



# ROYER R-121

## Ribbon-Velocity Studio Microphone

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The R-121 is a thoroughly modern ribbon microphone designed to meet the demands of today's studio environment, exhibiting a flat frequency response and well-balanced, panoramic soundfield. Its ability to withstand >135 dB SPL makes it useful for applications that were previously considered off limits to ribbon microphones.

Developments in magnetics, materials and mechanical construction have made the R-121 possible. The ribbon element's smooth frequency response and phase linearity, coupled with sensitivity levels surpassing those of "classic" ribbons, make the R-121 an ideal choice for digital recording. The R-121 delivers a consistent, natural acoustical performance with stunning realism. Its figure-8 pattern delivers superb ambience when used for room miking applications, orchestral and chorale recordings.

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

The R-121's offset-ribbon transducer positions the ribbon element towards the front of the transducer. This allows for higher SPL handling on the front (logo) side and, with phase reversed, a brighter response when recording on the back side within the proximity range (3 feet and closer).

### R-121 FEATURES:

- High SPL Capabilities
- No internal active electronics to overload or produce distortion up to maximum SPL rating
- Extremely low residual noise
- Ribbon element is not affected by heat or humidity
- Absence of high frequency phase distortion
- Equal sensitivity from front or back of element
- Consistent frequency response regardless of distance

### RECOMMENDED APPLICATIONS:

- Close miking
- Electric & Acoustic Guitar
- Drum overheads, kick drum (at one foot or further), room miking
- Percussion Instruments
- Brass - Horn Sections
- Strings - String Sections
- Acoustic Piano, Harp, etc.
- Vocals, Commercial Broadcast, Voice Overs
- Live Events - Direct to DAT recordings



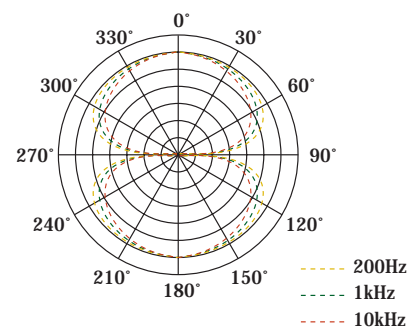
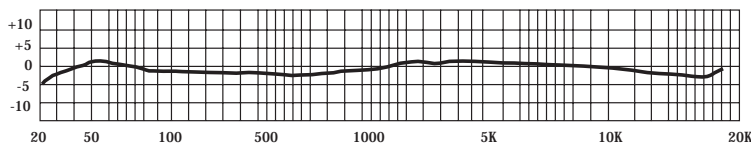
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## Technical Specifications

Acoustic Operating Principle	Electrodynamic pressure gradient
Polar Pattern	Figure-8
Generating Element	2.5-micron aluminum ribbon
Magnets	Rare Earth Neodymium
Frequency Response	30 - 15 000 Hz $\pm$ 3dB
Sensitivity	-50 dBv Re. 1v/pa
Output Impedance	300 Ohms @ 1K (nominal)
Rated Load Impedance	>1500 Ohms
Maximum SPL	>135dB
Output Connector	Male XLR 3 pin (Pin 2 Hot)
Dimensions	158mm L, 25mm W (6.25" L, 1" W)
Weight	244g (8.6 oz )
Finish	Dull Satin Nickel/Matte Black Chrome (optional)
Accessories	Protective wood case, mic clip, protective mic sock
Optional Accessories	Pops creen, shock mount
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

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