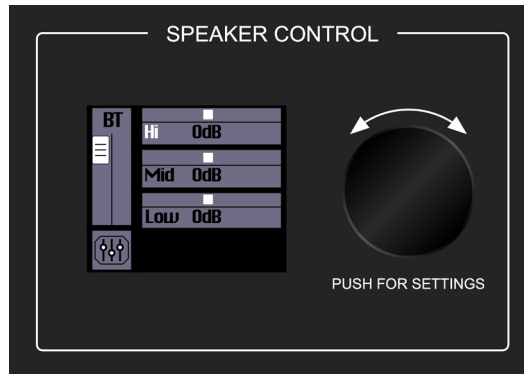
- Channels 1 and 2: -30 dB to +40 dB
- Bluetooth: -32 dB to 0 dB
- Main Output: -inf (off) to +10 dB

Note that when a channel is attenuated all the way down to the lowest level, -30 for inputs 1 & 2, -32 for the Bluetooth input 3 and -infinity for the main output, it will be completely muted and the fader knob will turn red:

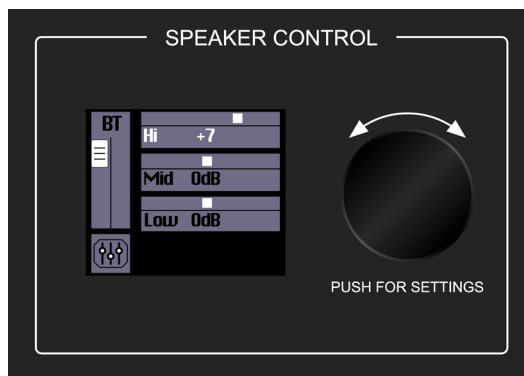


EQ

The bottom row has EQ adjustment for input channels 1, 2 and Bluetooth. In order to change a channel's EQ, rotate the control encoder and push when the desired channel's EQ icon is illuminated:



The encoder will now scroll between the High (**Hi**), mid-range (**Mid**) and low frequency (**Low**) and the mixer icon to return to the mixer layer. If you click on one of the EQ bands the level will be highlighted and the encoder will allow you to adjust the EQ level for that band:



The EQ ranges are as follows:

- High: ± 12 dB @ 6 kHz [channels 1 and 2] @ 12 kHz [Bluetooth]
- Mid: ± 12 dB @ 2.5 kHz
- Low: ± 12 dB @ 80 Hz
- HPF: 10 Hz – 400 Hz at 12 dB per octave [channels 1 and 2 only]

Select the mixer icon with the control encoder to return to the previous screen once the EQ settings you need have been entered.

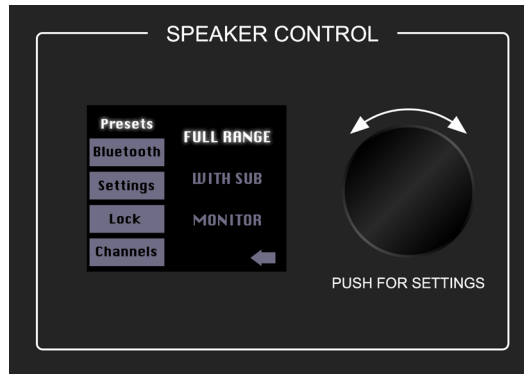
Menu Screen

From the mixer screen use the encoder to select the menu icon in the bottom right corner below the output fader. The menu screen displays five options. Like the mixer screen, rotate the loudspeaker control encoder until the icon of the parameter you want to change is illuminated, then push the encoder to enter that icon's screen.

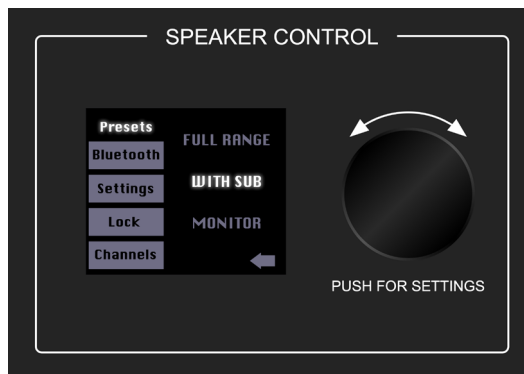
The six icon selectors are as follows:

- **Presets**
- **Bluetooth**
- **Settings**
- **Lock**
- **Channels**

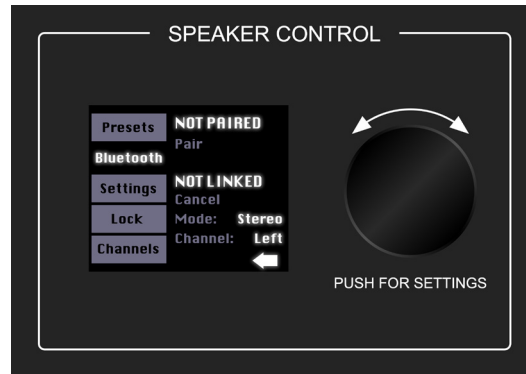
Presets



1. **FULL RANGE** – This mode is optimised for stand-alone configuration without the use of sub reinforcement
2. **WITH SUB** – This mode introduces a high-pass filter to the loudspeaker to match properly with the XP118 subwoofer.
3. **MONITOR** – This mode features a low frequency roll-off and optimised equalisation to ensure maximum gain before feedback when the loudspeaker is used as a floor monitor.
4. As you had done previously, rotate the loudspeaker control encoder until the loudspeaker mode you desire is illuminated, then push to select it. In this example we have selected **WITH SUB**:



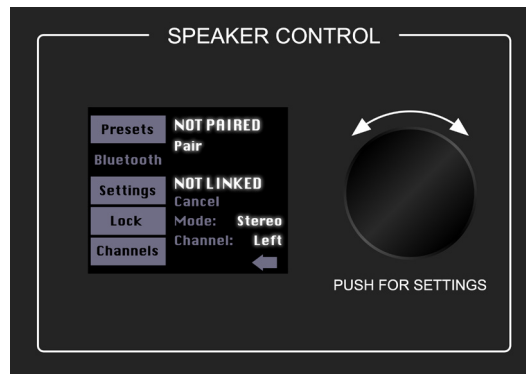
Bluetooth



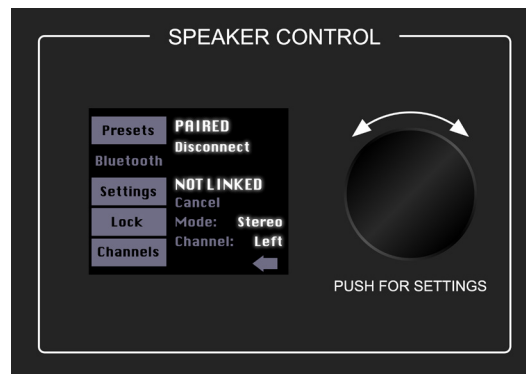
This is where to set up and view Bluetooth connectivity options.

Pair

By default the loudspeaker will not be paired. Use the encoder to select **Pair** and press.



The **NOT PAIRED** text will change to **DISCOVERABLE** and **Pair** will change to **Cancel** giving you the option to abandon the pairing. At this stage you should go to the settings of your Bluetooth device where you should see BLXP12, BLXP15 or BLXP118, depending on which BlacklineX Powered product you are linking to, in the available devices. Click on the product and you will be paired. There is no code or password to enter.



The text **DISCOVERABLE** will change to **PAIRED** and **Cancel** will change to **Disconnect**. You can select disconnect if you need to pair a second device with the loudspeaker.

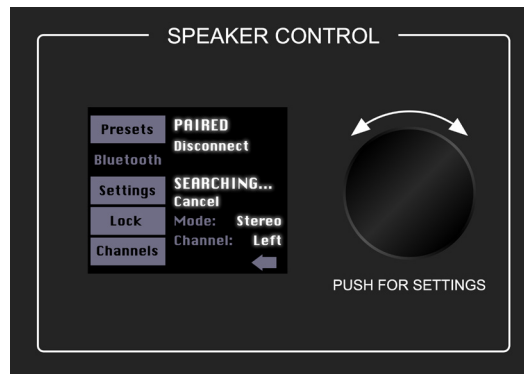
The Bluetooth connection may disconnect when affected by electrostatic discharge (ESD) or electrical fast transients (EFT). If this occurs, manually reconnect the Bluetooth connection.

Linking

The loudspeaker may also be linked to a second loudspeaker. This allows you to stream audio simultaneously to a pair of loudspeakers either in stereo or “zoned” with a mono signal, useful if for example you need to send a signal to a subwoofer and mid-top combination or to a pair of loudspeakers in different locations.

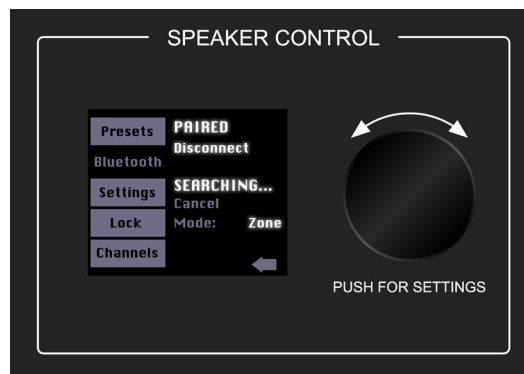
The steps to link loudspeakers is quite similar to that of pairing a device as follows:

1. Select **Connect** and push the loudspeaker control encoder.
2. The text **NOT LINKED** will change to **SEARCHING...** and **Connect** will change to **Cancel**.



3. From here, turn the other loudspeakers on and follow these same steps to link, or push the loudspeaker control encoder to cancel the action.
4. The text **SEARCHING...** will change to **PRIMARY** on one loudspeaker and **SECONDARY** on the other. **Cancel** will also change to **Disconnect**. From here select a **Bluetooth** mode (see below) or push the loudspeaker control encoder to disconnect.

There are two modes available when two loudspeakers are linked; **Stereo** and **Zone**. The **Stereo** setting is the default two loudspeaker set-up, ideal for applications such as a party, DJ, etc., where a device is paired and streaming music in stereo. The main level controls both loudspeakers.



If the Bluetooth mode is set to **Stereo**, you may select which loudspeaker is located on the left and which is on the right. Simply rotate the loudspeaker control encoder so that channel is illuminated, then push the button to enter and edit. Rotate to illuminate your choice – left or right – then push the button to select.

The **Zone** mode setting is your optional loudspeaker setup, ideal for when the loudspeakers are placed in different locations and allows for separate main level controls. BlacklineX Powered loudspeakers in **Zone** mode setting will receive a mono-summed signal.

Illuminating and selecting the left-facing arrow returns you to the **Settings** screen.

Settings

This is where to configure a number of the BlacklineX Powered options. To change a setting, you will just need to rotate the loudspeaker control encoder until the configuration you desire to change is illuminated, then push to select it. Choices are as follows:

Screensaver

This allows you to select the behavior of the LCD screen when nothing has been adjusted for 30 seconds. There are three options:

- **High** - The LCD screen remains at full brightness
- **Low** - The screen dims
- **Off** - The screen turns off. It will turn back on immediately when the encoder is adjusted or pressed

Home Screen

This allows you to select either the mixer screen or the settings menu as the default to which the LCD window will return following 30 seconds of inactivity. The mixer screen is the default.

Auto Con

Allows a previously paired Bluetooth device to auto reconnect if both the device and loudspeaker are powered on and in range. When illuminated, push the loudspeaker control encoder to select between on or off.

Auto Link BT

Allows two previously paired loudspeakers to automatically re-link if both are powered on and in range. When illuminated, push the loudspeaker control encoder to select between on or off.

About

This screen displays details including the device, DSP and Bluetooth firmware versions and the unique device ID.

Restore

Restores all parameters back to their default. This is a permanent reset with no undo, so a confirmation dialog helps prevent accidentally restoring defaults and losing any custom settings.

Illuminating and selecting the left-facing arrow at the bottom of the screen returns you to the previous screen.

Lock

This is where to lock and unlock the interface with a 4-digit numeric password. Push the loudspeaker control encoder to enter lock mode. From here, rotate the loudspeaker control encoder until the first number you desire is illuminated and press to select. Follow the same procedure for the next three numbers. Once four numbers have been selected **LOCK** will be highlighted.



You can select **Del** which will delete the last entered number, or **LOCK** which will lock the DSP. No further changes may be made to any parameters. Rotating the encoder will have no effect, clicking the encoder switch will take you directly to the lock screen where entering the correct 4 digits will give you the option to unlock the loudspeaker.

Emergency Unlock

If you set up a 4-digit lock code and forget the passcode, please contact your vendor for support.

Channels

The final option is **Channels**. This returns you to the mixer view.



XP Connect - IOS Control App

BlacklineX Powered loudspeakers can be controlled via an IOS application available from the [App Store](#).

XP Connect can control speakers in **Mono**, **Stereo** or **Zone** mode – only two loudspeakers can be controlled via the app at one time.

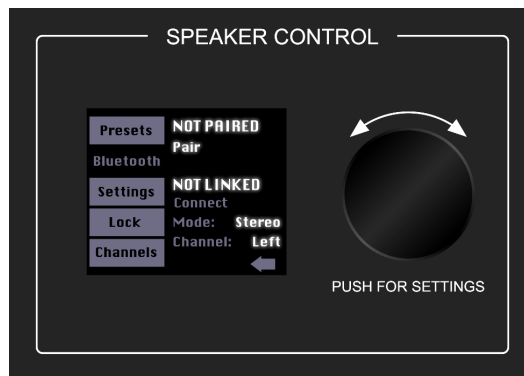
Connecting to more than one loudspeaker is done via a linking method between physical units and the process below explains how this is achieved.

Connecting to a Single BlacklineX Powered Loudspeaker

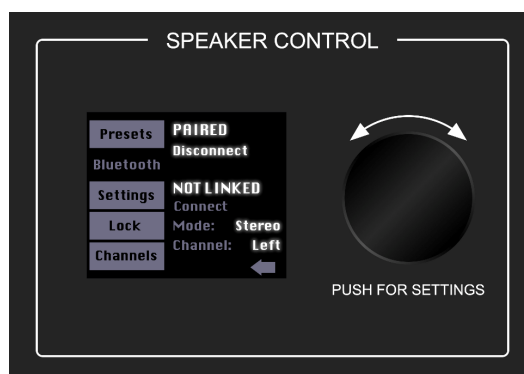
On the rear panel of the BlacklineX Powered loudspeaker use the control encoder to select the settings menu.

Scroll to **Bluetooth** and select **Pair**.

This device is now discoverable.



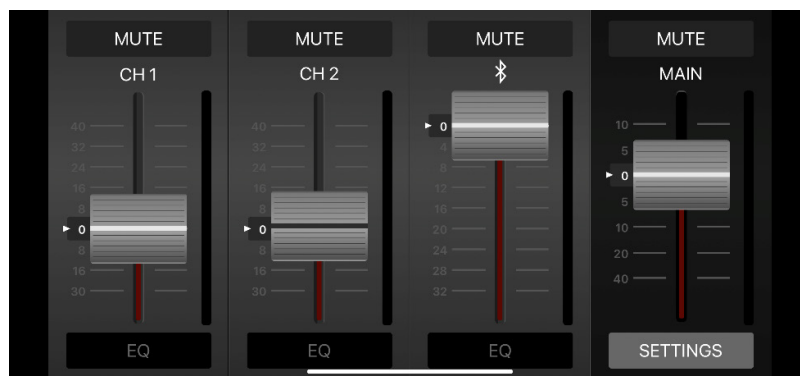
On the IOS device launch **Settings** > **Bluetooth** > and select the BlacklineX Powered loudspeaker from the list, which will be shown as connected once this process is complete. The rear panel will display **PAIRED**. To unpair select **Disconnect**.



Launch the XP Connect application on your IOS device to automatically discover the connected BlacklineX Powered loudspeaker. The application can now be used to control the connected loudspeaker.



Once the loudspeaker has connected and the splash screen disappears the app should launch into a mono control surface.

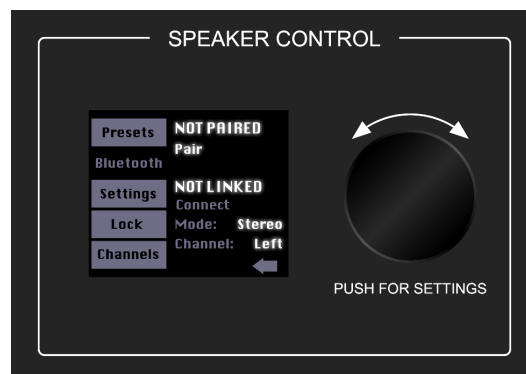


Connecting to a Pair of BlacklineX Powered Loudspeakers

When connecting to a pair of BlacklineX Powered loudspeakers, one loudspeaker is nominated as the primary device and the other is nominated as the secondary device. This nomination relates to the order in which devices are connected. The first loudspeaker to be connected to the app via Bluetooth will be the **PRIMARY** device.

Navigate to **Bluetooth** and select **Pair**.

This primary device is now discoverable.

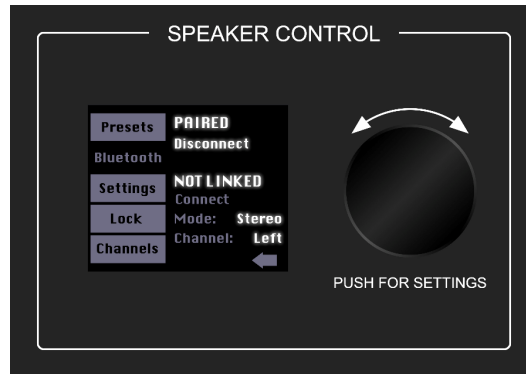


On the IOS device launch **Settings** > **Bluetooth** > and select the BlacklineX Powered loudspeaker from the list, which will be shown as connected once this process is complete. The rear panel will display **PAIRED**.

To unpair select **Disconnect**.

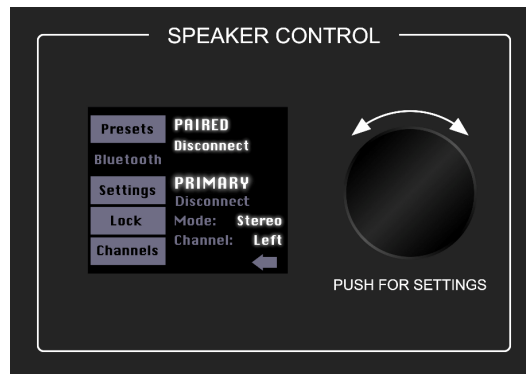
Linking Devices

On the rear panel of the **PRIMARY** device, navigate to **Bluetooth** and select **Connect** under **NOT LINKED**.

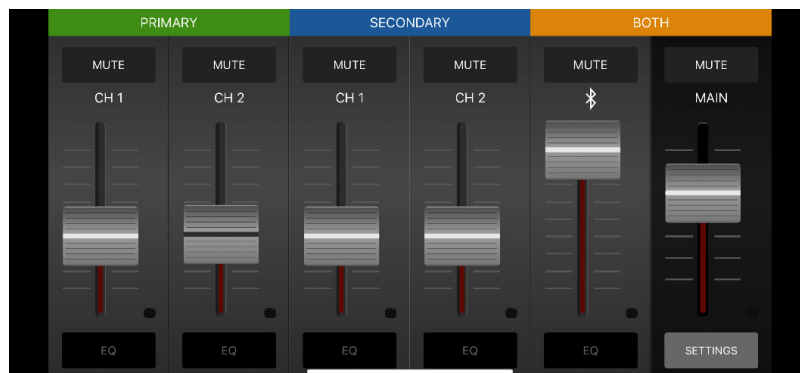


Repeat the process on the secondary device which will now link the pair of BlacklineX Powered loudspeakers.

PRIMARY or **SECONDARY** will appear on the LCD screen on the **Bluetooth** page. It is important to take a note of which is which when using the **Zone** mode deployment method.



Launching the XP Connect app will automatically discover the connected BlacklineX Powered loudspeakers. A stereo control surface should appear after the devices have connected.



Note: The above procedure is recommended for best practice. Connecting to both loudspeakers by Bluetooth through your IOS device can cause connection issues when the application is launched if devices are not linked correctly.

If this system is a regular setup it is recommend that **Auto-link** is selected to aid in quick deployment and remove unnecessary repetition of this process. This can be found in the **Settings > Bluetooth** tab within the XP Connect application.

Protection

Limiters

BlacklineX Powered loudspeakers employ built-in DSP limiters for drive unit protection.

The individual drive units use DSP limiters optimised so that their effect is not noticeable in normal use but protect against mechanical and thermal overload. Limiters cannot protect against highly clipped input signals, so if excessive distortion is heard, the level should be reduced to avoid damage.

Thermal Protection

Although the class D amplifiers in BlacklineX Powered are very efficient, all amplifiers do produce heat. In the unlikely event of the amplifier overheating, for example if the loudspeakers are installed in a hot location such as in direct sunlight or under hot stage lights, the amplifier has built in thermal protection to ensure a safe operating temperature is maintained. When the amplifier cools to a safe operating temperature the switch resets and the amplifier resumes normal operation.

AC Power

Using AC Power

Be sure the loudspeaker is plugged into an outlet that is able to supply the correct voltage specified for your model. It will continue to operate at lower voltages but will not reach full power. Be sure the electrical service can supply enough current for all the components connected to it.

We recommend that a robust supply of AC power be used as the amplifiers place high current demands on the AC line. The more power that is available on the line, the better the system performance will be and the more peak output power will be available for a cleaner, punchier bass. A suspected problem of “poor bass performance” is often caused by a weak mains supply to the amplifiers.

Never remove the ground pin on the power cable or any other component of the BlacklineX Powered loudspeaker. This is very dangerous.

Care and Maintenance

Care Guidelines

Your BlacklineX Powered loudspeakers will provide many years of reliable service if you follow these guidelines:

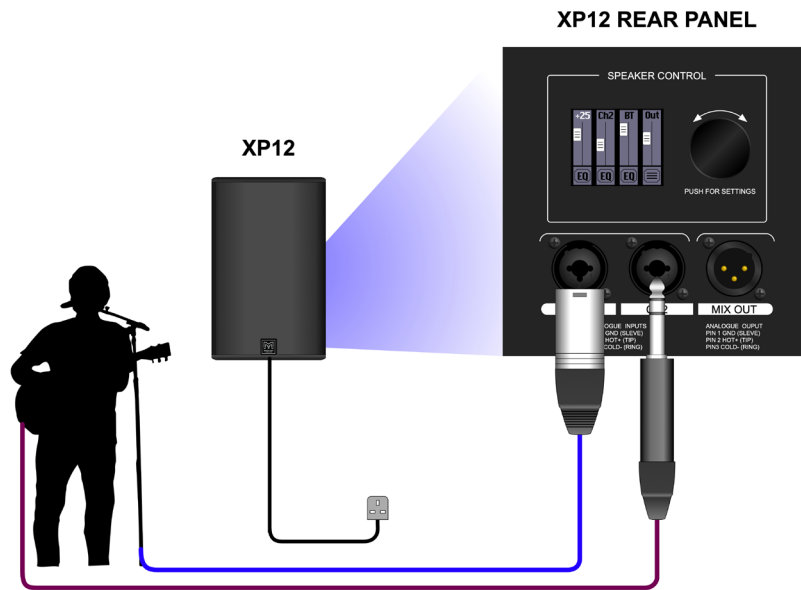
- Avoid exposing the loudspeakers to moisture.
- Avoid exposure to extreme cold (below freezing temperatures). If you must operate the loudspeakers in a cold environment, warm up the voice coils slowly by sending a low-level signal through them for about 15 minutes prior to high-power operation.
- Use a dry cloth to clean the cabinets. Only do this when the power is turned off. Avoid getting moisture into any of the openings of the cabinet, particularly where the drivers are located.

Wiring Diagrams

System Configurations

There are several ways that BlacklineX Powered systems can be configured so we will now look at some practical wiring examples for the most common system configurations. We have shown a limited range of loudspeaker types but the same wiring can be used for other models which will be listed with an indication of the appropriate BlacklineX Powered preset to select.

System A – Basic set-up



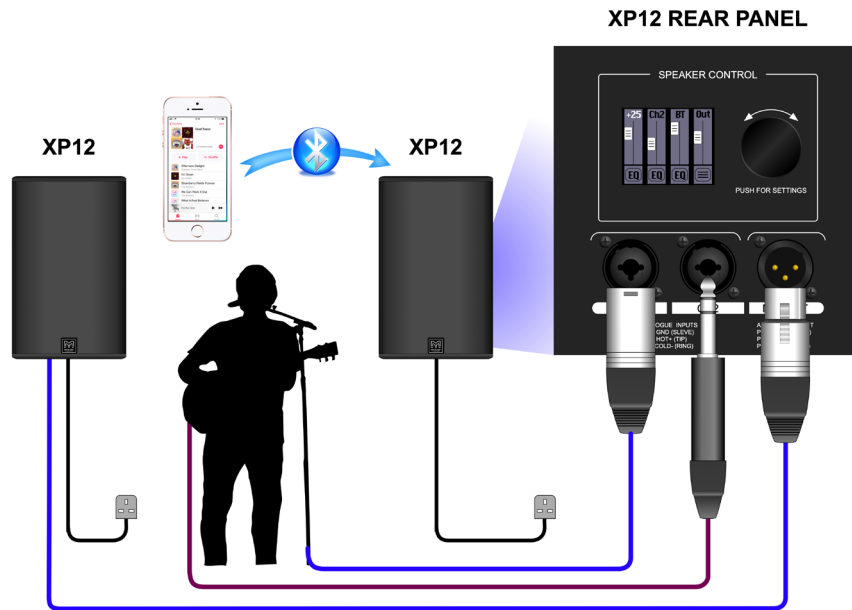
Products that may be used with this wiring:

- XP12
- XP15

This is the simplest system set up, connecting from your source which could be a microphone and an instrument directly to the BlacklineX Powered using a balanced XLR for the microphone and a standard 1/4" jack cable for the instrument. Level and EQ for the two inputs can be individually adjusted and a good balance between them achieved.

The loudspeaker should have the **FULL RANGE** preset selected.

System B – Two cabinet configuration



Products that may be used with this wiring:

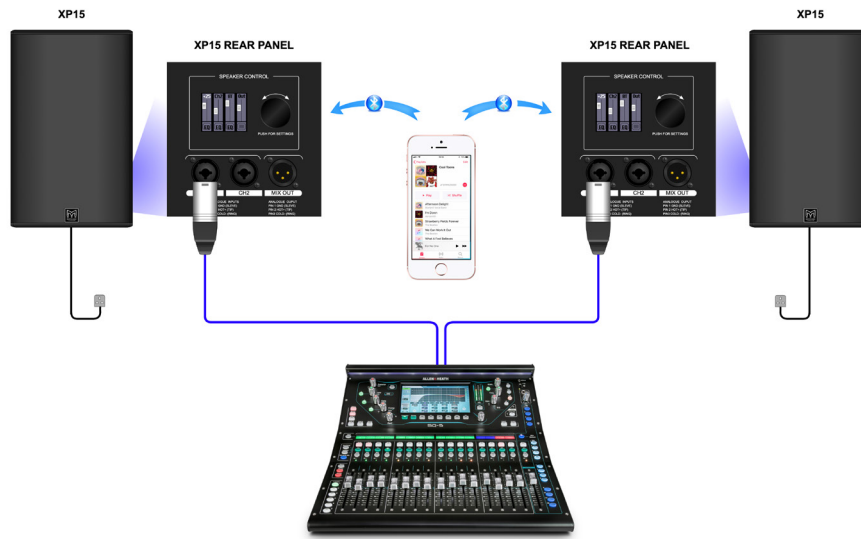
- XP12
- XP15

This system adds a second cabinet to the simple set-up shown in system A for stereo systems. The two cabinets can be linked with an additional XLR cable to route the signal from the mixer out of the first cabinet to the second.

In addition, a Bluetooth enabled device such as a smart phone can be linked to the first cabinet via Bluetooth and used to play background music between sets or backing tracks for the performer.

The loudspeakers should have the **FULL RANGE** preset selected.

System C – Stereo feed from an external source



Products that may be used with this wiring:

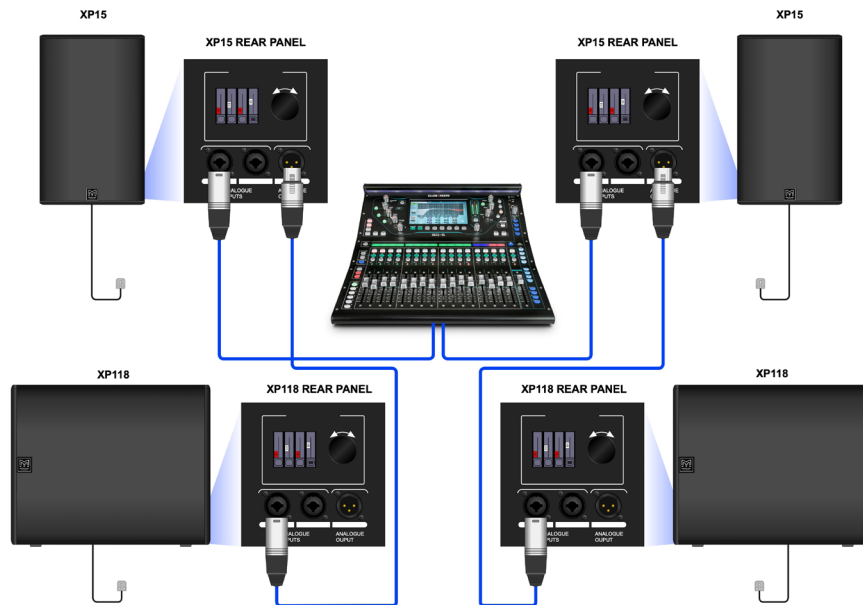
- XP12
- XP15

This system takes a feed from a stereo source such as a mixer where multiple instruments and musicians need to be routed through the system. Two XLR cables are used from the stereo output of the mixing console, one routed to the left loudspeaker and the second to the right.

In addition, a Bluetooth capable device such as a smart phone can be paired to one cabinet and the two cabinets linked in stereo mode so that walk-in music can be routed direct to the loudspeakers. This means that the rest of the system can be set up upon arrival at the venue and broken down after the artists set whilst retaining background music whenever required.

The loudspeakers should have the **FULL RANGE** preset selected.

System D – Stereo system including subwoofers



Products that may be used with this wiring:

- XP12 + XP118
- XP15 + XP118

This system takes a feed from a stereo source such as a mixer as in the previous example but adds a pair of XP118 subwoofers. Two XLR cables are used from the stereo output of the mixer, one routed to the left XP15 (or XP12) and the second to the right XP15 (XP12). From the mixer out on both XP15s, short XLR cables link down to the XP118 inputs to give a stereo system with comprehensive SPL and frequency response capability.

It is also possible to connect to the XP118s first and link up to the XP15 however, it is important to remember that the mixer out on all XP products is post any gain or EQ changes so for example some if you apply additional gain to the subs, this gain will also appear on the inputs to the XP15 with the risk of over driving the inputs.

There are two other ways to configure a system to avoid this possibility, the first is to use a pair of XLR splitters or “Y” cables to route the same signal to both the XP118 and XP15, any adjustments made to either cabinet will not impact the other in any way.

The other option is to route an independent feed for the subs from your mixer, it is very common at bigger events to use a matrix send, sub group or auxiliary to route signals to the subs so the engineer has complete control at the console of what is routed to the subs and the sub level.

In addition a Bluetooth device such as a smart phone can be paired with one XP15 (or XP12) and the two cabinets linked in stereo mode so that walk-in or background music can be routed direct to the system without the need for any cables, saving two channels on the mixer.

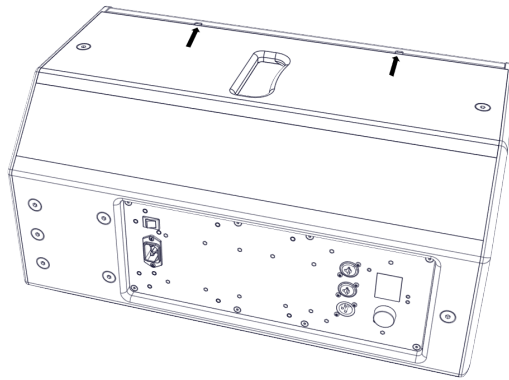
In all configurations the XP12 or XP15 should have the WITH SUB preset selected. The XP118s should have the preset selected that matches the full range model being used.

Grille Removal and Horn Rotation

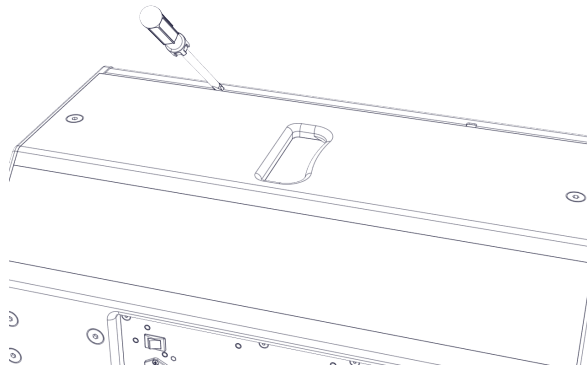
The BlacklineX Powered full range loudspeakers may be used in landscape or horizontal orientation, most obviously when used as a monitor wedge but also when flown in fixed installations. For the loudspeaker to perform correctly it is necessary to rotate the horn flare through 90° to preserve the horizontal and vertical dispersion. The loudspeakers are designed to make this as straightforward as possible with spring-loaded grilles which are easily removed and horns screwed in place with Pozidrive screws. It is also possible to rotate the Martin Audio badge on the grille.

Grille Removal

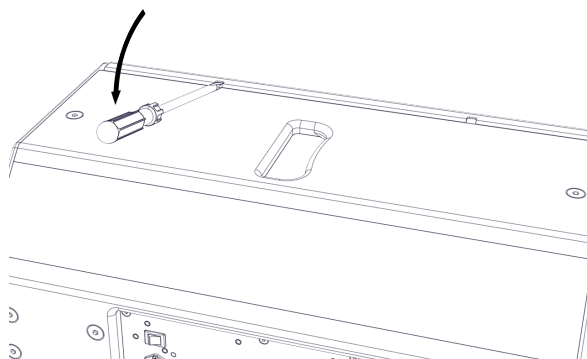
Grilles on BlacklineX Powered cabinets are designed to be easy to remove to facilitate driver rotation. No screws are used to hold them in place. They are manufactured with a natural spring which holds them in place in slots in each side of the cabinets. The grilles have two or three gaps in the sides into which an appropriately sized flat-bladed screwdriver can be inserted to assist in removal.



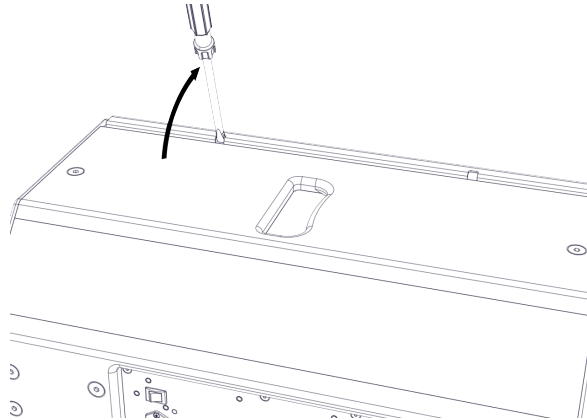
Insert the screwdriver blade into one of the gaps - either at the top or bottom of the cabinet:



Gently push the handle down. This will ease the grille out of the slot. It may have bitten into the paint surface so you just need to make sure it is free to be lifted clear:



Now lift the handle up. This will ease the grille forward slightly to prevent the return on the grille dropping straight back into the slot:



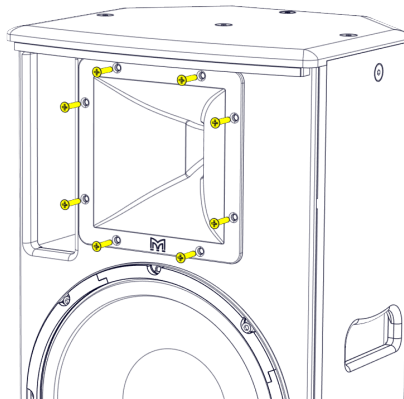
Repeat this process for the remaining gaps in the grille to ease it out of the slot all the way up one side of the cabinet; when you get to the final gap the grille should pop out and away from the front of the cabinet.

To replace the grille, first insert one side into the slot on one side of the cabinet. Make sure the return on the grille is completely engaged in the slot. Push on the front of the grille with the flat of your hand, which will encourage the other edge of the grille to locate on the side of the cabinet close to the slot. Now push the edge of the grille back starting at the top or the bottom to engage the return in the slot; you may need to do this a little at a time, working down the length of the grille until it pops into place.

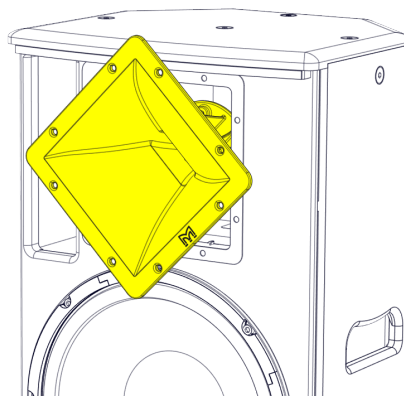
Rotating the HF Horn

The compression driver and horn assembly on all full range models are held into the cabinet using eight Pozidrive No.2 screws. Once the grille is removed these are easily seen on the flange of the horn. All models are essentially identical with just a larger horn flare on the bigger cabinets.

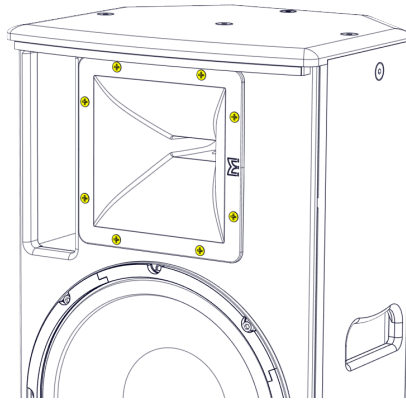
When using the loud in horizontal or landscape mode, unscrew all 8 screws placing them somewhere safe:



Lift the horn assembly forward, just enough to allow you to rotate it. Turn it through 90° in either direction, line up the holes in the flange with those in the cabinet and replace all eight screws:

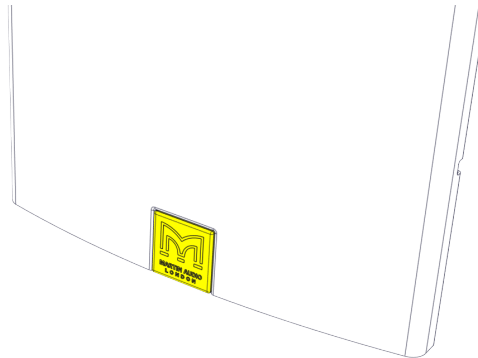


Be careful not to over-tighten and cross-thread the screws in the cabinet baffle, it is only wood so doesn't need to be too tight:

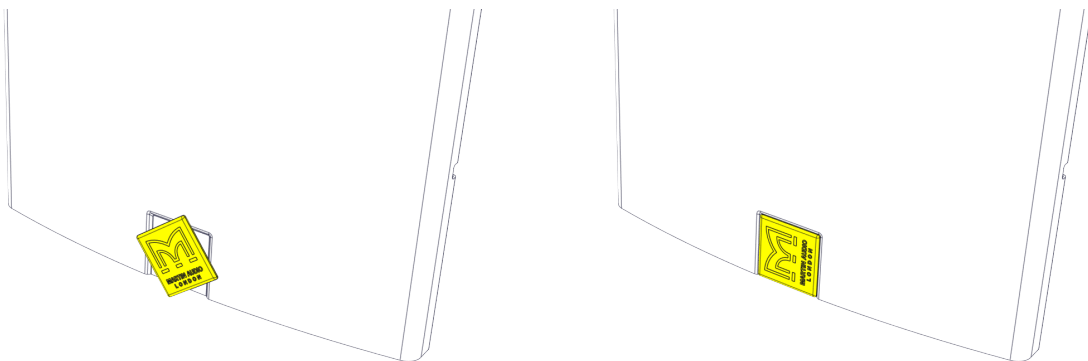


Badge Rotation

When used in landscape you should rotate the Martin Audio badge on the grille. The badge is spring loaded and very easy to rotate and can only be turned in fixed 90° increments so you will have no problem making sure that it is straight.



The badge is easier to rotate if the grille is first removed. With the grille removed push the spigot holding the badge in place so the badge is protruding forward from the grille and is proud of the recess in which it sits. Rotate the badge as required and release the spigot on the rear so it settles back into the recess in the grille. The grille can then be replaced:

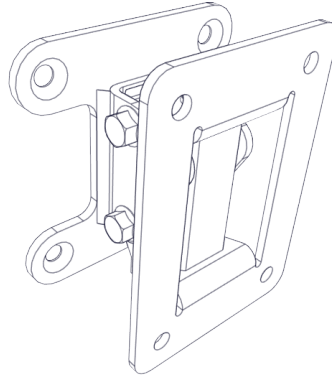


The badge is supplied with a plastic film to protect it from scratches. This should be left in position until the cabinet is fitted in position in a fixed installation or is ready for use in portable applications when it can be peeled off and discarded.

Wall Mounting

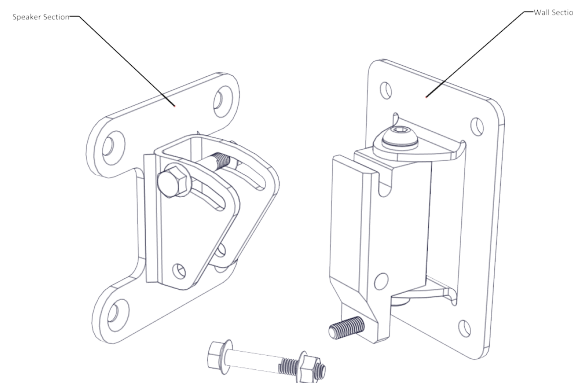
Wall Bracket

You can wall mount the XP12 in portrait (but not landscape) using wall bracket WB10/12B.

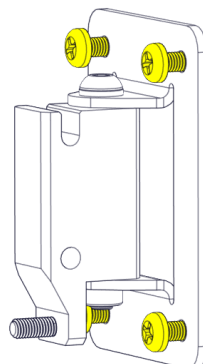


Installation is a two-part process in common with standard first fix and second fix procedures,

The first step is to separate the two halves of the bracket. There are two horizontally mounted nut and bolts holding the two halves together. The upper one which sits in a curved slot does NOT need to be removed. Unscrew the lower bolt and the cabinet bracket will lift off the wall bracket:

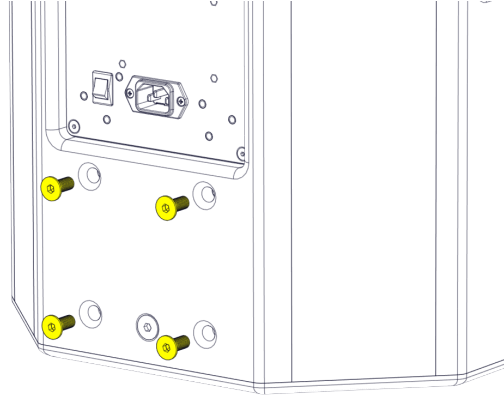


First fix is to secure the wall section of the bracket. This is the part with four mounting holes, a vertical bolt holding the section which allows horizontal adjustment and the slot into which the cabinet bracket bolt sits. Use appropriate wall fixings suitable for the composition of the wall. These must be of sufficient strength to support the weight of the loudspeaker:

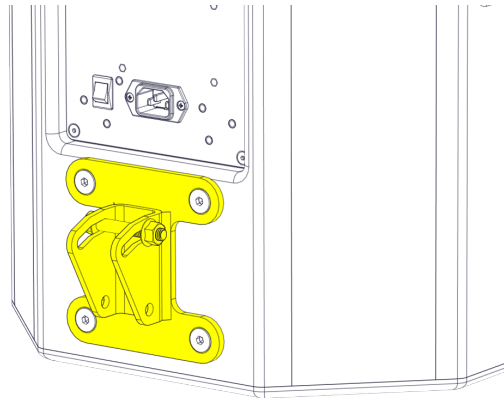


Next step is to attach the cabinet section of the bracket to the loudspeaker. This is the bracket with four countersunk fixing holes on a square pattern with the horizontal bolt in the curved slot.

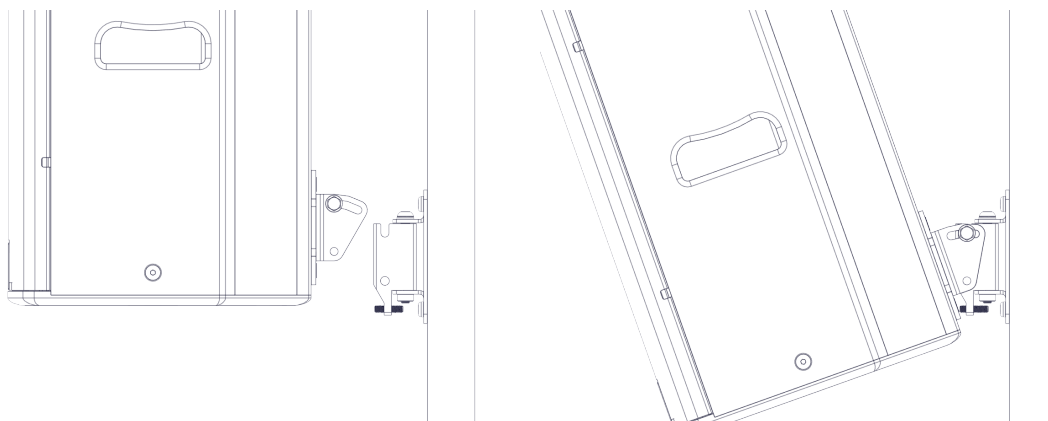
The rear of the cabinet has four countersunk bolts fitted designed for use with mounting brackets. Remove these four bolts:



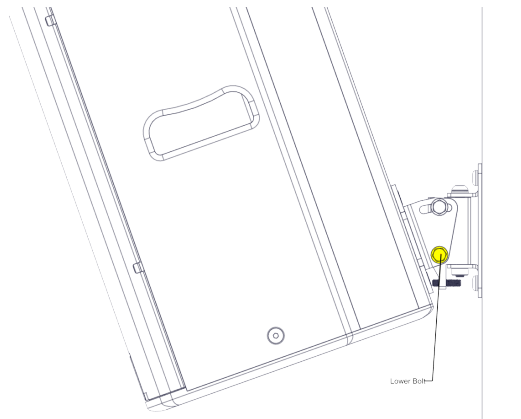
Position the bracket over the mounting holes and screw into place tightly using the bolts removed from the cabinet:



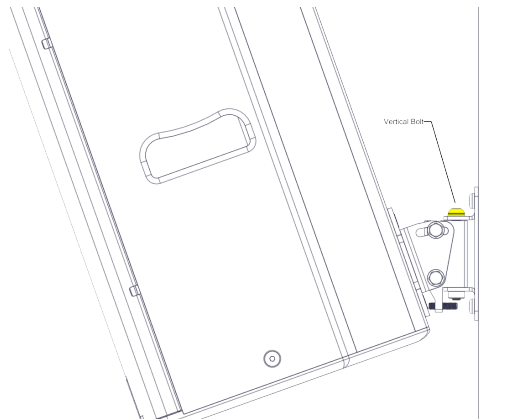
You are now ready to fit the loudspeaker to the wall. Offer the loudspeaker up to the bracket so you can hook horizontal bolt in the curved slot onto the notch on the ball bracket. Make sure that you follow appropriate safety measures if you are working at height such as using a scaffold tower or lifting platform which allows you to safely use both hands for this:



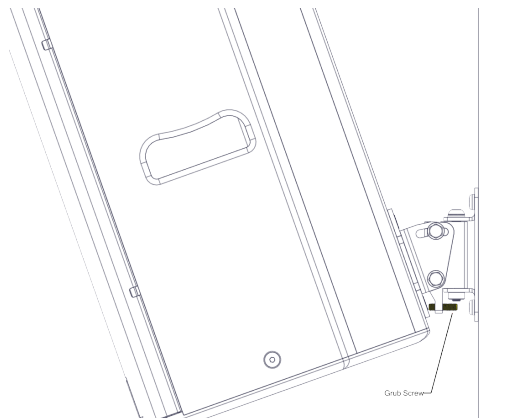
Once the bracket is hooked together and taking the weight of the cabinet you can replace the lower bolt:



Final adjustments can now be made. Horizontal (pan) adjustment is available by rotating assembly on the vertical bolt. When you're happy with the angle, the vertical securing bolt can be tightened with an M6 hex key to lock the position:



Vertical (tilt) adjustment is made by adjusting the grub screw:

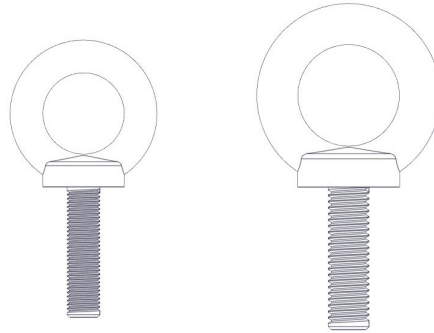


Once the vertical position is fixed the two horizontal bolts can be tightened. This is best achieved by using a socket set with an extender bar to reach the bolt heads.

Eye Bolt Mounting

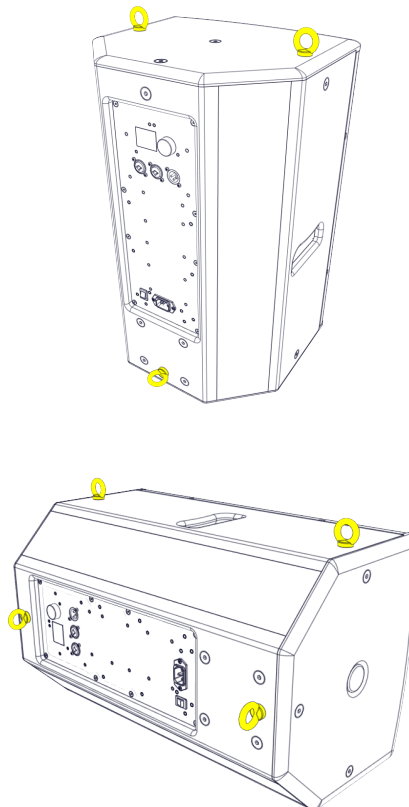
Eye Bolts

All BlacklineX Powered systems have threaded inserts rated for flown installations. The XP12 and XP15 full range loudspeakers have M8 threaded inserts and the XP118 subwoofer has M10 inserts. Most commonly these are used in conjunction with shouldered eye bolts for suspending the cabinets using appropriately rated chain or steel wire. Martin Audio's HTKCT05 (M8) and HTKCT06 (M10) are rated for use in flown applications. Note that if you plan to use alternative eye bolts these must be shouldered cast steel NOT formed steel types commonly available from DIY stores. They must have a safe working load rating compatible with the weight of the cabinets.



BlacklineX Powered loudspeakers can be flown in portrait or landscape format. Please note that the horn must be rotated when the cabinet is used in landscape mode. Please see the chapter on grille removal and horn rotation.

We recommend using a minimum of four eye bolts with which to suspend the cabinet irrespective of which orientation is used. In most applications two eye bolts are used as the primary support left and right. A third attaches to the rear of the cabinet and is used to adjust the down-tilt of the cabinet as required. The fourth eye bolt is used to attach a secondary safety line which should be attached to a secure mounting point which is independent of the primary flying point, round a girder or similar.



Specifications

XP12

TYPE	Compact, active two-way system
FREQUENCY RESPONSE	62Hz-20kHz \pm 3dB, -10dB @ 50Hz
DRIVERS	LF: 12" (300mm)/2.5" (63.5mm) voice coil, ferrite motor system HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome compression driver
MAXIMUM SPL	122dB continuous, 128dB peak
DISPERSION (-6dB)	80° H x 50° V (user-rotatable)
CROSSOVER	2.3kHz active, 24dB/octave
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x XLR / 2.5" Jack Combo Input 1 x XLRM Output IEC Mains
FITTINGS	18 x M8 inserts, pole-mount socket, 1 x bar handle
DIMENSIONS	(W) 358mm x (H) 574mm x (D) 337mm (W) 14.1ins x (H) 22.6ins x (D) 13.7ins
WEIGHT	18kg (40lbs)
ACCESSORIES	Wall bracket, eyebolts

XP15

TYPE	High-power, powered two-way system
FREQUENCY RESPONSE	55Hz-20kHz \pm 3dB, -10dB @ 45Hz
DRIVERS	LF: 15" (380mm)/3" (75mm) voice coil, ferrite motor system HF: 1" (25mm) exit/1.7" (44mm) voice coil, polyimide dome compression driver
MAXIMUM SPL	125dB continuous, 131dB peak
DISPERSION (-6dB)	90° H x 50° V (user-rotatable)
CROSSOVER	2kHz active, 24dB/octave
ENCLOSURE	Multi-angle birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel with scrim cloth backing
CONNECTORS	2 x XLR / 2.5" Jack Combo Input 1 x XLRM Output IEC Mains
FITTINGS	13 x M8 inserts, pole-mount socket, 2 x bar handle
DIMENSIONS	(W) 427mm x (H) 690mm x (D) 419mm (W) 16.8ins x (H) 27.2ins x (D) 16.5ins
WEIGHT	24kg (57lbs)
ACCESSORIES	Eyebolts

XP118

TYPE	Compact, direct radiating powered subwoofer
FREQUENCY RESPONSE	42Hz-150Hz \pm 3dB, -10dB @ 38Hz
DRIVER	18" (460mm)/3" (75mm) voice coil, long excursion, ferrite magnet
MAXIMUM SPL	131dB continuous, 137dB peak (half space)
DISPERSION (-6dB)	Omnidirectional
CROSSOVER	80-120Hz active
ENCLOSURE	Birch/poplar ply
FINISH	Black textured paint
PROTECTIVE GRILLE	Black perforated steel
CONNECTORS	2 x XLR / 2.5" Jack Combo Input 1 x XLRM Output IEC Mains
FITTINGS	16 x M10 inserts, pole-mount socket, 2 x bar handles, provision for castors
DIMENSIONS	(W) 530mm x (H) 669mm x (D) 640mm (W) 20.9ins x (H) 26.3ins x (D) 25.2ins
WEIGHT	44kg (97lbs)

Current Draw and Thermal Dissipation

XP12

Input Signal	Output Power	Input Power	Current Draw (amps)		Thermal Dissipation		
			230V	115V	Watt	BTU/h	Kcal/h
Muted	0	13	0.12	.24	14	48	12
Pink Noise to Limit	147	168	0.92	1.84	22	75	19

XP15

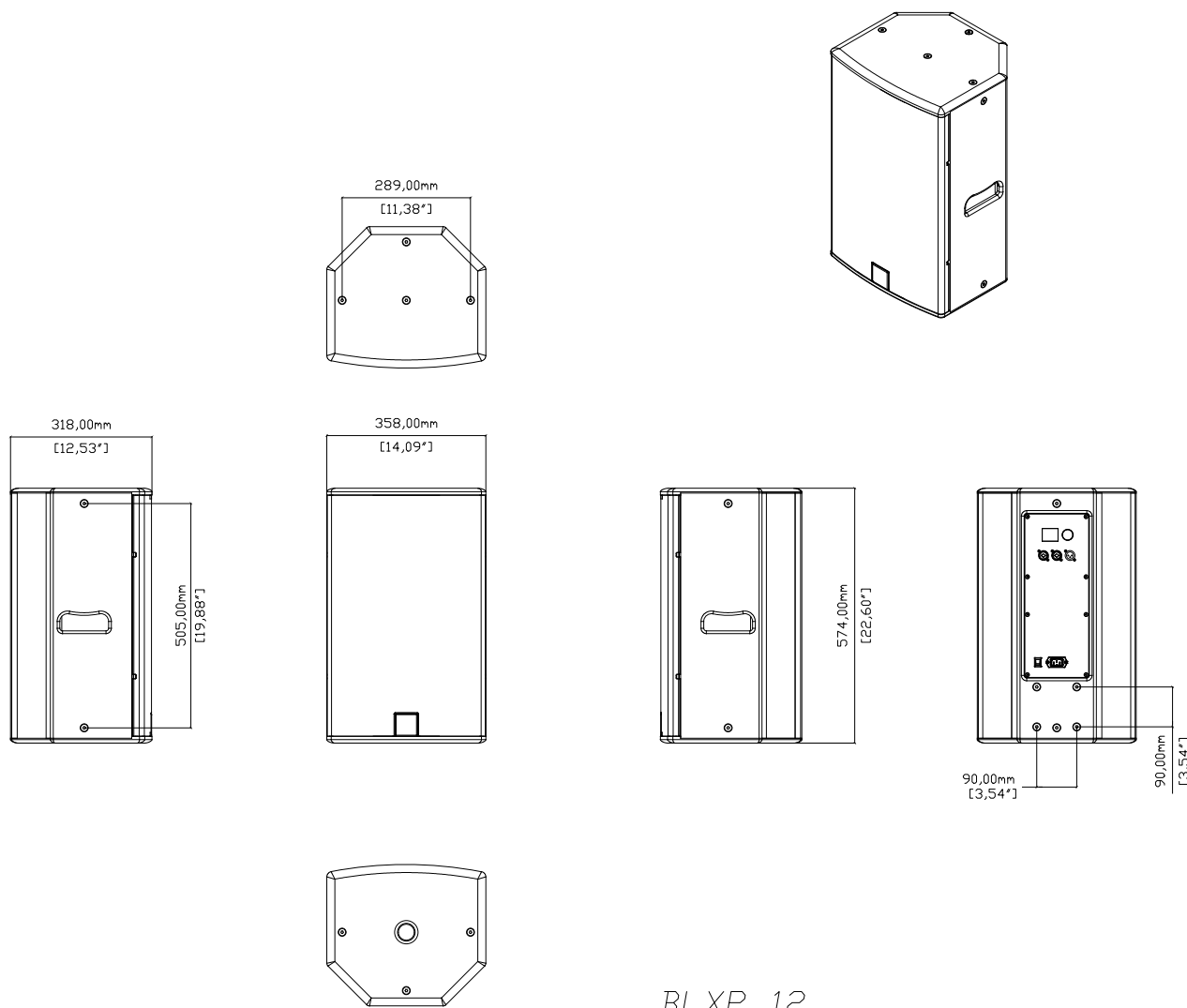
Input Signal	Output Power	Input Power	Current Draw (amps)		Thermal Dissipation		
			230V	115V	Watt	BTU/h	Kcal/h
Muted	0	13	0.12	.24	14	48	12
Pink Noise to Limit	174	209	1.12	2.25	35	119	30

XP118

Input Signal	Output Power	Input Power	Current Draw (amps)		Thermal Dissipation		
			230V	115V	Watt	BTU/h	Kcal/h
Muted	0	15	0.19	0.38	15	51	13
Pink Noise to Limit	167	203	1.22	2.45	37	126	32

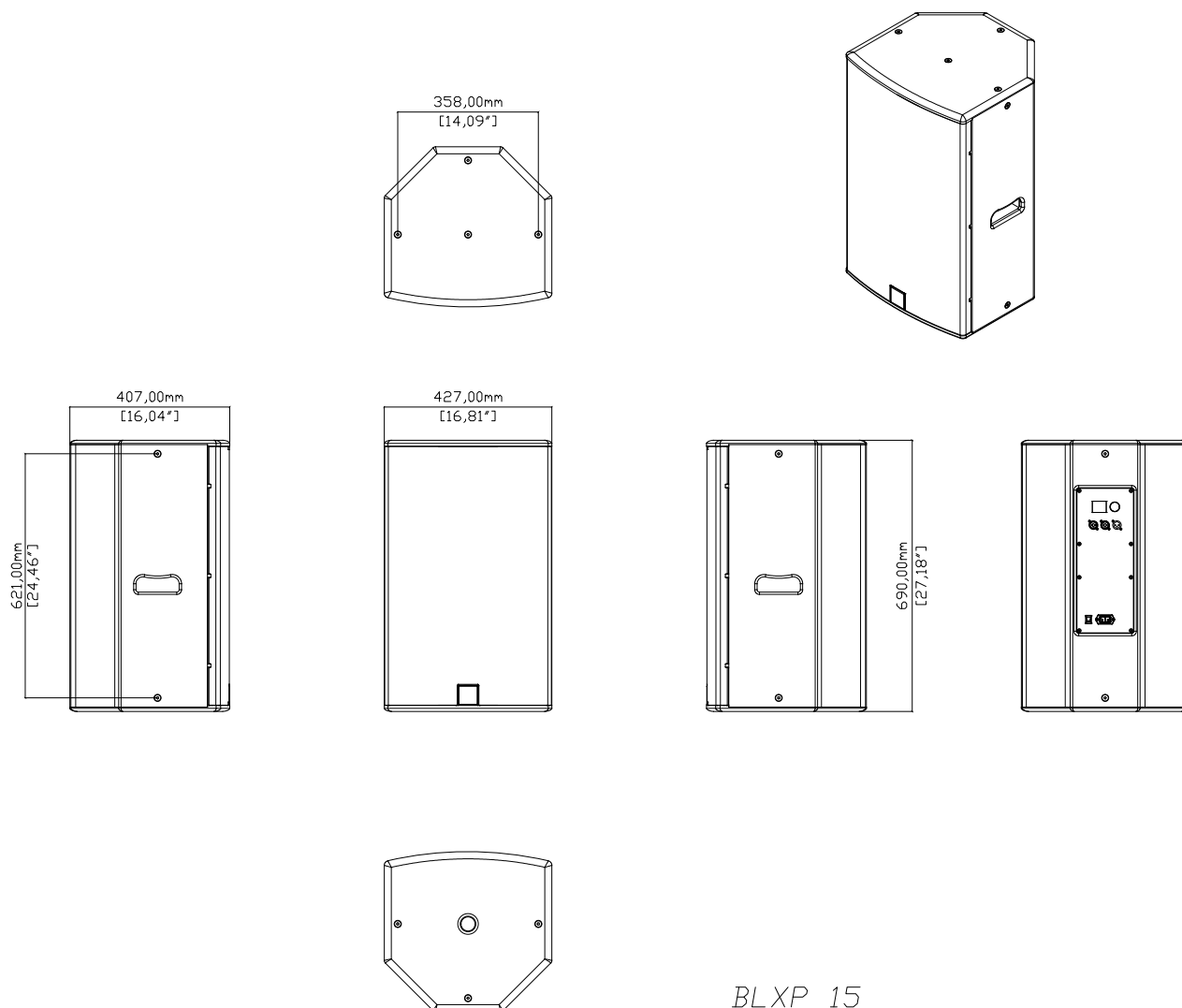
Technical Drawings

XP12



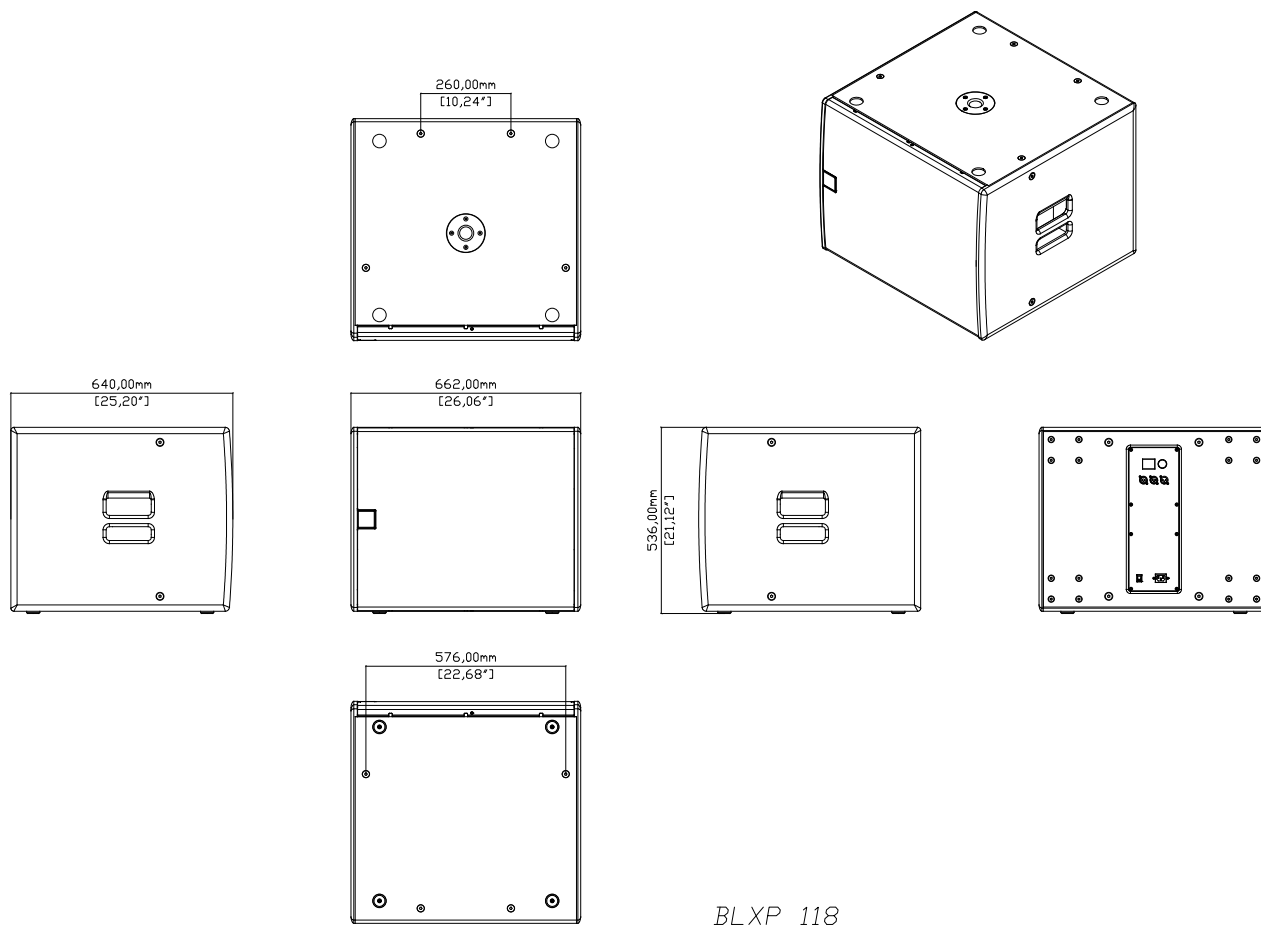
BLXP 12

XP15



BLXP 15

XP118



BLXP 118

Warranty

Warranty Statement

Martin Audio BlacklineX Powered loudspeaker systems are warranted against manufacturing defects in materials or craftsmanship over a period of 5 years from the date of original purchase.

Martin Audio BlacklineX Powered amplifier modules are warranted against manufacturing defects in materials or craftsmanship over a period of 1 year from the date of original purchase.

During the warranty period Martin Audio will, at its discretion, either repair or replace products which prove to be defective provided that the product is returned in its original packaging, shipping prepaid, to an authorised Martin Audio service agent or distributor.

Martin Audio cannot be held responsible for defects caused by unauthorised modifications, improper use, negligence, exposure to inclement weather conditions, act of God or accident, or any use of this product that is not in accordance with the instructions provided by Martin Audio.

Martin Audio is not liable for consequential damages.

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