

# SHURE®

LEGENDARY  
PERFORMANCE™

WIRED MICROPHONE

## VP89

VP89L  
VP89M  
VP89S

Modular Shotgun Microphone  
Microphone canon modulaire  
Modulares Richtrohrmikrofon  
Micrófono de cañón modular  
Microfono shotgun modulare  
Модульный линейный микрофон  
モジュールショットガンマイクロホン  
Modular Shotgun 마이크  
模块化短枪式话筒



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Printed in U.S.A.  
27A22326 (Rev. 2)

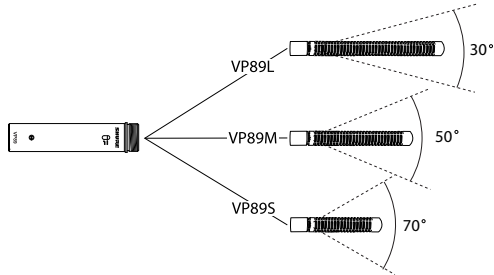
## General Description

The VP89 is a professional shotgun microphone for use in critical A/V media production applications. Designed with interchangeable long, medium and short capsules, the VP89 models provide scalable, superior off-axis rejection for focus and flexibility in a wide variety of on-site locations.

## Variations

The VP89 is available with long, medium, and short capsules in three model variations: **VP89L**, **VP89M**, and **VP89S**.

The VP89 microphone has a tighter acceptance angle (is more directional) when used with longer capsules, as shown in the graphic below.



## Features

- Premier production microphone crafted with Shure quality, ruggedness, and reliability
- Highly directional, uniform polar pattern optimized for distant pickup
- Modular design allows optimal performance in a wide variety of production settings
- Designed for extremely low susceptibility to radiated and conducted hum, GSM, and radio frequency interference (RFI)
- Superior common mode rejection
- Low self-noise and high output level
- Class A, discrete preamplifier provides transparent, extremely fast transient response with no crossover distortion and minimal harmonic and intermodulation distortion
- Selectable low-frequency response
- Lightweight, compact design accommodates prolonged operation, minimizing operator fatigue attributed to many shotgun microphones
- Aircraft-grade aluminum alloy construction resists wear and abuse
- Operates over a wide range of temperatures and humidity

## Selecting Low-Frequency Response

A two-position switch on the preamplifier adjusts the low-frequency response. Use the low-frequency filter to reduce room noise or proximity effect.

- **Normal response:** Provides the most natural sound in most applications.
- ▾ **Low-frequency rolloff:** Provides a 12 dB-per-octave rolloff below the specified frequency for each model (see product specifications). Reduces floor rumble and low-frequency room noise from heating and air conditioning systems.

## Changing Capsules

1. Turn off phantom power supplied to the microphone.
2. Unscrew the capsule from the preamplifier. Store the unused capsule with its protective cap (included with the purchase of additional capsules).
3. Thread the replacement capsule to the preamp. Do not overtighten.

**Note:** Before each use, ensure the capsule is tightly secured to the preamp to prevent signal loss during operation.

## Compatibility

The VP89 is designed for forward and backward compatibility with Shure SM89 shotgun microphones. Capsules and preamplifiers can interchange seamlessly between the two models.

## Rycote Custom Accessories

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

### Wind Protection

Use the supplied windscreens to reduce wind-noise. For increased protection, Shure offers two premium Rycote® wind protection 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

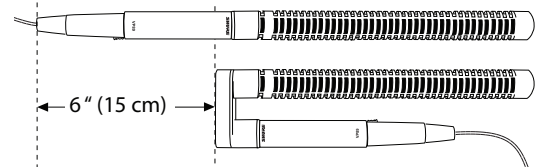
Shure offers four Rycote® Softie Lyre Mounts to reduce handling noise and low-frequency vibrations up to 15 dB:

- **InVision Video:** Secures to a standard camera shoe; for VP89S and VP89M
- **Camera Clamp Adapter (CCA):** Fits into a standard camera clamp; for VP89S, VP89M
- **Pistol Grip:** Adjustable handheld mount; for VP89S, VP89M
- **Boom Adapter:** Secures to a boom pole; for VP89L

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

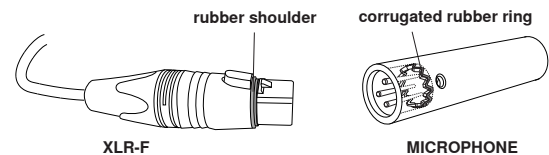
## A89U Double-Barrel Adapter

The A89U adapter routes the VP89 preamp and cable connection beneath the capsule, shortening the length of the microphone by up to 6" (150 mm). Use the adapter to make a highly directional microphone in a compact form-factor.



## 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.

**Note:** Information in this guide is subject to change without notice. For additional information about this product, please visit [www.shure.com](http://www.shure.com).

## Specifications

<b>Cartridge Type</b>	Electret Condenser		
<b>Polar Pattern</b>	Hypercardioid/Lobar		
<b>Frequency Response</b>	<b>VP89L:</b> 40 to 20,000 Hz	<b>VP89M:</b> 50 to 20,000 Hz	<b>VP89S:</b> 65 to 20,000 Hz
<b>Output Impedance</b>	115.0 $\Omega$		
<b>Sensitivity</b> open circuit voltage, @ 1 kHz, typical	-33.5 dBV/Pa <sup>[1]</sup> (21.1 mV)		
<b>Maximum SPL</b> 1 kHz at 1% THD <sup>[2]</sup>	<b>2500 <math>\Omega</math> load:</b>	132.0 dB SPL	
	<b>1000 <math>\Omega</math> load:</b>	128.5 dB SPL	
<b>Signal-to-Noise Ratio<sup>[3]</sup></b>	79.0 dB		
<b>Dynamic Range</b> @ 1 kHz	<b>2500 <math>\Omega</math> load:</b>	117.0 dB	
	<b>1000 <math>\Omega</math> load:</b>	113.5 dB	
<b>Clipping Level</b> @ 1 kHz, 1% THD	<b>2500 <math>\Omega</math> load:</b>	4.0dBV	
	<b>1000 <math>\Omega</math> load:</b>	0.0dBV	
<b>Self Noise</b> equivalent SPL, A-weighted, typical	15.0 dB		
<b>Common Mode Rejection</b> 20 to 20,000 Hz	$\geq 70.0$ dB		
<b>Low-Frequency Filter Switch</b> -12 dB/oct below specified frequency	<b>Fiat Response:</b> 100 Hz <b>Low Frequency Rolloff:</b> 200 Hz		
<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>	Charcoal-grey metallic painted aluminum alloy handle and grille 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>	<b>VP89L:</b> 174 g (6.1 oz.)	<b>VP89M:</b> 138 g (4.9 oz.)	<b>VP89S:</b> 117 g (4.1 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.

## CERTIFICATION

Eligible to bear CE Marking. Conforms to European EMC Directive 2004/108/EC. Meets Harmonized Standards EN55103-1:1996 and EN55103-2:1996, for residential (E1) and light industrial (E2) environments.

The Declaration of Conformity can be obtained from:

Authorized European representative:  
Shure Europe GmbH  
Headquarters Europe, Middle East & Africa  
Department: EMEA Approval  
Jakob-Dieffenbacher-Str. 12  
75031 Eppingen, Germany  
Phone: +49 7262 92490  
Fax: +49 7262 9249114  
Email: info@shure.de

## Caractéristiques

<b>Type de capsule</b>	Condensateur à électret		
<b>Courbe de directivité</b>	Superniere/keulenförmig		
<b>Réponse en fréquence</b>	<b>VP89L :</b> 40 à 20,000 Hz	<b>VP89M :</b> 50 à 20,000 Hz	<b>VP89S :</b> 65 à 20,000 Hz
<b>Impédance de sortie</b>	115,0 $\Omega$		
<b>Sensibilité</b> tension en circuit ouvert, à 1 kHz, typique	-33,5 dBV/Pa <sup>[1]</sup> (21,1 mV)		
<b>SPL maximum</b> 1 kHz avec DHT de 1 % <sup>[2]</sup>	<b>Charge de 2500 <math>\Omega</math> :</b>	132,0 dB SPL	
	<b>Charge de 1000 <math>\Omega</math> :</b>	128,5 dB SPL	
<b>Rapport signal/bruit<sup>[3]</sup></b>	79,0 dB		
<b>Plage dynamique</b> à 1 kHz	<b>Charge de 2500 <math>\Omega</math> :</b>	117,0 dB	
	<b>Charge de 1000 <math>\Omega</math> :</b>	113,5 dB	
<b>Niveau d'écrêtage</b> à 1 kHz, DHT de 1 %	<b>Charge de 2500 <math>\Omega</math> :</b>	4,0 dBV	
	<b>Charge de 1000 <math>\Omega</math> :</b>	0,0 dBV	
<b>Bruit propre</b> équivalent SPL, pondéré en A, typique	15,0 dB		
<b>Rejet en mode commun</b> 20 à 20,000 Hz	$\geq 70,0$ dB		
<b>Commutateur de filtre basse fréquence</b> -12 dB/oct en dessous de la fréquence spécifiée	<b>Linearer Frequenzgang :</b>	100 Hz	
	<b>Bassabsenkungs- Rolloff :</b>	200 Hz	
<b>Plage de températures de fonctionnement</b>	-18°C (0°F) à 57°C (135°F)		
<b>Plage de températures de stockage</b>	-29°C (-20°F) à 74°C (165°F)		
<b>Humidité relative de fonctionnement</b>	0 à 95%		
<b>Polarité</b>	Une pression acoustique positive sur le diaphragme produit une tension positive sur la broche 2 par rapport à la broche 3.		
<b>Boîtier</b>	Anthrazitgrau-metallisch-lackierter Griff aus Aluminiumlegierung und Grill mit Edelstahl-Abschirmung		
<b>Alimentation</b>	11–52 V c.c. <sup>[4]</sup> alimentation fantôme (IEC-61938), <2,0 mA		
<b>Poids net</b>	<b>VP89L :</b> 174 g (6,1 oz)	<b>VP89M :</b> 138 g (4,9 oz)	<b>VP89S :</b> 117 g (4,1 oz)

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

<sup>[2]</sup>La DHT du préamplificateur du microphone appliquée au niveau du signal d'entrée est équivalente au niveau de sortie de la capsule pour la valeur SPL spécifiée.

<sup>[3]</sup>Le rapport signal/bruit est la différence entre le niveau SPL de 94 dB et le niveau SPL équivalent du bruit propre pondéré A.

<sup>[4]</sup>Toutes les caractéristiques techniques ont été mesurées avec une source d'alimentation fantôme de 48 V c.c. Le microphone fonctionne à des tensions plus basses mais au prix d'une plage dynamique et d'une sensibilité légèrement réduites.

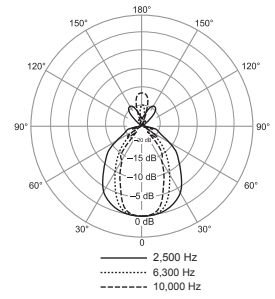
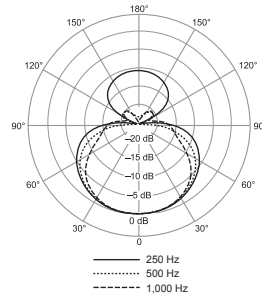
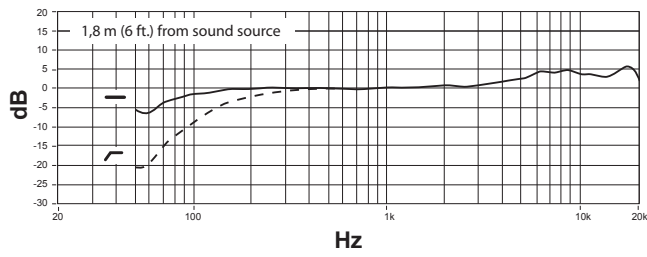
## Homologations

Autorisé à porter la marque CE. Conforme à la directive européenne CEM 2004/108/CE. Conforme aux normes harmonisées EN55103-1:1996 et EN55103-2:1996 pour les environnements résidentiels (E1) et d'industrie légère (E2).

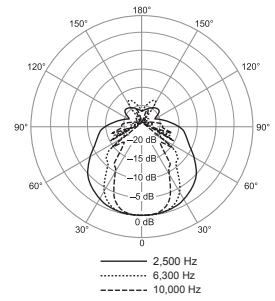
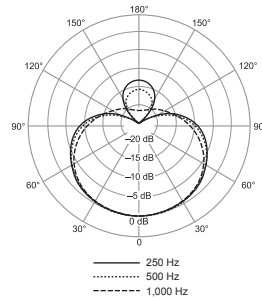
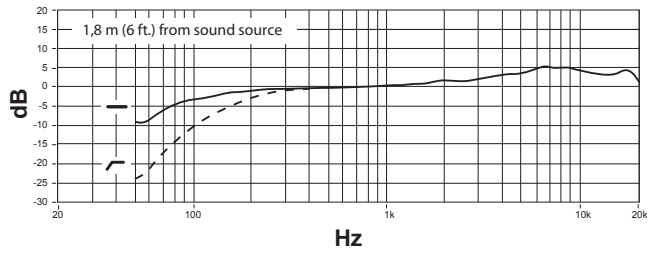
La déclaration de conformité CE peut être obtenue auprès de : [www.shure.com/europe/compliance](http://www.shure.com/europe/compliance)

Représentant agréé européen :  
Shure Europe GmbH  
Siège Europe, Moyen-Orient et Afrique  
Service : Homologation EMA  
Jakob-Dieffenbacher-Str. 12  
75031 Eppingen, Allemagne  
Téléphone : +49 7262 92490  
Télécopie : +49 7262 9249114  
Courriel : info@shure.de

## VP89L



## VP89M



## VP89S

