



## Model: R102

### Aluminum Ribbon Microphone Specification Sheet



#### Description

The R102 is an active aluminum ribbon microphone designed for the recording studio. It features the high sensitivity of a condenser microphone, yet exhibits the smoother frequency response and excellent transient response of a ribbon microphone. The speed response of a ribbon mic is optimal among all types of microphones.

The R102 active aluminum ribbon microphone consists of two parts: an electro-magnetic transducer and an impedance converting circuit. The electro-magnetic transducer applies a unique magnetic circuit field with a strong Nd magnet. The aluminum alloy ribbon, with a thickness of only 2.5 microns, is suspended between two poles and vibrates in synchrony with the incoming acoustical energy (sound waves). Due to the extremely low mass of the ribbon, the transducer of this microphone boasts a premium transient response in converting acoustic energy into electronic signals. Whether at low / high frequencies or low / high sound pressure levels, the R102 delivers a precise reproduction of the original sound.

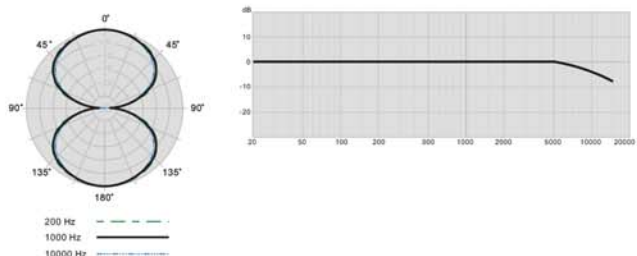
#### Features

- ♦ Wide and extended frequency response.
- ♦ High sensitivity, wide dynamic range, low distortion and decreased noise
- ♦ Stable performance regardless of ambient temperature or humidity
- ♦ Figure 8 polar pattern with identical sensitivity at the front and back
- ♦ Easy field replaceable modular ribbon assembly

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##### Specifications

Type:	Aluminum ribbon
Element:	Active pressure gradient electro-magnetic transducer
Diaphragm:	Aluminum ribbon of 2.5 micron
Magnet:	Strong Nd
Polar pattern:	Fig. 8
Frequency response:	20~15,000 Hz
Sensitivity:	-40dBV/Pa (10 mV/Pa) at 1,000Hz
Output impedance:	250 $\Omega$ $\pm$ 20% at 1,000Hz
Rated load impedance:	>1,000 $\Omega$
Max. SPL:	>140dB
Equivalent noise level:	<20dB
Power supply:	48V phantom power only
Current drain:	4mA
Connector:	3-pin XLR-Male type
Dimension:	57mm x 37mm x 195mm(h)
Net weight:	500g



#### Applications

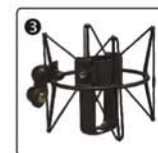
- Miking of sound sources, both distant and close range.
- Miking of electric or acoustic guitars.
- Reinforcement and recording of vocals.
- Miking of brass instruments.
- Miking of tom-tom and kick drums.
- Miking of percussion instruments.
- Miking of stringed instruments.
- Miking of acoustic piano.
- Live broadcasting.

#### Accessories included

- One 7.5mm - 6 M two-core shielded cable ①,
- one stand adaptor ②

#### Optional Accessories

- HM-31 shock mount ③



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