



# AUDIX OM7 Dynamic Vocal Microphone User Manual

[Home](#) » [AUDIX](#) » AUDIX OM7 Dynamic Vocal Microphone User Manual 

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## Contents

- 1 OVERVIEW
- 2 SUPPLIED ACCESSORIES
- 3 OPTIONAL ACCESSORIES
- 4 FEATURES
- 5 APPLICATIONS
- 6 SPECIFICATIONS
- 7 DIMENSIONS (mm)
- 8 FREQUENCY RESPONSE
- 9 POLAR PATTERNS
- 10 ARCHITECT AND ENGINEER SPECIFICATIONS
- 11 OPERATION AND MAINTENANCE
- 12 USER TIPS
- 13 Documents / Resources
  - 13.1 References
- 14 Related Posts

## OVERVIEW

Designed, assembled and tested by Audax in the USA, the OM7 is a dynamic vocal microphone used for professional sound companies, front of house engineers, mixing engineers, and high profile fixed installations. The OM7 is known for its ability to provide unprecedented gain before feedback on concert level stages without sacrificing sound quality. In addition, the OM7 is very resistant to feedback on extremely loud stages, and for performers who tend to “cup” the microphone with both hands.

In order to achieve these extraordinary performance benefits, the OM7 is designed with an unconventionally low output level (8-10 dB lower than typical dynamic microphones). This low gain stage acts as a natural “pad” at the capsule in order to maintain high fidelity at the source. For this reason, the OM7 is best suited for use with high quality mixing consoles and sound system.

The OM7 is characterized with a super-tight hypercardioid polar pattern which effectively isolates the vocals from the rest of the instruments on stage. With a wide frequency range of 48 Hz – 19 kHz, the OM7 employs a VLM™ (Very Low Mass) diaphragm for a very clean and punchy sound with exceptional transient response.

Well balanced, comfortable to hold and durable, the OM7 is manufactured with very high standards and tight tolerances. The OM7 includes a precision die cast zinc alloy body, durable black E-coat finish, dent resistant steel mesh grill and gold plated XLR connector.

## SUPPLIED ACCESSORIES

**MC1** – Heavy-duty nylon molded clip with brass insert

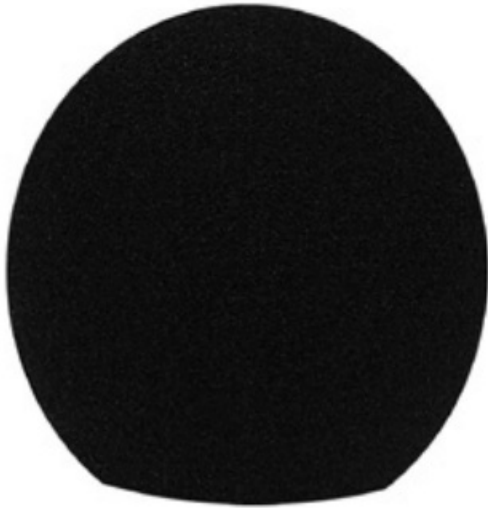


**P1** – Carrying pouch



## OPTIONAL ACCESSORIES

**WS357** – Optional high quality external foam windscreen for reducing wind, sibilance, and pop noise.



**CBL20** – 20' premium XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for maximum conductivity. 6mm PVC jacketed.



**CBLDR25** – 25' premium right angle XLR-XLR balanced mic cable. Quad conductor, twisted pair with braided shield for maximum conductivity. 6mm PVC jacketed.



**T50K** – Professional impedance matching transformer that allows a low impedance mic to be connected to a high impedance input.



**TRIPOD** – Metal tripod desktop stand for use with any 5/8" threaded mic clip.



## FEATURES

- Concert level, professional vocal mic for live sound, broadcast and studio
- Unprecedented gain before feedback
- Handles incredibly high SPLs without distortion
- VLM Capsule
- Designed, assembled & tested in the USA
- 5 year warranty

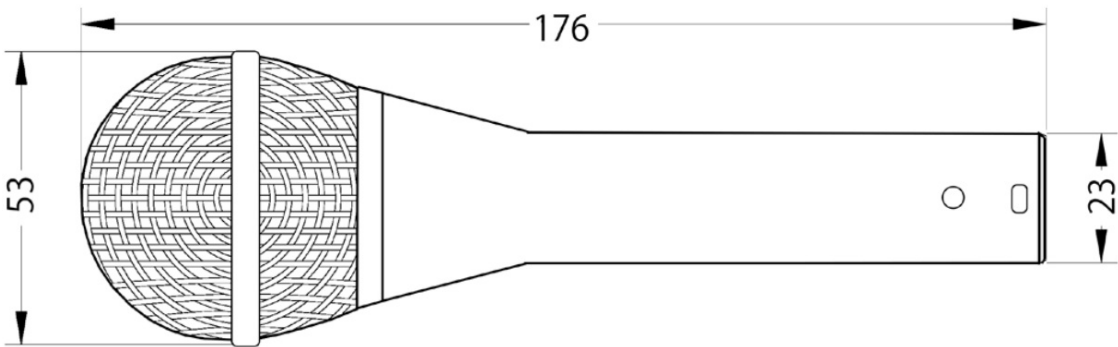
## APPLICATIONS

- Lead or backing vocals
- Live recording
- Broadcast
- Home studio – vocal and instrument
- Sax, brass, guitar, dobro, flute, percussion, drums

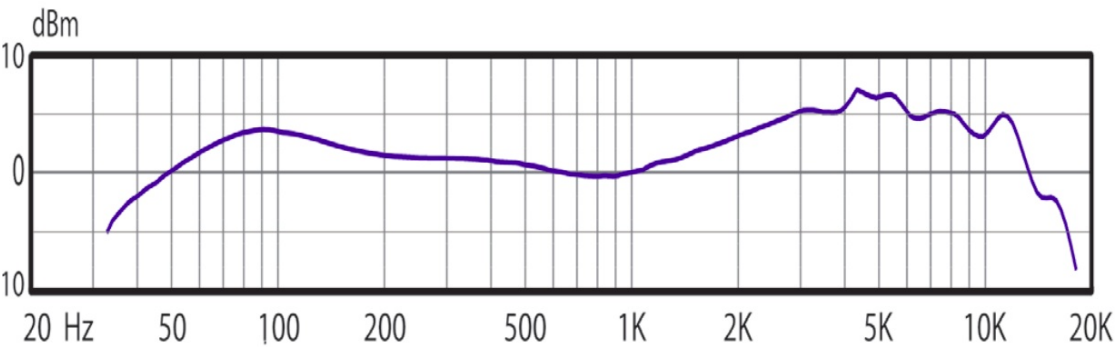
## SPECIFICATIONS

Transducer Type	Dynamic
Frequency Response	48 Hz – 19 kHz
Polar Pattern	Hype cardioid
Output Impedance	50 ohms
Sensitivity	0.8 mV / Pa @ 1k
Capsule Technology	VLM Type C
Off-Axis Rejection	>30 dB
Maximum SPL	≥144 dB
Power Requirements	None
Connector	3-pin Xylem
Polarity	Positive pressure on diaphragm produces positive vol tage on pin 2 relative to pin 3 of output XLR connector
Materials / Finish	Zinc Alloy / Black Finish
Weight	307 g / 10.8 oz.
Length	176 mm / 6.9 in

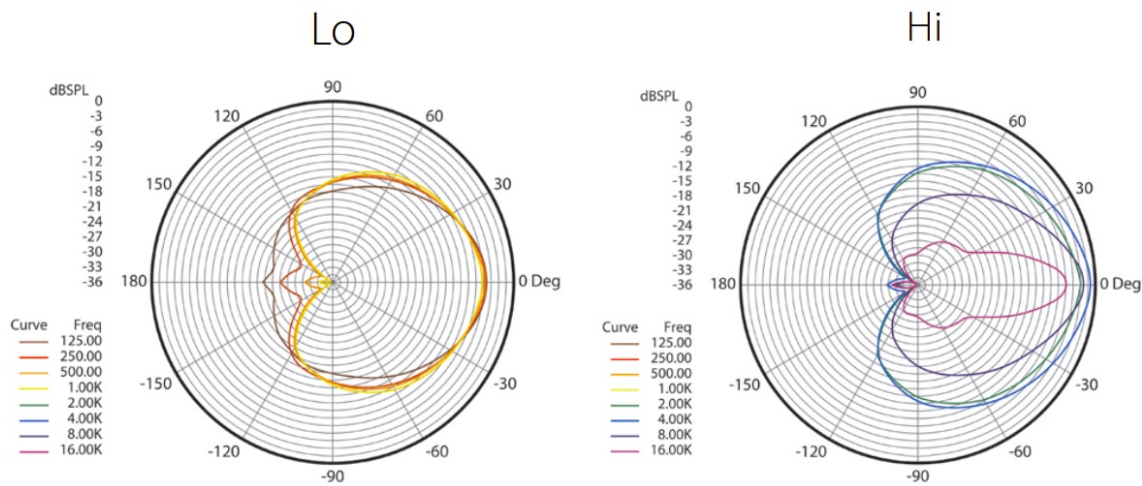
**DIMENSIONS (mm)**



**FREQUENCY RESPONSE**



**POLAR PATTERNS**



## ARCHITECT AND ENGINEER SPECIFICATIONS

The microphone shall be of the dynamic type and the polar pattern of the microphone shall be hypercardioid. The nominal output impedance shall be equal to 50 ohms at 1 kHz. The microphone shall have a sensitivity of 0.8 mV / Pa at 1 kHz and a sound pressure level  $\geq 144$  db. The microphone body shall be of die cast zinc alloy and the grill cap shall be steel wire mesh. The overall dimensions shall be 23 mm in diameter at the base, 53 mm in diameter at the widest point on the grill and 176 mm in length.

## OPERATION AND MAINTENANCE

The OM7 is a low impedance microphone and should be plugged into the “mic level” input of your console, mixer or recording device. Please note that your microphone does not require phantom power and will not be affected in any way by phantom power should it be running simultaneously while the microphone is in operation. Avoid plugging or unplugging the microphone from the PA system unless the channel is muted or the volume of the system turned down. Failure to do so may result in a loud “popping” noise which could seriously damage the speakers in the PA system.

The OM7 is manufactured to exacting specs with roadworthy construction. However, the capsule is highly sensitive and should be handled with care. Avoid extreme temperatures and be sure to store your microphone in the pouch provided when not in use. Moisture of any kind can adversely effect the sound and performance of your microphone.

## USER TIPS

The OM7 is designed with an unconventionally low output level; this means that the gain will have to be compensated on the mixing console or mic preamp. The OM7 has the tightest pick-up pattern of any microphone on the market. This helps eliminate sound from other instruments on stage from “bleeding” into the microphone. For best results, it is important to sing directly into the mic as close as possible at all times (within 1 inch).

When using floor monitors, position the microphone so that it is parallel to the floor. When using multiple microphones on a live performance stage, allow a distance of 2-3 feet between mics to avoid phase issues.

Further miming techniques may be found at [www.audixusa.com](http://www.audixusa.com).

**PRODUCT REGISTRATION:** Please register your product online at [www.audixusa.com/docs\\_12/about/product\\_registration.shtml](http://www.audixusa.com/docs_12/about/product_registration.shtml).

**SERVICE AND WARRANTY:** This microphone is under warranty for a period of 5 years to be free of defects in material and workmanship. In the event of a product failure due to materials or workmanship, Audax will repair or

replace said product at no charge with proof of purchase. Audax does not pay or reimburse shipping costs for warranty repairs or returns. The warranty excludes any causes other than manufacturing defects, such as normal wear, abuse, environmental damage, shipping damage or failure to use or maintain the product per the supplied instructions. No Implied Warranties: All implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose are hereby excluded. The liability of Audax, if any, for damages relating to allegedly defective products shall be limited to the actual price paid by Dealer for such products and shall in no event include incidental or consequential damages of any kind. Should your microphone fail in any way, please contact the Audax Service department at 503.682.6933. A Return Authorization is required before returning any product. OTHER THAN

THIS WARRANTY, AUDIX MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE PRODUCTS, THE USE OF THE PRODUCTS, THE PERFORMANCE OF THE PRODUCTS. AUDIX SHALL NOT BE LIABLE FOR SPECIAL INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES ARISING FROM OR BASED ON THE SALE, USE, STORAGE OR DISPOSAL OF THE PRODUCTS, AUDIX'S SERVICE WORK, BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, OR ANY OTHER THEORY OF LIABILITY, EVEN IF AUDIX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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# AUDIX

## Documents / Resources

	<p><a href="#">AUDIX OM7 Dynamic Vocal Microphone</a> [pdf] User Manual</p> <p>OM7 Dynamic Vocal Microphone, OM7, Dynamic Vocal Microphone, Vocal Microphone, Microphone</p>
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## References

-  [Home - Audix](#)
-  [Resources - Audix](#)
- [User Manual](#)

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