



# ROYER R-121

## Ribbon-Velocity Studio Microphone

The R-121 is a thoroughly modern ribbon microphone designed for today's studio and live environments, exhibiting a flat frequency response and well balanced, panoramic sound field. Its ability to withstand 135 dB SPL @ 30 Hz makes it ideal for applications that were previously considered off limits to ribbon microphones.

The R-121 was developed through relatively recent advancements in magnetics, materials and mechanical construction techniques. The ribbon element's smooth frequency response and phase linearity, coupled with sensitivity levels surpassing those of "classic" ribbons, make this microphone an ideal choice for digital recording. The R-121 delivers a consistent, natural acoustical performance with stunning realism. Widely used on electric guitars, brass instruments and drums, the R-121's figure-8 pattern also conveys superb ambiance and depth when used for room miking applications, orchestral and choral recordings.

The heart of the R-121 is its low mass, 2.5-micron, pure (99.99%) aluminum ribbon element. The R-121's unique, patented offset-ribbon transducer assembly incorporates rare earth Neodymium magnets in a specially designed flux-frame, which forms a powerful magnetic field while reducing unwanted stray magnetic radiation.

The R-121's offset-ribbon design positions the ribbon element towards the front of the microphone body, which allows for higher SPL handling on the front (logo) side and the option of a brighter response when recording lower SPL sound sources on the back side (3 feet and closer; phase reversed in this position).

### R-121 FEATURES

- High SPL capabilities for electric guitar and percussion
- No internal active electronics to overload or produce distortion up to maximum SPL rating
- Extremely low residual noise
- Ribbon element unaffected by heat or humidity
- Absence of high frequency peaks, "ringing" and phase shifts
- Equal sensitivity from front or back of element
- Gold plated XLR contacts

### RECOMMENDED APPLICATIONS

- Close miking
- Electric & acoustic guitar
- Drum overheads, kick drum (see manual for position), room miking
- Percussion instruments
- Brass, horn sections
- Strings - solo & sections
- Acoustic piano
- Vocals
- Live events – recording and sound reinforcement



Actual size

# ROYER R-121

## Technical Specifications

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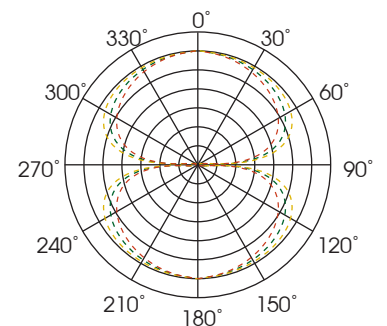
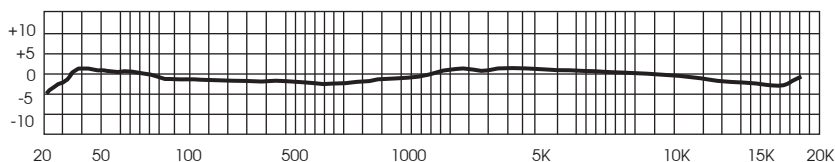
Optional Matte Black Finish

<b>Acoustic Operating Principle</b>	Electrodynamic pressure gradient
<b>Polar Pattern</b>	Figure-8
<b>Generating Element</b>	2.5-micron aluminum ribbon
<b>Magnets</b>	Rare Earth Neodymium
<b>Frequency Response</b>	30 - 15,000 Hz $\pm$ 3dB
<b>Sensitivity</b>	-47 dB (re. 1v/pa)
<b>Output Impedance</b>	300 Ohms @ 1K (nominal)
<b>Rated Load Impedance</b>	1500 Ohms
<b>Maximum SPL</b>	135 dB @ 20 Hz
<b>Output Connector</b>	Male XLR 3-pin (Pin 2 Hot)
<b>Dimensions</b>	156mm L X 25mm W (6.25" L X 1" W)
<b>Weight</b>	244g (8.6 oz )
<b>Finish</b>	Dull Satin Nickel / Matte Black Chrome (optional)
<b>Accessories</b>	Protective wood case, mic sock
<b>Optional Accessories</b>	Pop screen, shock mount
<b>Microphone Warranty</b>	Lifetime to original owner (repair or replace at Royer's option)
<b>Ribbon Element Warranty</b>	First re-ribbon free to original owner within first year of purchase

Matched pairs are available at extra charge

## Frequency Response and Polar Pattern

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--- 200Hz  
 - - - 1kHz  
 . . . 10kHz

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