



# 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.

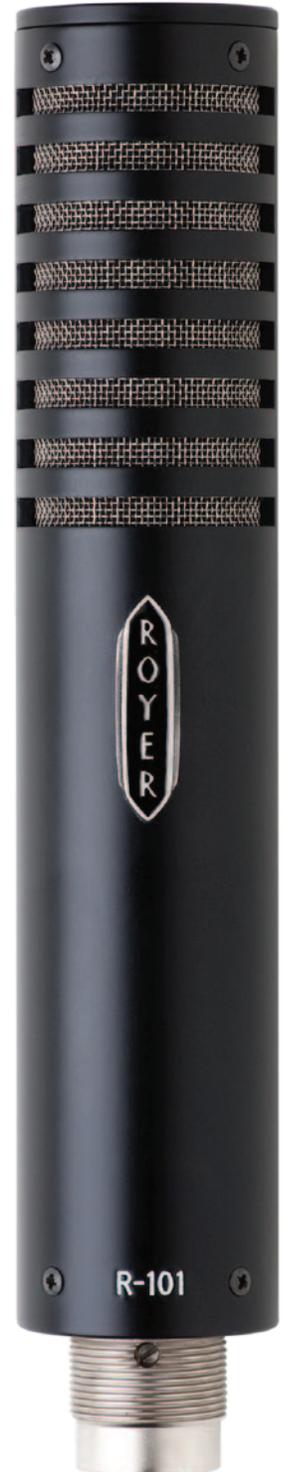
The R-101's offset-ribbon design positions the ribbon element towards the front of the microphone body, which allows for higher SPL handling on the front (logo) side and the option of a brighter response when recording lower SPL sound sources on the back side (3 feet and closer; phase reversed in this 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

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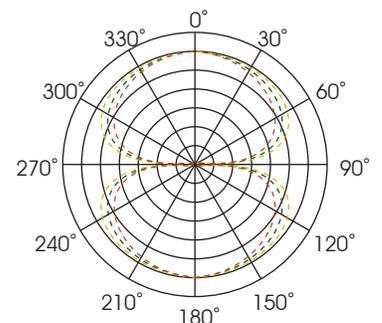
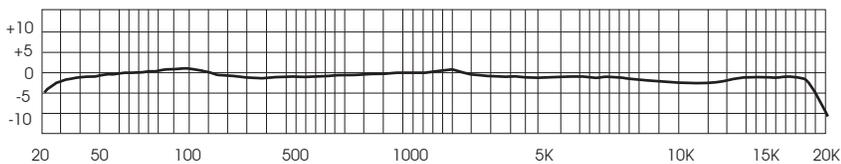
<b>Acoustic Operating Principle</b>	Electrodynamic pressure gradient
<b>Polar Pattern</b>	Figure-8
<b>Generating Element</b>	2.5-micron aluminum ribbon
<b>Magnets</b>	Rare Earth Neodymium
<b>Frequency Response</b>	30 - 15,000 Hz $\pm$ 3dB
<b>Sensitivity</b>	-48 dB (re. 1v/pa)
<b>Output Impedance</b>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

Matched pairs are available at extra charge



## Frequency Response and Polar Pattern

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

Patent Number: 6,434,252

**Royer Labs**  
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