



SGM-250P

PROFESSIONAL SHOTGUN MICROPHONE

Owner's Manual

SAFETY CAUTION

- Do not take apart the microphone or modify it in any way. Doing so will void the warranty and could potentially cause fire or injury.
- Do not store or operate the microphone in environments of extreme temperature or near a heat source.
- Do not store or operate the microphone where it may be exposed to rain or any other source of moisture.

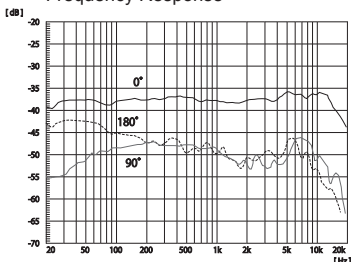
Product Highlights

- Newly developed electret condenser microphone element delivers the best sensitivity and lowest noise in its class
- Powered by standard 48V DC phantom power
- Custom designed acoustic tube with high precision phase canceling slots produces a flat frequency response with excellent directionality and wide dynamic range
- Switchable low-cut filter set at 160Hz for better attenuation of low frequency noise and 3dB/octave for smoother roll off
- Brass/aluminum alloy case for improved resistance to ambient RF and durability
- Gold plated, 3-pin XLR output connector for improved resistance to aging

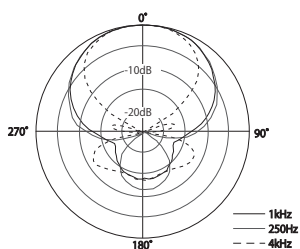
Specifications

Freq. Resp.:	20 Hz – 20 kHz
Low-Cut Filter:	Selectable @160 Hz, 3 dB/Oct
Polar Pattern:	Super-cardioid
Sensitivity:	-38 dB at 1 kHz (0 dB = 1 V/Pa)
Dynamic Range:	115 dB
Impedance:	120 Ω (at 1 kHz)
Max Input SPL:	132 dB SPL (1 kHz at 1% T.H.D.)
S/N Ratio:	77 dB (1 kHz at 1 Pa)
Power Req.:	DC 11-50 V Phantom
Output:	3-pin XLR
Dimensions:	200 mm x 21 mm (7.87" x 0.83") (Length x Diameter)
Weight:	90 g (3.2 oz)
Accessories:	Shock mount holder, windscreen & carrying pouch

Frequency Response



Polar Pattern



The Azden SGM-250P is a professional shotgun microphone designed for broadcast, news gathering and film making applications. The SGM-250P boasts all the same features and sound quality performance as the SGM-250 model, except that the SGM-250P operates on phantom power exclusively (no battery option).

Power

Phantom power is a DC voltage supplied through a balanced microphone cable and used to power the electronics of the connected microphone. Most professional cameras, mixers and audio interfaces with microphone XLR pre amps have the ability to supply phantom power. If the equipment you use does not, you will have to utilize a separate external phantom power supply.

Most commonly, phantom power is supplied at 48V. This is the optimum voltage for the SGM-250P. It is possible that your connecting equipment supplies a different voltage. The SGM-250P is rated to work on a voltage between 11 and 50V, however, performance will degrade with lower voltages and damage to the electronics could result when using voltages in excess of this range. It is recommended that you consult the manuals of any equipment you intend to use with the microphone beforehand. Please note that the warranty does not cover damage caused by using phantom power beyond what the microphone is rated for.

Low-Cut Filter

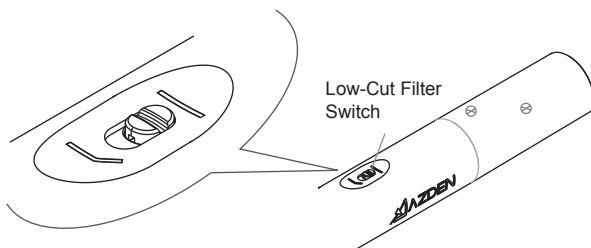
The SGM-250P is equipped with a switchable low-cut filter. Set at 160Hz with a 3dB/octave roll off, Azden engineers specifically designed the low-cut to be noticeably more effective at reducing low frequency ambient noise (caused by rumble, wind, HVAC systems, etc.) with a smoother and more natural sounding bass attenuation. This makes the low-cut filter also great for compensating for the natural low frequency boost that occurs when using the microphone up close (proximity effect).

The low-cut filter switch has two positions:

— Flat position (low-cut filter off)

⎓ Low-cut filter on

* Do not operate the low-cut switch while recording as doing so may cause noise.



The SGM-250P comes with a shock-mount and foam windscreen.

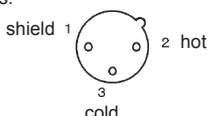


Shock absorbing camera-mount mic clip (SMH-2)



High quality foam windscreen (WS-250)

XLR output pin assignments:



REGISTER FOR YOUR 10 YEAR WARRANTY



Congratulations on your purchase of the Azden SGM-250P Professional Shotgun Microphone.

All Azden products come with a two (2) year limited warranty. The warranty for the SGM-250P may be extended to ten (10) years.

To obtain your 10 year warranty, please register your microphone online at www.azden.com/warranty* within 90 days from the date of purchase..

*Azden's 10 year warranty is not available in all countries and not all Azden products are eligible. See www.azden.com for details.

Azden Two Year Limited Warranty

Azden Corporation warrants, to the first purchaser, that the Azden brand product purchased is free from defects in material and workmanship. Azden's sole obligation under this warranty shall be to provide, without charge, repair or replacement (at Azden's sole discretion), within two years from the date of purchase. A dated receipt is required to establish the date of purchase and no registration is necessary to receive warranty service under this two year limited warranty. The cost to ship a failed product to and from Azden or to its dealer shall not be covered by this warranty.

This warranty is the sole and exclusive express warranty given with respect to the product and all other warranties, expressed or implied, are hereby excluded. Neither Azden, nor the dealer who sells this product, is responsible for indirect, incidental or consequential damages.

This warranty does not extend to any defect, malfunction or failure caused by misuse, abuse, accident, act of God, faulty hookup, unauthorized modification, connecting this product to equipment for which this product is not intended or defective associated equipment.

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