

### **Technical Support**

Should you have any questions regarding your P30/HC microphone please contact us:

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For warranty and product return/exchange information please refer to the back of the enclosed Calibration Chart.



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## **P30/HC Hypercardioid Microphone Owner's Manual**



Protected by U.S. Patent 6,091,829  
**Made in U.S.A.**



## Description

Earthworks P30/HC is a directional prepolarized condenser High Definition Microphone™ with a first-order hypercardioid pickup pattern directly coupled to a dedicated wideband, low output impedance transformerless preamplifier. The P30/HC requires a standard 48V Phantom Power supply. It features a flat frequency response from 30Hz to 30kHz (Fig. 2), fast impulse response (Fig. 3), very low handling noise, uniform polar pattern, and high SPL handling capabilities. It provides uncolored rejection of sounds arriving off-axis.

Each microphone is delivered with its own calibration chart providing the individually measured frequency response curve. A mounting clip is included with the microphone.

The P30/HC is protected by US Patent No. 6,091,829.

## Applications

Earthworks P30/HC is easy to operate. Connect the microphone to a microphone preamplifier supplying 48V phantom power using a standard XLR microphone cable. *Please allow up to one minute for the microphone to settle.* Plugging in the microphone “hot” (phantom power already present at the input) will not damage the microphone, and is actually preferred for faster settling. It is normal for any phantom powered mic to “pop” when plugged in or powered up. Make sure to mute the signal to speakers or headphones when phantom power is first applied.

The excellent performance characteristics of the P30/HC give it a very wide range of application possibilities. With its 4-inch flexible neck and small microphone head, this high-quality microphone could be placed where other microphones could not, such as under the

strings of an acoustic bass. The P30/HC is an ideal choice for recording or live sound applications using percussion, acoustic or amplified instruments, or choir. The P30/HC makes an excellent spot mic, combining open clarity with uncolored rejection.

This microphone has no removable parts.

## Care of Microphones

Earthworks P30/HC microphone is a precision instrument designed and built to provide years of excellent performance. Following these simple rules will help to protect your investment in the P30/HC:

- Avoid touching the front protective screen.
- Never attempt to disassemble the microphone – it cannot be opened.
- Avoid extreme heat and condensing humidity. Allow the microphone to warm up in the case when bringing it in from the cold weather. Rough handling may damage the microphone even if no visible marks are left.
- When not in use keep the P30/HC in its case.

## Specifications

Frequency response:	30Hz to 30kHz $\pm 1.5$ dB at 6 inches (15cm)
Polar Pattern:	Hypercardioid (Fig. 4)
Sensitivity:	10mV/Pa (-40dBV/Pa)
Power Requirements:	48V Phantom, 10mA
Peak Acoustic Input:	145dB SPL
Output:	XLR (Fig. 1)
Output Impedance:	100 $\Omega$ , balanced (50 $\Omega$ ea. pin 2 & 3)
Minimum Load:	600 $\Omega$ btw. pins 2 & 3
Noise:	22dBA equivalent
Dimensions L x D	275 x 22 mm (10.75 x .860 in.)
Weight:	100g (.22lb)

## CE Compliant

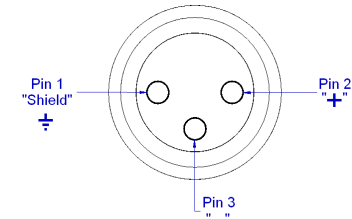


Fig. 1. XLR Output Connector Assignment of P30/HC

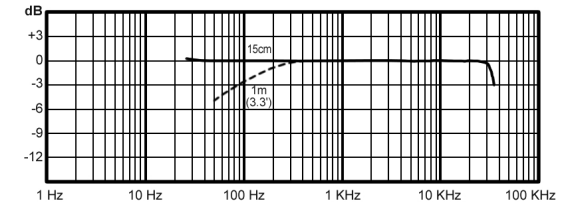


Fig. 2. Frequency Response (Typical) of P30/HC

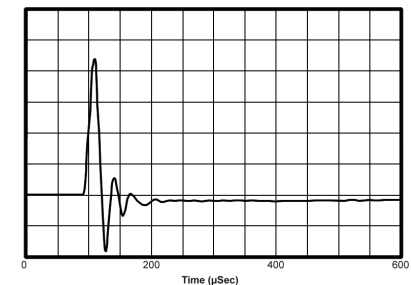


Fig. 3. Impulse Response (Typical) of P30/HC

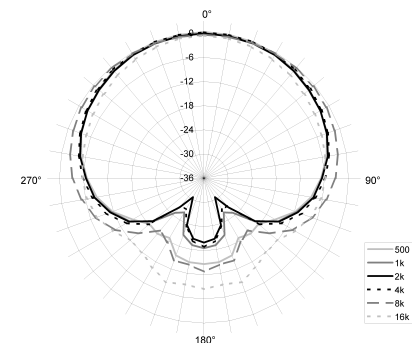


Fig. 4. Polar Response (Typical) of P30/HC

Specifications are subject to change without notice.