Technical Support

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

e-mail: Support@earthworksaudio.com
phone: (603) 654-2433, ext. 19
(9am – 5pm ET)

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

FIFTEEN-YEAR WARRANTY

All Earthworks products (excluding accessories) carry a fifteen-year limited warranty (parts and labor). If you have any problems with your Earthworks products, please contact our warranty/repair department by email at: returns@earthworksaudio.com or by telephone at (603) 654-6427, Ext. 19.

Earthworks®
HIGH DEFINITION MICROPHONES™

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Printed in U.S.A.

Earthworks®
HIGH DEFINITION MICROPHONES™

P30/C

User's Manual

HDM HIGH DEFINITION MICROPHONES™

Description

Earthworks P30/C is a directional pre-polarized condenser High Definition Microphone™ with a first-order cardioid pickup pattern directly coupled to a dedicated wideband, low output impedance transformerless preamplifier. The P30/C 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 excellent 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/C is protected by US Patent No. 6,091,829.

Applications

Earthworks P30/C 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/C 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/C is an ideal choice for recording or live sound applications using percussion, acoustic or amplified instruments, or choir when using microphone stands. It is superior for choir because it doesn't spotlight; rather, it picks up an entire section with no hot spots. This microphone has no removable parts.

Care of Microphones

Care of Microphones Earthworks P30/C 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/C:

- 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 micro phone even if no visible marks are left.
- When not in use keep the P30/C in its case.

Specifications

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

CE Compliant

Specifications are subject to change without notice.

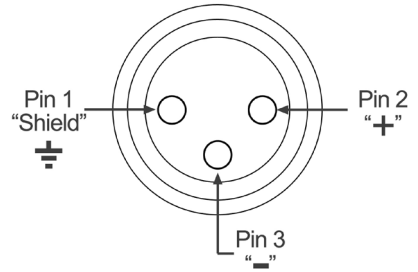

Fig 1. XLR Output Connector Assignment of P30C

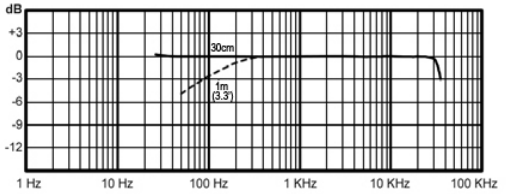

Fig 2. Frequency Response (Typical) of P30C

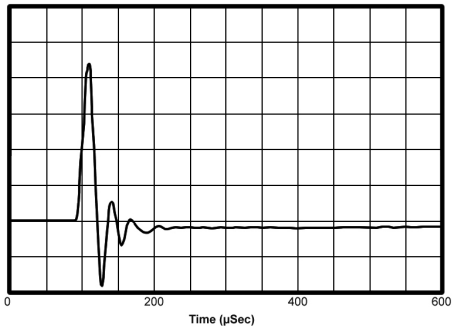

Fig 3. Impulse Response (Typical) of P30C

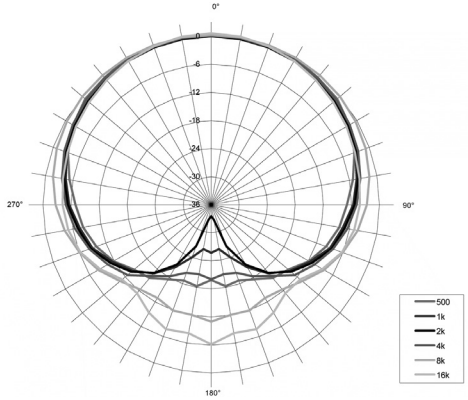

Fig 4. Polar Response (Typical) of P30C