



# ROYER SF-1

## Ribbon-Velocity Studio Microphone

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The SF-1 is an ultra-compact, monaural ribbon microphone, exhibiting flat frequency response and a well-balanced, panoramic soundfield. The SF-1 has superb transient response due to its ultra low-mass 1.8-micron ribbon assembly. Frequency response is excellent regardless of the angle of sound striking the ribbon, and off-axis coloration is negligible.

The heart of the SF-1 is its ribbon transducers proprietary cross-field motor assembly. Comprised of four powerful Neodymium magnets and Permendur iron pole-pieces, the cross-field design assures the shortest front-to-rear ribbon path length for best high frequency response. The case is fashioned from ingot iron and forms the magnetic return circuit, an effective system with low leakage flux which accounts for the relatively high sensitivity in a trim package.

### FEATURES

- No internal active electronics to overload or produce distortion up to maximum SPL rating.
- Extremely low residual noise
- Ribbon element not affected by heat or humidity
- Absence of high frequency phase distortion
- Equal sensitivity from front and back of element.
- Consistent frequency response regardless of distance
- Very low magnetic leakage
- High efficiency toroid matching transformer and gold plated output connector
- Ultra compact package
- Matte Black Chrome finish reduces reflected light for on-camera use.

### RECOMMENDED APPLICATIONS

- Choir, Orchestra, String Sections
- Overhead and Distance miking
- Brass Instruments - Horn Sections
- Woodwinds, flute and other reed instruments.
- Acoustic Piano, Harp.
- Violin, cello and other stringed instruments
- Percussion Instruments
- Acoustic Guitar, Mandolin, Banjo
- Ambience & Echo Chamber return



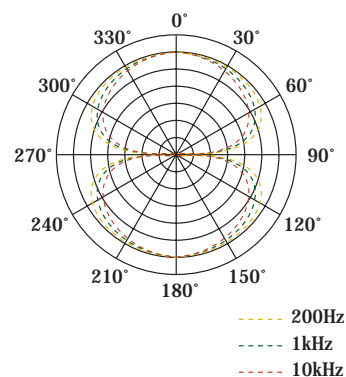
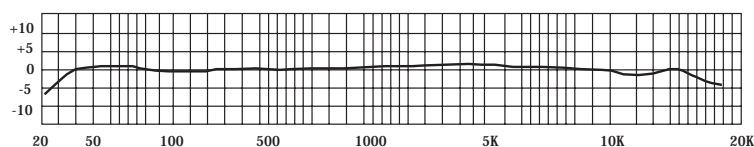
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## Technical Specifications



Acoustic Operating Principle	Electrodynamic pressure gradient
Polar Pattern	Symmetrical figure-8
Generating Element	1.8-micron aluminum ribbon
Magnets	Rare Earth Neodymium
Frequency Response	30 -15 000 Hz $\pm$ 3dB
Sensitivity	>-52 dBv Re. 1v/pa
Output Impedance	300 Ohms @ 1K (nominal)
Rated Load Impedance	>1500 Ohms
Maximum SPL	>130dB
Output Connector	Male XLR 3 pin (Pin 2 Hot)
Dimensions	142mm L, 25mm W (5 5/8" L, 1" W)
Weight	264g (9.3 oz )
Finish	Matte Black Chrome
Accessories	Protective wood case, mic clip, mic sock
Optional Accessories	Suspension shockmount, windscreen
Warranty	Lifetime to original owner (repair or replace at Royer's option)
Matched pairs are available at extra charge	

## Frequency Response and Polar Pattern



**Royer Labs™**

821 North Ford Street, Burbank, CA 91505  
Tel. (818) 760 8472 Fax (818) 760 8864  
[www.royerlabs.com](http://www.royerlabs.com)

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