

QSC K10.2

QSC K10.2 Active 10" Powered Loudspeaker User Manual

Model: K10.2

Brand: QSC

1. INTRODUCTION

Thank you for choosing the QSC K10.2 Active 10" Powered Loudspeaker. This manual provides essential information for the safe and optimal operation, setup, and maintenance of your new loudspeaker. Please read this manual thoroughly before using the product to ensure proper functionality and to prevent damage.

Important Safety Information

- Always connect the loudspeaker to a grounded power outlet.
- Do not expose the unit to rain or moisture.
- Ensure proper ventilation around the unit to prevent overheating.
- Avoid placing the loudspeaker in direct sunlight or near heat sources.
- Handle with care to prevent physical damage.

2. PRODUCT OVERVIEW

The QSC K10.2 is a high-performance, active 10-inch powered loudspeaker designed for a wide range of professional audio applications, including live performances, mobile DJing, main PA systems, and monitoring. It features a powerful 2000 Watt Class-D amplifier module and advanced DSP for superior audio quality and control.





Figure 2.1: Front view of the QSC K10.2 loudspeaker, showcasing its durable grille and compact design.

Key Features:

- Best-in-class audio performance.
- 2000 Watt Class-D amplifier module for powerful and clear sound.
- Multi-function digital display for intuitive control and selection of loudspeaker functions.
- Factory Presets and savable/recallable Scenes for commonly-used applications.
- Intrinsic Correction tuning and advanced loudspeaker management.





Figure 2.2: Rear panel of the QSC K10.2 loudspeaker, detailing the various input/output connections and control interface.

3. SETUP

3.1 Unpacking and Inspection

Carefully remove the loudspeaker from its packaging. Inspect the unit for any signs of damage that may have occurred during shipping. Retain the original packaging for future transport or storage. The box should contain the QSC K10.2 loudspeaker and a power cable. Optional accessories like an Auray SS-47S-PB or SS-4420 speaker stand and an XLR-XLR cable may be included depending on your purchase.

3.2 Placement Options

The K10.2 offers versatile placement options:

- **Floor Standing:** Place the loudspeaker directly on a stable, flat surface.
- **Pole Mounting:** Utilize the dual pole mount cup on the bottom of the speaker for mounting on a speaker stand. The cup allows for either a direct vertical mount or a 7.5-degree downward tilt for optimal audience coverage.
- **Monitor Position:** The cabinet design allows for use as a floor monitor.
- **Flown/Mounted Installations:** Heavy-duty rigging points are integrated for professional flown or mounted installations. Consult a qualified installer for these applications.



Figure 3.1: Bottom view of the QSC K10.2, showing the dual pole mount cup for stand placement.



Figure 3.2: Top view of the QSC K10.2, illustrating the ergonomic handle for easy transport.

3.3 Connecting Audio Sources

The K10.2 features a versatile input panel:

- **Mic/Line Inputs (XLR/TRS Combo):** Connect microphones or line-level devices using XLR or 1/4" TRS cables. Use the MIC/LINE switch to select the appropriate input sensitivity.
- **Auxiliary Input (3.5mm TRS):** For connecting portable audio devices like smartphones or tablets.
- **RCA Inputs:** For connecting consumer audio devices.
- **XLR Mix Out:** Provides a post-gain mix of all inputs for connecting to additional loudspeakers or recording devices.

Adjust the **GAIN A** and **GAIN B** knobs to control the input level for each channel. Monitor the **SIGNAL** and **LIMIT** LEDs to ensure optimal signal levels without clipping.



Figure 3.3: Detailed view of the K10.2's rear panel, showing input options and control knobs.

3.4 Power Connection

Connect the supplied power cable to the AC INLET on the rear panel and then to a suitable grounded power outlet. Ensure the POWER switch is in the OFF position before connecting. Once connected, flip the POWER switch to the ON position. The PWR LED will illuminate.

4. OPERATING INSTRUCTIONS

4.1 Digital Display and DSP Functions

The multi-function digital display on the rear panel provides access to the loudspeaker's advanced DSP features. Use the rotary encoder and buttons to navigate menus and adjust settings.



Figure 4.1: The K10.2's digital display, showing options for presets, delay, EQ, and settings.

- **Factory Presets:** Select from optimized presets for various applications (e.g., Stage Monitor, Dance Music, Musical

Instruments, Hand-Held Mic).

- **Savable Scenes:** Create and recall customized settings, including input type, delay, EQ, and crossover points.
- **Crossover:** Adjust crossover frequencies when using with a subwoofer.
- **Delay:** Apply delay compensation for proper time alignment in multi-speaker setups.
- **EQ:** Fine-tune the frequency response to suit the acoustic environment.

4.2 Sound Customization Switches

Two physical switches on the rear panel provide quick sound adjustments:

- **LF (Low Frequency) Switch:** Adjusts bass response. Options include:
 - **EXT SUB:** For use with an external subwoofer.
 - **NORM:** Standard bass response.
 - **DEEP:** Enhanced bass for full-range applications.
- **HF (High Frequency) Switch:** Adjusts treble response. Options include:
 - **VOCAL BOOST:** Enhances vocal clarity.
 - **FLAT:** Neutral high-frequency response.

4.3 Remote Gain Control

The K10.2 supports remote gain control via an external device connected to the REMOTE GAIN port. Refer to the full user manual for detailed instructions on implementing remote gain control.

4.4 App Control

The QSC K10.2 can be controlled via a dedicated application, offering enhanced control over its functions from a smartphone or tablet. Please refer to the QSC website or app store for more information on the compatible application and its features.

5. MAINTENANCE

5.1 Cleaning

To maintain the appearance and performance of your loudspeaker, regularly wipe the cabinet with a soft, dry cloth. For stubborn dirt, a slightly damp cloth can be used, followed by a dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish and internal components.

5.2 Storage

When not in use for extended periods, store the loudspeaker in a cool, dry place, away from direct sunlight and extreme temperatures. It is recommended to store the unit in its original packaging or a protective case to prevent dust accumulation and physical damage.

6. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, please contact QSC customer support.

Problem	Possible Cause	Solution
No Power	Power cable disconnected; Power switch off; Faulty outlet.	Check power cable connection; Ensure power switch is ON; Try a different power outlet.

Problem	Possible Cause	Solution
No Sound Output	Input cables disconnected; Gain levels too low; Source device not playing; Incorrect DSP preset.	Verify all input cable connections; Increase GAIN A/B; Check source device playback; Select appropriate DSP preset.
Distorted Sound	Input signal too high (LIMIT LED on); Damaged cable; Speaker overload.	Reduce input gain until LIMIT LED no longer illuminates; Replace faulty cables; Reduce overall volume.
Overheating	Blocked ventilation; Prolonged high-volume operation.	Ensure adequate airflow around the unit; Reduce volume or allow unit to cool down.

7. SPECIFICATIONS

Feature	Specification
Model Name	K10.2
Brand	QSC
Speaker Type	Powered Cabinet
Speaker Size	10 Inches (Woofer Diameter)
Speaker Maximum Output Power	2000 Watts
Frequency Response (-6 dB)	56 Hz - 20 kHz
Nominal Coverage Angle	90° Axisymmetric
Connectivity Technology	Auxiliary, XLR
Control Method	App
Material	Metal, Plastic
Item Weight	39 Pounds
Product Dimensions	23 x 16 x 17 inches
Included Components	Power Cable (Auray SS-47S-PB or SS-4420 speaker stand, XLR-XLR cable may be optional)
Mounting Type	Floor Standing, Pole Mount

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The QSC K10.2 Loudspeaker comes with a Limited Warranty. For specific terms and conditions, including warranty duration and coverage details, please refer to the warranty card included with your product or visit the official QSC website. Retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, service, or additional information regarding your QSC K10.2 loudspeaker, please contact QSC customer support directly. You can also find the official User Manual PDF for more in-depth details and diagrams at <https://m.media-amazon.com/images/I/B1eM9VlrVuS.pdf>.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question