



ROYER SF-12

Stereo Coincident Ribbon-Velocity Microphone

The Royer SF-12 stereo coincident ribbon microphone is the only microphone of its kind available, combining high quality audio performance with outstanding stereo separation and imaging. It is a modern ribbon design with no audible diffraction effects or cavity resonance.

An SF-12 is actually two matched ribbon microphones placed one above the other, each aimed 45 degrees from center. The frequency response is excellent regardless of the angle of sound striking the ribbons and off-axis coloration is negligible. When held vertically, connector down, the upper microphone is the left channel and the lower microphone is the right channel. The SF-12's extension cable comes with an adapter which splits into separate left and right XLR connectors, labeled "upper" and "lower".

The SF-12's two 1.8-micron ribbons are of pure aluminum (99.99%), each weighing approximately 1/3 milligram and producing superb transient response. The ribbon transducer's proprietary cross-field motor assemblies (patent pending) are each 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 ingot iron and forms part of the magnetic return circuit, an effective system with low leakage flux which accounts for the relatively high sensitivity in a trim package.

SF-12 FEATURES

- True stereophonic recording from one microphone
- 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 or back of elements
- Consistent frequency response regardless of distance
- Very low magnetic leakage
- High efficiency toroid matching transformers and gold plated output connector

RECOMMENDED APPLICATIONS

- Stereo & Distance miking
- Choir, Orchestra, String Sections
- Overhead Drums, Room Miking
- Percussion Instruments
- Brass Instruments - Horn Sections
- Woodwinds
- Stereo Acoustic Piano, Harp, etc.
- Acoustic Guitar, Mandolin, stringed instruments



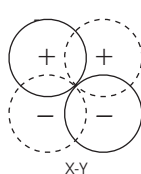
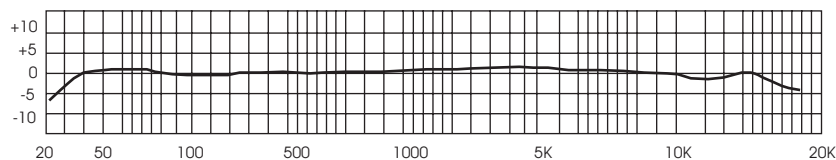
ROYER SF-12

Technical Specifications

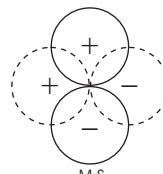
Acoustic Operating Principle	Electrodynamic pressure gradient
Polar Pattern	Symmetrical figure-8
Generating Element	1.8-micron aluminum ribbon
Magnets	Rare Earth Neodymium
Frequency Response	30 -15 000 Hz ± 3 dB
Sensitivity	> -52 dBv Re. 1v/pa
Output Impedance	300 Ohms @ 1K (nominal)
Rated Load Impedance	> 1500 Ohms
Maximum SPL	> 130 dB
Output Connector	Male XLR 5 pin (stereo)
Dimensions	206mm L, 25mm W (8" L, 1" W)
Weight	369 grams (13 oz)
Finish	Matte Black Chrome/Dull Satin Nickel (optional)
Accessories	Protective wood case, 18' Cable (XLR5 to 2 standard 3 pin XLR male), mic clip, mic sock
Optional Accessories	Suspension shockmount, windscreen
Warranty	Lifetime to original owner (repair or replace at Royer's option)



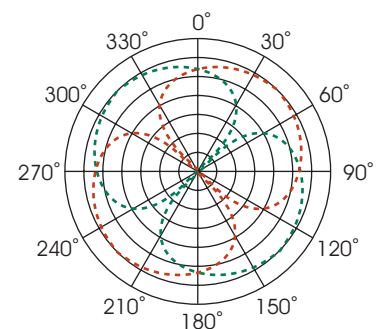
Frequency Response and Polar Pattern



X-Y



M-S



--- Lower Microphone
--- Upper Microphone

Royer Labs™

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

COPYRIGHT ROYER LABS 2000
All specifications subject to
change without notice