

## Product Feature of the Month

### The C3 Series: Microphones for House of Worship

Specifically used in ceiling mics, boundary microphones, goosenecks, and suspended microphones, Clockaudio's C3 microphone element is one of the most versatile Clockaudio products that is useful for a variety of different applications.

One of the more popular applications for this product are Houses of Worship. HOW projects usually feature wide-open rooms, big enough to accommodate a large audience and subsequently require voice reinforcement. But, what makes these spaces challenging is the existence of hard, reflective surfaces, that are notorious for generating a lot of echo, which can make capturing speech intelligibly very difficult.

For an altar or a podium, a gooseneck microphone is a great solution. With a gooseneck the capsule of the mic can be in very close proximity to the source of speech while having a lower input gain which helps minimize the pick-up of room noise.



Shown: C3S-RF-CP

Clockaudio's C3S is also a good solution in this application, if a stationary, table top microphone is not an option. Suspended just above and in front of the preacher, the C3S will capture the speaker's voice louder than the reverberant noises.

Choirs however, present a different challenge. Depending on the number of singers, the standing arrangement, the location and the height of the ceiling, the goal is to capture as many voices as possible at the same decibel level while limiting the pick-up of the room noise as much as possible. Here, a directional microphone with a cardioid pattern can be very effective if set up properly. In most Houses of Worship, the choir singers are set-up in a specific area, choir stall or loft, which can make capturing their voice a little easier.

A single C3 capsule can essentially capture 10-12 people in a choir formation. A C3SW-RF hanging at approximately 2' to 3' in front and above the head of the front line of people, with the capsule (axis) pointing straight at the last row of singers, puts every singer in the best part of the pattern in relation

to the distance they are from the microphone. This also puts every participant in a direct line of sight with the microphone, with no obstacles to block their voice. The least sensitive part of the pattern, at the back of the capsule, will considerably attenuate the level of the bouncing echo/reverb from above, keeping the audio level of the choir higher than the noise threshold.

With its 25' of cable, the C3S is the perfect solution for the high ceilings within a House of Worship, a theatre stage or an auditorium.

The C3S is also available in the CCRM4000, a retractable, motorized unit that can enable the microphone to disappear out of sight when not in use.

Whether capturing a choir in their stall, a preacher at the altar or a speaker at a podium, the many forms of the C3 capsule makes it the perfect choice for all these applications to make a House of Worship sound "Clearly Different".

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