



# **C30/C & C30/HC**

**HANGING MICROPHONE FOR CHOIR**

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[earthworksaudio.com](http://earthworksaudio.com) or call 1-603-654-2433.

**EARTHWORKS AUDIO**



# Thank you for purchasing the Earthworks C30 Hanging Microphone

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## **YOUR PURCHASE INCLUDES**

- 1 C30/C or C30/HC Microphone
- 1 PW1 Foam Windscreen

## **GETTING STARTED**

The C30 is a condenser microphone with active electronics. This means:

- Its output level will be naturally higher than many of the dynamic microphones that it may be replacing. It is not uncommon to need to reduce gain if you were previously using a dynamic microphone.
- You will need to engage phantom power on your interface or preamp. Pro Tip: It's always a good idea to plug in a condenser microphone while phantom power is off and the channel is muted. After engaging phantom power, give the microphone a short time to settle before unmuting.

The ChoirMics™ use Canare™ Star Quad™ microphone cable which has two twisted pairs and a shield. Solder the shield to pin 1, the white twisted pair (i.e. both white wires) to pin 2. and the blue twisted pair (i.e. both blue wires) to pin 3.

Before hanging the C30s, consider how they will be placed in relation to the choir being captured. Use of mics with two rows for large choirs allows zoning and better control when mixing. Typically, one row of mics is sufficient.



Begin placing the C30s where they will be hung. The mic heads should be 2.5 - 3 ft. in front of the row of singers you want to pick up. Common practice is to center C30s on groups of 4, 5, or 7 singers. For better articulation and detail, aim the mic head at the face of the singers, not pointing down at the top of their heads.

Once they are hung, confirm that they can be connected with XLR cables to a mixing console capable of supplying 24-48V Phantom Power.

### **PROPER MAINTENANCE**

To guarantee your microphone provides years of performance, follow these guidelines:

- Avoid touching the front protective screen.
- Never attempt to disassemble the microphone.
- Avoid extreme heat and condensing humidity. Allow the microphone to warm up when bringing it in from the cold.
- Rough handling may damage the microphone even if no markings are visible.

### **IMPORTANT NOTICE**

The small tip on many of our microphones allows them to capture the highest frequencies of your sound. Please be gentle and considerate when handling the microphones with these tips. (Microphones such as the SR314 and SR40V shield the tip within their capsule, and are thus more durable.)

Please do not excessively bend the gooseneck beyond 90 degrees. Doing so on a consistent basis will cause the wand portion to deteriorate and lose its ability to stay in the desired position.

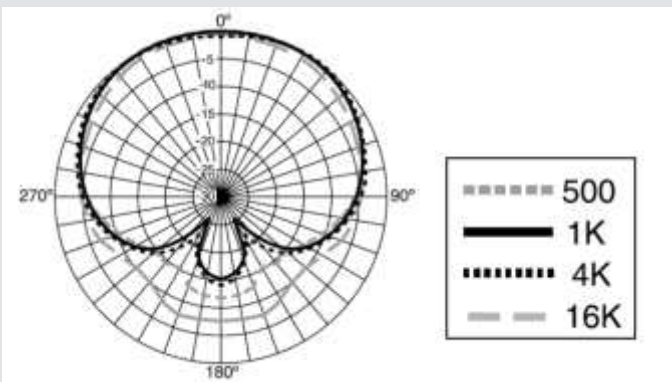


## TROUBLESHOOTING

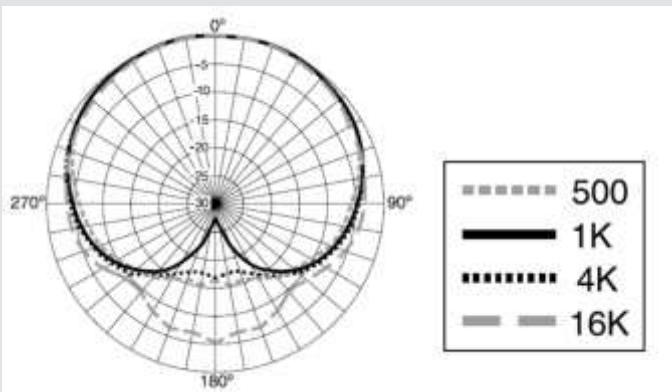
If you encounter issues while using your Earthworks Audio microphone, please make sure that:

- Your microphone is connected to an active power supply.
- Phantom power is being supplied to the microphone.
- Your microphone and XLR cable are well connected.
- The microphone is positioned at an appropriate distance from the sound source.
- External noise in your recording environment is kept to a minimum.
- Your recording space is at room temperature and free of dust.

If your issue persists after checking, please contact us via our website.



C30/HC POLAR PATTERN



C30/C POLAR PATTERN



**C30**

Hanging Microphone

## SPECIFICATIONS

### Frequency Response

20Hz - 30kHz

### Polar Pattern

Cardioid (C30/C);  
Hypercardioid (C30/HC)

### Sensitivity

20mV/Pa (-34dBV/Pa)

### Power Requirements

24-48V Phantom, 10mA

### Peak Acoustic Input

145dB SPL (C30/C); 139dB SPL  
(C30/HC)

### Output

XLR (Pin 2+)

### Minimum Output Load

600Ω, balanced between pins  
2 & 3

### Noise

20dB SPL (C30/C); 16dB SPL  
(C30/HC)

### Dimensions L x D

12.75 x .860 inches (324mm x  
22mm)

### Dimensions L x D

5.53" x 1.6"

### Attached Cable

30' (9.14m)  
Canare Star Quad™

### Weight

.22lb (100g) (Microphone  
Only); 1.2lb (544.3g) (Mic with  
30' Cable)

## WARRANTY

All Earthworks® products carry a limited warranty (parts and labor). Please register your warranty at: [earthworksaudio.com/register](https://earthworksaudio.com/register). If you have any problems with your Earthworks products, please contact our warranty/repair department by email at: [service@earthworksaudio.com](mailto:service@earthworksaudio.com).

## NOTE

This warranty only applies to Earthworks microphones purchased brand new. For microphones purchased/received second-hand, please contact us via our website.

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