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

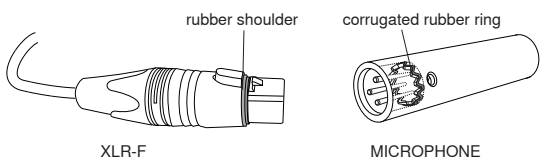
Shure offers four Rycote® Softie Lyre Mounts to reduce handling noise and low-frequency vibrations by up to 15 dB:

- **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

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

[1] 1 Pa=94 dB SPL

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

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

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