



d:vote™

Instrument Microphones

The award-winning d:vote™ series is designed with a supercardioid polar pattern for high rejection and superior gain-before-feedback. These mics retain a highly uniform off-axis frequency response and also feature an enhanced shock mount design. The d:vote™ series is very adaptable, due to the wide selection of ingenious mounting options offered. In fact, the same microphone can be used with 10 different clips, allowing it to be used on almost any instrument. The correct variant to use depends on the type of instrument the microphone is being used on.

Hi-sens d:vote™

- VO4099A Stereo Kit for Accordion
- VO4099B for Bass
- VO4099C for Cello
- VO4099CM with Clamp Mount
- VO4099G for Guitar
- VO4099P Stereo Kit for Piano
- VO4099S for Saxophone
- VO4099SM with Stand Mount
- VO4099U Universal
- VO4099V for Violin

Lo-sens d:vote™

- VO4099D for Drum
- VO4099T for Brass

Visit dpamicrophones.com/how2dvote to learn how to correctly attach a d:vote™ to your instrument.

Specifications

Directional characteristics

Supercardioid

Principle of operation

Pressure gradient

Cartridge type

Pre-polarized condenser

Frequency range

20 Hz - 20 kHz

Frequency range, ± 2 dB, 20 cm (7.9 in)

80 Hz - 15 kHz with 2 dB soft boost at 10 - 12 kHz

Second order low-cut filter at 80 Hz with DAD4099-BC

Sensitivity, nominal ± 3 dB at 1 kHz

Hi-sens d_{vote}^{TM} : 6 mV/Pa; -44 dB re. 1 V/Pa

Lo-sens d_{vote}^{TM} : 2 mV/Pa; -54 dB re. 1 V/Pa

Equivalent noise level, A-weighted

Hi-sens d_{vote}^{TM} : Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))

Lo-sens d_{vote}^{TM} : Typ. 28 dB(A) re. 20 μ Pa (max. 31 dB(A))

S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL)

Hi-sens d_{vote}^{TM} : 71 dB

Lo-sens d_{vote}^{TM} : 66 dB

Total harmonic distortion (THD)

< 1 % up to 123 dB SPL peak

Dynamic range

Hi-sens d_{vote}^{TM} : 100 dB

Lo-sens d_{vote}^{TM} : 95 dB

Max. SPL, peak before clipping

Hi-sens d_{vote}^{TM} : 142 dB

Lo-sens d_{vote}^{TM} : 152 dB

Output impedance

From MicroDot: 30 - 40 Ω

From DAD4099-BC/DAD6001-BC: 100 Ω

Cable drive capability

Up to 300 m (984 ft) with DAD4099-BC or DAD6001-BC XLR Adapter

Output balance principle

Signal balanced with DAD4099-BC or DAD6001-BC XLR Adapter

Common mode rejection ratio (CMRR)

> 60 dB from 50 Hz to 15 kHz with DAD4099-BC or DAD6001-BC XLR Adapter

Power supply (for full performance)

Min. 5 V – max. 50 V through DPA adapter for wireless systems

48 V phantom power ± 4 V with DAD4099-BC or DAD6001-BC XLR Adapter

Current consumption

Typ. 1.5 mA (microphone)

3.5 mA with DAD4099-BC or DAD6001-BC XLR Adapter

Connector

MicroDot

Microphone length

45 mm (1.8 in)

Cable length / cable diameter

1.8 m (5.9 ft) / 1.6 mm (0.06 in) or 2.2 mm (0.09 in)

Gooseneck length

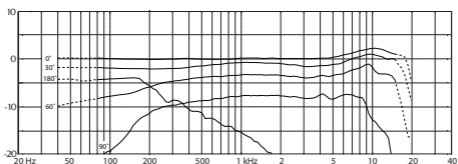
140 mm (5.5 in)

Capsule diameter

5.4 mm (0.21 in)

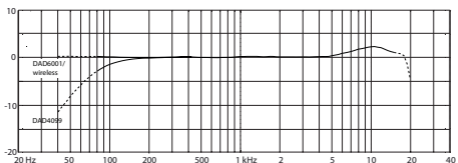
On-axis and off-axis frequency response

Measured at 20 cm (7.9 in)

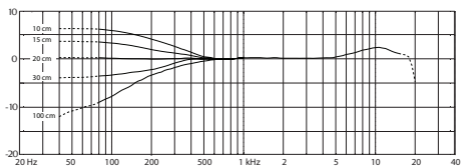


On-axis frequency response with DAD4099-BC/DAD6001-BC XLR Adapter or adapter for wireless

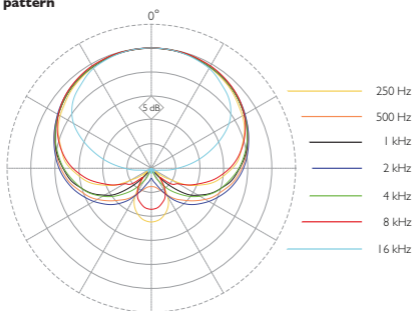
Measured at 20 cm (7.9 in)



The proximity effect



Polar pattern



Cable and adapter overview

Mic	Sensitivity	Cable	XLR connection
VO4099A	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
VO4099B	Hi-sens – for SPLs up to 142 dB	2.2 mm (0.09 in)	DAD6001-BC
VO4099C	Hi-sens – for SPLs up to 142 dB	2.2 mm (0.09 in)	DAD6001-BC
VO4099CM	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
VO4099D	Lo-sens – for high SPLs up to 152 dB	2.2 mm (0.09 in)	DAD6001-BC
VO4099G	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD4099-BC
VO4099P	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
VO4099S	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD4099-BC
VO4099SM	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
VO4099T	Lo-sens – for high SPLs up to 152 dB	1.6 mm (0.06 in)	DAD4099-BC
VO4099U	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD6001-BC
VO4099V	Hi-sens – for SPLs up to 142 dB	1.6 mm (0.06 in)	DAD4099-BC

Service & repair

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

Warranty

dvote™ Instrument Microphones are covered by a two-year limited warranty.

CE marking

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

