

# SR20

Vocal & Instrument  
Cardioid Microphone

## User's Guide

### 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.

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

### Description

The Earthworks SR20 is a directional pre-polarized condenser microphone with a first-order cardioid pickup pattern directly coupled to a dedicated wideband, low output impedance transformerless preamplifier. The SR20 requires a standard 24-48V Phantom Power supply. It features a flat frequency response from 50Hz to 20kHz, fast impulse response, very low handling noise, uniform polar pattern, and high SPL handling capabilities. It provides excellent uncolored rejection of sounds arriving off-axis.

### Applications

The Earthworks SR20 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 SR20 is designed for vocals while using its screw-on windscreen. It will accurately reproduce a voice with the same precision up to 90° off-axis. This means the same pristine sound quality is available at the front and sides of the microphone. The SR20 is not “boomy,” while its unique windscreen assembly eliminates the popping of P’s. Its uniform polar response will provide more gain before feedback than other mics. Make sure to bring the mixer’s gain down before plugging the SR20 in for the first time as it has much higher output than conventional condenser and dynamic mics. To remove the windscreen unscrew it from the main body. Never use force! With the screw-on windscreen removed, the SR20 becomes a versatile instrument mic that is outstanding for piano, guitar, drums, bass, woodwinds, and other instruments. A mounting clip and a screw-on windscreen are included with the microphone.

### Care of Microphone

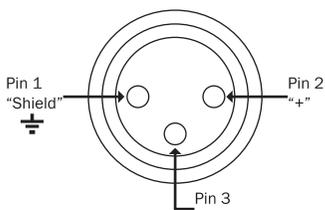
The Earthworks SR20 microphone is a precision instrument designed and built to provide years of top performance. Following these simple rules will help to protect your investment in the SR20:

- Never attempt to disassemble the main body of 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.
- Extremely rough handling may damage the microphone even if no visible marks are left.
- When not in use keep the SR20 in its case.

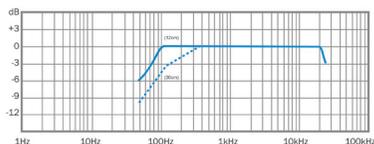
### Specifications

- Frequency response: 100Hz to 20kHz
- Polar Pattern: Cardioid
- Sensitivity: 20mV/Pa (-34dBV/Pa)
- Power Requirements: 24-48V Phantom, 10mA
- Peak Acoustic Input: 139dB SPL
- Output: XLR-3
- Output Impedance: 65Ω, balanced, between pins 2 & 3
- Minimum Load: 600Ω btw. pins 2 & 3
- Noise: 16dB, A equivalent
- Dimensions L x D: 212mm x 22mm (8.4 x .860 inches)  
238mm x 22mm (with windscreen)
- Weight: 135g (.3lb)

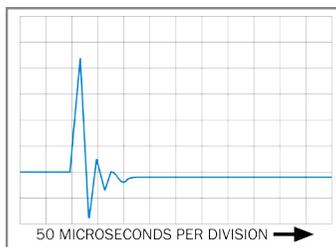
Specifications are subject to change without notice.



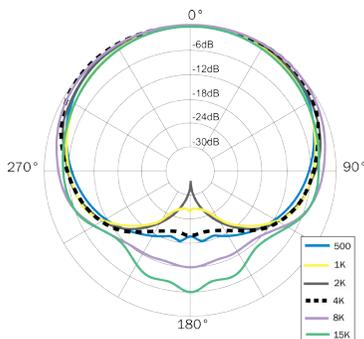
XLR Output Connector Assignment of SR20



Frequency Response of SR20 (typical)



Impulse Response of SR20 (typical)



Polar Response of SR20 (typical)