



ROYER R-101

Ribbon-Velocity Studio Microphone

The R-101 is a new breed of modern ribbon microphone designed for today's studio and live environments, exhibiting a flat frequency response and a well balanced, panoramic soundfield. Its ability to withstand 135dB SPL @ 30Hz makes it ideal for applications that were previously off limits to ribbon microphones.

The R-101 incorporates many advancements pioneered by Royer Labs, including multi-layered wind screening for superior protection from air blasts and plosives. The screening also provides reduced proximity effect, allowing for closer miking with less bass buildup. The ribbon element's smooth frequency response and phase linearity, coupled with sensitivity levels surpassing those of "classic" ribbon microphones, make this microphone ideal for digital recording. A perfect choice for electric guitars, brass instruments and drums, the R-101's figure-8 pattern also conveys superb ambience and depth when used for room miking applications.

The R-101 incorporates Royer's patented offset-ribbon technology and a low mass, 2.5-micron aluminum (99.9% pure) ribbon element. The motor assembly's flux-frame and rare earth Neodymium magnets create a powerful magnetic field which increases sensitivity while reducing stray magnetic radiation.

The R-101'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-101 FEATURES

- High SPL capabilities for electric guitar and percussion
- Multi-layered wind screen provides superior protection to ribbon element
- No internal 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 peaks, "ringing" and phase shifts
- Equal sensitivity from front or back of element

RECOMMENDED APPLICATIONS

- Close miking
- Electric & acoustic guitars
- 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-101

Technical Specifications

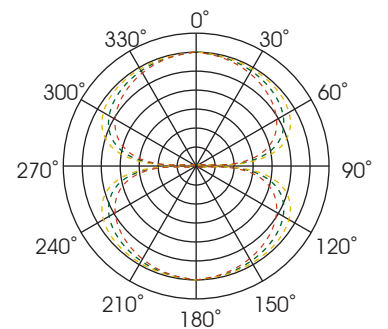
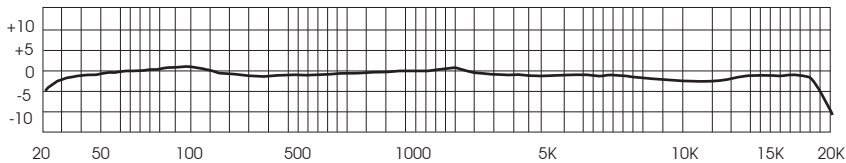


Acoustic Operating Principle	Electrodynamic pressure gradient
Polar Pattern	Figure-8
Generating Element	2.5-micron aluminum ribbon
Magnets	Rare Earth Neodymium
Frequency Response	30 - 15,000 Hz \pm 3dB
Sensitivity	-48 dB (re. 1v/pa)
Output Impedance	300 Ohms @ 1kHz (nominal)
Maximum SPL	135 dB @ 30 Hz
Rated Load Impedance	1500 Ohms (or greater)
Output Connector	Male XLR 3-pin (Pin 2 Hot)
Dimensions	200mm L X 36mm W (7.9" L X 1.4" W)
Weight	483g (17 oz)
Weight with case	4.2 Kg (3 lbs)
Finish	Matte Black
Accessories	Shock mount, carrying case, mic sock
Optional Accessories	Pop screen
Microphone Warranty	Lifetime to original owner (repair or replace at Royer's option)
Ribbon Element Warranty	One Year

Matched pairs are available at extra charge



Frequency Response and Polar Pattern



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

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