

Supplied with windscreen, cable spool, stiffener for hanging and phantom-powered preamp.

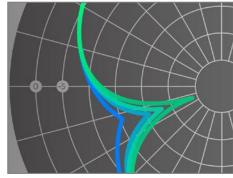
Designed from the ground up to provide wide frequency response and unprecedented pattern control in a nearly invisible package, the ISOMAX 2-H Hanging Microphone is the smallest and most versatile hanging microphone in the world. Perfect for audiences and choirs, the ISOMAX 2-H is available in three precision polar patterns and two colors.



Get Close; Get Great Sound: Good things happen with small mics. Audiences are less distracted, performers less intimidated, and the sound is clear and feedback-free.



Effortless Possibilities: The tiny ISOMAX 2-H Hanging Microphone is easy to mount, easy to hide, and easy to position with confidence.



Complete Control: Full response and unprecedented pattern control enable accurate recordings for stereo, even coverage of groups, and true isolation for reinforcement.



Hanging Tough: The aramidreinforced cable and braided RF shielding are ready for years of service in demanding environments.

Frequency Response:

40 Hz to 18 kHz

Output Impedance: 350 Ohms

Sensitivity:

-40 dBV/Pa (10.0 mV) 1 kHz open circuit

Maximum SPL:

130 dB @ 1% THD 1 kHz

Equivalent Input Noise:

29 dB SPL (A-Weighted)

Signal to Noise Ratio:

65 dB referred to 94 dB SPL

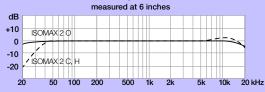
Dynamic Range:

101 dB

Power Requirements:

Phantom 9 V @ 1 mA to 55 V @ 8 mA





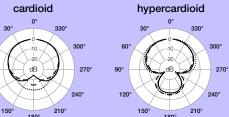
Polar Response

omnidirectional





hypercardioid



ISOMAX 2-H Application Guide for Choir Installations

Practically every church could benefit from proper installation of high-quality microphones. This application guide details simple, proven techniques that you can implement.

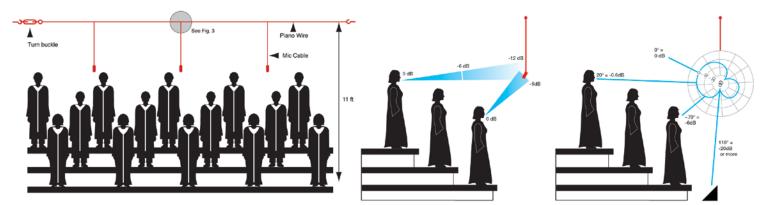
Hanging Microphones

Successfully installing a microphone system for the choir can be difficult and expensive. Countryman Associates has developed a simple, sure-fire approach—using the Countryman ISOMAX 2-H hypercardioid choir microphone—that does not require access to the ceiling and results in truly superior performance using the fewest possible microphones.

The solution is twofold:

- 1) The Countryman ISOMAX 2-H hypercardioid microphone, which weighs less than 1/25 ounce, is light enough to hang safely from a stretched horizontal wire instead of from the ceiling.
- 2) The directional pattern of the ISOMAX 2-H is so uniform that it allows balance between the front and back of the choir to be achieved simply by adjusting the angle at which the mics are secured.

Best of all, every item needed to complete the Countryman choir mic installation can be purchased from the local hardware store. One person following the guidelines below can easily complete this installation in half a day.

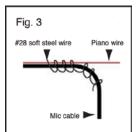


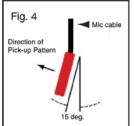
Front view: Low-profile placement of ISOMAX 2-H microphones. Microphones are spaced 6 feet apart.

Side view: The first choir rows are closer to the microphone than the back rows. Angling the hypercardioid pattern creates a balanced sound.

Installation

• Begin by rigging a piece of .010" diameter piano wire horizontally across choir's front row and 11 feet above the feet of the front row. Rig the wire between two screw hooks with a turn buckle to tension the wire on one end. (See Figures 1 and 2.) Tighten piano wire until all slack is taken up and the wire makes a "ping" sound when plucked. Do not over-tighten! This placement should allow banners, flags and other tall items to pass safely under the piano wire.





- Tie the cable of each ISOMAX 2-H microphone to the piano wire spaced 6 feet apart with each mic hanging 2 feet below the piano wire. The microphone will be 3 feet in front of and 3 feet above the heads of the front row singers. (See Figures 1, 2 and 3.)
- Placing the microphones in the front provides the best response, but the front rows are picked up more strongly because they are closer to the mics. The cable of each microphone is wrapped with soft steel wire that allows you to adjust the direction of the mics. Tilt the mics up approximately 15 degrees from vertical (see Figure 4). This will reduce the pickup of the front rows by putting them farther around the side of the pickup pattern until they balance with the back rows.
- After completing the mic cable run a rehearsal to fine-tune the balance of the choir's various sections. If
 you need less gain for the front rows, then increase the angle of the microphones from 15 degrees to 20
 degrees. If you wish to raise the level of the front rows, relative to the rest of the choir, then reduce the
 angle of the mics from 15 degrees to 10 degrees. All you need is a step stool to adjust the angle and
 fine-tune the balance from front to back.

This installation has worked successfully for a wide variety of churches and it can work for you. If you have any questions, please don't hesitate to call Countryman Associates at (650) 364-9988. Specification sheets for these microphones and other Countryman products are available online at countryman.com.



