

# SR20 Performance Microphone *(same as SR69)*



Shown above with windscreen and windscreen removed.

## Architectural & Engineering Specifications

The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 50 Hz to 20 kHz,  $\pm 2$  dB. The microphone shall have an output level of 10 mV/Pa. The microphone shall be of a single capsule, single membrane design. The microphone shall have an impulse response with the rise time no longer than 25 microseconds, and total settling time, including the rise time, no longer than 120 microseconds. The microphone shall have polar characteristics uniform in all planes to form a cardioid of revolution. Response in any angular position up to 90° away from the major axis within frequency range from 500 Hz to 16 kHz shall deviate by no more than  $\pm 3$  dB from the ideal cardioid pattern as described by the following equation:  $SPL(a) = 20 \cdot \text{Log}(1/2 + \cos(a)/2)$  (dB), where  $a$  is the angle in radians between the measurement source position axis and the major axis. The microphone shall accept sound pressure levels up to 145 dB producing no more than 3% THD. Dimensions shall be 22 mm (.860 in) body diameter by 210 mm (8.5 in) long without the windscreen, and 240 mm (9.5 in) long with the windscreen. The maximum head diameter shall be 12.5 mm (.500 in) without the windscreen, and 42 mm (1.65 in) with the windscreen. The microphone shall be terminated with a professional gold-plated 3 pin XLR connector. The microphone shall include a thread-mounted external windscreen. The microphone shall require 48 V phantom power. The microphone shall be made of metal with black finish. The Earthworks SR20 is specified.

- Patented Cardioid Technology
- Award Winning Design
- Uniform Frequency Response at 45° & 90° off-axis
- More Gain Before Feedback
- Highly Intelligible
- Low Handling Noise
- 20kHz Frequency Response
- 145dB SPL Max Acoustic Input
- Dual Purpose: Vocal & Instrumental
- Windscreen Assembly unscrews
- The Perfect Performance Microphone

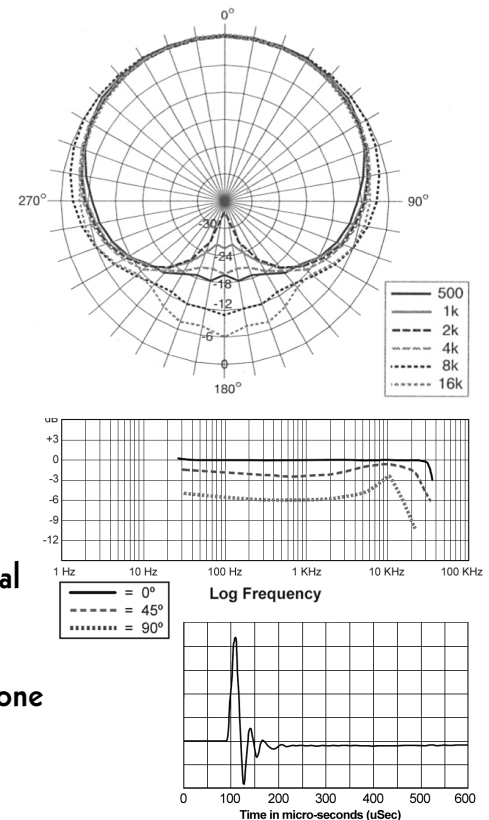


TEC Award Winner

The award winning SR20 is an exceptional and sturdy performance microphone that is at home on the stage or in the studio. It offers exceptional qualities as a vocal microphone with its clean on-axis pickup and smooth uncolored off-axis response. Its patented cardioid design will achieve more gain before feedback than competitive cardioid microphones because it has no off-axis peaks. The SR20 is a superior choice for a wide range of applications, including sound reinforcement, recording of vocals and musical instruments.

As a vocal microphone, the SR20 is spectacular. It accurately captures voice at 6 inches with a slight increase in bass warmth as you move closer, with no presence peak. It has low handling noise and its unique design will protect you from popping P's. All you will hear is the pristine, clear and accurate sound quality that has made Earthworks famous. You will need less EQ and gimmicks, because the SR20 sounds fabulous the way it is.

Removing the windscreen assembly (by simply unscrewing it) reveals an alternate persona of this microphone. It effortlessly captures a wide range of musical sources such as choir, guitar, mandolin, banjo, accordion, horns and flute. For choir, the SR20's wide pickup pattern will not spotlight, and will uniformly pick up sound over a wide area with low susceptibility to feedback. Its ability to handle high sound pressure levels makes it exceptional for amplified instruments, drums and other per-



cussion. In fact, it makes a great overhead drum or bass drum mic. For "live" acoustic guitar and stringed instruments, the SR20 sounds perfect at 6 inches and will provide enough gain before feedback to let it cut through in the mix.

The SR20 is also a powerful tool for communication. It is superb for spoken word applications, such as church and civic meetings, radio and vocal production. It will easily pick up the sound of inexperienced speakers through its greater reach and coherent pick-up pattern as they move on or off-axis. The SR20 provides better intelligibility than other microphones, regardless of price. Every performing artist, recording artist, church, civic center, meeting hall and boardroom should have one or several SR20's. If you have not tried one, then visit your nearest Earthworks dealer and try out an SR20 for yourself. It will blow you away, and that's a promise.

## Specifications

**Frequency Response:** 50Hz to beyond 20kHz  $\pm 2$ dB  $\pm 6$  inches  
**Polar Pattern:** Cardioid  
**Sensitivity:** 10mV/Pa (-40dBV/Pa)  
**Power Requirements:** 48V Phantom, 10mA  
**Max Acoustic Input:** 145dB SPL  
**Output:** XLR-3 (pin 2+)  
**Min Output Load:** 600 ohms between pins 2 & 3  
**Noise:** 22dB SPL equivalent (A weighted)  
**Dimensions:** 230mm x 22mm (9" x .860")  
**Weight:** 135g (0.3 lb.)