

REGISTER FOR THE 10 YEAR WARRANTY



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

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

To obtain the 10 year warranty, please register your microphone online at warranty.azden.com/register* 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.*

SGM-250H

PROFESSIONAL HYPERCARDIOID SHOTGUN MICROPHONE

Owner's Manual



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.

Customers in the Asia and Oceania markets contact:
Azden Corp., 1-12-17 Kamirenjaku Mitaka-shi, Tokyo, 181-8533 Japan
Tel: +81-422-55-5115 (Japan) • Fax: +81-422-55-0131 (Japan)
www.azden.co.jp • email: sales@azden.co.jp

Customers in the North/South America and European markets contact:
Azden Corp., 200 Valley Road, Suite 101, Mt. Arlington, NJ 07856
Tel: +1-973-810-3070 • Fax: +1-973-810-3076
www.azden.com • email: sales@azden.com



Do not attempt to open the casing or make any modification to the internal electrical components. Electric shock or injury may result. Any unauthorized modification to this product will void all applicable warranties.

Do not store or operate this product near a heat source or in an environment of extreme temperatures. Avoid exposure to rain or any other source of moisture. Do not submerge in water. If exterior is exposed to water, wipe dry before use.

Please take the time to read this manual carefully and keep it for your reference.

English

Product Highlights

- Hypercardioid microphone element for maximum side rejection
- 50% longer interference tube further narrows directional pickup
- High sensitivity, low-noise condenser microphone element
- Wide frequency response for accurate audio capture
- Powered by 48 V phantom power
- Switchable low-cut filter at 75 Hz
- All-metal case for resistance to RF and durability
- Handcrafted in Japan with 10-year warranty after online registration

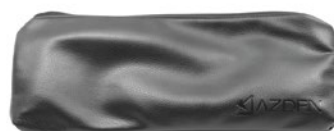
Included Accessories



Microphone Clip



High-quality foam windscreen



Leatherette zippered carrying pouch

Overview



The SGM-250H is a professional hypercardioid condenser shotgun microphone intended for video production applications. As part of Azden's Ni-Go-Maru Series (250) microphones, you can expect high-level performance, natural sound quality and excellent build quality, all backed by one of the best product warranties in the industry: a limited 10-Year Warranty against manufacturer defect (online registration required).

The characteristics that set the SGM-250H apart from the rest of the Ni-Go-Maru Series are its hypercardioid mic element and 50% longer interference tube. Together, these design elements combine to create a highly focused pick up pattern that's more sensitive to on-axis sounds and better at rejecting sound approaching from the sides.

This makes the SGM-250H well suited for recording in challenging acoustic environments. Whether the space you're in has a lot of unavoidable background noise, or produces significant reverberation, the SGM-250H will do a better job at isolating your speaking subject and recording clear audio.

Low-Cut Filter Switch

When engaged, the low-cut filter switch (a.k.a. high-pass filter) will attenuate frequencies below 75 Hz at the rate of -3 dB per octave. The switch has two positions:

-  Low-Cut (ON)
-  Flat (OFF)



It is not recommended that you adjust the low-cut filter switch while recording as doing so may produce an audible noise in your recording.

When to engage the Low-Cut Filter Switch?

It's most likely best to leave the low-cut filter switch OFF unless your recording environment is plagued with an unavoidable, low-frequency noise. Fans, electric motors, HVAC systems, cars on a busy road and wind are some examples of what can produce unwanted noise in the lower frequency range. Bear in mind that a low-cut filter cannot totally eliminate noise, but merely reduce it, which in turn can improve the intelligibility of recorded speech.

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 preamps 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 48 volts. This is the optimum voltage for the SGM-250H. It is possible that your connecting equipment supplies a different voltage. This microphone is rated to work on a voltage between 11 and 50 volts, 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.

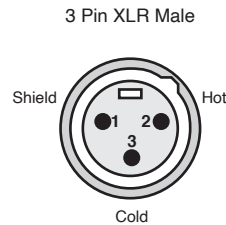
Connecting to Camera or Audio Recorder

To connect the SGM-250H to a camera or audio recording device, use a high-quality, balanced XLR microphone cable (sold separately). Be sure that phantom power is switched on for your mic input and be aware that you may also need to adjust your camera's or audio device's settings before signal from the microphone can be recorded.

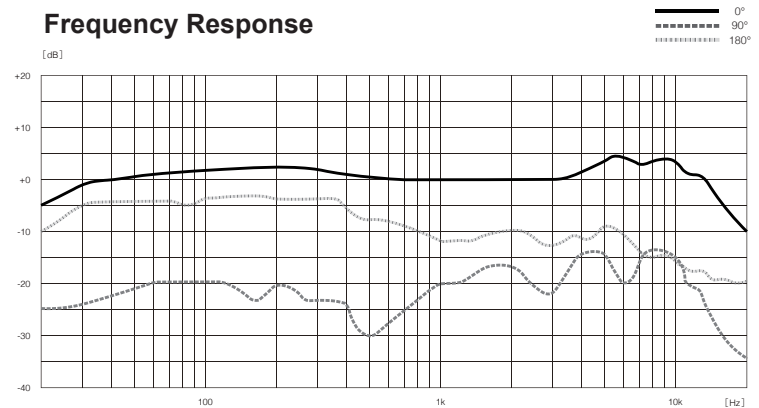
Specifications

Freq. Response	20 Hz - 20 kHz
Low-Cut Filter	Selectable @ 75 Hz / 3 dB per Octave
Polar Pattern	Hypercardioid
Dynamic Range	114 dB
Sensitivity	-35 dB
Impedance	100 Ohms
Max Input SPL	132 dB SPL (1 kHz @ 1% T.H.D.)
S/N Ratio	76 dB (1 kHz @ 1 Pa)
Power Requirement	11 - 50 V Phantom
Output	Gold-plated 3-pin XLR
Dimensions	250 mm x Φ 21 mm (9.84" x 0.83") (L x D)
Weight	110 g (3.9 oz)
Accessories	mic clip, foam windscreen, carrying pouch

XLR pin assignments



Frequency Response



Polar Pattern

