

### Warranty

All Earthworks microphones carry a limited warranty (parts and labor).

### Product Registration

To help you get the most out of your Earthworks purchase, please take a moment and register your product with us online at [earthworksaudio.com/register](http://earthworksaudio.com/register).

### Service & Repair

If you have any problems with your Earthworks products, please contact our Service & Repair Department.

Email: [returns@earthworksaudio.com](mailto:returns@earthworksaudio.com)

Telephone: (603) 654-2433, ext. 119



# QTC30

Omni High Definition  
Microphone™  
for Quiet Sources

## User's Guide

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MADE IN USA

[earthworksaudio.com](http://earthworksaudio.com)

 **Earthworks**®  
HIGH DEFINITION MICROPHONES™

## Description

The Earthworks QTC30 is an omnidirectional (pressure) pre-polarized condenser microphone directly coupled to a dedicated wideband, low output impedance preamplifier. The QTC30 requires a standard 24-48V phantom power supply. It features an extended linear free-field frequency response from 3Hz to 30kHz, extremely fast impulse response, 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

The Earthworks QTC30 is easy to operate. Connect the microphone to a microphone preamplifier supplying 24-48V 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. The QTC30 will faithfully reproduce sound with impeccable detail and does not exhibit the typical problems and limitation exhibited with conventional microphones. Its fast impulse response and diaphragm settling time results in very natural and uncolored sound. The QTC30 is also an excellent room mic for ambiance in the studio and for recording rehearsals and performances. This microphone has no removable parts.

## Care of Microphone

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: 3Hz to 30kHz +1/-3dB

Polar Pattern: Omnidirectional

Sensitivity: 34mV/Pa (Typical)

Power Requirements: 24-48V Phantom, 10mA

Peak Acoustic Input: 140dB SPL

Output: XLR-3

Output Impedance: 65Ω, balanced between pins 2 & 3

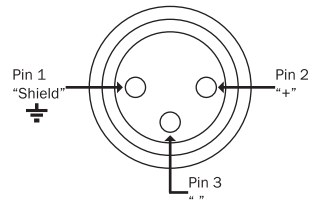
Minimum Load: 600Ω between pins 2 & 3

Noise: 20dB, A equivalent

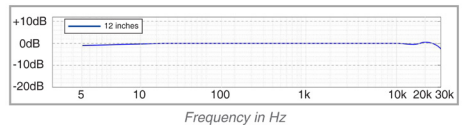
Dimensions L x D: 165 x 22 mm (6.5 x .860 in.)

Weight: 160g (.3lb)

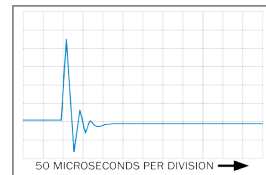
Specifications are subject to change without notice.



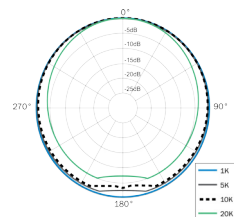
XLR Output Connector Assignment of QTC30



Frequency Response of QTC30 (typical)



Impulse Response of QTC30 (typical)



Polar Response of QTC30 (typical)