ROYER R-122

Active Ribbon-Velocity Studio Microphone

The R-122 is a compact, monaural, phantom powered ribbon microphone - the first ribbon microphone of its kind. Sonically similar to our R-121, the R-122 exhibits a flat frequency response and a well balanced, panoramic soundfield, but it has 15 dB more sensitivity, faster transient response and utilizes our proprietary *z-match* impedance matching technology. Like the R-121, its ability to withstand high SPL's makes it useful for applications that were previously considered off limits to ribbon microphones.

Actual size

The R-122's active electronics produce an output comparable to studio condenser microphones. In addition, its z-match feature provides an optimum impedance to the ribbon element at all times, preventing overdamping of the ribbon element and assuring consistent microphone performance. The high gain and low output impedance of the R-122 allow it to operate with any microphone preamplifier with phantom power, including those of nominal gain and input impedance characteristics. It is also well suited for use with long cable runs.

The R-122 utilizes a pure (99.99%), low mass, 2.5-micron thick aluminum ribbon. Its 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 smooth frequency response and phase linearity of the R-122, coupled with its sophisticated active electronics system, enable the R-122 to deliver a consistent natural acoustic performance with stunning realism. Frequency response is excellent regardless of the angle of sound striking the ribbon, and off-axis coloration is negligible.

The R-122's offset-ribbon design positions the ribbon element toward the front of the transducer, which allows for high SPL handling on the front (logo) side and a slightly brighter response (within the proximity range) when recording lower SPL sound souces on the back side.

R-122 FEATURES

- Active electronics provide high output capability and extremely low self noise
- *z-match* technology provides optimal impedance to the ribbon element and a low impedance output
- Operates from standard 48-volt simplex power
- High SPL capabilities
- Absence of high frequency distortion
- Ribbon element unaffected by heat or humidity
- Equal sensitivity from front and back of element
- Consistent frequency response regardless of distance to sound source
- Very low magnetic leakage

RECOMMENDED APPLICATIONS

- Close and Distant Miking
- Electric and Acoustic Guitar
- Vocals, Commercial Broadcast, Voiceover
- Brass - Horn Sections
- Drum Overheads, Kick Drum (at 18 inches or further), Room Miking
- Percussion Instruments
- Strings - String Sections
- Acoustic Piano
- Live Events

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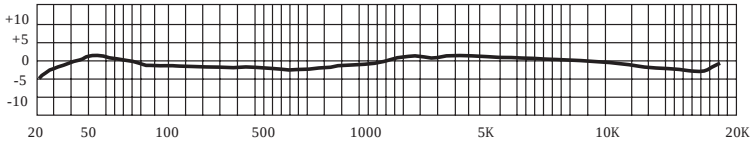
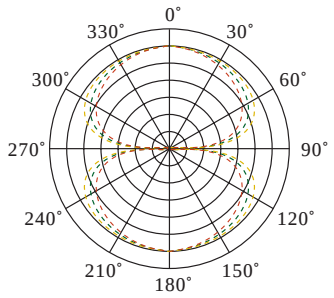
Technical Specifications

Acoustic Operating Principle	Electrodynamic pressure gradient with active electronics.
Polar Pattern	Symmetrical figure-8
Generating Element	2.5-micron aluminum ribbon
Magnets	Rare Earth Neodymium
Frequency Response	30-15000 HZ ±3 dB
Sensitivity	-39 dB (referenced 1v/pa ±1dB)
Self-Noise	< 20 dB
Output Impedance	200 Ohms, balanced
Output Connector	Male XLR 3-Pin (Pin 2 Hot)
Rated Load Impedance	> 1K-Ohm
Maximum SPL	> 135 dB
Power Requirements	48-Volt Phantom Only
Supply Current	4 mA
Dimensions	206mm L X 25mm W (8 1/8" L X 1" W)
Weight	309 grams (10.9 oz)
Finish	Burnished Satin Nickel / Matte Black Chrome optional
Accessories	Protective wood case, protective mic sock
Optional Accessories	Wind screen, 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





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