

Technical Support

Should you have any questions regarding your SR78 microphone please contact us:

e-mail: Support@EarthworksAudio.com
phone: 1-603-654-6427 (9a.m. – 5p.m. ET)

For warranty and product return/exchange information please refer to the back of the enclosed Calibration Chart.



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SR78 Hypercardioid Microphone Owner's Manual



Made in U.S.A.

Description

Earthworks SR78 is a directional prepolarized condenser microphone with a first-order hypercardioid pickup pattern directly coupled to a dedicated wideband, low output impedance transformerless preamplifier. The SR78 requires a standard 48V Phantom Power supply. It features a flat frequency response from 30Hz to 30kHz (Fig. 2), fast impulse response (Fig. 3), very low handling noise, uniform polar pattern, and high SPL handling capabilities. It provides excellent uncolored rejection of sounds arriving off-axis.

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

The SR78 is protected by US Patent No. 6,091,829.

Applications

Earthworks SR78 is easy to operate. Connect the microphone to a microphone preamplifier 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 excellent performance characteristics of the SR78 give it a very wide range of application possibilities. It offers exceptional directional performance for guitar, sax, flute, drums, bass and vocals. It is ideal in any application where natural sound combined with more rejection or

a reduction in unwanted room sound is desired. The SR78 can pick an instrument out of an ensemble while sounding detailed and life-like. It combines open clarity with uncolored rejection.

This microphone has no removable parts.

Care of Microphones

Earthworks SR78 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 SR78:

- 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 SR78 in its case.

Specifications

Frequency response:	30Hz to 30kHz ± 1.5 dB at 6 inches (15cm)
Polar Pattern:	Hypercardioid (Fig. 4)
Sensitivity:	10mV/Pa (-40dBV/Pa)
Power Requirements:	48V Phantom, 10mA
Peak Acoustic Input:	145dB SPL
Output:	XLR (Fig. 1)
Output Impedance:	100 Ω , balanced (50 Ω ea. pin 2 & 3)
Minimum Load:	600 Ω btw. pins 2 & 3
Noise:	22dBA equivalent
Dimensions L x D	229 x 22 mm (9 x .860 in.)
Weight:	225g (.51lb)

CE Compliant

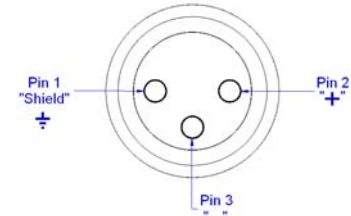


Fig. 1. XLR Output Connector Assignment of SR78

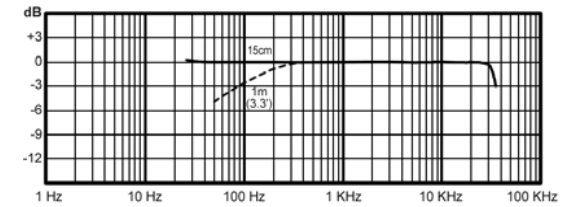


Fig. 2. Frequency Response (Typical) of SR78

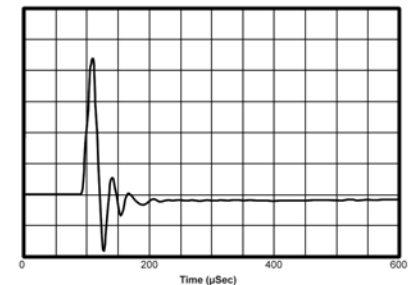


Fig. 3. Impulse Response (Typical) of SR78

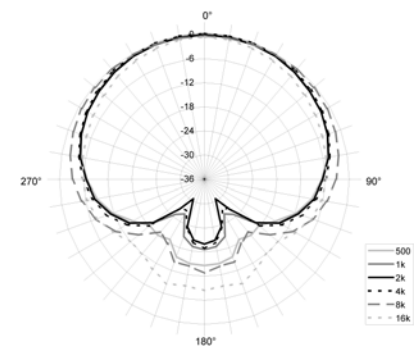


Fig. 4. Polar Response (Typical) of SR78

Specifications are subject to change without notice.