

AUSTRIAN AUDIO

OC616 Large Diaphragm Condenser Microphone with Multiple Polar Patterns

User Manual

Introduction and Safety Instructions

This user manual will guide you through setup, operation and maintenance of your *OC616*. Please read this manual thoroughly before using the microphone to ensure proper and safe usage.

We ask you to follow a few restrictions to guarantee trouble-free workflow, and to keep the product in perfect working condition:

- The *OC616* is a professional studio microphone. Please do not operate this product other than as intended.
- Do not use the microphone or its accessories if defective.
- Always store and operate the microphone in a dry and safe place.
- Do not expose to excessive heat (for example, do not leave it in a car parked in the sun).
- In case of a sudden temperature change from cold to warm, please give the microphone time to reach adequate temperature before use. (Allowed storage temperature range: -25°C to 60°C).
- Do not operate outside the intended temperature range: 0°C to 55°C
- Do not use this product in a wet or humid environment.
- Do not drop the *OC616*.
- When used inverted (for example in the *OCH8* or *OCS6*) make sure that a tight fit is achieved, and do not operate the *OC616* above personnel.
- This product requires a phantom power source with 48 V (+/- 4 V). The maximum idle current draw is < 3 mA.
- Please keep this product away from small children.
- To clean the product, use a soft dry cloth.
- Please do not use any third-party accessories.
- Do not disassemble the product, as there are no user-serviceable parts inside.
- The length of the XLR cable must not exceed 30 m.
- Do not remove any stickers (if applicable).
- Please do not eat the silica gel packs, which are included for moisture protection.



Thank you for reading the instructions so far and thank you for choosing Austrian Audio.

How to operate the OC616:

The OC616 requires phantom power, so please make sure that you are supplying it according to the IEC 61938 technical standard P48 (48V +/- 4V). The idle current consumption is below 3 mA. Almost all state-of-the-art professional mixing consoles, preamps and audio interfaces provide enough power, however some battery driven or older devices may fail to provide adequate power!

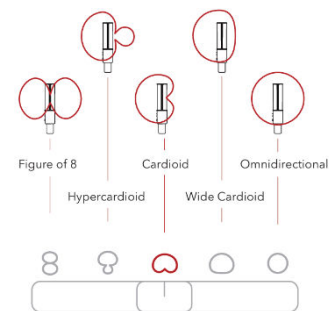
Setting up the OC616:

For optimum performance, do not cover the grille of the OC616, and always ensure a secure fit within the OCH8 (holder) or OCS6 (suspension). Our logo marks the front side of the microphone. Please arrange the microphone so that your sound source faces the logo.

Polar Pattern Selection:

The OC616 is a multi-pattern microphone, providing 5 different directional characteristics: omnidirectional, wide cardioid, cardioid, hypercardioid and figure of 8. Please select your desired polar pattern by adjusting the pattern switch:

- **Cardioid** for vocals, speech, and close-miking of instruments
- **Hypercardioid** for challenging acoustic situations
- **Figure-of-eight** for Blumlein, Mid/Side, and null-point rejection
- **Omni** for room and ambience, with the most natural low end
- **Wide cardioid** for a natural, open sound with the room still under control



Low Cut Filter:

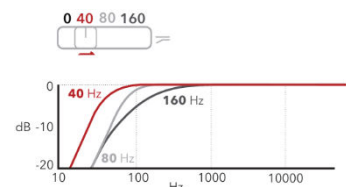
The low-cut filter is a powerful tool to reduce unwanted low frequencies at the source, before they ever reach your preamp or your mix.

"0" means inactive

"40" inserts a 2nd order low cut filter at 40 Hz

"80" inserts a 2nd order low cut filter at 80 Hz

"160" inserts a 1st order low cut filter from 160 Hz to 80 Hz, and a 2nd order low cut filter below 80 Hz.



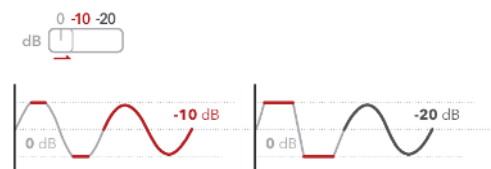
Switchable Pad:

The Pad reduces the sensitivity of the microphone and prevents overloading the signal in loud environments.

"0" means not active

"-10" reduces the sensitivity by -10 dB

"-20" reduces the sensitivity by -20 dB



How the pad works: it does not attenuate the output signal. Both stages act at the capsule, reducing its polarization voltage so the capsule itself becomes less sensitive and handles higher SPL at the source. At -10 dB the polarization voltage is lowered; at -20 dB it is lowered further. The additional headroom is created at the capsule.

Product Specifications

Directional characteristics	Omnidirectional, Wide cardioid, Cardioid, Hypercardioid, Figure-of-Eight
Frequency range	20 Hz – 20 kHz
Sensitivity	13 mV/Pa
Equivalent noise level	13 dB SPL (A)
Max. SPL	147 (157) dB SPL
Low Cut filter	40 Hz (2 nd order), 80 Hz (2 nd order), 160 Hz (1 st order down to 80 Hz, 2 nd order below)
Switchable pad	-10 dB, -20 dB
Impedance	108 Ω (symmetrical)
Load impedance	> 1 k Ω
Supply voltage	48 V (< 3 mA)
Connectors	XLR 3pin
Dimensions	157 x 66 x 34 mm
Weight	345 g



Made in Austria

This product conforms to the standards listed in the Declaration of Conformity and can be found at <https://austrian.audio/oc616>

Copyright Austrian Audio 2026.

All rights reserved by
Austrian Audio GmbH
Eitnergasse 15
1230 Vienna
support@austrianaudio.com