

Technical Support

Should you have any questions regarding your QTC30 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.



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Made in U.S.A.
Printed in U.S.A.



QTC30

User's Manual



HDM HIGH DEFINITION MICROPHONES™

Description

Earthworks QTC30 is an omnidirectional (pressure) pre-polarized condenser microphone directly coupled to a dedicated wide-band, low output impedance preamplifier. The QTC30 requires a standard 48V phantom power supply. It features an extended linear free-field frequency response from 6Hz to 30kHz (Fig. 2), extremely fast impulse response (Fig. 3), low self-noise, very low handling noise, uniform polar pattern, and high SPL handling capabilities. It exhibits no proximity effect.

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

Applications

Earthworks QTC30 is easy to operate. Connect the microphone to a microphone pre-amplifier 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 QTC30 is designed for recording quieter sources such as vocals, strings, woodwinds, and distant-miked orchestras or choirs. It is intended for detailed sources and does not have most of the problems and limitations generally associated with competitive microphones. Its fast impulse response and diaphragm settling time results in very natural and uncolored sound. The QTC30 is an ex-

cellent room mic for ambiance in the studio and for recording rehearsals and performances. This microphone has no removable parts.

Care of Microphones

Earthworks QTC30 microphone is a precision instrument designed and built to provide years of top performance. Following these simple rules will help to protect your investment in the QTC30:

- 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 QTC30 in its case

Specifications

Frequency response:	6Hz to 30kHz +1/-3dB
Polar Pattern:	Omnidirectional (Fig. 4)
Sensitivity:	30mV/Pa (Typical)
Power Requirements:	48V Phantom, 10mA
Peak Acoustic Input:	142dB 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:	6.25 x .860 in. (165 x 22 mm)
Weight:	.35lb (160g)

 Compliant

Specifications are subject to change without notice.

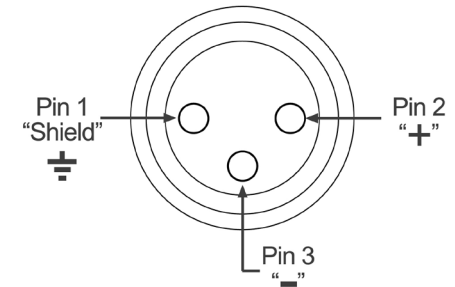


Fig 1. XLR Output Connector Assignment of QTC30

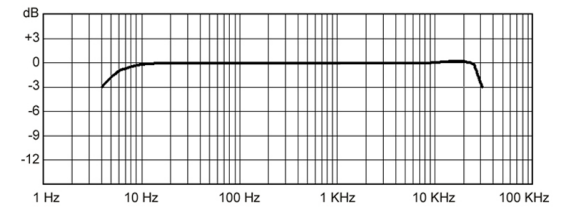


Fig 2. Frequency Response (Typical) of QTC30

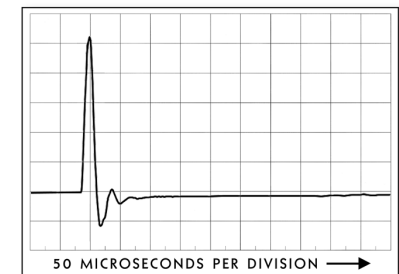


Fig 3. Impulse Response (Typical) of QTC30

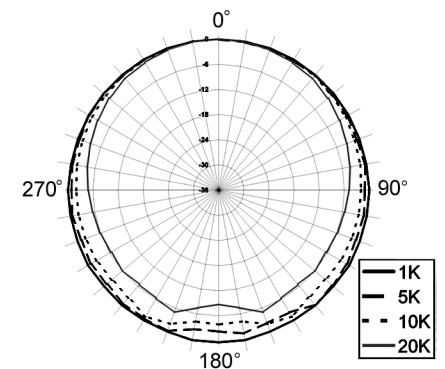


Fig 4. Polar Response (Typical) of QTC30