



Frequently Asked Questions

KC12 Active 3-Way Column Loudspeaker System

Deployments

Q: What is the coverage pattern of the KC12?

A: Thanks to the innovative QSC LEAF™ (Length-Equalized Acoustic Flare) waveguide the KC12 system delivers a uniform coverage of 145° in the horizontal plane and 35° in the vertical plane with excellent throw.

Q: Can I change the angle, or tilt the KC12T Mid/HF unit?

A: No the KC12T Mid/HF unit is set at a fixed angle providing an overall vertical coverage of 35° (+7.5° and -27.5°). However, if you need to set the coverage area closer to the loudspeaker, you can assemble the KC12 system without its column pole (KC-SP32), for cases where the loudspeaker is on a raised stage or platform.

Q: Can I position two KC12 loudspeakers next to each other to achieve higher sound pressure levels?

A: Due to the very wide 145° horizontal coverage of the KC12 loudspeaker, placing two complete systems next to each other will result in serious comb filtering cancellations between the two KC12T Mid/HF units, compromising greatly the sound reproduction quality. Such a configuration should be avoided.

However, two KC12 systems can be connected in stereo (using Bluetooth or regular cabling) at a reasonable distance providing excellent stereo imaging and coverage. An additional, external active subwoofer can also be connected to a KC12 system to increase the overall low frequency level without generating comb filtering issues (see separate FAQ).

Q: Is it safe to disassemble the column pole (KC-SP32) and the KC12T Mid/HF unit while the KC12 loudspeaker system is powered on and functioning?

A: QSC recommends to systematically turn off the power on the KC12 loudspeaker system before assembling or disassembling it. However, if the KC12 loudspeaker system happens to be assembled/disassembled while still powered on, no damage will occur to the product.

Q: What is the best way to carry the KC12S subwoofer?

A: The KC12S subwoofer features a large handle on the enclosure top and two grips on the bottom, allowing you to easily carry the enclosure with both hands for safe transportation.

Q: Can I use the KC12 loudspeaker in applications where it may be exposed to rain or other sources of moisture?

A: No, the KC12 loudspeaker is not rated for use in wet weather environments.

Q: What is the operating ambient temperature range at which the KC12 loudspeaker will perform according to its specifications?

A: The KC12 system operating ambient temperature ranges between 0° and 50°C (32° to 122°F). However, at the upper end of the operating range, thermal limiting may engage resulting in reduced sound output. Note that the KC12 storage temperature ranges between -20° and 70°C (-4° to 158°F), with a relative humidity between 5% and 85% RH.

Q: What are the benefits of the QSC LEAF™ Waveguide?

A: The innovative QSC LEAF™ (Length-Equalized Acoustic Flare) waveguide provides defined, uniform coverage and exceptional throw allowing for consistent high-frequency reproduction, even in large venues and for distant audience, resulting in natural-sounding high frequency reproduction and impressive vocal clarity.

Q: How does the KC12T Mid/HF unit work?

A: The groundbreaking design of the KC12T Mid/HF enclosure features a 1-inch compression driver combined with the innovative QSC LEAF™ waveguide, as well as two high-excursion 4-inch midrange drivers. Both midrange and high frequencies bandwidth are reproduced by dedicated drivers providing clean and natural sound at all output levels.



Connections

Q: Can I connect an additional, external active subwoofer to the KC12 system? A QSC KS Series one?

A: Yes! There are two options:

- Option 1 - if your input signal is connected to the Input A of your KC12, you can simply connect your external subwoofer to the Output A which is a passive pass-through (no DSP applied). If using a QSC KS or LS Series active subwoofer as the external unit, there is the added benefit that everything will be automatically phase-aligned.
- Option 2 - you can also use the (post-DSP) Mix Output of the KC12 to feed an external subwoofer. This connection allows you to feed a selection of any Input (including Bluetooth) to the external subwoofer. Selecting

which combination of A, B or C inputs you want to send to the Mix Output is made via the rear panel screen interface. If using a QSC KS or LS Series active subwoofer as the external unit, the KC12 system also includes a unique function called “External Sub Delay” which compensates for the added DSP throughput latency to ensure the KC12 system remains phase-aligned with any KS or LS Series external subwoofer. Enabling the function “External Sub Delay” is also made via the rear panel screen interface.

Q: How do I know that my KC12 system is performing at its limit and that the loudspeaker is clipping?

A: First, each input features a “clip” LED light (labelled SIG/CLIP) that will indicate if the signal(s) going into the KC12 system is clipping, which can potentially cause damage to the amplifier or loudspeaker.

Additionally, a red LIMITER LED located on the KC12 rear panel illuminates when the system built-in limiter is activated to protect and avoid damage to the amplifier or loudspeaker. If the signal level at any frequency is too high, or the amplifier is too hot, the system limiter will be activated and the LED illuminated.

Q: How many KC12 loudspeakers can I daisy-chain using the Mix Output?

A: There is no limit to the number of KC12 units that can be daisy-chained using Mix Outputs.

Q: Can I send audio or data via the USB-C port located on the KC12 rear panel?

A: No, this port is used for firmware updates, and it does also provide adequate power to charge a smartphone or a tablet.

Q: Can I connect signal sources to all three (3) KC12 loudspeaker inputs at the same time?

A: Yes! Not only can you connect multiple sources at once, but each input also features dedicated Factory Presets allowing you to shape the sound independently on each input to achieve the best mixed sound.

Q: Can I stream audio via Bluetooth to more than one KC12 loudspeaker at a time?

A: Yes! Each KC12 system supports connections up to four (4) loudspeakers via Bluetooth linking and supports running them as Left, Right, or Mono loudspeakers.

Q: How can I connect a computer to a KC12 system to install firmware updates?

A: A computer can be connected to the USB-C port on the rear panel. Please refer to the firmware update instructions available under www.qscaudio.com/kc12.