

EVIVA powered speakers and subwoofer

EVIVA12P, EVIVA15P, EVIVA18SP

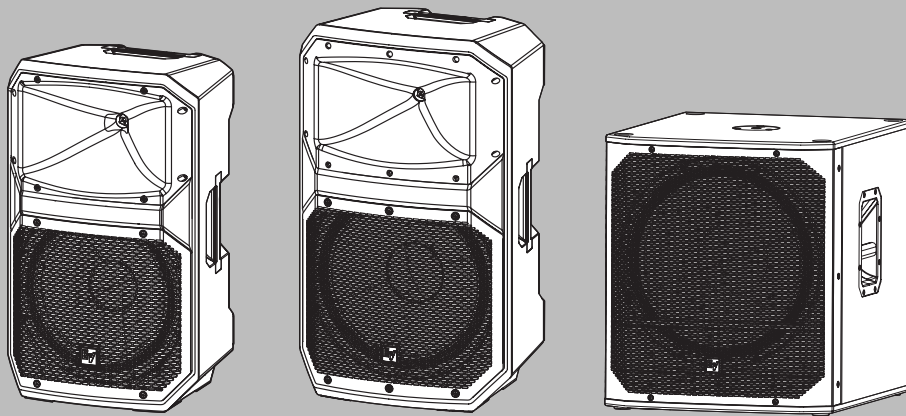






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1 Safety

1.1 Important safety instructions

 <p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE</p> <p>AVIS: RISQUE DE CHOC ELECTRIQUE, NE PAS OUVRIR.</p> <p>WARNING: THE MAINS PLUG OR AC INLET IS USED AS A DISCONNECT DEVICE. THE DISCONNECT DEVICE SHALL REMAIN READILY OPERABLE.</p> <p>WARNING: CONNECT ONLY TO MAINS SOCKET WITH PROTECTIVE EARTHING CONNECTION.</p> <p>WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) AS THERE ARE NO USER-SERVICABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.</p>		<p>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 sufficient magnitude to constitute a risk of electric shock to persons.</p>
		<p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>
		<p>The asterisk within an equilateral triangle is intended to inform the user to necessary installation or removal instructions regarding equipment or hardware use relating to the system.</p>

1. Read and keep these safety instructions. Follow all instructions and heed all warnings.
2. Download the latest version of the applicable installation manual from www.electrovoice.com for installation instructions.



Information

Refer to the Installation Manual for instructions.

3. Follow all installation instructions and observe the following alert signs:



Notice!

Containing additional information. Usually, not observing a notice does not result in damage to the equipment or personal injuries.



Caution!

The equipment or the property can be damaged, or persons can be injured if the alert is not observed.



Danger!

Risk of electric shock.

4. **Clean only with dry cloth.** - Unplug the apparatus from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
5. **Condensation** - In order to avoid condensation; wait a few hours before turning on the equipment when it is transported from a cold to a warm space.
6. The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Danger!**

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

7. **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.** - Openings in the enclosure, if any, are provided for ventilation and to ensure reliable operation of the apparatus and to protect it from overheating. These openings must not be blocked or covered. This apparatus should not be placed in a built-in installation unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat or in direct sunlight.
9. No naked flame sources, such as lighted candles, should be placed on the apparatus.
10. **Power cord options:**
 - **Mains plug**
 - Use a 3-pin mains plug that is registered with the Safety Authority.
 - Use a 2-pin mains plug that is certified¹ to EN 50075/IEC 60083 Standard C5 (shown in the Appendix S of Singapore Consumer Protection (Safety Requirements) Registration Scheme Information).
 - **Flexible cord**
 - Use a double insulated flexible cord that is certified¹ to the relevant IEC standards.
¹Certified by member of IECEE CB Scheme.
 - **Appliance connector**
 - Use an appliance connector certified¹ to IEC 60320.
¹Certified by member of IECEE CB Scheme.
11. **Do not defeat the safety purpose of the polarized or ground-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 the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12. Mains powered equipment shall be connected to a mains power outlet socket with a protective earthing connection. An external, readily operable, mains plug or all-pole mains switch shall be installed.
13. To completely disconnect AC power from this apparatus, the power supply cord must be unplugged.



Warning! To prevent a shock hazard disconnect all power sources prior to system installation.

14. Unplug the apparatus during lightning storms or when unused for long periods of time.
15. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.

**Danger!**

Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.

16. **Only use attachments/accessories specified by the manufacturer.** - Any mounting of the apparatus should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
17. **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. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

**Caution!**

Tripod is not evaluated for safety with this loudspeaker. Check the specifications of the tripod stand to be certain it is capable of supporting the weight of the loudspeaker.

18. System installation and servicing by qualified personnel only, in accordance with applicable local codes. No user-serviceable parts inside.
19. Devices installed above 2 m height may cause injury when falling down. Preventive measures must be taken.
20. **Replacement parts** - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
21. Only replace the mains fuse of an apparatus with a fuse of the same type.
22. **Safety check** - Upon completion of any service or repairs to this apparatus, ask the service technician to perform safety checks to determine that the apparatus is in proper operating condition.

1.2

Precautions

- If an Electro-Voice loudspeaker is used outdoors on a sunny day, place the loudspeaker in a shaded or covered area. The loudspeaker amplifiers have protection circuits that temporarily shut the loudspeaker off when extremely high temperatures are reached. This can happen on hot days when the loudspeaker is in direct sunlight.
- Do not use Electro-Voice loudspeakers in an environment where temperatures are below 0°C (32°F) or exceed +35°C (95°F).
- Electro-Voice loudspeakers are easily capable of generating sound pressure levels sufficient to cause permanent hearing damage to anyone within normal coverage distance. Caution should be taken to avoid prolonged exposure to sound pressure levels exceeding 90 dB. To prevent hearing damage do not listen at high volume levels for long periods.

1.3 Suspension

**Warning!**

Suspending any object is potentially dangerous and should only be attempted by individuals who have a thorough knowledge of the techniques and regulations of suspending objects overhead. Electro-Voice strongly recommends all loudspeakers be suspended taking into account all current national, federal, state, and local laws and regulations. It is the responsibility of the installer to ensure all loudspeakers are safely installed in accordance with all such requirements. When loudspeakers are suspended, Electro-Voice strongly recommends the system be inspected at least once per year or as laws and regulations require. If any sign of weakness or damage is detected, remedial action should be taken immediately. The user is responsible for making sure the wall, ceiling, or structure is capable of supporting all objects suspended overhead. Any hardware used to suspend a loudspeaker not associated with Electro-Voice is the responsibility of others.

**Warning!**

Do not suspend this product in any other manner than explicitly described in this manual, or Electro-Voice installation guides. Suspending any object (loudspeaker) is potentially dangerous and should only be done by individuals with thorough knowledge of techniques, materials, and regulations for suspending objects overhead. Electro-Voice loudspeakers can only be suspended using accessories and hardware described in Electro-Voice manuals and installation guides. **Do NOT use handles to suspend the loudspeaker. Handles on Electro-Voice loudspeakers are intended to only be used for temporary transport by people. Items, such as fiber rope, wire rope, cables, or other types of materials cannot be used to suspend loudspeaker from the handles.** Any hardware used to suspend a loudspeaker not associated with Electro-Voice is the responsibility of others.

**Warning!**

Use of non-authorized accessories or attachments with this or any Electro-Voice product is at your own discretion. Use of non-authorized accessories or attachments can result in product malfunction, injury, or death.

The user assumes all liability and may result in the warranty being voided.

2 Product registration



Register your EVIVA: electrovoice.com/register

3 Short information

This document is applicable to these products:

CTN	Description
EVIVA12P-US	12" 2-way powered speaker, US cord
EVIVA15P-US	15" 2-way powered speaker, US cord
EVIVA18SP-US	18" powered subwoofer, US cord
EVIVA12P-EU	12" 2-way powered speaker, EU cord
EVIVA15P-EU	15" 2-way powered speaker, EU cord
EVIVA18SP-EU	18" powered subwoofer, EU cord
EVIVA12P-BR	12" 2-way powered speaker, BR cord
EVIVA15P-BR	15" 2-way powered speaker, BR cord
EVIVA18SP-BR	18" powered subwoofer, BR cord
EVIVA12P-IN	12" 2-way powered speaker, IN cord
EVIVA15P-IN	15" 2-way powered speaker, IN cord
EVIVA18SP-IN	18" powered subwoofer, IN cord
EVIVA12P-VN	12" 2-way powered speaker, Vietnam
EVIVA15P-VN	15" 2-way powered speaker, Vietnam
EVIVA18SP-VN	18" powered subwoofer, Vietnam
EVIVA12P-NC	12" 2-way powered speaker, no cord
EVIVA15P-NC	15" 2-way powered speaker, no cord
EVIVA18SP-NC	18" powered subwoofer, no cord

3.1 Parts included

Make sure that all parts are included and not damaged. If the packaging or any parts are damaged, contact your shipper. If any parts are missing, contact your Sales or Customer Service Representative.

EVIVA 12P and EVIVA 15P

Quantity	Component
1	Powered loudspeaker
1 ¹	Power cable ¹
1	Quick user guide
2	Safety and security information

¹ Not included in EVIVA12P-NC and EVIVA15P-NC

EVIVA 18SP

Quantity	Component
1	Powered subwoofer
1 ¹	Power cable ¹
1	Quick user guide
2	Safety and security information

¹ Not included in EVIVA18SP-NC

4

Description

Thank you for choosing an Electro-Voice portable loudspeaker system. Please take time to consult the manual to understand all the features built into your EV system and fully utilize its performance capabilities.

EVIVA portable powered loudspeaker family delivers professional performance that is perfect for aspiring DJs, musicians, house of worship, small venues, and start up production and rental companies.

Designed for quick deployment, the user-friendly control and easy connectivity of EVIVA combine well with a lightweight design and rapid setup process to ensure that fast, single-person setup is possible. EVIVA consists of 12-inch and 15-inch 2-way loudspeakers in lightweight composite enclosures, and a single 18-inch subwoofer in a painted plywood enclosure.

High output and extended frequency response

The family is set to deliver best-in-class performance from a performance focused portable powered loudspeaker. The full-range loudspeakers feature Electro-Voice's patented SST (Signal Synchronized Transducers) and a custom-designed, high-energy neodymium high frequency compression driver. The combination provides high output and extended frequency response up to 20 kHz. The SST split baffle for bass extension brings out the lows down to 50 Hz (EVIVA 12P) and 45 Hz (EVIVA 15P). The subwoofer includes large slot ports for low distortion and bass extension down to 38 Hz. Both the EVIVA 12P and EVIVA 15P offer a 90° x 60° (horizontal x vertical) coverage pattern, delivering clean, even sound across the audience area. The 12-inch EVIVA 12P has a maximum SPL of 125 dB, while the 15-inch EVIVA 15P has a higher maximum SPL of 126 dB. Supplementing the low frequencies is the EVIVA 18SP which has a maximum SPL of 132 dB.

Flexible and quick setup

EVIVA offers industry standard connectivity to make setting up any gig as fast as possible. The full-range loudspeakers provide two XLR/TRS combo jack mic/line inputs, an XLR mix output, and Bluetooth® audio streaming with switchable mono/stereo output. The subwoofer provides two XLR/TRS combo jack line inputs, two XLR pass through outputs, switchable low pass frequency and reversible polarity.

The models feature a 1000 W amplifier, and 2-channel analog input section. The intuitive control panel features gain knobs for level adjustment from $-\infty$ (mute) to +40 dB (EVIVA 12P and EVIVA 15P), switches for mode changes between MUSIC and LIVE, and dual-color input signal metering and peak detection.

EVIVA is powered via an IEC mains input with universal mains voltage input 100 - 240 V auto-switching. Included power cord varies per region.

Robust modern heritage design

The loudspeaker family also benefits from prestigious Electro-Voice industrial design and a simple setup process to ensure users can get the most out of their system quicker. The loudspeaker features a stylish and robust modern heritage design, taking the open horn aesthetic from Sx series and the backbone spine enclosure from ZLX-G2. The subwoofer features durable all-metal handles and interlocking feet for stacking.

Accessories and portability

Electro-Voice accessories, such as BRKT-POLE-L wall mount bracket and TSS-1/TSP-1 tripod speaker stands, are compatible with EVIVA loudspeakers. PCL35, PCL 880 (both available in selected countries) and ASP-58 pole accessories fit the subwoofer's M20 threaded mount.

EVIVA is easy to transport. One single person is able to load, haul and unload the loudspeaker. Existing EVERSE-DUFFEL accessory is compatible with EVIVA12P loudspeaker.

4.1 Accessories

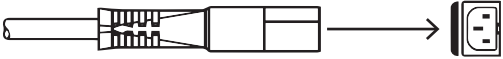
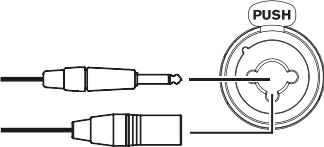
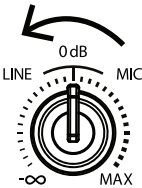
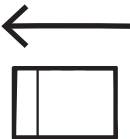
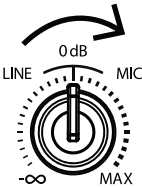

The EVIVA family includes a select complement of accessories. All accessories are sold separately.

CTN	Description
BRKT-POLE-L	BRKT-POLE-L Wall mount bracket 12",15" 2-way speaker
TSP-1	EV Tripod stand package
TSS-1	EV Tripod stand, single tripod stand
EVERSE-DUFFEL	Padded duffel bag for EVERSE
PCL35	Speaker pole, 35mm, M20 threaded
PCL 880	880mm subwoofer stand
ASP-58	Adjustable subwoofer stand

- **BRKT-POLE-L Wall mount bracket** - bracket to mount both EVIVA 12P and EVIVA 15P to a wall. Provides vertical tilt and horizontal pan adjustment. Maximum downward tilt is 30° and maximum upward tilt is 5°, speaker dependent.
- **TSP-1 and TSS-1 Tripod stands** - lightweight aluminum tripod speaker stand to use with both EVIVA 12P and EVIVA 15P. Height adjustable from 1.12 m to 2.0 m and weight capacity up to 54.4 kg. Locking pin ensures reliable speaker support and wide base with nonslip rubber feet provides stability. Provided as a pair with bag (TSP-1) or single standalone (TSS-1).
- **EVERSE-DUFFEL Padded duffel bag** - padded duffel with handle and shoulder strap to use with EVIVA 12P only. Duffel includes two pockets and internal divider. Able to accommodate one loudspeaker, wireless microphone receiver and mic, XLR cables, power cords, and mobile device.
- **PCL35 Speaker pole** - M20 threaded mount fixed height speaker pole to use with EVIVA 18SP. Fixed height is 880 mm. Available in selected countries.
- **PCL 880 Subwoofer stand** - M20 threaded mount fixed height subwoofer stand to use with EVIVA 18SP. Fixed height is 880 mm. Available in selected countries.
- **ASP-58 Adjustable subwoofer stand** - M20 threaded mount pole to use with EVIVA 18SP. Adjustable height from 935 mm to 1460 mm in 175 mm steps and maximum weight up to 45.4 kg. Spring-loaded bolt with locking screw secures pole height.

5 Quick setup

The EVIVA series loudspeakers from Electro-Voice are fully integrated audio systems with carefully matched electronics and transducers. These products make it easy to setup a high quality sound system quickly with a minimum amount of cables and external electronics.

Step	Illustration
1. Connect the AC power cord from a grounded line receptacle to the MAINS IN .	
2. Connect the XLR or TRS cable from an audio source to INPUT 1 or INPUT 2.	
3. Adjust the input gain to $-\infty$ (mute).	
4. Switch power to ON .	
5. Increase the input gain to the desired signal level. If the SIG / PEAK indicator turns to red, reduce the corresponding input level control.	
6. Adjust the MASTER VOLUME control knob to the desired volume. Be mindful of the LIMIT indicator.	

6 Wireless streaming

For EVIVA12P and EVIVA15P models, follow these instructions to quickly and correctly pair and tune your system for wireless streaming from a Bluetooth®-enabled mobile device.

Prior to pairing:

- ▶ Ensure that Bluetooth® is enabled on your mobile device.

To pair the system for wireless streaming:

1. Using the **MASTER VOLUME** knob, turn the output gain level down to $-\infty$ (mute).
2. Press and hold the **PUSH & HOLD TO PAIR** button for 3 seconds or longer to enter pairing mode.
Bluetooth indicator is flashing during pairing mode.
3. In the mobile device, navigate to the Bluetooth menu, and select EVIVA 12P or EVIVA 15P from the list of discovered devices.



Notice!

Each loudspeaker has a 4-digit unique identifier after the model name. The 4-digit unique identifier (**Bluetooth ID**) can be found on the white label on the rear of the loudspeaker.

- ▶ The Bluetooth indicator is solid illuminated once the connection is established.

Gain structuring

After pairing your mobile device with the system, you can set the volume for your streaming device.

To set the volume for your streaming device:

1. Set the loudspeaker output gain to $-\infty$ (mute).
2. Start playing music from your desired player/source.
3. Increase the volume from your device to at least 75%.
4. Using the **MASTER VOLUME** control knob, increase the output gain to the desired listening level.
Be mindful of the **LIMIT** indicator.
5. Turn the level down on your device for convenient volume control (optional).

7 Tripod, pole mount and floor monitor operation

**Caution!**

We recommend that two or more persons lift and place heavier loudspeakers. Single person lift and placement of heavier loudspeakers could cause injury.

**Caution!**

Do not stack additional loudspeakers.

7.1 Tripod or pole mount

EVIVA portable loudspeakers mount on a tripod stand or on a pole above a subwoofer.

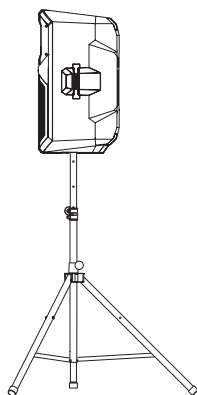
Mounting a loudspeaker on a tripod stand

**Caution!**

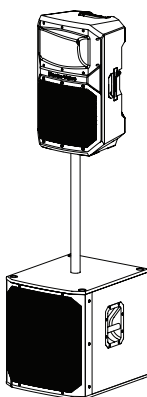
Tripod is not evaluated for safety with this loudspeaker. Check the specifications of the tripod stand to be certain it is capable of supporting the weight of the loudspeaker.

To mount a loudspeaker on a tripod stand, do the following:

1. Place the tripod stand on a level and stable surface.
 - Fully extend the legs on the tripod stand.
 - Do not compromise the tripod stand's structural integrity by trying to make the stand taller.
 - Do not attempt to mount more than one loudspeaker on a stand designed for a single loudspeaker.
2. Lift the loudspeaker using two hands.
3. Set the pole cup located on the bottom of the loudspeaker onto the pole.



Mounting a loudspeaker on a pole



To mount a loudspeaker on a pole, do the following:

1. Place the subwoofer on a level and stable surface.
2. Insert the pole into the pole cup on the top of the subwoofer.
If you are using a threaded pole mount, turn the pole clockwise to secure the pole to the subwoofer.
3. Lift the loudspeaker using two hands.
4. Set the pole cup located on the bottom of the loudspeaker onto the pole.

7.2

Floor monitor

EVIVA loudspeakers may be used as a floor monitor by placing the loudspeaker on one integrated monitor angle.

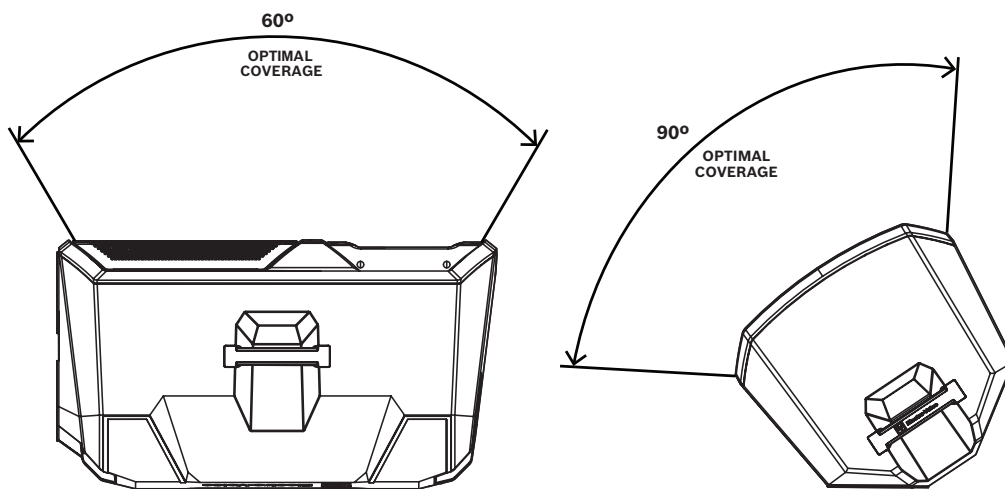
To set up a loudspeaker as a floor monitor:

1. Place the loudspeaker on a level and stable surface.
2. Safely route cables to prevent injury to performers, production crew, and audience members.



Notice!

Secure cables with wire ties or tape whenever possible.



8 Amplifier DSP controls

Full-range loudspeaker input panel

The full-range loudspeaker DSP control menu selections are available for the EVIVA loudspeakers.

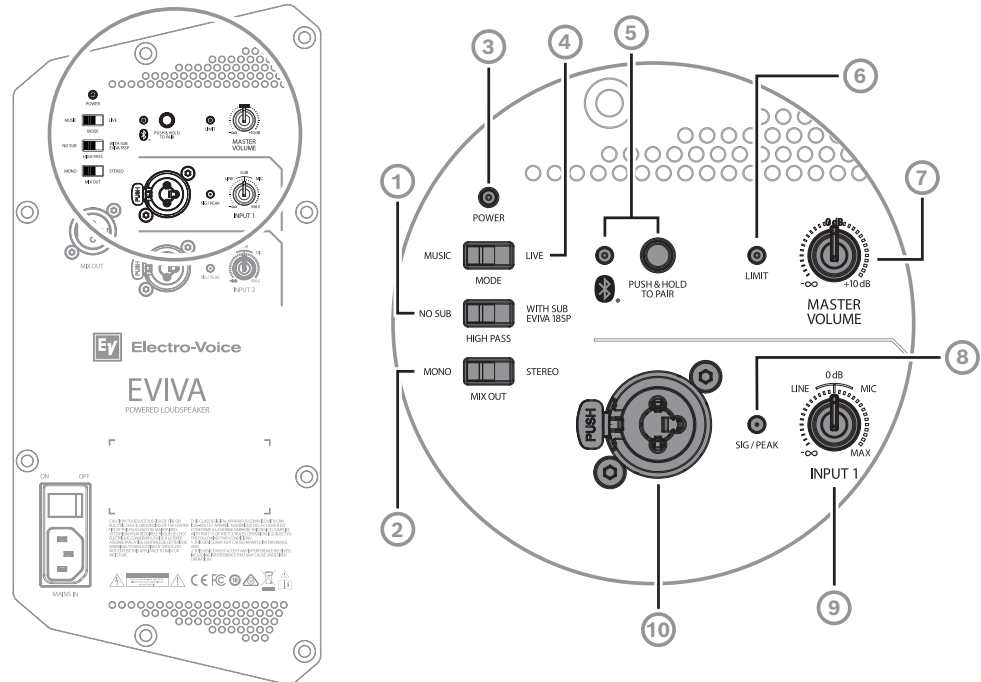


Figure 8.1: Full-range loudspeaker input panel, section 1/3

1. **HIGH PASS** select switch - used to refine the sound the loudspeakers deliver based on the system configuration. Available options are:
NO SUB - used for full-range applications, without subwoofer.
WITH SUB EVIVA 18SP - used for applications with subwoofer. Crossover frequency is 100 Hz.
2. **MIX OUT** select switch- used to configure the sound the loudspeakers delivers when connected to a Bluetooth-enabled device. Available options are:
MONO - loudspeaker plays the mono sum of left and right BT channels, and XLR MIX OUT also sends the mono sum of left and right BT channels.
STEREO - loudspeaker plays the left BT channel, while the XLR MIX OUT sends the right BT channel.
3. **POWER** indicator - used to indicate if the loudspeaker is on or off. Available options are:
POWER indicator on - the loudspeaker is on.
POWER indicator off - the loudspeaker is off.
4. **MODE** select switch - used to configure the type of sound the loudspeaker delivers. Available options are:
MUSIC - deep bass with maximum low frequency extension for DJs and full-bandwidth playback of recorded music.
LIVE - natural, flat frequency response for accurate reproduction in live sound and guitar modeling applications.
5. **Bluetooth** indicator and **PUSH & HOLD TO PAIR** button - used to connect the loudspeaker to a Bluetooth-enabled device. Available options are:
Bluetooth indicator off - no Bluetooth connection.
Bluetooth indicator flashing - in pairing mode.
Bluetooth indicator on - Bluetooth connection is established.

6. **LIMIT** indicator - protects the loudspeaker from short-term peaks and long-term overload, which can cause distortion. When the **LIMIT** indicator is on, the limiter is active.
If the **LIMIT** indicator is on often or continuously:
Reduce the output volume (**MASTER VOLUME**). This is strongly recommended.
7. **MASTER VOLUME** control knob - adjusts the sound level. The **0 dB** position is unity gain (no gain or attenuation).
8. **SIG / PEAK** indicator
SIG / PEAK indicator lights up green - signal to the loudspeaker is within the normal range.
SIG / PEAK indicator lights up red - signal to the loudspeaker is too high. Signal peaks are clipping and overloading the input, resulting in a distorted signal into the loudspeaker.
If the **SIG / PEAK** indicator lights up red:
Reduce the corresponding input level control.
9. **INPUT 1** level control knob - adjust the individual inputs' level providing gain adjustment from $-\infty$ (mute) to +40 dB. The **0 dB** position is unity gain (no gain or attenuation). The range to the left of unity (**0 dB**) is for adjusting line level sources, and the range to the right of unity (**0 dB**) is for adjusting microphone levels. **LINE** and **MIC** input level control is available.
10. **INPUT 1** - Balanced input for the connection of signal sources like mixing consoles, instruments, or microphones. Connections can be established using 1/4-inch TRS or XLR connectors.

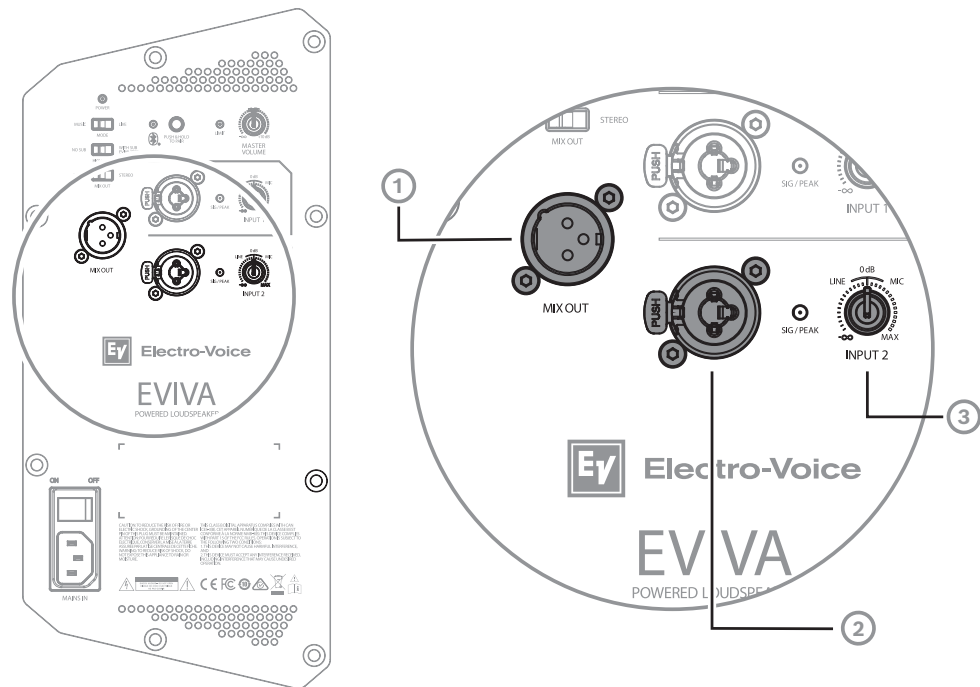


Figure 8.2: Full-range loudspeaker input panel, section 2/3

1. **MIX OUT** - Mix output XLR that sends the mix of all input signals (**INPUT 1**, **INPUT 2** or Bluetooth) to another loudspeaker or subwoofer. Input level control knobs control the signal level to **MIX OUT**. The **MASTER VOLUME** control knob does not affect **MIX OUT**.
2. **INPUT 2** - Balanced input for the connection of signal sources like mixing consoles, instruments, or microphones. Connections can be established using 1/4-inch TRS or XLR connectors.
3. **INPUT 2** level control knob - adjust the individual inputs' level providing gain adjustment from $-\infty$ (mute) to +40 dB. The **0 dB** position is unity gain (no gain or attenuation). The range to the left of unity (**0 dB**) is for adjusting line level sources, and the range to the right of unity (**0 dB**) is for adjusting microphone levels. **LINE** and **MIC** input level control is available.

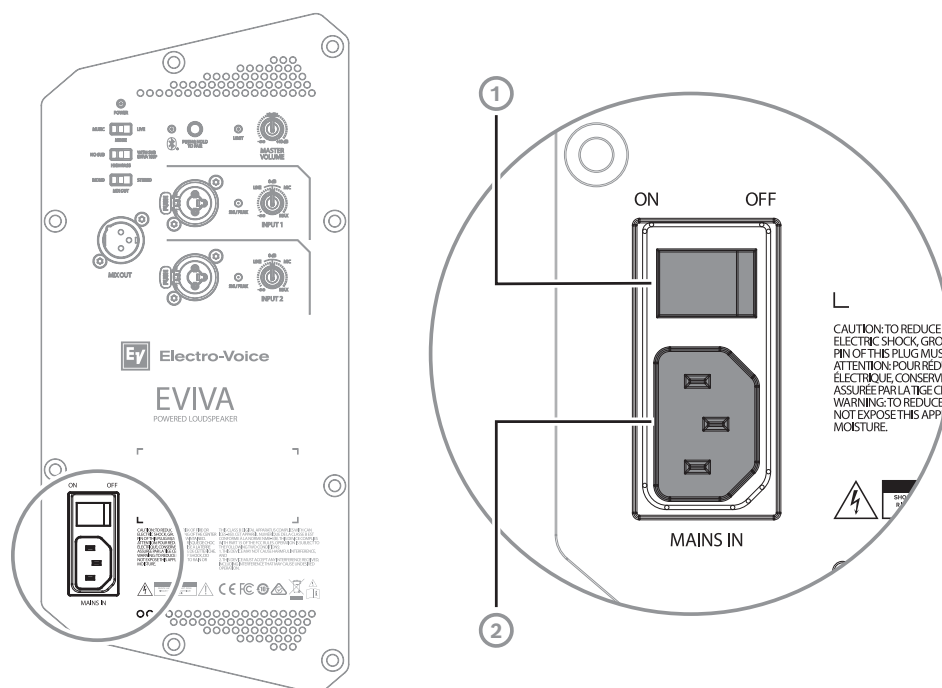


Figure 8.3: Full-range loudspeaker input panel, section 3/3

1. **Power switch** - AC switch for switching the power on (**ON**) or off (**OFF**). The **POWER** indicator lights up when the power is turned on.
2. **MAINS IN** input - AC connection is established via an IEC-connector.

Subwoofer input panel

The subwoofer DSP control menu selections are available for the EVIVA subwoofers.

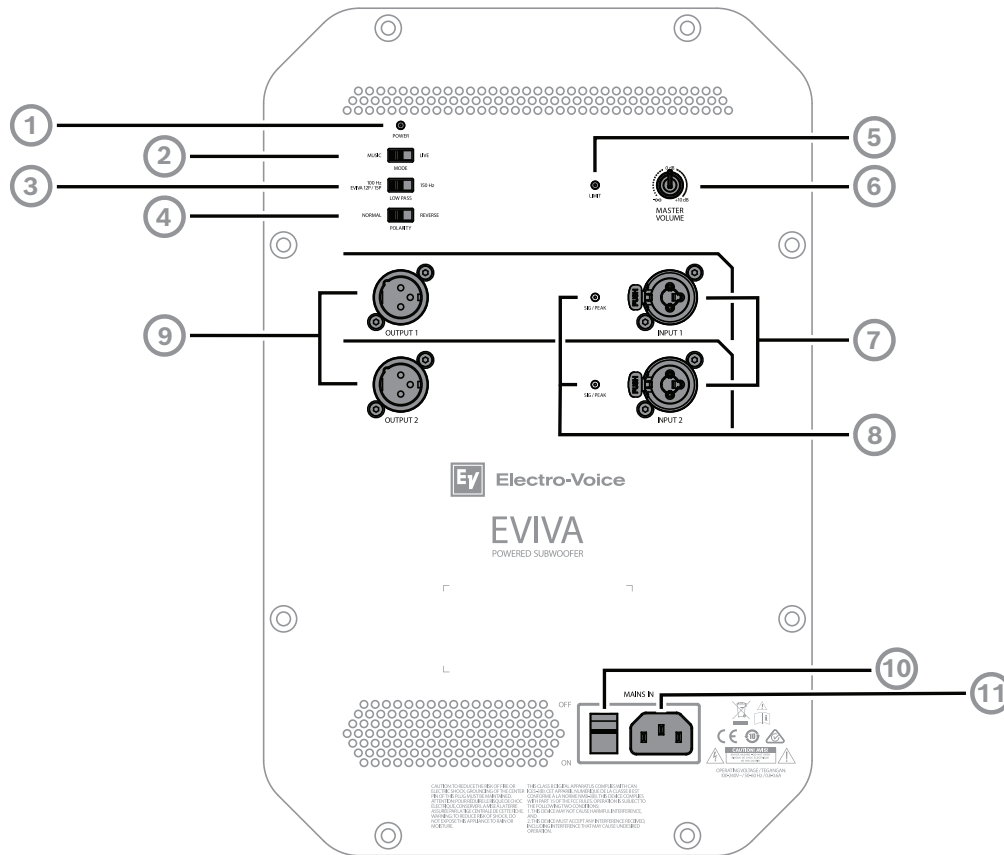


Figure 8.4: Subwoofer input panel

1. **POWER** indicator - used to indicate if the loudspeaker is on or off. Available options are:
POWER indicator on - the loudspeaker is on.
POWER indicator off - the loudspeaker is off.
2. **MODE** select switch - used to configure the type of sound the loudspeaker delivers. Available options are:
MUSIC - deep bass with maximum low frequency extension for DJs and full-bandwidth playback of recorded music.
LIVE - tight, punchy output for maximum impact of percussion and stringed instruments, used for live sound applications.
3. **LOW PASS** select switch - used to refine the sound the loudspeakers delivers based on the system configuration. Available options are:
100 Hz EVIVA 12P / 15P - for use with most 10-inch, 12-inch, or 15-inch loudspeakers. Specifically optimized for EVIVA powered loudspeakers.
150 Hz - generic low pass setting for use with 8-inch loudspeakers with external DSP processor.
4. **POLARITY** select switch - used to match the performance of the subwoofer to the loudspeaker. Available options are:
NORMAL - a positive signal into the subwoofer produces a positive sound pressure. Setting for most situations.
REVERSE - a positive signal into the subwoofer produces a negative sound pressure. Setting for custom applications with non-Electro-Voice loudspeakers.
5. **LIMIT** indicator - protects the loudspeaker from short-term peaks and long-term overload, which can cause distortion. When the **LIMIT** indicator is on, the limiter is active.

If the **LIMIT** indicator is on often or continuously:

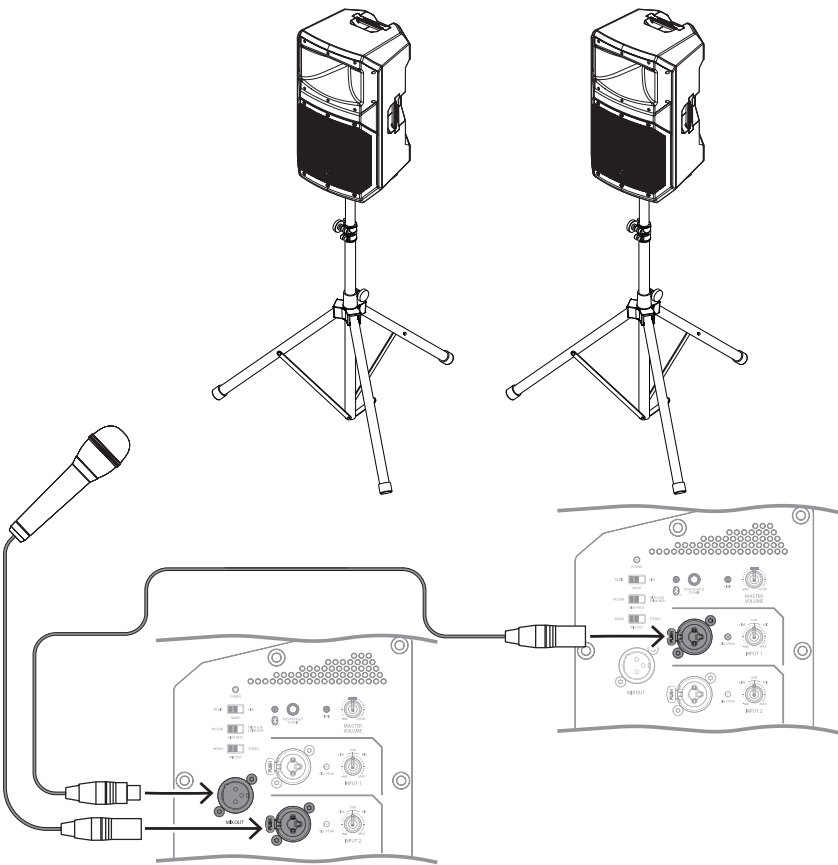
Reduce the output volume (**MASTER VOLUME**). This is strongly recommended.

6. **MASTER VOLUME** control knob - adjusts the sound level. The **0 dB** position is unity gain (no gain or attenuation).
7. **INPUT 1** and **INPUT 2** - Balanced input for the connection of signal sources like mixing consoles, instruments, or microphones. Connections can be established using ¼-inch TRS or XLR connectors.
8. **SIG / PEAK** indicator
SIG / PEAK indicator lights up green - signal to the loudspeaker is within the normal range.
SIG / PEAK indicator lights up red - signal to the loudspeaker is too high. Signal peaks are clipping and overloading the input, resulting in a distorted signal into the loudspeaker.
If the **SIG / PEAK** indicator lights up red:
Reduce the corresponding input level control.
9. **OUTPUT 1** and **OUTPUT 2** - XLR output that sends the input signal (INPUT 1 or INPUT 2) to another loudspeaker or subwoofer. INPUT 1 is linked to OUTPUT 1 and INPUT 2 is linked to OUTPUT 2. The MASTER VOLUME or DSP control settings do not affect OUTPUT.
10. **Power switch** - AC switch for switching the power on (**ON**) or off (**OFF**). The **POWER** indicator lights up when the power is turned on.
11. **MAINS IN** input - AC connection is established via an IEC-connector.

9 Recommended configurations

9.1 Speaking event with multiple loudspeakers

LINE and MIC options are available for both INPUT 1 and INPUT 2 level control knobs. The 0 dB position is unity gain (no gain or attenuation) and the range to the right of zero is for adjusting microphone levels.



Notice!
The direction of the arrow indicates the signal path.

MODE	LIVE
HIGH PASS	WITH SUB EVIVA 18SP

Table 9.1: DSP settings for loudspeaker on a tripod

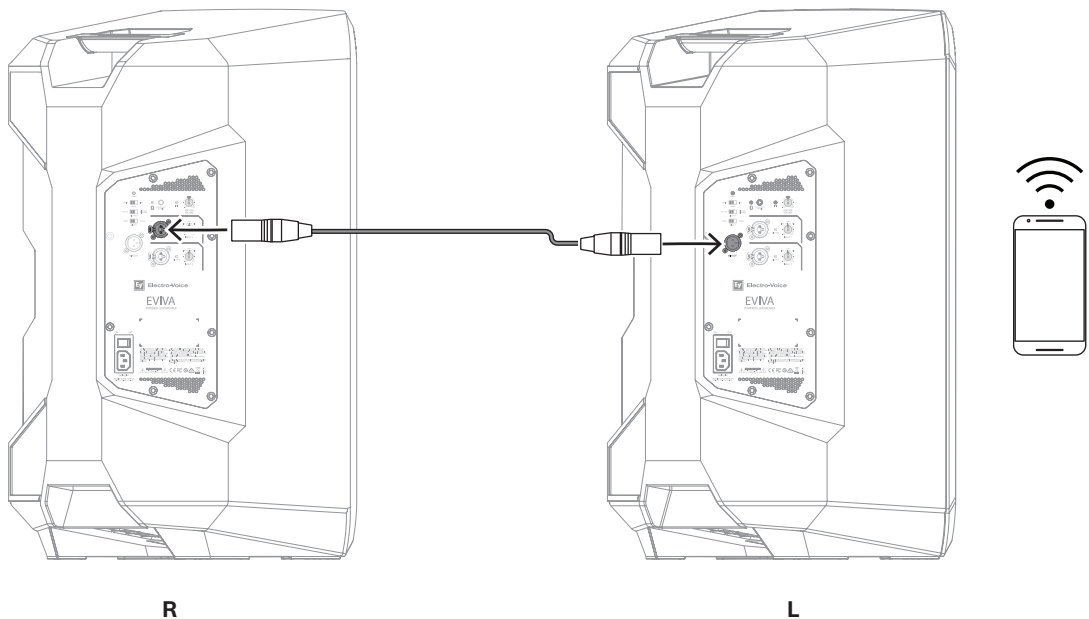
9.2 Bluetooth streaming STEREO configuration

Wireless audio streaming via Bluetooth® is available for EVIVA loudspeakers. This configuration can be used to connect two speakers and split the incoming Bluetooth® signal to create a stereo image between two speakers. Parameters and mobile device pairing is to be done on the LEFT speaker.



Notice!
XLR MIX OUT cable required.

- ▶ On the right speaker, set **INPUT 1** level control knob to 0 dB. When the **MASTER VOLUME** knobs are at the same position, the audible level will match between the left and right speakers.



R	Right
L	Left



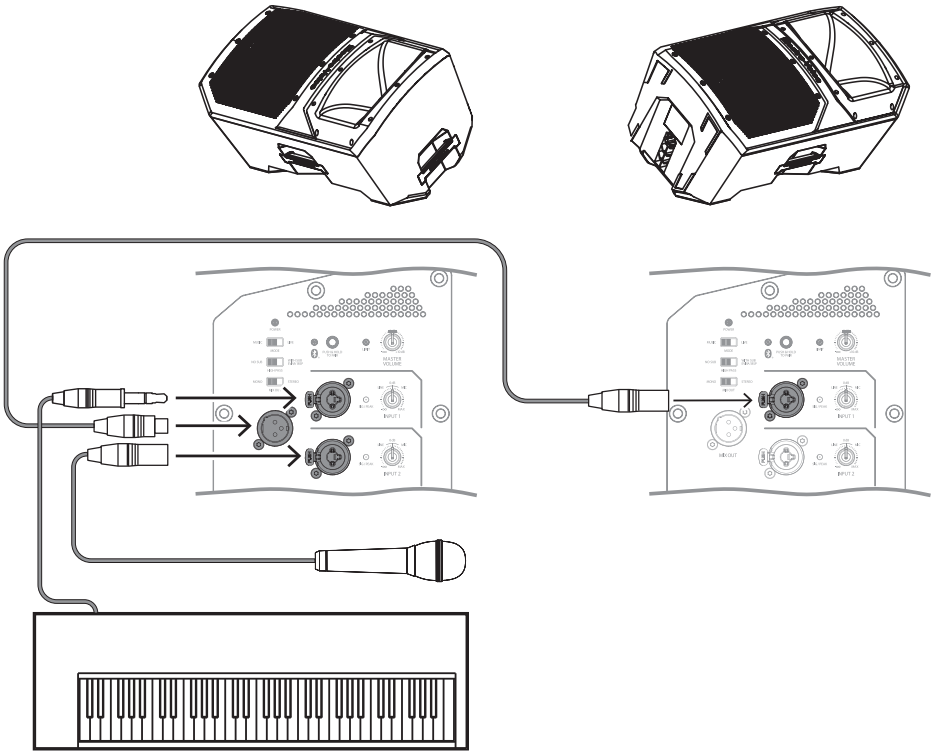
Notice!
The direction of the arrow indicates the signal path.

MODE	MUSIC
MIX OUT	STEREO
LOW PASS	NO SUB

Table 9.2: DSP settings for BT STEREO streaming

9.3 Using full-range systems as monitors

LINE and **MIC** options are available for both **INPUT 1** and **INPUT 2** level control knobs. The **0 dB** position is unity gain (no gain or attenuation) and the range to the right of zero is for adjusting microphone levels.

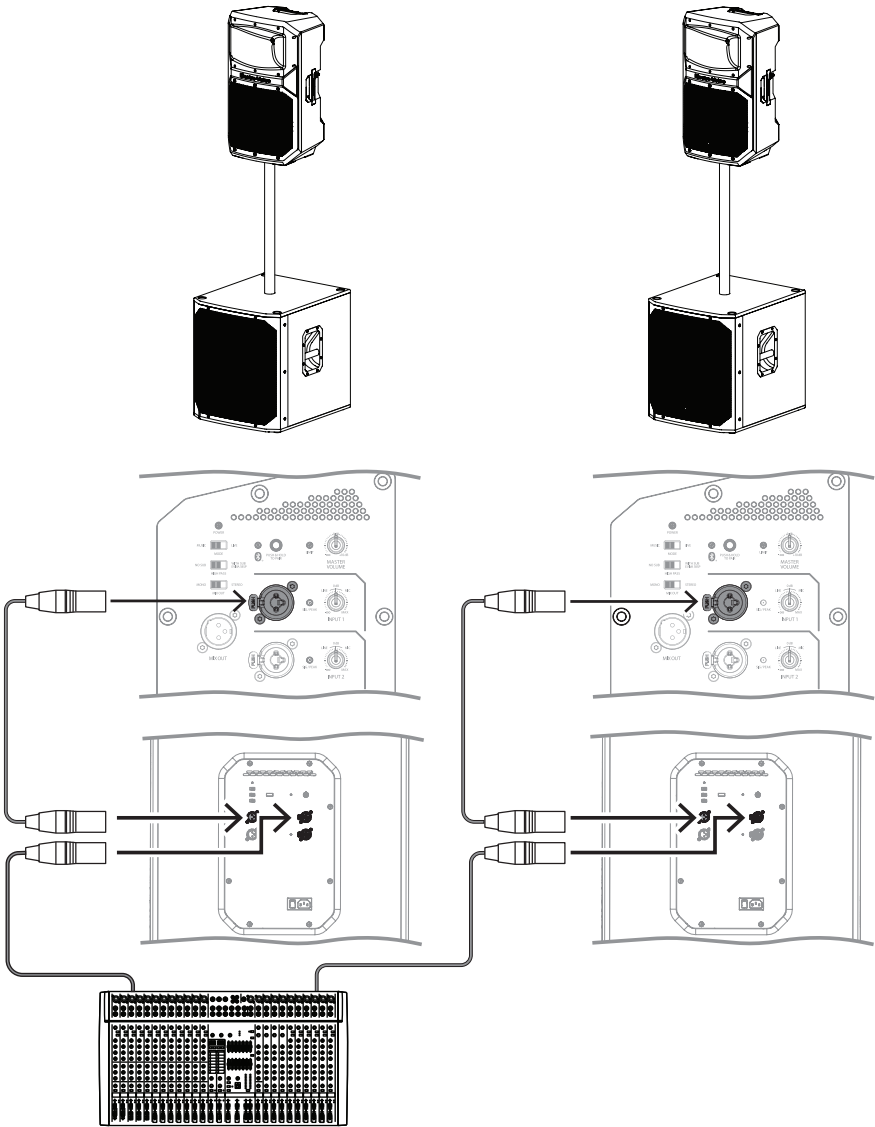


Notice!
The direction of the arrow indicates the signal path.

MODE	LIVE
HIGH PASS	NO SUB

Table 9.3: DSP settings for loudspeakers as monitors

9.4 Stacking full-range systems with subwoofers



Notice!
The direction of the arrow indicates the signal path.

EVIVA12P or EVIVA15P	
MODE	MUSIC or LIVE (user preference)
HIGH PASS	WITH SUB EVIVA 18SP
EVIVA18SP	
MODE	MUSIC or LIVE (user preference)
LOW PASS	100 Hz EVIVA 12P / 15P

Table 9.4: DSP settings for loudspeaker and subwoofer stacked

10 Troubleshooting

Problem	Possible Cause(s)	Action
1. No sound	Amplifier	Verify all the electronics are on, the signal routing is correct, the source is active; the volume is turned up, etc. Correct/repair/replace as necessary. If there is still no sound, then the problem may be wiring.
	Wiring	Verify you have connected the correct cables to the amplifier. Play something at a low level through the amplifier. Connect a test loudspeaker in parallel with the malfunctioning line. If the sound level is gone or is very weak, the line has a short in it (possibly a severe scrape, pinch, or a missed connection). Using the test loudspeaker, move down the line and test each connection/junction until you find the problem and correct it. Observe proper polarity.
2. Poor Low-Frequency Response	WITH SUB EVIVA 18SP cross-over frequency activated	If no subwoofers are used with the system, select the NO SUB position.
3. Intermittent output such as cracking or distortion	Faulty connection	Check all connections at amplifier and loudspeakers to ensure they are all clean and tight. If the problem persists, check the wiring. See problem 1.
4. Constant noise such as buzzing, hissing or humming	Defective source or other electronic device	If noise is present, but no program material is playing, evaluate each component as necessary to isolate the problem. Most likely there is a break in the signal path.
	Poor system grounding or ground loop	Check and correct the system grounding, as required.
	Input gain knob is not in the MIC position	Slowly increase the input gain knob level to engage the microphone pre-amp.
5. No sound produced with microphone connected to INPUT 1 or INPUT 2	Microphone requires phantom power.	Use a dynamic microphone that does not require phantom power. If using a microphone requiring phantom power, an external phantom power source is needed.
	Input gain knob is not in the MIC position	Slowly increase the input gain knob level to engage the microphone pre-amp.
6. Sound is distorted. SIG / PEAK or LIMIT is lighting	Excessive input level	Reduce the input level or loudspeaker level knobs to prevent PEAK or LIMIT .
	Incorrect gain structure or source input (mixing console/preamp) is overdriven	Verify level controls of the source are properly structured. If the SIG / PEAK indicator is lighting, the input or source level is too high.

Problem	Possible Cause(s)	Action
7. Microphone produces acoustic feedback when input level is amplified	Incorrect gain structure	Reduce the microphone levels at the mixing console or input source. If the microphone is connected directly to the speaker, reduce the input level on the speaker. Positioning the microphone close to the sound source increases gain-before-feedback. See problem 6.
	MODE is set to MUSIC	Change MODE to LIVE .
	Microphone position is too close to the front of the loudspeaker	Whenever possible setup the loudspeakers so the microphone is behind them. If using the loudspeaker in a monitor position, aim the loudspeaker to the back of the microphone.
8. No streaming audio	Mobile device is paired to the wrong speaker.	If you have previously paired to a different Bluetooth®-enabled loudspeaker, you may be pairing with the wrong speaker. Try deleting all saved connections and try the pairing process again.
	Input level is too low	While music is playing, turn up the volume on the paired mobile device.
	Output gain is too low	Increase output gain by setting your level with the MASTER VOLUME knob, paying attention to the LIMIT indicator.
9. Skipping or stuttering playback with streaming audio	Paired mobile device is too far away from the loudspeaker	Move the mobile device closer to the loudspeaker.
	High amount of interference in the use area.	This Bluetooth® enabled loudspeaker occupies the same operating frequencies as other Bluetooth® devices, as well as Wi-Fi and other wireless transmissions (like wireless home phones). If you are experiencing drop-outs, your speaker may be in an environment that makes reliable wireless audio difficult. Try to move the loudspeaker to different locations in the room, and especially away from 2.4 GHz routers and microphone receivers. If the problem persists, revert back to a wired connection while at that particular venue.

If these suggestions do not solve your problem, contact your nearest Electro-Voice dealer or Electro-Voice distributor.

11

Technical data

EVIVA12P

1) Full-space measurement using
MUSIC DSP preset.

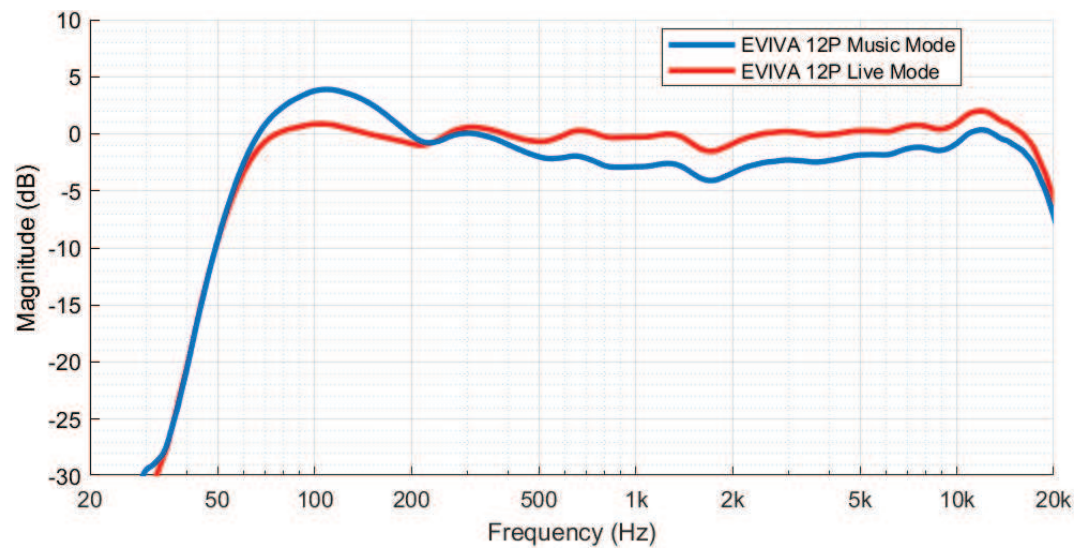
2) Full-space measurement using
LIVE DSP preset.

3) Maximum SPL is measured at
1 m using broadband pink noise at
maximum output.

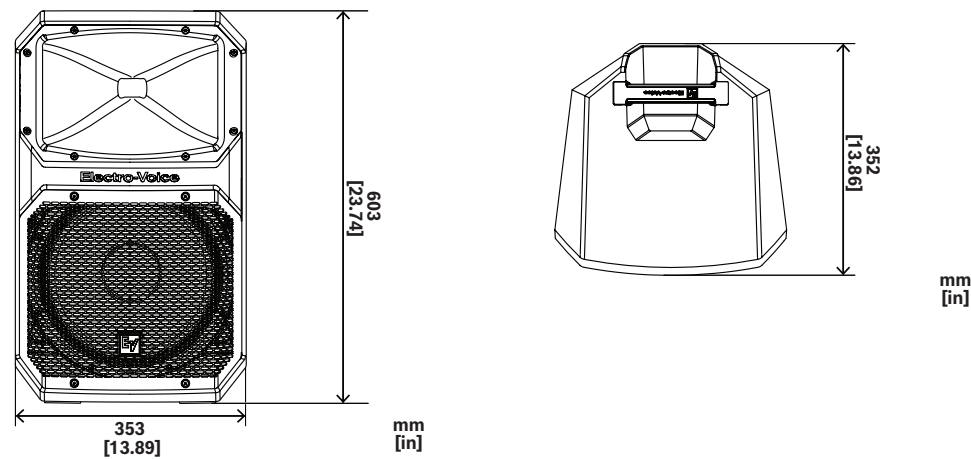
4) Current rating is 1/8 power.

Frequency response (-3 dB) (Hz) ¹	63 Hz – 18,000 Hz
Frequency range (-10 dB) (Hz) ¹	50 Hz – 20,000 Hz
Maximum sound pressure level at a distance of 1 m (dB) ^{2, 3}	125 dB
Coverage angle HxV (°)	90° x 60°
Amplifier rating (W)	1000 W
Power consumption (V, Hz) ⁴	100 - 240 V~, 50 - 60 Hz, 1.0 - 0.5 A
LF transducer size (in)	12 in
LF transducer type	WECA2124H woofer
LF transducer magnet material	Ferrite
HF transducer size (in)	1 in
HF transducer type	DENA2504H compression driver
HF transducer diaphragm material	Titanium-coated PEI
HF transducer magnet material	Neodymium
Crossover frequency (kHz)	2.20 kHz
Connector type	(2) XLR Combo mic/line input (1) XLR mix output
Enclosure	Composite
Grille material	Powder coated steel
Color	Black
Dimensions (H x W x D) (mm)	603 mm x 353 mm x 352 mm
Dimensions (H x W x D) (in)	23.74 in x 13.89 in x 13.86 in
Shipping dimensions (H x W x D) (mm)	645 mm x 410 mm x 410 mm
Shipping dimensions (H x W x D) (in)	25.39 in x 16.14 in x 16.14 in
Weight (kg)	12 kg
Weight (lb)	26.50 lb
Shipping weight (kg)	15.50 kg
Shipping weight (lb)	34.20 lb

Frequency response



Dimensions



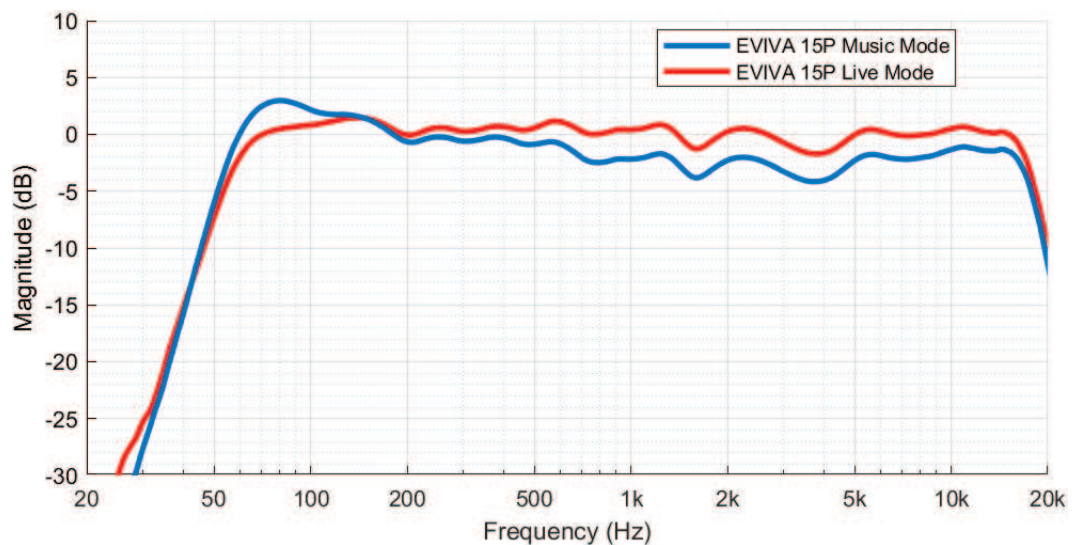
EVIVA15P

- 1) Full-space measurement using MUSIC DSP preset.
- 2) Full-space measurement using LIVE DSP preset.
- 3) Maximum SPL is measured at 1 m using broadband pink noise at maximum output.
- 4) Current rating is 1/8 power.

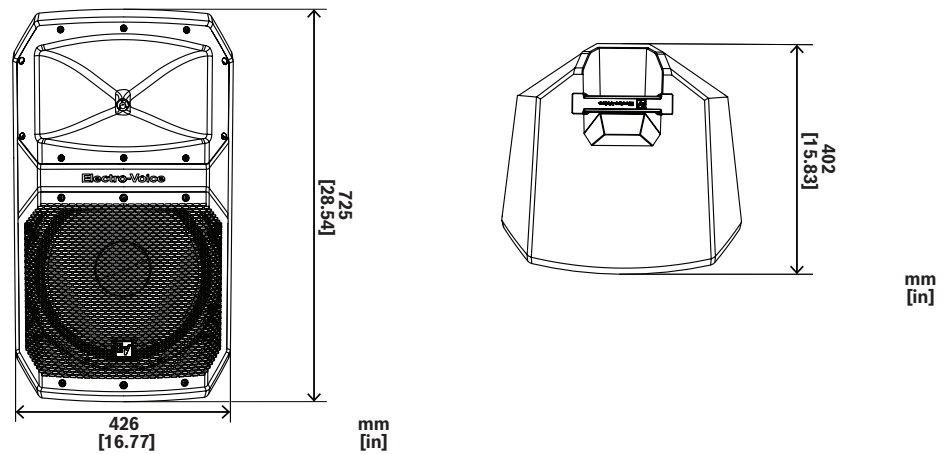
Frequency response (-3 dB) (Hz) ¹	56 Hz – 17,000 Hz
Frequency range (-10 dB) (Hz) ¹	45 Hz – 20,000 Hz
Maximum sound pressure level at a distance of 1 m (dB) ^{2, 3}	126 dB
Coverage angle HxV (°)	90° x 60°
Amplifier rating (W)	1000 W
Power consumption (V, Hz) ⁴	100 - 240 V~, 50 - 60 Hz, 1.0 - 0.5 A
LF transducer size (in)	15 in
LF transducer type	WECA2154H woofer
LF transducer magnet material	Ferrite

HF transducer size (in)	1 in
HF transducer type	DENA2504H compression driver
HF transducer diaphragm material	Titanium-coated PEI
HF transducer magnet material	Neodymium
Crossover frequency (kHz)	1.90 kHz
Connector type	(2) XLR Combo mic/line input (1) XLR mix output
Enclosure	Composite
Grille material	Powder coated steel
Color	Black
Dimensions (H x W x D) (mm)	725 mm x 426 mm x 402 mm
Dimensions (H x W x D) (in)	28.54 in x 16.77 in x 15.83 in
Shipping dimensions (H x W x D) (mm)	762 mm x 485 mm x 455 mm
Shipping dimensions (H x W x D) (in)	30.00 in x 19.10 in x 17.91 in
Weight (kg)	14.60 kg
Weight (lb)	32.20 lb
Shipping weight (kg)	19.50 kg
Shipping weight (lb)	43 lb

Frequency response



Dimensions



EVIVA18SP

1) Full-space measurement using MUSIC DSP preset.

2) Half-space measurement using LIVE DSP preset and 150 Hz low pass.

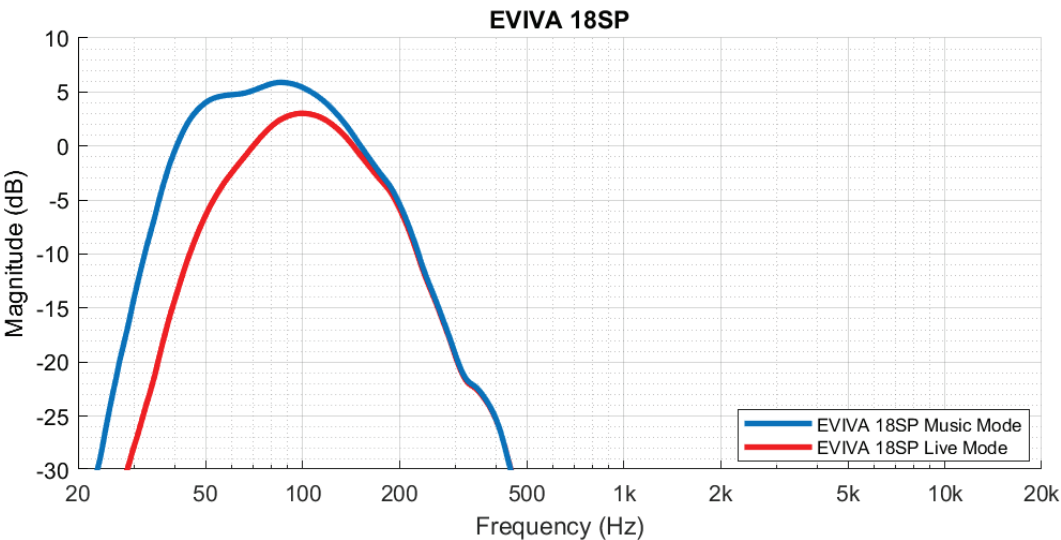
3) Maximum SPL is measured at 1 m using broadband pink noise at maximum output.

4) Current rating is 1/8 power.

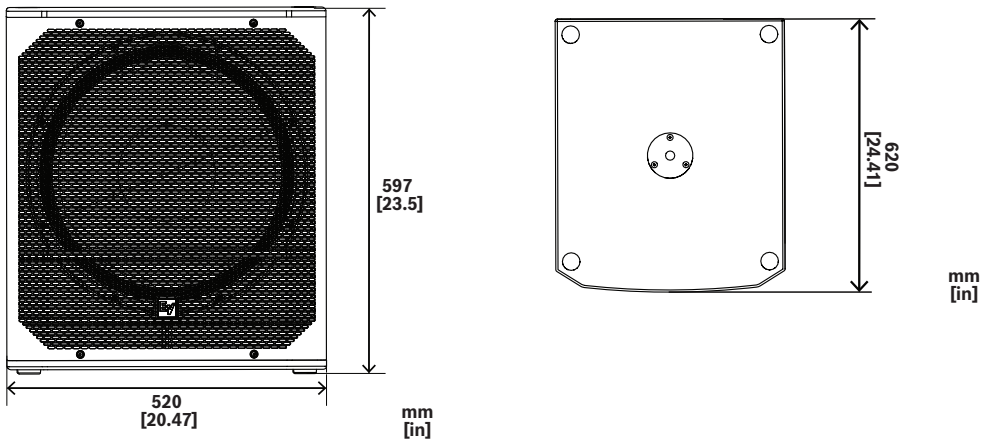
Frequency response (-3 dB) (Hz) ¹	45 Hz – 150 Hz
Frequency range (-10 dB) (Hz) ¹	38 Hz – 200 Hz
Maximum sound pressure level at a distance of 1 m (dB) ^{2,3}	132 dB
Amplifier rating (W)	1000 W
Power consumption (V, Hz) ⁴	100 - 240 V~, 50 - 60 Hz, 0.6 - 0.4 A
LF transducer size (in)	18 in
LF transducer type	WECA2188H woofer
LF transducer magnet material	Ferrite
Crossover frequency (Hz)	100 Hz (default) 150 Hz (optional)
Connector type	(2) XLR/TRS combo jack line in (2) XLR pass through out
Enclosure	15 mm plywood, internally braced, with textured paint
Grille material	Powder coated steel
Color	Black
Dimensions (H x W x D) (mm)	597 mm x 520 mm x 620 mm
Dimensions (H x W x D) (in)	23.50 in x 20.47 in x 24.41 in
Shipping dimensions (H x W x D) (mm)	650 mm x 602 mm x 674 mm
Shipping dimensions (H x W x D) (in)	25.59 in x 23.70 in x 26.54 in
Weight (kg)	30.70 kg

Weight (lb)	67.60 lb
Shipping weight (kg)	36.90 kg
Shipping weight (lb)	81.30 lb

Frequency response



Dimensions



12 Appendices

12.1 Warranty information

For information on warranty periods and after sales service, please visit: www.electrovoice.com/warranty

12.2 Regulatory information

12.2.1 FCC information

IMPORTANT: Do not modify this unit! Changes or modifications not expressly approved by the manufacturer could void the user's authority, granted by the FCC, to operate the equipment.



Notice!

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception or receive audible interference from radio, television or communications equipment, which can be determined by turning the equipment off and on. The user is encouraged to try to correct the interference by one or more of the following measures:

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

The device has been granted by FCC and IC, the FCC ID ESV-EVIVA and IC ID 1249A-EVIVA.

Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

12.2.2 Simplified Declaration of Conformity (sDoC) for Europe (CE)

BG	С настоящото Bosch Security Systems, LLC декларира, че този тип радиосъоръжение EVIVA12P-EU, EVIVA15P-EU е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: www.electrovoice.com
CS	Tímto Bosch Security Systems, LLC prohlašuje, že typ rádiového zařízení EVIVA12P-EU, EVIVA15P-EU je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: www.electrovoice.com
DA	Hermed erklærer Bosch Security Systems, LLC , at radioudstyrstypen EVIVA12P-EU, EVIVA15P-EU er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: www.electrovoice.com
DE	Hiermit erklärt Bosch Security Systems, LLC , dass der Funkanlagentyp EVIVA12P-EU, EVIVA15P-EU der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: www.electrovoice.com
EL	Με την παρούσα ο/η Bosch Security Systems, LLC , δηλώνει ότι ο ραδιοεξοπλισμός EVIVA12P-EU, EVIVA15P-EU πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: www.electrovoice.com
EN	Hereby, Bosch Security Systems, LLC declares that the radio equipment type EVIVA12P-EU, EVIVA15P-EU is in compliance with Directive 2014/53/EU and the relevant statutory requirements. The full text of the EU declaration of conformity is available at the following internet address: www.electrovoice.com .
ES	Por la presente, Bosch Security Systems, LLC declara que el tipo de equipo radioeléctrico EVIVA12P-EU, EVIVA15P-EU es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: www.electrovoice.com .
ET	Käesolevaga deklareerib Bosch Security Systems, LLC , et käesolev raadioseadme tüüp EVIVA12P-EU, EVIVA15P-EU vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: www.electrovoice.com
FI	Bosch Security Systems, LLC vakuuttaa, että radiolaitetyypit EVIVA12P-EU, EVIVA15P-EU on direktiivin 2014/53/EU mukainen. EU-vaatimustenmukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: www.electrovoice.com
FR	Le soussigné, Bosch Security Systems, LLC , déclare que l'équipement radioélectrique du type EVIVA12P-EU, EVIVA15P-EU est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: www.electrovoice.com
HR	Bosch Security Systems, LLC ovime izjavljuje da je radijska oprema tipa EVIVA12P-EU, EVIVA15P-EU u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o sukladnosti dostupan je na sljedećoj internetskoj adresi: www.electrovoice.com
HU	Bosch Security Systems, LLC igazolja, hogy a EVIVA12P-EU, EVIVA15P-EU típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: www.electrovoice.com

IT	Il fabbricante, Bosch Security Systems, LLC , dichiara che il tipo di apparecchiatura radio EVIVA12P-EU, EVIVA15P-EU è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: www.electrovoice.com
LT	Aš, Bosch Security Systems, LLC , patvirtinu, kad radijo įrenginių tipas EVIVA12P-EU, EVIVA15P-EU atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: www.electrovoice.com
LV	Ar šo Bosch Security Systems, LLC deklarē, ka radioiekārta EVIVA12P-EU, EVIVA15P-EU atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: www.electrovoice.com
MT	B'dan, Bosch Security Systems, LLC , niddikjara li dan it-tip ta' tagħmir tar-radju EVIVA12P-EU, EVIVA15P-EU huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: www.electrovoice.com
NL	Hierbij verklaar ik, Bosch Security Systems, LLC , dat het type radioapparatuur EVIVA12P-EU, EVIVA15P-EU conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: www.electrovoice.com
PL	Bosch Security Systems, LLC niniejszym oświadcza, że typ urządzenia radiowego EVIVA12P-EU, EVIVA15P-EU jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: www.electrovoice.com
PT	O(a) abaixo assinado(a) Bosch Security Systems, LLC declara que o presente tipo de equipamento de rádio EVIVA12P-EU, EVIVA15P-EU está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: www.electrovoice.com
RO	Prin prezenta, Bosch Security Systems, LLC declară că tipul de echipamente radio EVIVA12P-EU, EVIVA15P-EU este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: www.electrovoice.com
SK	Bosch Security Systems, LLC týmto vyhlasuje, že rádiové zariadenie typu EVIVA12P-EU, EVIVA15P-EU je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: www.electrovoice.com
SL	Bosch Security Systems, LLC potrjuje, da je tip radijske opreme EVIVA12P-EU, EVIVA15P-EU skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: www.electrovoice.com
SV	Härmed försäkrar Bosch Security Systems, LLC att denna typ av radioutrustning EVIVA12P-EU, EVIVA15P-EU överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: www.electrovoice.com

12.2.3

Regulatory notice for CE - Information concerning the use of apparatus

This equipment has been tested and found to be compliant with class B emission limits. The electromagnetic disturbance generated does not exceed the level above which radio and telecommunications equipment or other equipment cannot operate as intended. This means that there are no restrictions for usage in residential and commercial environments.

12.2.4

Certifications

Brazil:

Após uma perturbação da rede elétrica, o EVIVA pode entrar em estado de segurança. Neste caso, você deve desligar e ligar o dispositivo novamente.

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.

Este equipamento deve ser conectado obrigatoriamente em tomada de rede de energia elétrica que possua aterramento (três pinos), conforme a Norma de instalações elétricas ABNT NBR 5410, visando a segurança dos usuários contra choques elétricos.

Incorpora produto homologado pela ANATEL sob número 01561-25-02045.

Para mais informações, consulte o site da ANATEL: www.anatel.gov.br.

Cambodia:

EVIVA 12P TRC identifier: RC-TA-2025-0235

EVIVA 15P TRC identifier: RC-TA-2025-0236

Mexico:

“La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada”



IFETEL ID: ROELEV25-04713

Republic of Korea:



R-R-B6S-EVIVATOP



R-R-B6S-EVIVA18SP

기자재명칭: Powered loudspeaker, powered subwoofer

모델명: EVIVA 12P, EVIVA 15P, EVIVA 18SP

정격: AC 100-240V ~, 50 - 60Hz, 1.0 - 0.5 A (tops), 0.6 - 0.4 A (sub)

수입업체(상호)명: 로버트보쉬코리아(유)

제조사: Bosch Security Systems, LLC.

제조연월: 별도표기

제조국: 중국

A/S: 02-702-2846

해당 무선설비는 운용 중 전파혼신 가능성이 있음

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12.2.5 Open Source Software licenses

12.2.5.1 Components overview

Component	Copyright	License
BP1548C2	Real Time Engineers Ltd.	FreeRTOS V8.0.0

12.2.5.2 The Licenses

FreeRTOS V8.0.0 - Copyright © 2014 Real Time Engineers Ltd.

Access to the source code of FreeRTOS is located here: <https://www.boschsecurity.com/xc/en/oss/>

12.2.6 Notices

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Radio information

This loudspeaker contains intentionally emitting radio waves in the 2.4Ghz frequency band (2,400 MHz to 2483.5 MHz) with a transmit power of 7.34 dBm +/- 1 dB EIRP. The system uses one antenna with a gain of 2.43dBi.

本表系根据SJ/T 11364-2024的规定编制而成 针对在中国境内使用：China RoHS 信息表 扬声器										
产品中有害物质的名称及含有信息表										
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	Pb 铅	Hg 汞	Cd 镉	Cr(VI) 六价铬	PBB 多溴联苯	PBDE 多溴二苯 醚	DEHP 邻苯二甲 酸二(2-乙 基)己酯	BBP 邻苯二甲 酸丁基苯 酯	DBP 邻苯二甲 酸二正丁 酯	DIBP 邻苯二甲 酸二异丁 酯
金属部件	X	○	○	○	○	○	○	○	○	○
塑胶部件	○	○	○	○	○	○	○	○	○	○
外壳	○	○	○	○	○	○	○	○	○	○
电子元件-LED元件	X	○	○	○	○	○	○	○	○	○
电子元件-印制电路 板	X	○	○	○	○	○	○	○	○	○
电缆和电缆配件	○	○	○	○	○	○	○	○	○	○
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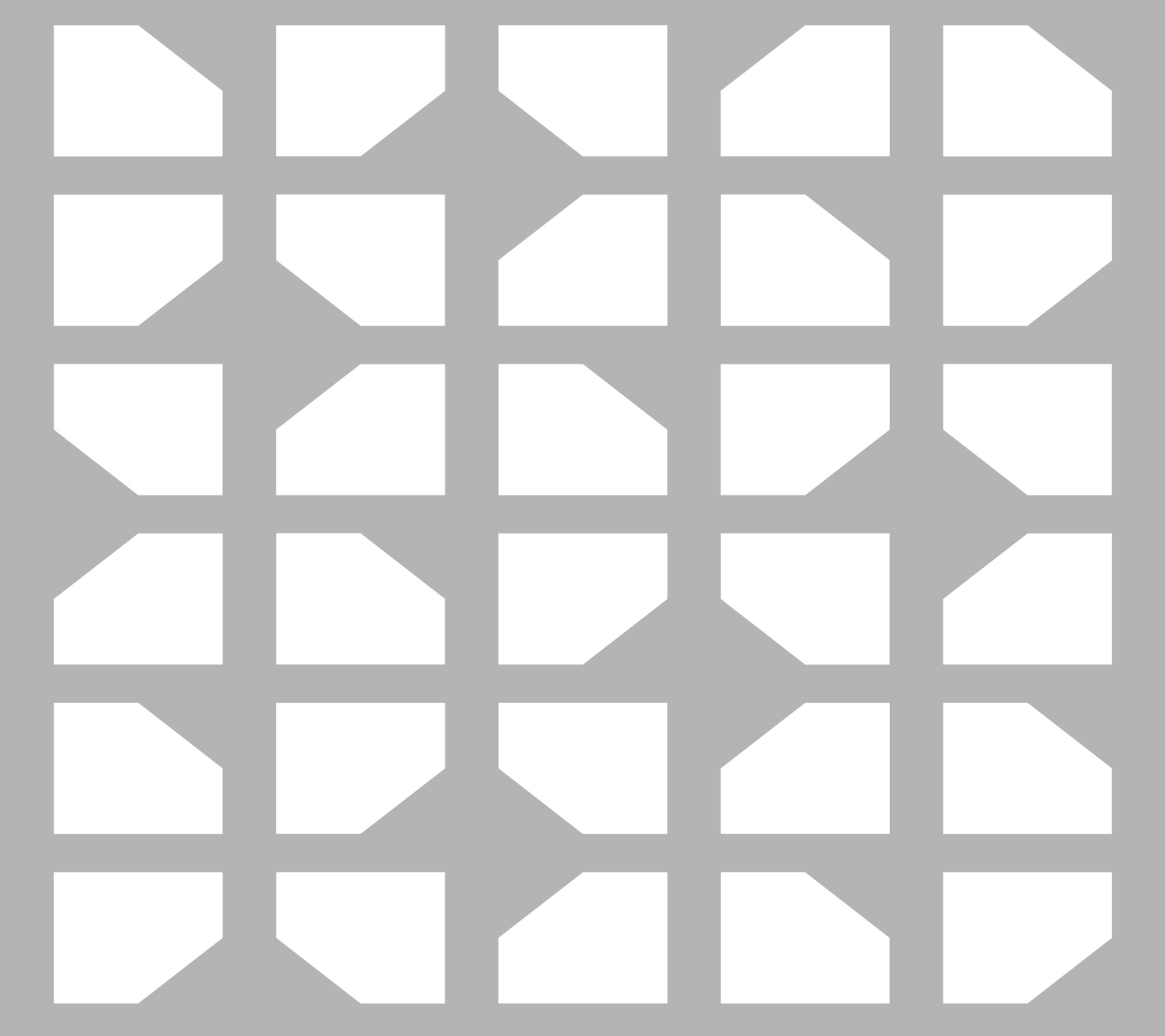
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202507041136