

VMS-1080

STEREO DSLR/VIDEO
MICROPHONE



POLSEN™

PRODUCT
MANUAL

THANK YOU FOR CHOOSING POLSEN.

The Polsen VMS-1080 is a stereo X/Y condenser microphone that delivers broadcast quality stereo sound to your DSLR camera, video camera, or audio recorder. This microphone provides greater control of your audio than the internal mics on DSLR cameras, video cams, or digital recorders.

The VMS-1080's high signal-to-noise ratio and excellent sensitivity assure superb, clean, and true stereo sound for live action, interviews, and documentaries.

The VMS-1080 is equipped with an adjustable attenuation button (-10 dB, 0 dB) to prevent distortion from audio overload, and a two-step high-pass filter to roll off unwanted low-frequency noise or rumble. It includes a foam windscreen and a fur wind-cover for added protection from wind noise.

STEREO
DSLR/VIDEO
MICROPHONE
VMS-1080



The rugged ABS construction and shock mounting assures that sudden movements won't interfere with recording.

Among the benefits you'll enjoy:

- X/Y condenser microphone for broadcast-quality stereo sound
- Two-step high-pass filter to eliminate unwanted low frequencies
- -10 dB pad to prevent audio distortion
- Integrated shock mount to prevent noise from moving or handling the microphone
- Two wind screen designs to decrease wind noise
- 3.5 mm plug compatible with many makes and brands of DSLR cameras, video cameras and audio recorders

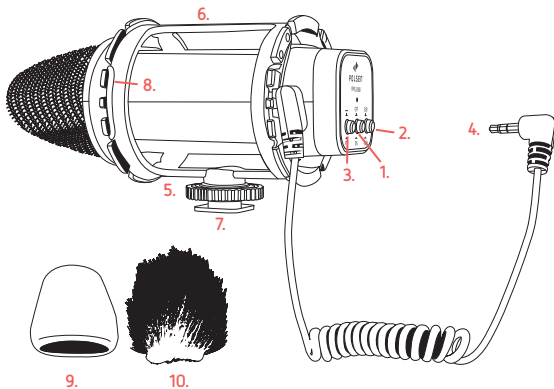


PRECAUTIONS ⚠

- Please read and follow these instructions and refer to this manual in case of questions. Keep this manual in a safe place.
- Keep product away from water and flammable gasses or liquids.
- Do not attempt to disassemble or repair this product yourself.
- Handle this product with care.
- Clean this product with a soft, dry cloth.
- Before use, make sure this product is intact and that there are no missing parts.
- All diagrams are for illustrative purposes only. Your product may look slightly different.
- Do not leave the batteries in this product for long periods of non-use. Batteries can leak and damage the microphone.

OVERVIEW

1. Power button
2. Pad (-10 dB/0 dB) button
3. High-pass filter button
4. 3.5 mm mini jack connector
5. Locking collar
6. Shock mount
7. Mounting foot with 1/4"-20 threaded socket
8. Suspension bands
9. Foam windscreen
10. Fur wind-cover



INSTALLING BATTERIES

The VMS-1080 is powered by two AAA batteries. Battery life is approximately 100 hours of operating time.

1. Remove the battery compartment cover by rotating the shock mount until the battery compartment is visible.
2. Insert a small flat-head screwdriver into the top slot of the battery compartment and gently pop the cover open.
3. Insert two AAA batteries, making sure they are properly oriented.
4. Slide the cover back into position.



MOUNTING THE VMS-1080

Shoe Mount

The VMS-1080 has a mounting foot and locking collar below the shock mount of the microphone for attaching to a camera's shoe mount.

To attach to a camera:

1. Make sure the locking wheel is fully open (turned counter-clockwise.)
2. Securely hold the microphone and the camera.
3. Gently slide the microphone into the camera's shoe mount so that it is fully seated.
4. Tighten the locking wheel by turning clockwise until the microphone is securely in place.

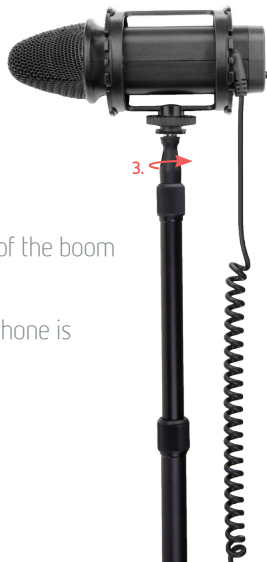


Mic Boom Pole or Tripod

The mounting foot of the VMS-1080 comes with a threaded 1/4"-20 socket for attaching to a boom pole.

To attach to a boom pole:

1. Make sure the power on the VMS-1080 is turned off.
2. Position the microphone so that the threaded post at the end of the boom pole is aligned with the threaded socket on the VMS-1080.
3. Screw the boom pole into the threaded socket until the microphone is secure.



Making the audio connection

In order to record with the VMS-1080, it must be connected to the camera or recorder.

1. Make sure the power on the VMS-1080 is turned off.
2. Connect the VMS-1080 by plugging the 3.5 mm mini-plug into the AUDIO IN jack of the camera or recorder.
3. If using a boom pole, you will need an extension cable (sold separately).



RECORDING WITH THE VMS-1080

Once the VMS-1080 is securely attached to the camera or recorder, turn the microphone on by pressing the POWER button to the ON position. The LED indicator will flash red and then stay green. The VMS-1080 is ready to go to work.

Audio Control Buttons:

There are three buttons on the back of the microphone:

Power

The POWER button must be in the ON position in order to record. When turned on, the LED will flash red, then change to green, which indicates normal operation. If the LED flashes and stays red, this indicates low batteries, and the batteries should be changed immediately.

Pad (-10 dB, 0 dB)

This attenuation button should be used if normal audio is overloading the recorder. If the sound is distorting, set the button to -10 dB. If normal audio is not distorting, leave the button at 0 dB.

High-Pass Filter (Flat/80Hz)

The high-pass filter will roll off low-end frequencies. If the microphone is recording too much rumble from room noise or is picking up too much machine sound from the camera or recorder, press the button in to activate HPF.

Set the Record Level on the Camera or Recorder:

One final step may be setting the record level of your camera or recorder.

Some DSLR and video camera models allow the user to access the recording level via the device's menus.



If you are setting the record level manually, set the level to 75% ($\frac{3}{4}$) of the loudest point (“peaks”) of the audio. Consult the manual of your camera or recorder for more information.

Tip: It is always advisable to do a test recording. Set audio levels prior to the shoot, and maintain them until the end of the take. Changing settings during recording will alter the consistency of the audio that is being recorded.

Using Windscreens

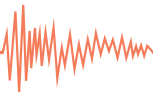
The VMS-1080 comes with two windscreens. You should always operate the microphone with one of them.

Foam Windscreen

The foam windscreen should be used for protection from noise caused by mild breezes.

Fur Wind-Cover

The fur wind cover should be used in stronger or gusting winds, and it can also be used for close-up microphone placement when recording speech or dialog.



SPECIFICATIONS

MICROPHONE Stereo X/Y condenser mic

FREQUENCY RANGE 30 Hz ~ 20 kHz

SIGNAL-TO-NOISE RATIO 76 dB

SENSITIVITY -33 dB \pm 3 dB / 0 dB=1V/Pa, 1 kHz

OUTPUT IMPEDANCE 200 Ohm or less

ADJUSTABLE SOUND ATTENUATION -10 dB, 0 dB

TWO-STEP HIGH-PASS FILTER Flat/80 Hz

OUTPUT CONNECTOR 3.5 mm mini-jack

OUTER CASE ABS Construction

BATTERY Two AAA alkalines (not included)

BATTERY LIFE Approximately 100 hrs.

DIMENSIONS 2.5" \times 6" (65 \times 151 mm)

WEIGHT (WITH BATTERIES) 5.1 oz. (146 g)



TROUBLESHOOTING

Problem	Solution
No sound is being recorded	<p>Make sure fresh AAA batteries are installed and are in the proper orientation in the battery compartment.</p> <p>Make sure the power button is in the "ON" position and the LED indicator is lit.</p> <p>Make sure the 3.5 mm mini jack is plugged into the correct AUDIO INPUT jack on the device to which you are recording.</p> <p>Make sure your video camera, DSLR camera, or audio recorder is in record mode and the record level is properly set if necessary.</p>
The sound is distorted	<p>Make sure the microphone's audio connection cable is fully plugged into your camera or recorder's audio input jack.</p> <p>Press the -10 dB, 0 dB button to the -10 dB position.</p> <p>If your camera or recorder has an audio input control, decrease the level of audio input until the meter reads at approximately 75% ($\frac{3}{4}$) of maximum volume.</p> <p>The microphone may be too close to the sound source. Reposition the microphone to a spot where you can still record a strong signal, but the sound will not overload your recorder.</p>

Problem	Solution
Too much ambience is being recorded	<p>When using a stereo X/Y microphone, the microphone may be picking up too much unwanted noise from the surrounding environment or from an empty room. This is a normal occurrence.</p> <p>Make sure the microphone is as close to the subject as possible.</p> <p>The record level on the video camera, DSLR camera, or recorder may be set too high. Turn down the record level to minimize the sound from everything except the subject.</p>
The sound is too low	<p>Position the -10 dB, 0 dB button to 0 dB.</p> <p>If your camera or recorder has an audio input control, increase the level of audio input until the meter reads at approximately 75% ($\frac{3}{4}$) of maximum volume.</p>
The Power LED stays red	<p>If the LED indicator stays red upon turning on the power, the batteries are running low. There is only a short amount of operating time left. The batteries should be changed immediately.</p>
The microphone is stuck in the camera's shoe mount	<p>Make sure the locking wheel is fully loosened.</p> <p>Important: the microphone should easily mount and dismount. Do not apply force by trying to pull the microphone off the camera. You could damage the microphone and the camera.</p>



ONE-YEAR LIMITED WARRANTY

Polsen provides a limited warranty to the original purchaser that this product is free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. Polsen's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at Polsen's discretion, of any product that fails during normal consumer use. Inoperability of the product or part(s) shall be determined by Polsen. If the product has been discontinued, we reserve the right to replace it with a model of equivalent quality and function.

To obtain warranty coverage, contact Polsen to obtain a return merchandise authorization ("RMA") number, and return the defective product to Polsen, along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, POLSEN MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

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