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™	Lo-sens d:vote™
VO4099A Stereo Kit for Accordion	VO4099D for Drum
VO4099B for Bass	VO4099T for Brass
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	

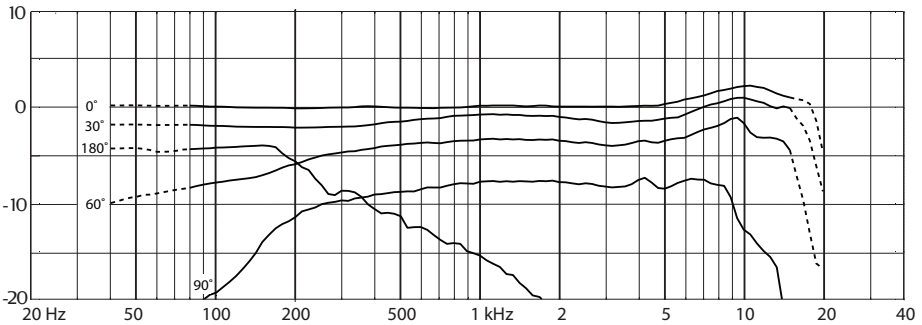
Visit **dpa**microphones.com/how2dvote to learn how to correctly attach a d:vote™ to your instrument.

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™: 6 mV/Pa; -44 dB re. 1 V/Pa
Lo-sens d:vote™: 2 mV/Pa; -54 dB re. 1 V/Pa
Equivalent noise level, A-weighted
Hi-sens d:vote™: Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A))
Lo-sens d:vote™: Typ. 28 dB(A) re. 20 µPa (max. 31 dB(A))
S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL)
Hi-sens d:vote™: 71 dB
Lo-sens d:vote™: 66 dB
Total harmonic distortion (THD)
< 1 % up to 123 dB SPL peak
Dynamic range
Hi-sens d:vote™: 100 dB
Lo-sens d:vote™: 95 dB
Max. SPL, peak before clipping
Hi-sens d:vote™: 142 dB
Lo-sens d:vote™: 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)

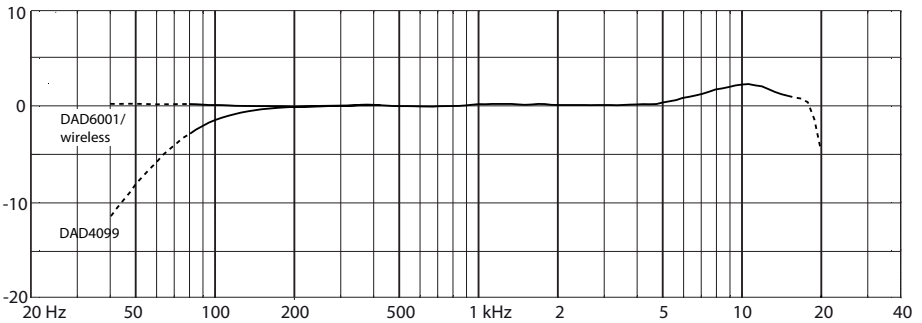
On-axis and off-axis frequency response

Measured at 20 cm (7.9 in)

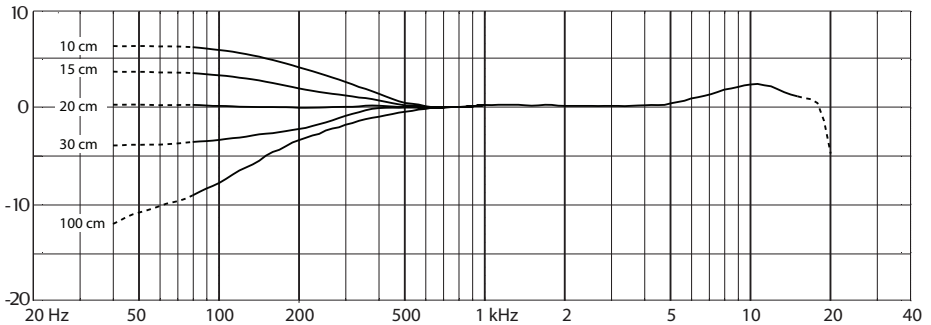


On-axis frequency response with DAD4099-BC/DAD6001-BC XLR Adapter or adapter for wireless

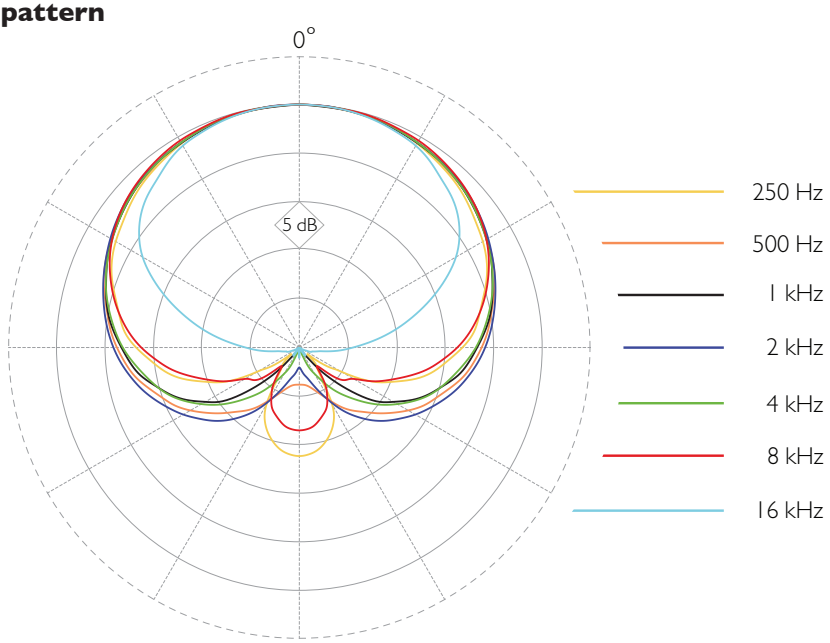
Measured at 20 cm (7.9 in)



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**microphones.com/service for instructions.

Warranty
d:vote™ Instrument Microphones are covered by a two-year limited warranty.

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

DPI-DVOTE-QG