

Houses of worship
Conference and lectern
Distance learning
Security

- Supercardioid polar pattern offers high-gain-before-feedback
- Phase coherent cardioid® design prevents coloration from surface sound reflections
- Wide and smooth frequency response
- Three-position bass-tilt switch
- Small and inconspicuous



PCC-170

The PCC®-170 is a surface-mounted supercardioid microphone of professional quality. This handsomely styled unit is appropriate for use on the most elegant boardroom table or lectern. Other applications include churches, courtrooms and council chambers. Because of its highly directional pickup pattern, the PCC®-170 minimizes background noise and feedback. The microphone reproduces the voice with a clean, clear and natural sound.

Since the microphone capsule is placed on a boundary or surface, direct and reflected sounds arrive at the diaphragm in-phase. This coherent addition of direct and reflected waves increases sensitivity 6 dB and prevents phase cancellations. The mic capsule is small enough to ensure phase coherency up to the highest frequencies in the audible spectrum, resulting in a wide, smooth frequency response free of phase interference. Clarity and reach are also enhanced.

Self-contained electronics eliminate the need for an in-line preamp. Powered by 12-48 V phantom power, the PCC®-170 has a low-impedance mic-level balanced output which permits long cable runs without hum pickup or high-frequency loss.

RFI suppression is included. Self-noise is low and sensitivity is very high and an RFI suppression is included. A bass-tilt switch allows the user to tailor the low-end response for particular applications.



Installation

Typical placement for each microphone is at arm's length from the user. Place one microphone in front of each person or one between every two people. The front of the microphone is indicated by an arrow on the bottom of the base plate. If the microphone is used on a lectern, place it on an open surface, not in a cavity. Otherwise the frequency response and polar pattern will be degraded. Connect the far end of the mic cable to the input of a phantom power supply. Connect the output of the phantom power supply to a mixer mic input. Or, if your mixer has phantom power built in, connect each mic cable directly to a mixer mic input. The PCC® includes two keyhole slots in its base to accept mounting screws.

How to Set the Bass Tilt Switch

On the bottom of the microphone is a BASS-TILT switch with three positions: FLAT, CUT, and BOOST. It adjusts the low-frequency response as shown. The FLAT position provides a flatter low-frequency response, for normal usage. The PCC® -170 is shipped from the factory in the FLAT position. The CUT position rolls off the bass, useful in noisy or boomy surroundings. The BOOST position boosts the bass for a more natural sound when the mic is used on a small surface such as a lectern.

How to Adjust the High-Frequency Response

The microphone is factory-set for flat response at high frequencies. You can raise or lower the high frequency response for special applications. Please follow this procedure:

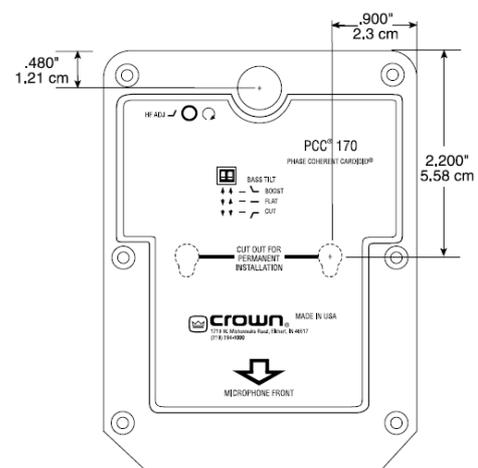
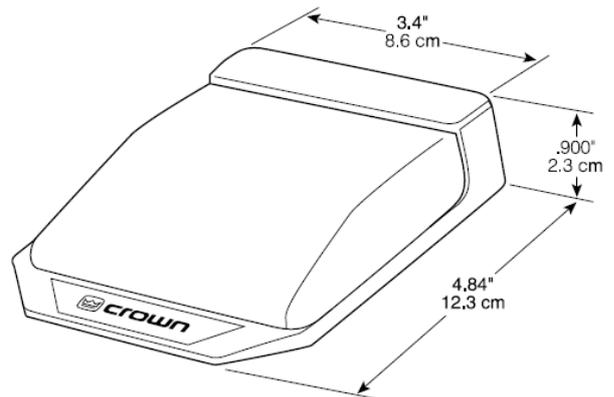
1. On the bottom of the microphone, find the hole labeled HF ADJ. This trim pot adjusts the high-frequency response.
2. Using the supplied small screwdriver, turn the pot clockwise for high-frequency boost (a brighter sound); turn the pot counter-clockwise for high-frequency rolloff (a duller sound).

Architects' and Engineers' Specifications

The microphone shall be the Crown Model PCC® -170 or equivalent. The microphone shall be a half-supercardioid electret condenser type, utilizing a subminiature transducer of rugged construction. The microphone shall employ the principle of phase coherency achieved by mounting a small-diameter element very near a boundary, thus eliminating comb filtering in the audible spectrum. The microphone will exhibit excellent off-axis response and gain-before-feedback.

A 4.6 m (15 ft.), two-conductor shielded cable with XLR connectors shall be supplied with the microphone. Nominal sensitivity shall be 22 mV/Pa. Maximum SPL shall be 120 dB SPL for 3% THD. Equivalent noise shall be 22 dBA nominal. Frequency response shall be 50 Hz to 20,000 Hz with a uniform off-axis response, over 20 dB down at the rear nulls.

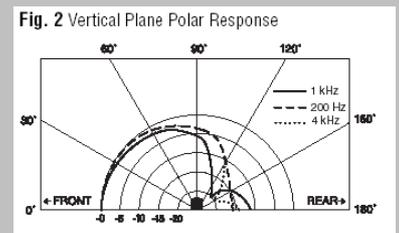
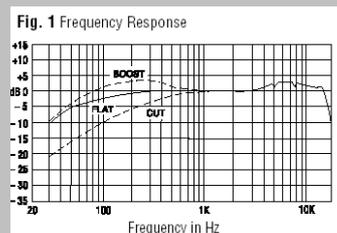
The Model PCC® -170 is specified.



Specifications:

Polar pattern:	supercardioid
Frequency range:	50 to 20,000 Hz
Impedance:	150 ohms
Sensitivity:	22mV/Pa (-30dBV)
Equivalent noise level:	22 dB-A
Maximum SPL:	120 dB
Powering:	12 to 48 V phantom power to DIN/IEC
Cable:	4.6 m (15ft.)
Finish:	black
Net weight:	170 g (6 oz.)

Item number: PCC-170 6000H50100



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