



# ROYER SF-24V

## Vacuum Tube Stereo Coincident Ribbon Microphone

The SF-24V vacuum tube stereo ribbon microphone is the pinnacle of our SF-series stereo microphones. The sound pickup is lush, smooth and natural, with outstanding stereo imaging and superb transient response. The tube electronics provide increased midrange reach, unmatched clarity and detail, and an airiness previously unheard of in ribbon mics. Utilizing the same proprietary tube electronics as in our TEC Award winning R-122V ribbon microphones, the SF-24V delivers the ultimate in stereo ribbon miking for the true connoisseur of recorded sound.

The SF-24V's independent tube circuits provide an output level of -38 dB, suitable for use with any professional preamplifier. With self-noise of lower than 18 dB, the SF-24V's ultra-quiet operation is suitable for the most demanding classical and acoustic recording applications.

Like an SF-12, the SF-24V is actually two matched ribbon microphones, placed one above the other in a coincident pair, each aimed 45 degrees from center in the classic Blumlein configuration. The magnet/pole piece structure of each ribbon transducer delivers a wide, uniform frequency response with no substantial peaks or dips, and the 1.8-micron ribbons produce superb transient response. Frequency response is excellent regardless of the angle of sound striking the ribbons and off-axis coloration is negligible.

### SF-24V FEATURES

- Vacuum tube circuitry provides high output and impedance matching
- True stereophonic (Blumlein and M-S) recording from one coincident microphone
- High SPL capabilities
- No distortion up to maximum SPL rating
- Extremely low residual noise
- Ribbon elements are 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
- High efficiency, matching toroidal transformers
- Very low magnetic leakage

### RECOMMENDED APPLICATIONS

- Orchestra
- String Sections
- Solo Strings
- Brass and Woodwinds
- Acoustic Piano
- Harp
- Choirs
- Drum Overheads
- Percussion Instruments
- Acoustic Guitars
- Large & Small Ensembles
- Ambiance
- Stereo to Mono



Reduced Size

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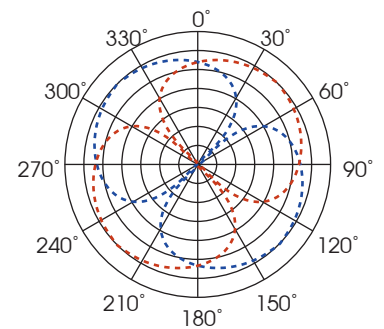
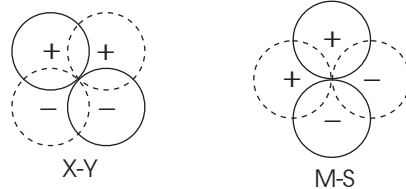
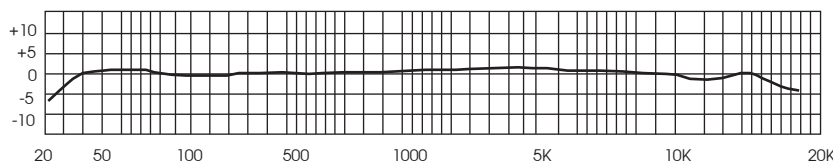
## Technical Specifications



<b>Acoustic Operating Principle</b>	Electrodynamics pressure gradient with vacuum tube
<b>Vacuum Tube</b>	2 JAN mil-spec 5840W pentodes wired in triode configuration
<b>Polar Pattern</b>	Symmetrical figure-8's
<b>Generating Element</b>	Two 1.8-micron aluminum ribbon
<b>Frequency Response</b>	30 - 15,000 Hz $\pm$ 3dB
<b>Sensitivity</b>	-38 dB (re. 1v/pa $\pm$ 1dB)
<b>Self-Noise</b>	< 18 dB
<b>Output Impedance</b>	450 Ohms @ 1KHz
<b>Recommended Load Impedance</b>	1500 Ohms or greater
<b>Maximum SPL</b>	>130dB
<b>Microphone Output Connector</b>	Male XLR 5-pin (Stereo)
<b>Power Supply Output Connectors</b>	Two 3-Pin Male XLR connectors
<b>Power Requirements</b>	Plate supply: 135 VDC @2ma, Filament supply: 6 VDC@ 150ma from dedicated power supply.
<b>Dimensions</b>	270mm X 39mm (base) X 25mm (top) (10 5/8" X 1.5" X 1")
<b>Weight</b>	583 grams (20.5 oz)
<b>Finish</b>	Dull Satin Nickel, Optical Black finish optional
<b>Accessories</b>	Power supply, Protective wood case, 25' Cable (XLR5 to 2 standard 3-pin XLR male), shock mount
<b>Microphone Warranty</b>	Lifetime to original owner (repair or replace at Royer's option) Ribbon element: 1 year. Vacuum Tube: 10 years



## Frequency Response and Polar Pattern



--- Upper Element  
 - - - Lower Element

**Royer Labs**  
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