

EVOLVE Portable Column Loudspeaker

EVOLVE30M-US | EVOLVE30M-EU | EVOLVE30M-W

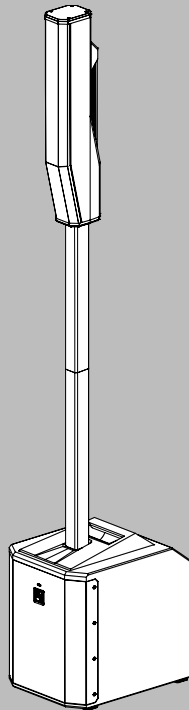


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1

Safety

1.1

Important safety instructions

 <p>WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT OVEREXPOSE 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 these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. No naked flame sources, such as lighted candles, should be placed on the apparatus.
16. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus should not be exposed to dripping or splashing. Objects filled with liquids, such as vases should not be placed on apparatus.
17. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
18. Minimum 60 cm (2 ft) distances around the apparatus for sufficient ventilation.
19. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
20. To completely disconnect AC power from this apparatus, the power supply cord must be unplugged.

**Warning!**

Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord.

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan

Apparatet må tilkoples jordet stikkontakt

Apparaten skall anslutas till jordat uttag

**Warning!**

This product is not designed to be suspended. Do NOT use handles or any other method 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.

**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.

**Caution!**

Do not attempt to move this loudspeaker system when it is fully assembled.

You may damage the system or cause personal injury.

**Caution!**

To maintain tip-over stability, do not use EVOLVE 30M 2-piece sub-pole with EVOLVE 50 column speaker array or subwoofer.

Doing so may result in damage, and/or personal injury

**Caution!**

For optimal acoustics and performance, ONLY use EVOLVE 30M column speaker array with the EVOLVE 30M subwoofer. Do not use EVOLVE 30M column speaker array or subwoofer with EVOLVE 50 column speaker array or subwoofer.

Doing so may result in poor acoustic performance, permanent damage, and void of warranty.

1.2**FCC information**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Notice!

This product 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 product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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



The device has been granted by FCC and IC, the FCC ID:ESVEVOLVE and IC:1249A - EVOLVE30M.

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 20cm between the radiator and your body.

This device complies with 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.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

1.3

Precautions

	<p>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.</p>
	<p>Do not use Electro-Voice loudspeakers in an environment where temperatures are below 0°C (32°F) or exceed +35°C (95°F).</p>
	<p>Never expose an Electro-Voice loudspeaker to rain, water, or high moisture.</p>
	<p>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.</p>

1.4

Certifications

United Arab Emirates:

TRA Registered no.: ER77128/19

Dealer no.: DA45733/15

1.5



Notices

Old electrical and electronic appliances

Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally compatible recycling (in accordance with the European Waste Electrical and Electronic Equipment Directive).

To dispose of old electrical or electronic devices, you should use the return and collection systems put in place in the country concerned.

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Notice!

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For use in China: CHINA ROHS DISCLOSURE TABLE

针对在中国境内的使用：CHINA ROHS披露表

扬声器

根据SJ/T 11364-2014编制的有害物质表						
	Pb (Pb)	Hg (Hg)	Cd (Cd)	Cr 6+ (Cr 6+)	PBB (PBB)	PBDE (PBDE)
电路板	○	○	○	○	○	○
电子组件	x	○	○	○	○	○
换能器	x	○	○	○	○	○
显示屏	x	○	○	○	○	○
电缆和导线	○	○	○	○	○	○
塑料材料	○	○	○	○	○	○
金属材料	x	○	○	○	○	○
木质和纸质材料	○	○	○	○	○	○
涂料与涂层	○	○	○	○	○	○
本表系根据SJ/T 11364的规定编制而成						
○：上述有害物质在所有包含该物质的均质材料中的含量均低于GB/T 26572规定的限值						
x：上述有害物质在特定均质材料中的含量均高于GB/T 26572规定的限值						

关于该类产品生产日期代码的详细说明，请见：

<http://www.boschsecurity.com/datecodes/>

2 Short information

The following table lists products in a family, with CTN (Commercial Type Number) and identifying product name DESCRIPTION.

CTN	Description
EVOLVE30M-US	Portable column system, US, black
EVOLVE30M-EU	Portable column system, EU AP, black
EVOLVE30M-W	Portable column system, global, white
EVOLVE30M-SUBCVR	Soft cover for EVOLVE 30M sub
EVOLVE-CASE	Carrying case for EVOLVE 30M & 50
EVOLVE30M-PL-B	Replacement pole for EVOLVE 30M, black
EVOLVE30M-PL-W	Replacement pole for EVOLVE 30M, white

2.1 Shipping contents

Quantity	Component
1	Column speaker array
1	Subwoofer
1	Sub pole (2 sections)
1	Power cord
1	Carrying bag
1	Installation manual
1	Safety manual

Tab. 2.1: EVOLVE30M-US, EVOLVE30M-EU models

Quantity	Component
1	Column speaker array
1	Subwoofer
1	Sub pole (2 sections)
2	Power cords
1	Carrying bag
1	Installation manual
1	Safety manual

Tab. 2.2: EVOLVE30M-W model

3 Description

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

Designed to deliver a step up in sound quality and set a new performance standard for compact column speaker systems - EVOLVE 30M is perfect for solo musicians, small groups, mobile entertainers and smaller venues that need an easy-to-use, highly portable and lightweight system with extraordinary coverage and output for its size. EVOLVE 30M comes ready to go with speaker array, symmetrical aluminum pole connectors with internal wire assembly and magnetically assisted latching, subwoofer, and included pole/array carry case - all designed to pack up compactly, set up and tear down quickly, look great on stage, and withstand real-world wear and tear.

Professional-grade EV-engineered components and build quality - The full-range column array and its six 2.8" neodymium drivers provide room-filling ultra-wide 120° coverage via custom-designed waveguides; array-formed 40° asymmetrical vertical coverage ensures acoustic output is directed towards both sitting and standing audience members. The array enclosure is constructed from a durable composite material and incorporates an ergonomic aluminum handle. Four tuning ports are located on the rear of the enclosure for acoustic optimization. A 10" subwoofer is housed in a 15 mm wood enclosure with a high-efficiency laminar-flow vent design, for enhanced rigidity and acoustical performance. The Class-D amplifier provides up to 1000 W of output power: 500 W to the subwoofer and 500 W to the column array. The speakers are protected by a black powder-coated 18 ga. steel grille. Combined, these components generate a genuinely stunning performance to size ratio - an elegant form factor that looks as good as it sounds.

The most extensive feature set in its class - The EVOLVE 30M has an integrated full-function and fully programmable eight-channel digital mixer with multiple inputs (4x XLR/TRS combo line/mic inputs, 1x XLR/TRS stereo line input, 1x RCA, 1x 3.5 mm stereo, 1x Hi-Z instrument input, wireless Bluetooth® Audio Input), and professional-grade preamps and mixer functions - all designed in collaboration with the world-class mixer engineering team at EV's sibling brand Dynacord. For the performing musician, Hi-Z and foot switch inputs are included for flexible system configuration, and a range of onboard studio-quality effects (30 presets, including chorus, delay, flange and reverb, via two FX channels) add myriad options for finessing your sound. This reduces set-up time - and on-stage clutter - by minimizing the need for external equipment such as a mixer and effects pedals, which also makes loading in and out of the venue quicker. High-resolution, low-latency Bluetooth®* streaming ensures exceptional results for music playback or accompaniment.

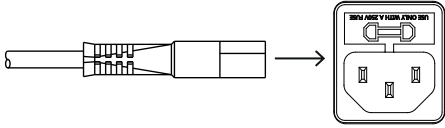
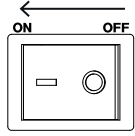

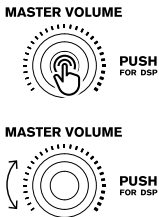

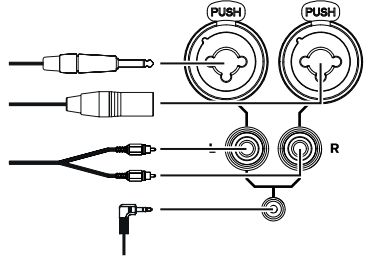


The next-generation Electro-Voice Quick**Smart** Mobile application utilizes Bluetooth® Low Energy (BTLE) technology for the wireless configuration, control, mixing and monitoring of all parameters of up to six EVOLVE 30M systems simultaneously, and is fully programmable. The full-function GUI allows intuitive control of all system functions from your mobile device. EVOLVE 30M offers simple or sophisticated operation according to your application, making great sound easy for users of all levels.

EV's industry-leading Quick**Smart** DSP interface - Allowing intuitive navigation of system parameters via an LCD with single-knob control - as well as multiple options for signal routing and inputs. Setup is simple via four presets (Music, Live, Speech, Club), three-band system EQ (low, mid, high), seven-band graphic EQ (in Mixer mode), five user-programmable presets (Store and Recall settings), phantom power, visual monitoring of limiter status, input level control and meters, and master volume control to optimize gain structure.

3.1 Quick setup

Subwoofer

To play a signal from a stereo source:

Step	Illustration
1. Connect the AC power cord from a ground receptacle to the MAINS IN.	
2. Switch POWER to ON.	
3. Adjust the MASTER VOL knob to -80 dB.	
4. Push the MASTER VOL knob to enter the DSP menu. Using the MASTER VOL knob scroll through the menu items to FUNCTION . Press MASTER VOL knob to access parameters. Using the MASTER VOL knob scroll through parameters and select BASIC . Press MASTER VOL knob to confirm the parameter. Use MASTER VOL to exit menu.	
5. Push the input selection soft key for INPUT 5/6 to adjust gain to -80 dB using the MASTER VOL knob.	
6. Connect an audio source using an XLR, TRS or RCA cable, or a 3.5mm mini jack to INPUT 5/6. For mono signals use INPUT 5.	
7. Push the input selection soft key for INPUT 5/6 to adjust gain to 0 dB using MASTER VOL knob.	
8. Adjust the MASTER VOL knob to the desired volume.	

4 Installation



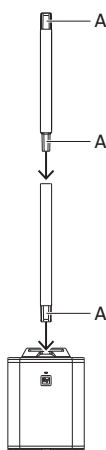
Caution!

Do not attempt to move this loudspeaker system when it is fully assembled. You may damage the system or cause personal injury.

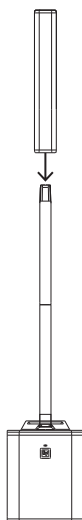
Assembling the loudspeaker system

To **assemble the loudspeaker system**, do the following:

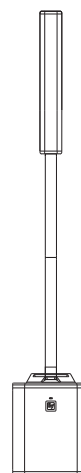
1. Place the **subwoofer** on a level and stable surface.
2. Assemble the **pole** by connecting the two sections together and inserting them into the subwoofer base.
The pole has magnets (A) at each end.
3. Place the **column array loudspeaker system** on top of the subwoofer pole.
4. The **column array loudspeaker system** set up is complete.



2.



3.



4.

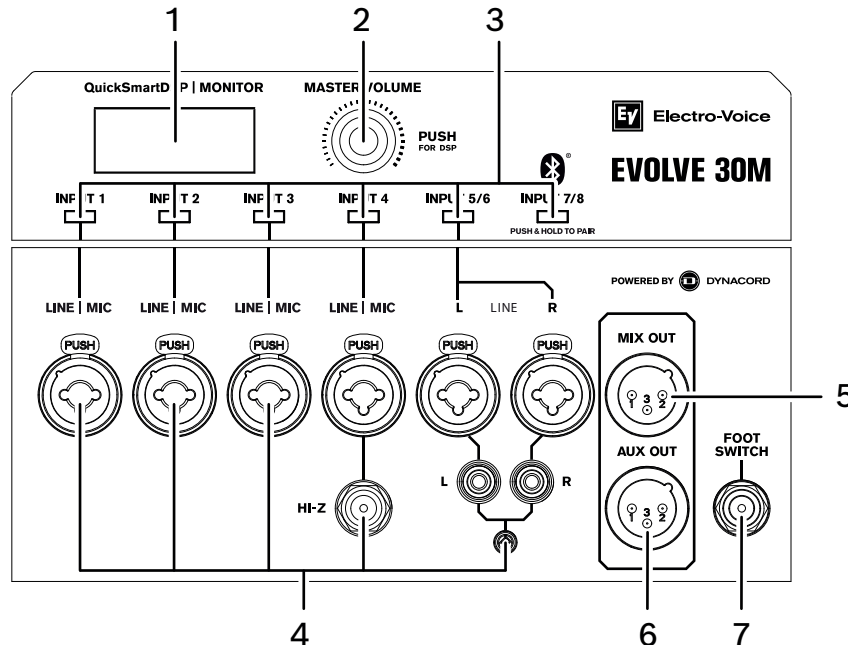
5 Amplifier DSP

5.1 Amplifier DSP controls

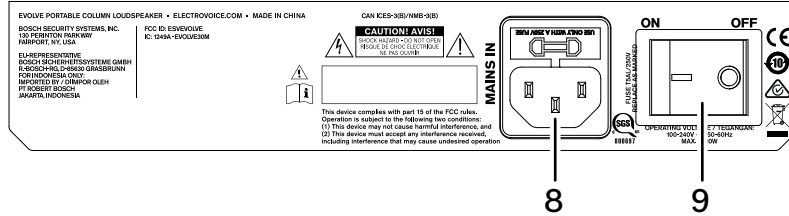
The amplifier has a combination of controls and connectors to ensure the most versatile loudspeaker system.

Portable column system control and monitoring interface

The portable column system DSP control menu selections are available for the EVOLVE.



1. **LCD** – DSP control and monitoring interface.
2. **MASTER VOL** – Adjusts the sound level.
DSP – Scroll through the menu and select the available choices. Push the MASTER VOL knob to enter the DSP menu.
3. **INPUT Selection Soft Keys** - Selects channels INPUT 1 through INPUT 7/8 for channel DSP settings and individual level settings.
4. **INPUT 1-4, 5/6 & 7/8** - Electronically balanced INPUT 1 thru INPUT 4 for the connection of a microphone or line level signal source. Establishing a connection is possible via TRS or XLR-type plugs. INPUT 4 includes a HI-Z input below the TRS/XLR combo plug for connection to a high impedance instrument output via a TS plug. Stereo INPUT 5/6 for connection of stereo line level signals. Connection is made using either two XLR-type, TRS, RCA, or a single 1/8th inch stereo connector. Input 7/8 is reserved for stereo Bluetooth audio connection.
5. **MIX OUT** - The post-fader audio signals of INPUT 1 through INPUT 7/8 are mixed and passed to MIX OUT. The ratio of the input signals changes when the level controls INPUT 1 - 7/8 are adjusted. This feature allows the loudspeaker to act as a basic eight-channel mixer that can send the mix to another loudspeaker via the MIX OUT socket.
6. **AUX OUT** - The AUX OUT is configurable to provide either a separate audio mix of INPUT 1 - 7/8 (controlled by individual channel AUX levels adjustable in DSP) or the main mix output signal.
7. **FOOT SWITCH** - ON/OFF control of DSP user selectable audio FX.



8. **MAINS IN** – The device receives its power supply via the MAINS IN socket. Only the provided power cord may be used. Connect the device only to a mains network, which corresponds to the requirements indicated on the type plate.
9. **POWER** – AC switch for switching the power ON or OFF. The LCD screen lights up when the power is turned ON, after approximately 3 seconds.



Notice!

Markings and statements on amplifier panel may vary.

5.2 System status

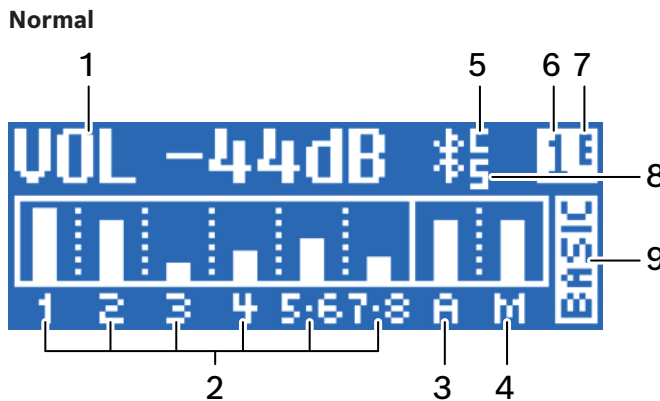


Figure 5.1: Normal system status home screen with Bluetooth® status

1. **VOLUME (VOL)** - Indicates the master gain of the system in dB. The range is from mute to +10 dB, in 1 dB increments.
2. **1, 2, 3, 4, 5-6, 7-8** - VU meter displays the signal level of INPUT1 through 7/8 into the amplifier. Input levels are independent of each other.
3. **AUX** - VU meter displays the signal level of the AUX output. AUX level is independent of INPUT and MAIN levels.
4. **MAIN** - VU meter displays the signal level of the MAIN output. MAIN level is independent of INPUT and AUX levels.
5. **C** - Control app; the available options are:
 OFF - DISABLED
 FLASHING - PAIRING MODE
 SOLID - CONNECTED
6. **1** - Indicates the selected store function number. There are five user defined store function numbers available.
7. **E** - Indicates the preset is not saved. When the preset is saved the E is not displayed.
8. **S** - Audio streaming; the available options are:
 OFF - DISABLED
 FLASHING - PAIRING MODE (120s)

SOLID - CONNECTED

9. **FUNCTION indicator** - Indicates whether the system is in MIXER or BASIC mode.



Notice!

Bluetooth® is available in select countries.

Contact your nearest Electro-Voice dealer or Electro-Voice distributor for more information.

System protection

System protection limiters indicate when a system is exceeding recommended usage by indicating CLIP or LIMIT on the LCD display.

CLIP

CLIP indicates the signal to the loudspeaker is too high, resulting in a clipped signal into the loudspeaker. If CLIP is shown, reduce the input gain and/or the signal on the mixer or source equipment.

LIMIT

LIMIT protects the loudspeaker from short-term peaks which can cause distortion. When LIMIT is shown small on the screen, the limiter is active but keeps distortion under control. The large LIMIT indicates the sound is negatively affected. Reducing the output volume (MASTER VOL) is strongly recommended when the large limit indication is shown.

5.3

DSP control menu

DSP control menu for Basic mode

VOLUME		0 dB (Default) Mute, -80 dB +10 dB (1 dB)
	EXIT	
	FUNCTION	Basic Mixer
	MODE	MUSIC LIVE SPEECH CLUB
	DELAY	0 m to 100 m (.1 m) (0 ft to 328.1ft)
	SUB LEVEL	0 dB (Default) Mute, -80 dB to +10 dB (1 dB)
	TREBLE	0 dB (Default) -12 dB to +6 dB (1 dB)
	MID	0 dB (Default) -12 dB to +6 dB (1 dB)
	BASS	0 dB (Default) -12 dB to +6 dB (1 dB)
	BLUETOOTH	BLUETOOTH ON OFF (Default)

		CONTROL PAIR	CONTROL PAIRING
		AUDIO PAIR	AUDIO PAIRING
	LED		OFF ON (Default) LIMIT
	DISPLAY	LCD DIM	ON OFF
		BRIGHT	5 (Default) 1 to 10
		CONTRAST	5 (Default) 1 to 10
	STORE		EXIT, 1, 2, 3, 4, 5, EXIT
	RECALL		EXIT, 1, 2, 3, 4, 5, EXIT
	RESET		RESET ARE YOU SURE?
			NO (Default)
			YES
	INFO		PRODUCT NAME
			FIRMWARE VERSION
			© 2019 Electro-Voice
	EXIT		

DSP control menu for Mixer mode

VOLUME		0 dB (Default) Mute, -80 dB:1 dB:+10 dB
	EXIT	
	FUNCTION	Basic Mixer
	MODE	MUSIC LIVE SPEECH CLUB
	MAIN LEVEL	0 dB (Default) Mute, -80 dB to +10 dB (1 dB)
	AUX LEVEL	0 dB (Default) Mute, -80 dB to +10 dB (1 dB)
	SUB LEVEL	0 dB (Default) Mute, -80 dB to +10 dB (1 dB)
	TREBLE	0 dB (Default) -12 dB to +6 dB (1 dB)
	MID	0 dB (Default) -12 dB to +6 dB (1 dB)
	BASS	0 dB (Default) -12 dB to +6 dB (1 dB)
	MAIN GEQ	63Hz 0 dB (Default) -12 dB to +12 dB (1 dB)
		160Hz 0 dB (Default) -12 dB to +12 dB (1 dB)
		400Hz 0 dB (Default) -12 dB to +12 dB (1 dB)
		1KHz 0 dB (Default) -12 dB to +12 dB (1 dB)
		2.5KHz 0 dB (Default) -12 dB to +12 dB (1 dB)
		6KHz 0 dB (Default) -12 dB to +12 dB (1 dB)
		12KHz 0 dB (Default) -12 dB to +12 dB (1 dB)
	AUX GEQ	63Hz 0 dB (Default) -12 dB to +12 dB (1 dB)
		160Hz 0 dB (Default) -12 dB to +12 dB (1 dB)

	400Hz	0 dB (Default) -12 dB to +12 dB (1 dB)
	1KHz	0 dB (Default) -12 dB to +12 dB (1 dB)
	2.5KHz	0 dB (Default) -12 dB to +12 dB (1 dB)
	6KHz	0 dB (Default) -12 dB to +12 dB (1 dB)
	12KHz	0 dB (Default) -12 dB to +12 dB (1 dB)
FX1	PRESET	00 (Default) 00 to 22
FX2	PRESET	00 (Default) 00 to 08
FX ENABLE		OFF (Default) ON
AUX OUT		AUX MIX (Default) MAIN MIX
MIX OUT		L + R (Default) L, R
BLUETOOTH	BLUETOOTH	ON OFF (Default)
	CONTROL PAIR	CONTROL PAIRING
	AUDIO PAIR	AUDIO PAIRING
LED		OFF ON (Default) LIMIT
DISPLAY	LCD DIM	ON OFF
	BRIGHT	5 (Default) 1 to 10
	CONTRAST	5 (Default) 1 to 10
STORE		EXIT, 1, 2, 3, 4, 5, EXIT
RECALL		EXIT, 1, 2, 3, 4, 5, EXIT
RESET		RESET ARE YOU SURE? NO (Default) YES
INFO		PRODUCT NAME

	FIRMWARE VERSION
	© 2019 Electro-Voice
EXIT	

DSP control menu for Input 1-4

LEVEL		0 dB (Default) Mute, -80 to +10 dB (1 dB)
	EXIT	
	INPUT PRESET	Flat (default) Low Cut 80 Hz Low Cut 120 Hz Vocal Mic Acoustic Guitar Electric Guitar More input presets available with firmware updates.
	COMP	0, 0 to 100
	TREBLE	0 dB (Default) -12 dB to +12 dB (1 dB)
	MID	0 dB (Default) -12 dB to +12 dB (1 dB)
	BASS	0 dB (Default) -12 dB to +12 dB (1 dB)
	FX1	OFF (Default) -80dB TO +10dB (1dB)
	FX2	OFF (Default) -80dB TO +10dB (1dB)
	AUX	OFF (Default) -80dB TO +10dB (1dB)
	PAN	C (Default) 10L to 10R
	EXIT	

DSP control menu for Input 5/6

LEVEL		0 dB (Default) -80 dB to +10 dB (1 dB)
	EXIT	
	MONO	OFF/ON
	TREBLE	0 dB (Default) -12 dB to +12 dB (1 dB)
	MID	0 dB (Default) -12 dB to +12 dB (1 dB)
	BASS	0 dB (Default) -12 dB to +12 dB (1 dB)
	FX1	OFF (Default) -80dB TO +10dB (1dB)
	FX2	OFF (Default) -80dB TO +10dB (1dB)
	AUX	OFF (Default) -80dB TO +10dB (1dB)
	BAL	C (Default) 10L to 10R
	EXIT	

DSP control menu for Input 7/8

LEVEL		0 dB (Default) -80 dB to +10 dB (1 dB)
	EXIT	
	TREBLE	0 dB (Default) -12 dB to +12 dB (1 dB)
	MID	0 dB (Default) -12 dB to +12 dB (1 dB)
	BASS	0 dB (Default) -12 dB to +12 dB (1 dB)
	AUX	OFF (Default) -80dB TO +10dB (1dB)
	BAL	C (Default) 10L to 10R
	BLUETOOTH	BLUETOOTH ON OFF (Default)
		CONTROL PAIR CONTROL PAIRING
		AUDIO PAIR AUDIO PAIRING

EXIT

EXIT Menu

The **Exit menu** is used to return to the home screen.

FUNCTION Menu

The **FUNCTION menu** is used to configure between Basic and Mixer functions.

- **BASIC** - provides input and output gain controls, 3-band EQ, and system delay for simplified audio setups or used as satellite or R-channel stereo setup.
- **MIXER** - provides full access and control of 8-channel digital mixer with AUX outs, FX, and 7-band GEQ.

MODE Menu

The **Mode menu** is used to configure the type of sound the EVOLVE column speaker system delivers.

- **MUSIC** – is used for recorded music playback and electronic dance music applications. (Default)
- **LIVE** – is used for live sound applications.
- **SPEECH** – is used for spoken word applications.
- **CLUB** – is used for recorded electronic music playback.

MAIN LEVEL Menu (Mixer mode)

The **MAIN LEVEL menu** is used to control the overall mixer output level that is fed to the EVOLVE column speaker system and the MIX OUT connector.

AUX LEVEL Menu (Mixer mode)

The **AUX LEVEL menu** is used to control the overall level of the signal present at the AUX OUT connector.

DELAY Menu (Basic mode)

The **Delay menu** is used to delay the output signal, e.g. to compensate for differences in distance among individual loudspeakers. The delay can be set in meters or feet. Available options for this selection are OFF or a delay up to 100.0 m (328 ft). The delay can be changed in 0.1-meter increments or 0.1-foot increments.

The default is OFF.

SUB LEVEL Menu

The **Sub Level menu** allows independent gain control of the subwoofer output. Changes to this parameter effectively change the crossover of the EVOLVE system. The default setting of 0 dB is recommended for best audio performance.

The range is *MUTE, -80 dB to +10 dB*.

The default is *0 dB*.

TREBLE Menu

The **Treble menu** is used to adjust the high frequency performance of the loudspeaker for different applications or personal preference. The parameter controls a high shelving filter that is centered on 6 kHz.

The range is *-12 dB to +6 dB for Main system EQ. The range is -12 db to +12 db for INPUTS 1-7/8 in mixer mode.*

The default is 0 dB.

MID Menu

The **MID menu** is used to set the gain of the MID peak filter.

The range is *-12 dB to +6 dB for Main system EQ. The range is -12 dB to +12 dB for INPUTS 1-7/8 in mixer mode.*

The default is 0 dB.

BASS Menu

The **Bass menu** item is used to configure the low frequencies of sound.

The range is -12 dB to +6 dB for Main system EQ. The range is -12 dB to +12 dB for INPUTS 1-7/8 in mixer mode.

The default is 0 dB.

MAIN GEQ Menu (Mixer mode)

The **MAIN EQ menu** is used to adjust the frequency response of the loudspeaker for different applications or personal preference. There are 7 different EQ filters available centered at the following frequencies: 63, 160, 400, 1.0K, 2.5K, 6.0K & 12K Hz.

The range of each filter is -12 dB to +12 dB.

The default value for each filter is 0 dB.

AUX GEQ Menu (Mixer mode)

The **AUX GEQ menu** is used to adjust the frequency response of the AUX OUT for different applications or personal preference. There are 7 different EQ filters available centered at the following frequencies: 63, 160, 400, 1.0K, 2.5K, 6.0K & 12K Hz.

The range of each filter is -12 dB to +12 dB.

The default value for each filter is 0 dB.

FX1 & FX2 Menu (Mixer mode)

The **FX1 & FX2 menu** is used to select the reverb, delay, chorus, or flanger preset for each FX unit.

AUX OUT Menu (Mixer mode)

The **AUX OUT menu** is used to select the signal present at the AUX OUT connector:

- **AUX MIX** (default) - provides the signal mix controlled by the individual channel AUX sends
- **MAIN MIX** - provides the same signal that is present at the loudspeaker

MIX OUT Menu (Mixer mode)

The **MIX OUT menu** is used to select which signals should be output at MIX OUT and which signal should be delivered by the loudspeaker.

- L+R: INPUTS 1-4 and the left and right signals of INPUT 5/6 & 7/8 are summed. The sum is output at MIX OUT and is delivered by the loudspeaker. (Default)
- R: Only the right signal of INPUT 5/6 & 7/8 and the percentage of INPUTS 1-4 panned right is output at MIX OUT. The loudspeaker will deliver only the left signal.
- L: Only the left signal of INPUT 5/6 & 7/8 and the percentage of INPUTS 1-4 panned left is output at MIX OUT. The loudspeaker will deliver only the right signal.

BLUETOOTH Menu

Turning Bluetooth® ON or OFF

To **turn Bluetooth® ON or OFF**, do the following:

1. From the DSP menu, scroll to **BLUETOOTH Menu**.
2. Select **ON**.
OR
Select **OFF**.

The **Bluetooth menu** options are ON/OFF, CONTROL PAIR, and AUDIO PAIR.

CONTROL PAIR Menu

The **CONTROL PAIR menu** is used to enable the QuickSmart Mobile wireless control and monitoring application. Available options for this selection are: ON or OFF.

The default is OFF.

**Notice!**

Bluetooth® is available in select countries.

Contact your nearest Electro-Voice dealer or Electro-Voice distributor for more information.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Bosch Security Systems, Inc. is under license. Other trademarks and trade names are those of their respective owners.

AUDIO PAIR Menu

The **AUDIO PAIR menu** is used to stream audio from your Bluetooth® enabled device to the loudspeaker system. Available options for this selection are: PAIRING, ON or OFF.

The default is OFF.

Pairing the portable column system with your Bluetooth® enabled device

To **pair the portable column system with your Bluetooth® enabled device**, do the following:

1. From the DSP menu, scroll to **AUDIO PAIR**.
2. Select **AUDIO PAIR**.

AUDIO PAIR mode enables 120 seconds of visibility to Bluetooth® enabled devices.

3. On your mobile device, select **EV EVOLVE** to initiate the pairing process.

Once the device is paired, all device audio will be output through the EVOLVE system.

**Notice!**

If connected with a mobile device, notification alerts and ring tones will also be played through the system.

Disable these notifications or enable *Airplane mode* on your mobile device to prevent unwanted interruptions during audio playback.

LED Menu

The **LED menu** shows power on and indicates limit. Available options for this selection are: ON, OFF, or LIMIT.

- **ON** - turns the LED on when the power to the loudspeaker is ON. (Default)
- **OFF** - turns the LED off.
- **LIMIT** - turns the LED off under normal operation. The LED brief blinking indicates the limiter is activating. Short-term blinking is not critical because the integrated limiter keeps distortion under control. Constant lighting of the LED indicates the sound is negatively affected. If the LED is constantly lit, check the rear LCD for more information. Reducing the output volume is strongly recommended.

DISPLAY Menu

The **Display menu** options are BACK, LCD DIM, BRIGHT, and CONTRAST.

The default is *ON*.

LCD DIM Menu

The **LCD Dim menu** is used to dim the display when the display is idle for 30 seconds.

Available options for this selection are: ON or OFF.

The default is *ON*.

BRIGHT Menu

The **Bright menu** is used to determine the brightness of the LCD.

The range is 1 to 10.

The default is *five (5)*.

CONTRAST Menu

The **Contrast menu** is used to increase or decrease the visibility of the LCD screen.

The range is 1 to 10.

The default is five.

STORE Menu

The **Store menu** allows you create up to five customized user settings. Available options for this selection are: EXIT, 1, 2, 3, 4, and 5.



Notice!

The customized user setting name can contain a combination of alphanumeric characters including spaces. The alphanumeric character range is A to Z and 0-9.

The name field length is 12 characters.

Storing customized user settings

To store customized user settings, do the following:

1. From the DSP menu, scroll to **STORE**.
2. Push the **MASTER VOL** knob to select **STORE**.
The store screen appears.
3. Push the **MASTER VOL** knob to select 1.
The Enter name for 1 screen appears.
4. Use the **MASTER VOL** knob to scroll through the characters.
The characters appear.
5. Push the **MASTER VOL** knob to select the desired character.
6. Turn the **MASTER VOL** knob to move to the next character entry.
Continue selecting characters until the desired name is entered.
7. Use the **MASTER VOL** knob to scroll to **SAVE**.
8. Push the **MASTER VOL** knob to select **SAVE**.
9. Repeat **steps 3 through 8** to store additional customized user settings.
10. Select **EXIT** to return to the home screen.

RECALL Menu

The **Recall menu** allows you retrieve up to five customized user settings.

Available options for this selection are: **EXIT, 1, 2, 3, 4, and 5**.

Recalling customized user settings

To recall customized user settings, do the following:

1. From the DSP menu, scroll to **RECALL**.
2. Push the **MASTER VOL** knob to select **RECALL**.
The recall screen appears.
3. Push the **MASTER VOL** knob to select **1**.
The selected item is loaded.
4. Select **EXIT** to return to the home screen.

RESET Menu

The **Reset menu** is used to reset the loudspeaker to original factory settings.

Available options for this selection are: **NO** or **YES**.

The default is *NO*.

Resetting the system

To **reset the system to original factory settings**, do the following:

1. From the DSP menu, select **RESET**.
The "RESET ALL SETTINGS?" validation message appears.
2. Select **YES**.
The system is reset to the original factory settings.

**Notice!**

The reset menu item is used to revert the loudspeaker to the original factory default settings. All user settings will be deleted. The user customized settings in the STORE and RECALL menus return to <EMPTY>.

INFO Menu

The **Information menu** is used to display the product name and firmware version.

6 Mixer operation

6.1 Inputs 1-4, 5/6 & 7/8

INPUT LEVEL control

Control for adjusting a LINE/MIC or line input's sensitivity. These controls let you adjust the incoming signals to the mixer's internal operation level. The following gain setting instruction is to be used as a guide to help achieve a good signal input level:

Set the MASTER volume controls to -80 dB.

Set the INPUT LEVEL control to -80 dB.

Connect the sound source (microphone, instrument, etc.) to the desired LINE/MIC input.

Start the sound source at the highest volume level to be expected - respectively sing or speak as loudly as possible directly (close up) into the microphone.

While playing the sound source or singing into the microphone, adjust the input level using the INPUT GAIN control, so that during the loudest part, the CLIP does not show. Then increase the MASTER VOL until the desired output from the column is achieved. This is the basic channel setting.

If further adjustments to the channel's EQ setting are necessary, perform these steps again, as changes in the sound shaping section also have an influence on the channel's overall level.

TREBLE/MID/BASS controls

The input channel's EQ section allows for a broad difference in the shaping of the incoming audio signal within three frequency bands. Before you begin to alter the sound, all EQ controls should be set to 0. Try not to set the EQ controls to extreme positions. Usually, minor changes are sufficient to produce the best results in the overall sound. Use the natural reproduction as a starting point and rely on your musically trained ear. The moderate use of the MID control is the best remedy to avoid acoustical feedback. Try to avoid using this frequency range to an extreme level. Lowering the level in this band will provide you with higher output and help reduce feedback. Adjust the BASS control to add more "punch" to the sound of a kick drum or "body" to the vocals. Use the TREBLE control in the same way to provide cymbals and vocals with more treble for a more transparent sound.

FX1 & FX2 control

The **FX1 & FX2 control** is used to set the amount of effect you require on that channel. Using the FX controls lets you easily assign an effect for groups of musical instruments or vocals. To determine the desired level of the effect, start with the controls set at their minimum and individually increase the level gradually until the desired sound is achieved.

This switch turns the internal FX unit on or off. Please keep in mind that you can also use an external footswitch for turning the FX1 & FX2 on or off. If you want to use a footswitch, the EVOLVE 30M is preconfigured to control FX on/off with a footswitch, requiring no additional configuration.

AUX control

The **AUX control** is primarily meant for establishing an independent mix, e.g. for monitor or a second room/zone. The individual channel AUX controls will determine the amount of each channel's signal present at the AUX output.

COMP control

During operation, the input signal processing can be adjusted by using the **COMP control** to control the on board compressor. Compressors are available on INPUTS 1-4. Adjust the COMPRESSOR threshold and compression ration simultaneously using the COMP adjustment. As the **COMP control** is adjusted from 0 to 100, the gain below the threshold will increase from 0 to 10 dB and the compression ratio will increase from 1:1 to 1:8. The compressor will reduce the dynamic range of the audio signal proportional to the compressor setting. Once

the signal exceeds a certain threshold, the signal gets compressed, i.e. major input level changes result in minor output level changes. Narrowing the dynamic range often allows for easier recording or mixing the audio signal. It is recommended to start with low to moderate levels of compression (25-40) and increase slowly if necessary.

7 Pairing the QuickSmart Mobile application

The EV Quick**Smart** Mobile app is available for download for the *iOS* 10 and higher tablets and smart phones from the iTunes App Store or Android Marshmallow and higher tablets and smart phones from the Google Play Store.

**Notice!**

The EV Quick**Smart** Mobile app is designed to only find speakers from Electro-Voice with Bluetooth® enabled.

The EV Quick**Smart** Mobile app will not display other types of Bluetooth® devices, e.g. phones, laptops, tablets, or headsets.

**Notice!**


Bluetooth® is available in select countries.

Contact your nearest Electro-Voice dealer or Electro-Voice distributor for more information.

Prior to pairing the EV Quick**Smart** Mobile app with loudspeakers by Electro-Voice ensure Bluetooth® is enabled on the smart phone or tablet, and the loudspeaker.


First time pairing:

To pair the loudspeaker with the EV Quick**Smart** Mobile app, do the following:

1. Open the EV Quick**Smart** Mobile app. 
2. *Finding nearby speakers* is displayed on the screen
The EV Quick**Smart** Mobile app is looking for available Bluetooth® enabled Electro-Voice loudspeakers.
3. The available loudspeakers are displayed on the screen.
The app will display up to eight available loudspeakers.
4. Tap the loudspeaker you want to pair with the app.
The selected loudspeaker will have a red line under it acknowledging it is selected.
5. Repeat the previous step until all of the desired loudspeakers are selected.
6. Tap the red CONNECT button.
7. The app pairs with the desired loudspeaker.
The app can connect to up to six loudspeakers.

Subsequent pairing:

To pair the loudspeaker with the EV Quick**Smart** Mobile app, do the following:

1. Tap the EV Quick**Smart** Mobile app icon. 
2. *Finding nearby speakers* is displayed on the screen
The EV Quick**Smart** Mobile app is looking for available Bluetooth® enabled Electro-Voice loudspeakers.
3. The available loudspeakers are displayed on the screen.
The app will display up to eight available loudspeakers.
4. Tap the loudspeaker you want to pair with the app.
The selected loudspeaker will have a red line under it acknowledging it is selected.
5. Repeat the previous step until all of the desired loudspeakers are selected.
6. Tap the red CONNECT button.
7. The app pairs with the desired loudspeaker.
The app can connect to up to six loudspeakers.

8 Recommended configurations

8.1 Stereo pair of EVOLVE 30M systems

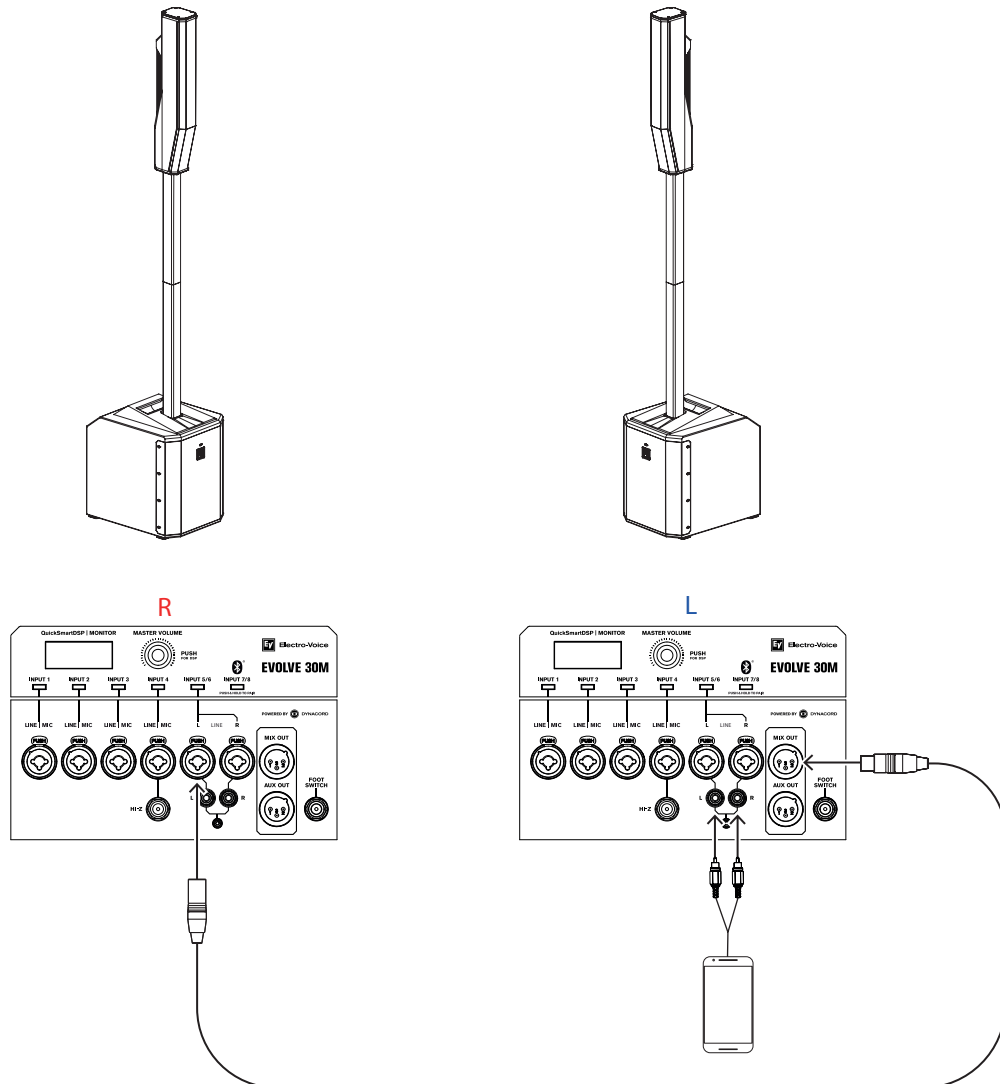


Figure 8.1: R = Right; L = Left



Notice!

The direction of the arrow indicates the signal path.

Mode:	Music
MASTER SPEAKER (L) MIX OUT:	R
SATELLITE SPEAKER (R):	INPUT 5 (MONO)

Tab. 8.3: DSP settings for the portable column system



Notice!

Stereo connection from device to the MASTER SPEAKER can be made with hard wires into the stereo INPUT 5/6 or via Bluetooth (R) into stereo Bluetooth (R) INPUT 7/8.

8.2 Solo musician performance

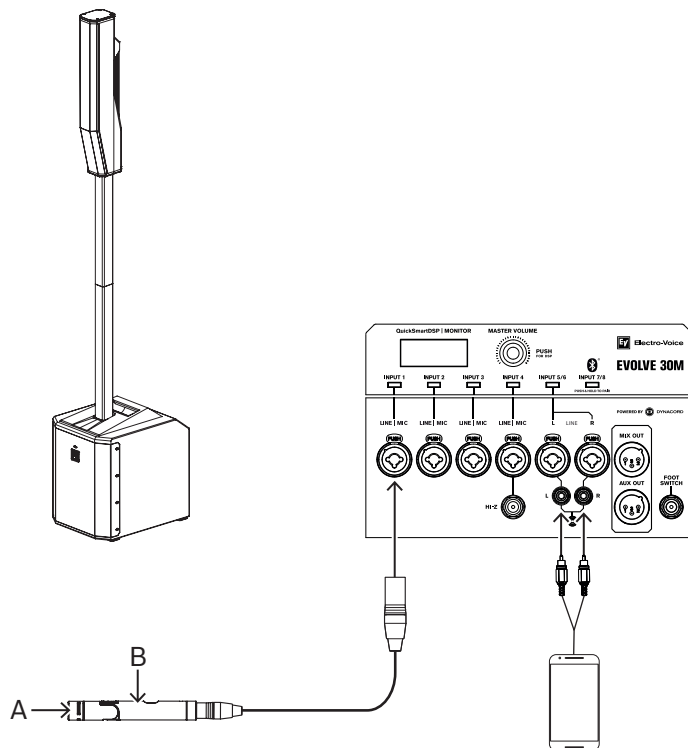


Figure 8.2: A = Guitar, conga drum, etc.; B = Microphone



Notice!

The direction of the arrow indicates the signal path.

Mode:	Live
--------------	------

Tab. 8.4: DSP settings for the portable column system

9 Troubleshooting

Problem	Possible cause	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, no channels are muted, etc. Correct/repair/replace as necessary. If there is still no sound, 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. Intermittent output such as crackling 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.
3. 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.
4. No sound produced with microphone connected to INPUTS 1-4	Microphone requires phantom power.	Ensure the microphone is connected to INPUTS 1-4. Phantom power is not available on INPUT 5/6.
	Input channel is muted or LEVEL is too low.	Select the channel and verify the channel is not muted. If it is not muted, slowly increase the channel LEVEL until sound is produced.
5. Sound is distorted front LED is OFF, LCD screen LIMIT is ON	Excessive input level	Reduce the input level or loudspeaker level to prevent limit.
	Incorrect gain structure or source input (mixing console/preamp) is overdriven	Verify level controls of the source are properly structured by using the VU meter indicator on the LCD screen. If the VU meter bar is solid or the system indicates CLIP or LIMIT, the input or source level is too high.

Problem	Possible cause	Action
6. Microphone produces acoustic feedback when input level is amplified	Incorrect gain structure	Reduce the microphone signal by reducing the INPUT level. Positioning the microphone close to the sound source increases gain before feedback.
	MODE is set to MUSIC	Change the MODE to LIVE or SPEECH.
	Microphone position is too close to the front of the loudspeaker	Whenever possible, setup the loudspeakers so the microphone is behind them. If using a separate loudspeaker in a monitor position, aim the loudspeaker to the back of the microphone.
7. QuickSmart Mobile app does not detect the loudspeaker	Enable Bluetooth®	Ensure Bluetooth® is enabled on the loudspeaker.

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

10 Technical data

Frequency response (-3 dB) ¹ :	51 Hz to 20 KHz
Frequency range (-10 dB) ¹ :	45 Hz to 20 KHz
Maximum SPL ² :	123 dB
Coverage (H x V):	120° x 40°
Amplifier rating:	1000 W
LF channel rating:	500 W
HF channel rating:	500 W
Crossover frequency:	200 Hz
Connectors:	4x XLR/TRS Combo Jack Line / Mic Input 1x 1/4" TRS HI-Z input 2x XLR/TRS Combo Jack for Stereo Line Input 1x Stereo RCA Input 1x 3.5 mm Stereo Input 1x Wireless Stereo Bluetooth® Audio Input 1x 1/4" Foot Switch Input 1x XLR MIX OUT Output 1x XLR AUX OUT Output
Enclosure:	Sub: 15 mm plywood Column: Composite Pole: Aluminum
Grille:	Steel with black or white powder coat
Color:	Black or white
Dimensions (HxWxD): mm (in)	Sub: 448 x 332 x 432 (17.6 x 13.1 x 17) Column: 620 x 95 x 157 (24.4 x 3.7 x 6.2) Pole (2 pcs): 600 x 48 x 55 (23.6 x 1.9 x 2.2)
Net weight:	Sub: 34.9 lb (15.8 kg) Column: 6.0 lb (2.7 kg) Pole (2 pcs): 3.1 lb (1.4 kg) Bag for column and pole: 1.9 (0.85 kg)
Shipping weight:	53.4 lb (24.2 kg)
Power consumption ³ :	100-240 V AC, 50-60 Hz, 1.5-0.6 A

¹Half-space measurement using live DSP preset.

²Maximum SPL is measured at 1 m using broadband pink noise at maximum output.

³Current rating is 1/8 power.

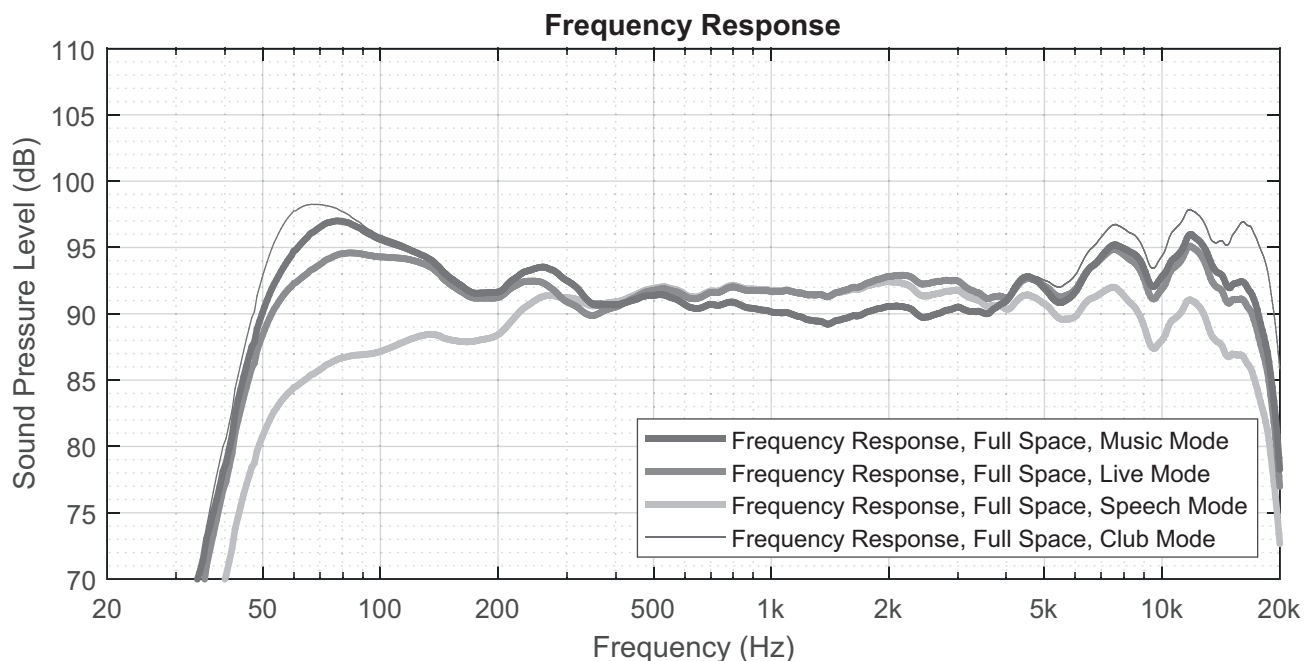


Figure 10.1: Frequency response EVOLVE 30M (Music Mode, Live Mode, Speech Mode, and Club Mode)

10.1 Dimensions

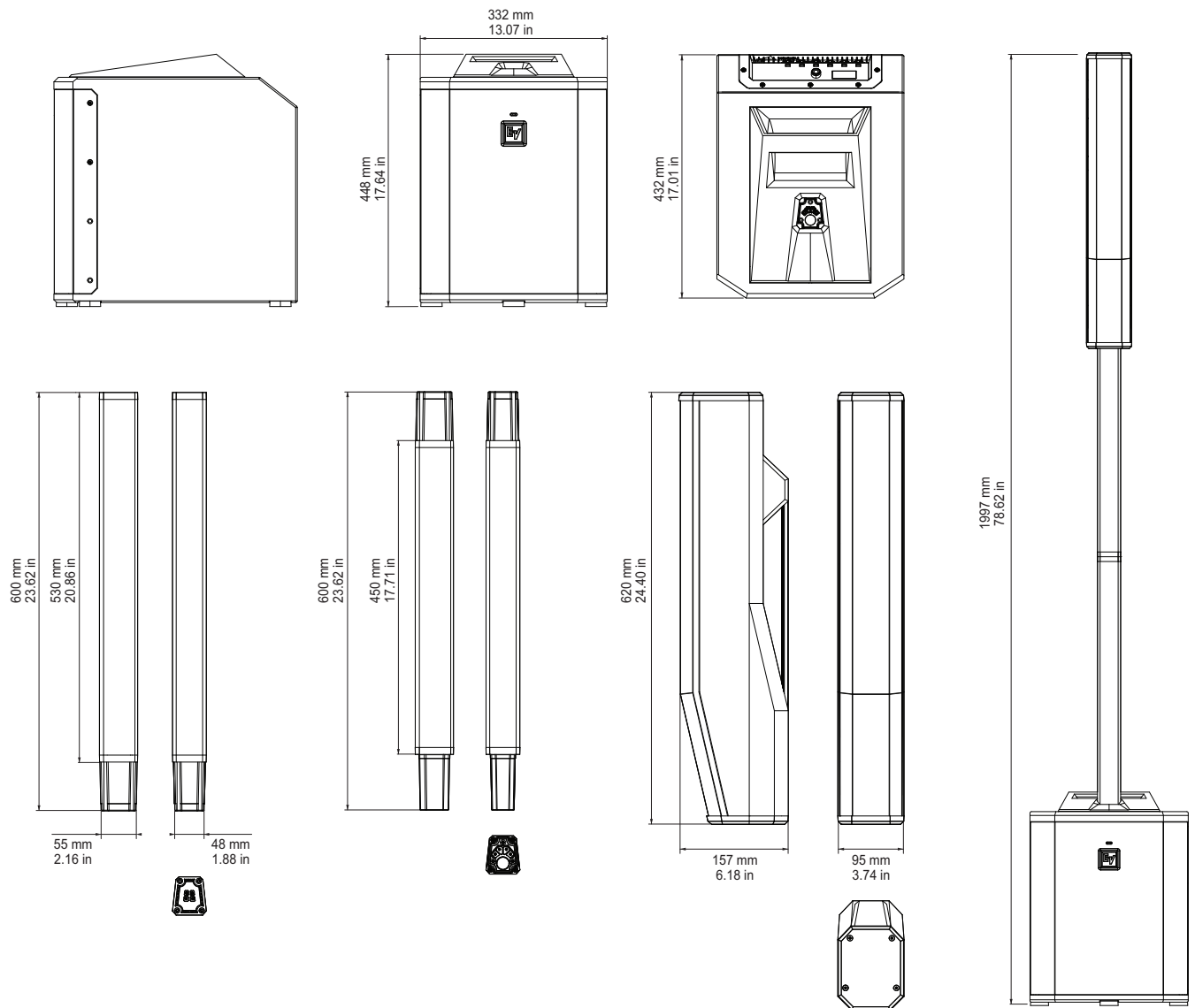


Figure 10.2: Dimensions EVOLVE 30M

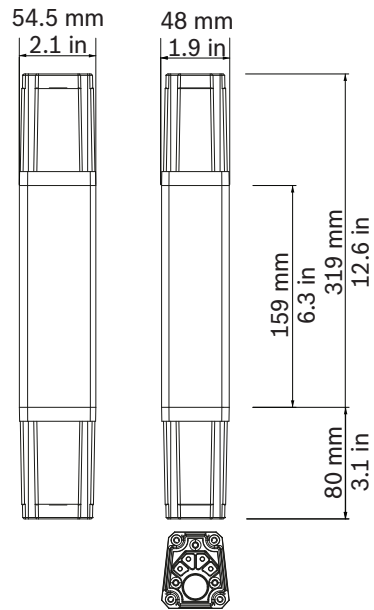
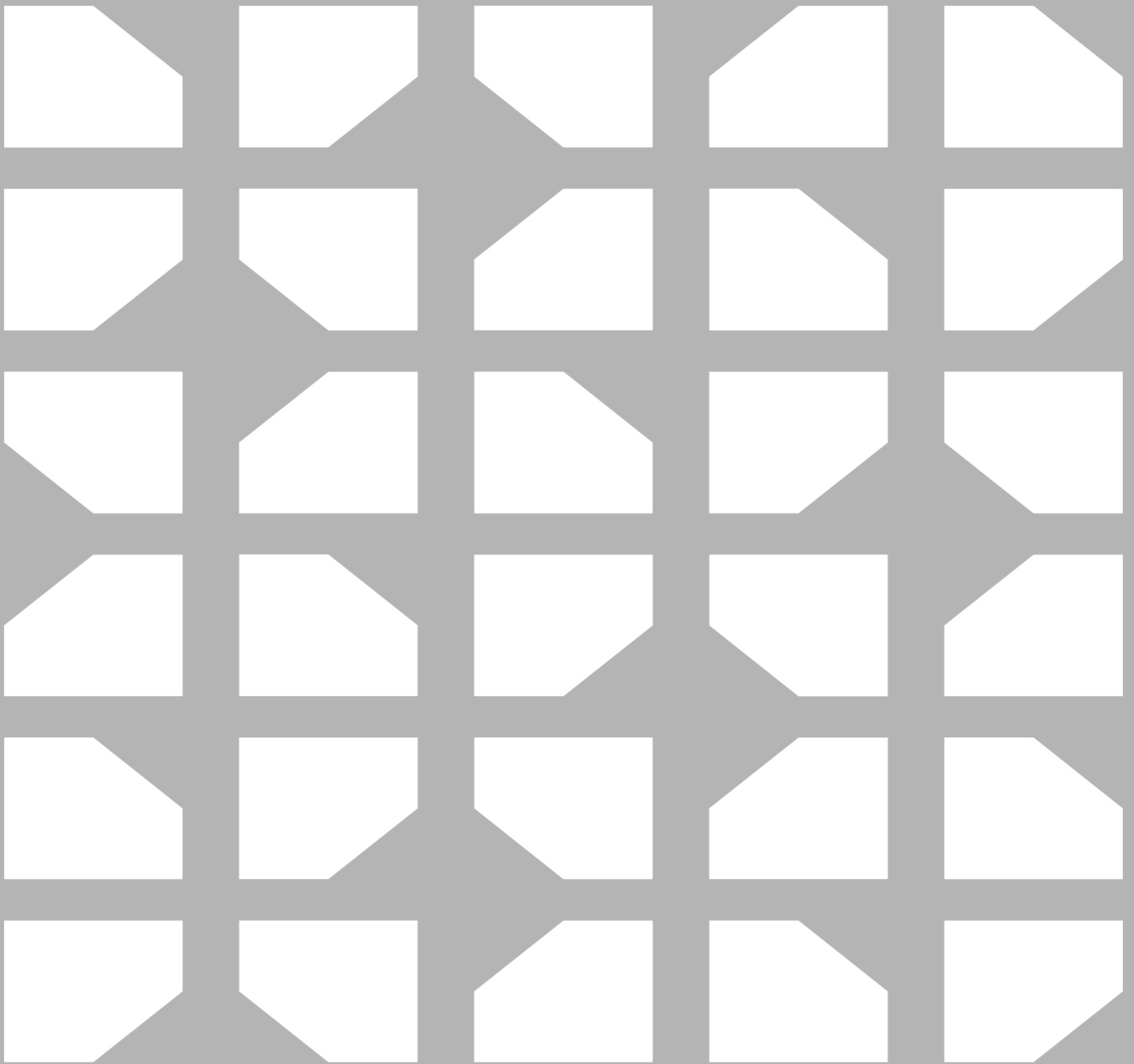


Figure 10.3: Dimensions EVOLVE short pole



Notice!

The EVOLVE short pole can be used with EVOLVE 50 and EVOLVE 30M.



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