PCC-130 Phase Coherent Cardioid Mic



PCC-130/130W

The Crown® PCC®-130 is a surface-mounted miniature cardioid microphone of professional quality. It is appropriate for use on the most elegant boardroom table or lectern. Other applications include churches, courtrooms and teleconferencing. The PCC-130 has the same performance as the PCC-170, but is smaller, so it is less conspicuous on a conference table. Because of its highly directional pickup pattern, the PCC-130 minimizes background noise and feedback. Capable of withstanding up to 120 dB SPL without distortion, the PCC-130 will never overload in practical use. Its electret-condenser capsule provides a wide, smooth frequency response from 50 Hz to 20 kHz. The PCC-130 microphone is available in black (PCC-130), or white (PCC-130W). The bottom of the microphone features a threeposition BASS-TILT switch: FLAT, CUT, and BOOST. Low-frequency response is adjustable as shown in Fig. 1. Powered by 12-48V phantom power, the PCC-130 has a lowimpedance balanced output which permits long cable runs. The standard connector option is a Switchcraft TB3M. however the PCC-130SPP version is available with a 1/4" stereo phone plug on the bottom of the base plate. Permanent mounting is enabled by screw holes in the base. A 15-foot (4.6m), two-conductor shielded cable with TA3F and A3M connectors are supplied with the microphone.

Installation

Typical placement for each microphone is at arm's length from the user. Either place one microphone in front of each person or one between every two people. If the microphone is used on a lectern set BASS-TILT to BOOST and place it on an open surface, not in a cavity.

Warranty

Crown professional microphones are guaranteed unconditionally against malfunction from any cause for a period of three years from date of original purchase. If such malfunction occurs, microphone will be repaired or replaced (at our option) without charge for materials or labor.

Specifications

Type: Phase Coherent Cardioid[®]. Element: Electret condenser. Frequency response (typical): 50 Hz to 20,000 Hz at 30 degrees incidence to surface (see Fig. 1).

Polar pattern: Half-cardioid (cardioid in the hemisphere above the mounting surface). See Figs. 2 and 3.

Impedance: 150 ohms, balanced (recommended load impedance 1000 ohms or greater).

Open circuit sensitivity (typical): 22 mV/Pa* (-33 dB re 1 volt/Pa).

Power sensitivity: -30.5 dB re 1 mW/Pa*. EIA rating -125 dBm.

Equivalent noise level (self-noise): 22 dB SPL typical (0 dB = .0002 dyne/cm²), A-weighted.

S/N ratio: 72 dB at 94 dB SPL.

Maximum SPL: 120 dB SPL produces 3% THD.

Polarity: Positive pressure on the diaphragm produces positive voltage on pin 2 with respect to pin 3.

Operating voltage: Phantom power, 12 to 48 volts DC on pins 2 and 3 with respect to pin 1.

Current drain: 4 mA nominal.

Connector: Switchcraft TB3M in model PCC-130. Bottom-mounted ¹/₄" stereo phone plug in model PCC-130SPP.

Cable: 15-foot, black, two-conductor shielded cable with Switchcraft TA3F and A3M connectors. *No cable supplied with SPP option.*

Switch: Slide switch for bass cut, bass boost, or flat.

Materials: High-impact molded plastic and steel mesh grille.

Finish: Satin black (PCC-130) or white (PCC-130W).

Net weight: 3.5 oz. (99 g). Mic and cable: 9.5 oz. (269 g).

Dimensions: 8.9cm x 2.5cm x 6.4cm.

Optional accessories: Crown PH-1A phantom power supply (single channel, battery or AC adapter powered), Crown PH-4B phantom power supply (4 channels, AC powered).

*1 pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL.



Fig. 1 Frequency Response



Fig. 2 Vertical-Plane Polar Response







Guaranteed Excellence

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