



2028 Vocal Microphone User's Manual

dpamicrophones.com/2028

Application and use

The 2028 Vocal Microphone is a professional stage mic with extraordinary natural sound, high separation from nearby sound sources and very high SPL handling.

The mic features exceptionally controlled directional quality. This, combined with superb definition and true dynamics, makes the 2028 the perfect match for all types of live performances.

Grid and windscreen

The 2028 has a very effective 3-step pop protection grid incorporated, which removes unwanted pop noise. When used outdoors or with artists that create pronounced wind or pop sounds, it may be necessary to add an additional external windscreen.

Phantom power (For wired version)

The 2028 is designed to apply its full specifications at the standard +48 volt phantom power (\pm 4 V) but will work at lower supply voltages with reduced specifications.



Cleaning

Keep the microphone dry – away from water and cleaning fluids. Do not use sprays or fluids containing chemicals that could remove static electricity on or near the microphone. This could cause permanent damage.

To clean the grid properly, without risk of causing damage to the capsule, you have to unscrew it from the microphone body. Be aware that the mic capsule itself should not be cleaned in any way, as it will influence the performance.

The grid consists of two parts: the outer black metal mesh and an inner foam windscreen. Both parts may be cleaned separately.

Once you have separated the mic grid from the body, the inner pop filter becomes visible. Gently unscrew it being careful not to touch the mesh.



All the parts should be assembled again in the opposite order. Be careful to align the foam windscreen in the outer black metal mesh and reposition the inner pop filter on the thread.

When remounting, take care to tighten the grid firmly, which secures the inner pop filter properly.

Accessories included

DUA0415 Clip for 2028 Vocal Microphone

Replacement parts

- DUA0410B Grid including outer black metal mesh and inner foam windscreen
- DUA0411 Inner Cylindrical Pop Filter

Available models:

2028-B-B0I

2028 Supercardioid Vocal Mic, Wired DPA Handle, Black 2028-B-SLI 2028 Supercardioid Vocal Mic, SLI Adapter (Shure/Sony/Lectrosonics), Black

2028-B-SE2

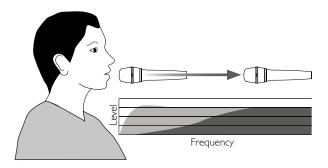
2028 Supercardioid Vocal Mic, SE2 Adapter (Sennheiser 2000/6000/9000/evolution/DI), Black



Proximity effect

The 2028 Vocal Microphone is designed as a handheld vocal mic. The frequency response is tuned to match this application.

At short distances, all directional microphones will create a bass-level boost – at extended distances, there will be a long-distance low cut. This phenomenon is known as proximity effect or close-talk. This gives a deeper/warmer vocal sound at short distances and more thin-sounding vocals as the distance increases.



So keep in mind that the low-frequency level will change according to the distance the mic is to the mouth. The mic has been designed and factory fine-tuned for this. The 2028 is intended to be flat at 12 cm (4.7 in).

Miking and recording voice

When using a mic, it is important to know some of the parameters characterizing the source you are amplifying/recording, its surroundings and the characteristics of the tools you are using. For tips and background info on voice miking, please visit:

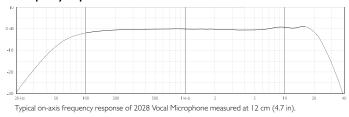
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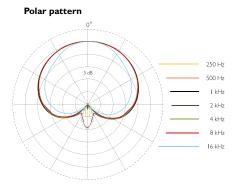
2028 Vocal Microphone Specifications

(Measured with wired DPA Handle)

Directional pattern Supercardioid Principle of operation Pressure gradient Cartridge type Pre-polarized condenser Frequency range 20 Hz - 20 kHz Frequency range, ±2 dB, at 12 cm (4.7 in) 100 Hz - 16 kHz. Permanent 3rd order low-cut filter at 80 Hz Sensitivity, nominal, ±3 dB at 1 kHz 5 mV/Pa; -46 dB re. 1 V/Pa 5 mV/Pa; -54 dB re. I V/Pa with Adapter for wireless Equivalent noise level, A-weighted Typ. 22 dB(A) re. 20 µPa (max. 23 dB(A)) Total harmonic distortion (THD) < 1% up to 139 dB SPL peak Dynamic range Typ. 117 dB Max. SPL, peak before clipping 160 dB Output impedance 150.0 Minimum load impedance 1 kO Cable drive capability 100 m (328 ft) **Output balance principle** Impedance balancing with Active Drive Common mode rejection ratio (CMRR) > 50 dB at 1 kHz Power supply (for full specifications) 48 V Phantom power (±4 V) Current consumption Max 2.5 mA Connector XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase Maximum output 9 Vrms: 19 dBV: 28 dBu Polarity +V at pin 2 for positive sound pressure Dimensions Weight: 286 g (10.1 oz) Microphone diameter: 48 mm (1.9 in) Capsule diameter: 19 mm (0.75 in) Microphone length: 188 mm (7.4 in)

Frequency response





Service & repair

If you are not satisfied with the characteristics exhibited by this product, please go to dpamicrophones.com/service for instructions.

Warranty The 2028 Vocal Microphone is covered by a two-year limited warran

CE marking

This product conforms with all relevant directives approved by the European Commission.







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