

Electro-Voice EVOLVE 50 (Model F.01U.335.099)

Electro-Voice EVOLVE 50 Powered Column Speaker Array System User Manual

Model: EVOLVE 50 (F.01U.335.099)

1. PRODUCT OVERVIEW

The Electro-Voice EVOLVE 50 is a three-component portable column loudspeaker system designed for professional audio applications. It features a 1000 W Class-D amplifier and is driven by Electro-Voice's QuickSmartDSP for advanced sound processing and control. This system delivers powerful, clear audio suitable for various events and performances.

Key Features:

- **Powerful System:** 1000 W Class-D amplifier with QuickSmartDSP.
- **Wide Frequency Range:** 12-inch subwoofer provides functional frequency output down to 37 Hz.
- **Secure Assembly:** Bi-directional aluminum pole connects to the subwoofer via magnet, and the column array is gravity-held.
- **Bluetooth Connectivity:** QuickSmart Mobile application uses Bluetooth Low Energy (BTLE) for wireless configuration, control, and monitoring of up to six EVOLVE 50 systems.
- **High-Quality Bluetooth Audio:** Convenient streaming of background music or musical accompaniment from mobile devices.



Figure 1: Complete EVOLVE 50 System Assembly

This image displays the fully assembled Electro-Voice EVOLVE 50 system, showing the subwoofer base, the connecting pole, and the column array speaker on top.

2. SETUP INSTRUCTIONS

The EVOLVE 50 system is designed for quick and easy assembly. Follow these steps to set up your system:

1. **Unpack Components:** Carefully remove the subwoofer, bi-directional aluminum pole, and column array from their packaging. A carrying bag is included for the subpole and column array.
2. **Position Subwoofer:** Place the 15 mm wooden, ported, powered subwoofer enclosure on a stable, flat surface.
3. **Connect Pole:** Insert the bi-directional aluminum pole into the designated slot on top of the subwoofer. The connection is secured using a magnet.
4. **Attach Column Array:** Place the column array onto the top of the pole. The column array is gravity-held to the subpole, ensuring a secure fit. The signal is internally routed through the components.
5. **Power Connection:** Connect the power cable to the subwoofer's power input and then to a suitable electrical outlet.

6. **Input Connections:** Connect your audio sources (microphones, line-level devices, auxiliary inputs) to the appropriate input jacks on the subwoofer's control panel.



Figure 2: Subwoofer Control Panel (Top View)

This image shows the top panel of the EVOLVE 50 subwoofer, highlighting the various input and output connections, as well as the QuickSmartDSP display and master volume control.



Figure 3: Subwoofer Rear Panel

This image displays the rear panel of the EVOLVE 50 subwoofer, including the power input, cooling fins, and the Electro-Voice branding.

3. OPERATING INSTRUCTIONS

The EVOLVE 50 system offers intuitive controls and advanced DSP features for optimal sound performance.

3.1 QuickSmartDSP Control

The integrated QuickSmartDSP processing engine allows for easy setup and sound customization. Access the DSP settings via the control panel on the subwoofer.

- **Presets:** Select from four optimized presets: **Music**, **Live**, **Speech**, and **Club** to instantly adapt the sound

profile to your application.

- **Three-Band EQ:** Adjust the low, mid, and high frequencies to fine-tune your sound.
- **User-Programmable Presets:** Store and recall up to five of your own custom sound settings.
- **Output Delay:** Adjust the delay for synchronized sound in multi-speaker setups.
- **Phantom Power:** Activate +15V phantom power for condenser microphones on relevant inputs.
- **Monitoring:** Visually monitor limiter status, input levels, and master volume to ensure optimal gain structure and prevent clipping.

3.2 Bluetooth Connectivity

The EVOLVE 50 features Bluetooth Low Energy (BTLE) for wireless control and high-quality audio streaming.

1. **Pairing:** Activate Bluetooth on your mobile device and select the EVOLVE 50 from the list of available devices.
2. **QuickSmart Mobile App:** Download the Electro-Voice QuickSmart Mobile application for comprehensive wireless configuration, control, and monitoring of up to six EVOLVE 50 systems simultaneously.
3. **Audio Streaming:** Stream background music or musical accompaniment directly from any mobile device with high fidelity.

Your browser does not support the video tag.

Video 1: EVOLVE 50 Usability Overview

This video provides a brief overview of the usability and features of the Electro-Voice EVOLVE 50 system, demonstrating its ease of setup and operation.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your EVOLVE 50 system.

- **Cleaning:** Use a soft, dry cloth to clean the exterior surfaces. Do not use abrasive cleaners or solvents.
- **Storage:** When not in use, store the system in a dry, temperate environment. Utilize the provided carrying bag for the subpole and column array to protect them during transport and storage.
- **Inspection:** Periodically check all cables and connections for any signs of wear or damage.
- **Ventilation:** Ensure the subwoofer's cooling fins are free from dust and obstructions to prevent overheating.

5. TROUBLESHOOTING

If you encounter issues with your EVOLVE 50 system, refer to the following common troubleshooting steps:

- **No Power:** Ensure the power cable is securely connected to both the subwoofer and a working electrical outlet. Check the power switch on the subwoofer.
- **No Sound Output:** Verify that all audio cables are correctly connected. Check input levels on the subwoofer and ensure the master volume is turned up. Confirm the correct input source is selected via the DSP.
- **Distorted Sound:** Reduce input levels to prevent clipping. Check for damaged cables. Ensure the column array is properly seated on the pole.

- **Bluetooth Connection Issues:** Ensure Bluetooth is enabled on your mobile device and the EVOLVE 50 is within range (up to 10 meters). Try unpairing and re-pairing the device.
- **System Overheating:** Check that the subwoofer's cooling fins are not obstructed. Ensure adequate ventilation around the unit.

If problems persist, contact customer support for further assistance.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	Electro-Voice
Model Name	EVOLVE 50
Model Number	F.01U.335.099
Speaker Maximum Output Power	1000 Watts
Frequency Response	37 Hz (functional output)
Connectivity Technology	Bluetooth
Audio Output Mode	Column Array
Mounting Type	Freestanding
Enclosure Material	Polypropylene (subwoofer)
Speaker Type	Subwoofer (12-inch), Column Array (8 x 3.5-inch neodymium drivers)
Additional Features	Portable, QuickSmartDSP, Built-in Multi-Channel Mixer
Color	White
Control Method	App Control (QuickSmart Mobile)
Bluetooth Range	10 Meters
Item Weight	35.8 Pounds
Power Source	Corded Electric
Included Media	Carrying Bag, Owner's Manual, Built-in Multi-Channel Mixer



Figure 4: Column Array Internal Drivers

This image provides a view of the eight 3.5-inch neodymium drivers within the EVOLVE 50 column array, responsible for high-frequency output.

7. WARRANTY INFORMATION

The Electro-Voice EVOLVE 50 system comes with a **Limited Warranty**. For specific terms, conditions, and

duration of the warranty, please refer to the official warranty documentation included with your product or visit the Electro-Voice official website. Keep your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

For technical assistance, service, or additional information regarding your Electro-Voice EVOLVE 50 system, please contact Electro-Voice customer support. Refer to the contact information provided in your product packaging or on the official Electro-Voice website.

- **Online Resources:** Visit the official Electro-Voice website for FAQs, software updates, and additional product documentation.
- **Service Centers:** Information on authorized service centers can be found on the Electro-Voice website.