

Capture true instrument tone

## d:vote™ 4099 Instrument Mics

Much more natural sounding than any internal microphone or pickup, d:vote rejects unwanted noise and accurately captures the true voice of acoustic instruments. One microphone reinforces the entire orchestra impressively.



### Features

- Superior gain-before-feedback
- Natural sound – easy to blend with pick-up
- Flexible and easy mounting
- Mount has no impact on acoustic sound

# d:vote™ 4099 Instrument Microphone

**Directional characteristics**

Supercardioid

**Principle of operation**

Pressure gradient

**Cartridge type**

Pre-polarized condenser

**Frequency range**

20 Hz to 20 kHz

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

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

**Sensitivity, nominal ± 3 dB at 1 kHz**

6 mV/Pa; -44,5 dB re. 1 V/Pa

(High SPL: 2 mV/Pa; -54 dB re. 1 V/Pa)

**Equivalent noise level, A-weighted**

Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A)) (d:vote High SPL:

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)**

71 dB (High SPL: 66 dB(A))

**Total Harmonic Distortion (THD)**

<1 % up to 123 dB SPL peak; <1 % up to 120 dB SPL RMS sine

(High SPL: <1 % up to 123 dB SPL peak; <1 % up to

120 dB SPL RMS sine)

**Dynamic range**

100 dB (High SPL: 95 dB)

**Max. SPL, peak before clipping**

142 dB (High SPL: 152 dB)

**Output impedance**

From MicroDot: 30 to 40 ohm; from XLR adapter: 100 ohm

**Cable drive capability**

Up to 300 m (984 ft) with XLR adapter

**Output balance principle**

Signal balanced with XLR adapter

**Common Mode Rejection Ratio (CMRR)**

> 60 dB from 50 Hz to 15 kHz with XLR adapter

**Power supply (for full performance)**

Min. 5 V to max. 50 V through DPA adapter for wireless

systems, 48 V phantom power +/- 4 V with XLR adapter

**Current consumption**

Typ. 1.5 mA (microphone), 3.5 mA with XLR adapter

**Connector**

MicroDot

**Color**

Black

**Dimensions**

Microphone weight: 46 g (1.62 oz)

Capsule diameter: 5.4 mm (0.2 in)

Microphone length: 45 mm (1.8 in)

Cable length: 1.8 m (6 ft)

**Polarity**

Positively increasing sound pressure produces positive-going

voltage at MicroDot pin (and pin 2 on XLR adapter)

**Temperature range**

-40 °C to 45 °C (-40 °F to 113 °F)

**Relative Humidity (RH)**

Up to 90%

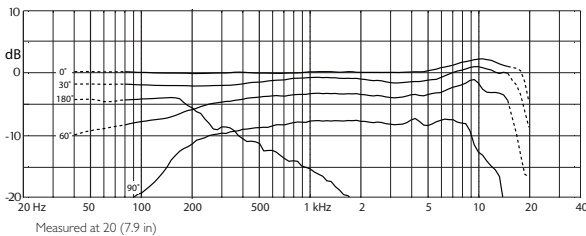
**Gooseneck length**

140 mm (5.5 in)

**Sensitivity selection tolerance (at 1 kHz)**

± 1 dB

**Frequency Response**



**Polar Pattern**

