

## 4099U, d:vote™ 4099U Universal Clip Microphone

- Clean and natural sound
- Excellent frequency and phase response
- Compact, discreet size
- Unique mounting system fits numerous instruments
- Detachable cable and versatile gooseneck extender

The 4099U is a microphone system especially designed to address the unique mounting challenges of slim bodied and unusually shaped instruments. It allows for high quality audio capture while the low profile and light weight of the unobtrusive design provides visual elegance along with uncompromised sound quality.

The creative design of the unique microphone clip includes a hook-and-loop fastener strap which allows the holder to fit numerous instruments of varying sizes and diameters such as oboe, clarinet, bassoon, recorder and flute. The hook-and-loop fastener band pulls tight to fit the circumference of the instrument, like a wrist watch on your arm. If using the clip on very large diameter instruments, additional hook-and-loop fastener straps can easily be added to extend the clip's capacity.

The 4099U includes a revolutionary new "90 degree" system which provides many more mounting options. By detaching the clip from the gooseneck and re-mounting it turned 90 degrees, the number of mic positions is doubled.

The 4099U includes a 3-pin XLR phantom power adapter. The UC4099 Universal Clip is available separately, and can be used with any of the various versions of the 4099 family.

### Gooseneck

Standard gooseneck length is 140 mm (5.5 in), which can be altered with the optional gooseneck extension unit, adding another 50% to the length, helping to achieve exactly the sweet spot for the instrument.

### Cable

The updated 4099 range features detachable cable from gooseneck, so it's more convenient to mount the mic on an instrument before connecting it. Furthermore, the choice of different cable qualities makes it possible to tailor your mic to the specific task, such as choosing the heavy duty 2.2 mm cable for PA/Live gigs or the easier-to-hide, thinner miniature cable for personal mounting on instruments where you don't want the cable weight to interfere with your performance. In case of cable break, service is easy and fast.

The package includes A supercardioid gooseneck mic with cable Integrated windscreen and shock mount system Clip with hook-and-loop fastener to mount on various instruments (also available separately as UC4099) XLR adapter with belt clip

Adapters for wireless microphones  
A wide range of connection adapters makes it possible to use DPA

miniature microphones with all professional UHF, VHF or digital wireless system available plus 48 V Phantom.

DPA has specific adapters for AKG, Audio Ltd., Audio-Technica, Beyerdynamic, Electro-Voice, Lectrosonics, Micron, Mipro, Pastega, Telex ProStar, Ramsa, Samson, Sennheiser, Shure, Sony, Toa, Vega and other systems. Each adapter for your cordless microphone is guaranteed to perfectly mate to your system of choice.

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For more information please visit:  
[www.dpamicrophones.com](http://www.dpamicrophones.com)

# 4099U, d:vote™ 4099U Universal Clip Microphone

## Directional characteristics:

Supercardioid

## Principle of operation:

Pressure gradient

## Cartridge type:

Pre-polarized condenser

## Frequency range:

20 Hz to 20 kHz

## Frequency range, $\pm 2$ dB, 20 cm (7.9 in) distance:

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

## Sensitivity, nominal, $\pm 3$ dB at 1 kHz:

6 mV/Pa; -44.5 dB re. 1 V/Pa

## Equivalent noise level, A-weighted:

Typ. 23 dB(A) re. 20  $\mu$ Pa (max. 26 dB(A))

## S/N ratio, re. 1 kHz at 1 Pa (94 dB SPL):

71 dB

## Total harmonic distortion (THD):

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

## Dynamic range:

100 dB

## Max. SPL, peak before clipping:

142 dB

## Output impedance:

From MicroDot: 30 to 40 ohm, from DAD6001: 100 ohm

## Cable drive capability:

Up to 300 m (984 ft) with DAD6001 XLR adapter

## Output balance principle:

Signal balanced with DAD6001 XLR adapter

## Common Mode Rejection Ratio (CMRR):

> 60 dB from 50 Hz to 15 kHz with DAD6001 XLR adapter

## Power supply (for full performance):

Min. 5 V to max. 50 V through DPA adapter for wireless systems; 48 V phantom power  $\pm 4$  V with DAD6001 XLR adapter

## Current consumption:

Typ. 1.5 mA (microphone). 3.5 mA with DAD6001 XLR adapter

## Connector:

MicroDot

## Color:

Black

## Weight:

41 g (1.4 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 DAD6001 XLR adapter)

## Temperature range:

-40 °C to 45 °C (-40 °F to 113 °F)

## Relative Humidity (RH):

Up to 90%

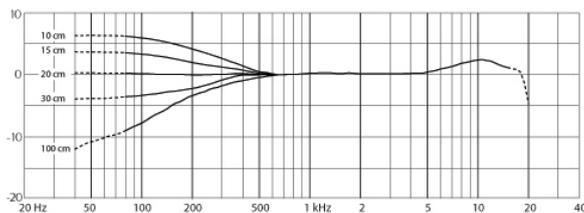
## Gooseneck length:

140 mm (5.5 in)

## Diagrams

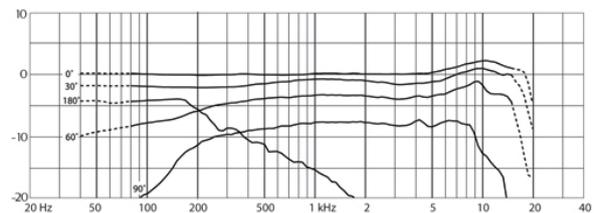
### 4099U, d:vote™ 4099U Universal Clip Microphone

The proximity effect exhibited by DPA 4099



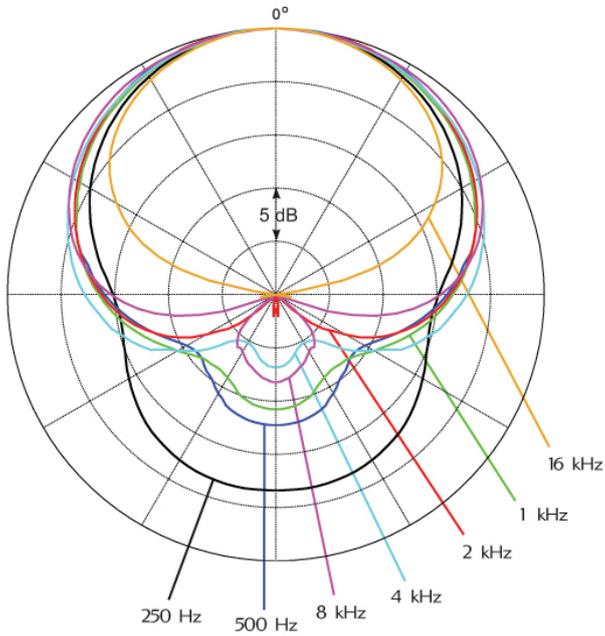
The proximity effect exhibited by DPA 4099

Typical on- and off-axis frequency response of DPA 4099 at 20 cm (7.9 in) distance



Typical on- and off-axis frequency response of DPA 4099 at 20 cm (7.9 in) distance

Directional characteristics of DPA 4099 (normalized)



Directional characteristics of DPA 4099 (normalized)



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