

## General Description

The VP82 is a professional shotgun microphone for use in sound capture and reinforcement. Compact and lightweight, with wide aperture and excellent off-axis rejection, the VP82 is the affordable and reliable choice for camera-mounted A/V media production applications.

## Features

- Premier production microphone crafted with Shure quality, ruggedness, and reliability
- Highly directional, uniform polar pattern optimized for distant pickup
- Low self-noise and high output level
- Lightweight, compact design accommodates prolonged operation, minimizing operator fatigue attributed to many shotgun microphones
- Class A, discrete, transformerless preamplifier provides transparent, extremely fast transient response with no crossover distortion and minimal harmonic and intermodulation distortion
- Aircraft-grade aluminum alloy construction resists wear and abuse
- Operates over a wide range of temperatures and humidity

## Rycote Custom Accessories

Shure offers custom Rycote® suspension mounting and wind-protection solutions designed for Shure VP shotgun microphones.

## Wind-Protection

Use the supplied foam windscreen to reduce wind-noise. For increased protection, Shure offers two premium Rycote® windshield accessories:

- **Softie Windshield:** Attenuates up to 25 dB of wind-noise.
- **Suspension Windshield Kit:** Attenuates up to 38 dB of wind-noise while preserving critical high frequencies. Included Lyre suspension mounts provide up to 25 dB of isolation.

## Suspension Mounts

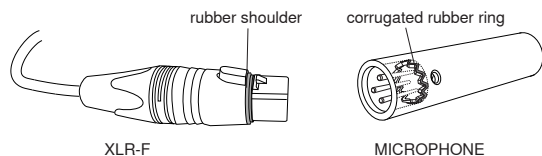
Shure offers four Rycote® Softie Lyre Mounts to reduce handling noise and low-frequency vibrations by up to 15 dB:

- **InVision Video:** Secures directly onto standard camera shoe.
- **Camera Clamp Adapter (CCA):** Fits into a standard camera clamp.
- **Pistol Grip:** Adjustable handheld mount.

**Note:** All Softie Lyre Mounts (except InVision Video) are equipped with 3/8" and 5/8" female threaded adapters for additional mounting options.

## XLR Connector Gasket

This microphone is supplied with a small corrugated rubber ring in the XLR connector to absorb the mechanical slack between the microphone and cable. Many high-end cables are made with a rubber shoulder on the XLR-F for the same purpose. When connecting this microphone to a cable with a rubber shoulder XLR-F connector, remove the corrugated rubber ring from the microphone to ensure a proper fit.



## Load Impedance

Maximum SPL capability, output clipping level, and dynamic range vary with the input load impedance of the preamplifier to which the microphone is connected. Shure recommends a minimum input load impedance of 1000 Ohms. Most modern microphone preamplifiers meet this requirement. Higher impedance results in better performance for these specifications.

## Power Requirements

This microphone requires phantom power and performs best with a 48 V DC supply (IEC-61938), but it can operate with supplies as low as 11 V DC. Most modern mixers provide phantom power and require the use of a **balanced** microphone cable: XLR-to-XLR or XLR-to-TRS.

## Specifications

<b>Cartridge Type</b>	Electret Condenser	
<b>Polar Pattern</b>	Supercardioid/lobar	
<b>Frequency Response</b>	90 to 20,000 Hz	
<b>Output Impedance</b>	144 $\Omega$	
<b>Sensitivity</b> open circuit voltage, @ 1 kHz, typical	-36.0 dBV/Pa <sup>[1]</sup> (15.8 mV)	
<b>Maximum SPL</b> 1 kHz at 1% THD <sup>[2]</sup>	<b>2500 <math>\Omega</math> load:</b>	137.5 dB SPL
	<b>1000 <math>\Omega</math> load:</b>	131.5 dB SPL
<b>Signal-to-Noise Ratio<sup>[3]</sup></b>	79 dB	
<b>Dynamic Range</b> @ 1 kHz	<b>2500 <math>\Omega</math> load:</b>	122.5 dB
	<b>1000 <math>\Omega</math> load:</b>	116.5 dB
<b>Clipping Level</b> @ 1 kHz, 1% THD	<b>2500 <math>\Omega</math> load:</b>	7.0 dBV
	<b>1000 <math>\Omega</math> load:</b>	0.0 dBV
<b>Self Noise</b> equivalent SPL, A-weighted, typical	15.0 dB SPL-A	
<b>Common Mode Rejection</b> 20 to 20,000 Hz	$\geq 55$ dB	
<b>Operating Temperature Range</b>	-18°C (0°F) to 57°C (135°F)	
<b>Storage Temperature Range</b>	-29°C (-20°F) to 74°C (165°F)	
<b>Operating Relative Humidity</b>	0 to 95%	
<b>Polarity</b>	Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3	
<b>Housing</b>	Satin-black vinyl painted aluminum alloy with stainless steel screen	
<b>Power Requirements</b>	11–52 V DC <sup>[4]</sup> phantom power (IEC-61938), <2.0 mA	
<b>Net Weight</b>	76 g (2.7 oz.)	

<sup>[1]</sup> 1 Pa=94 dB SPL

<sup>[2]</sup>THD of microphone preamplifier when applied input signal level is equivalent to cartridge output at specified SPL

<sup>[3]</sup>S/N ratio is the difference between 94 dB SPL and equivalent SPL of self noise, A-weighted

<sup>[4]</sup>All specifications measured with a 48 Vdc phantom power supply. The microphone operates at lower voltages, but with slightly decreased headroom and sensitivity.