

# HYDRA-All-G

HYDRA-All-G is a gold coated HYDRA cantilever with A, B, C & D probes designed primarily for imaging soft samples in non-contact / tapping mode, but can also be used for imaging soft samples in contact mode or for force-distance applications. These probes have V-shaped cantilevers and are gold coated on the reflex side. The specifications in order are for probes A, B, C & D.

## Tip Specifications

- **Material:** Silicon
- **Shape:** Tetrahedral
- **Height ( $\mu\text{m}$ ):** 4-6
- **ROC (nm) :** 6
- **Coating:** None



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## Cantilever Specifications

Material : Silicon  
Nitride  
Shape : Triangular  
(x4)  
Reflex coating : Gold, 40 nm  
 $\pm 5$  nm  
Thickness ( $\mu\text{m}$ ): 0.60

Parameter	Nominal	Min	Max	Cantilever
k (N/m)	0.045	0.024	0.079	B
f (kHz)	17.0	14.0	21.0	B
Length ( $\mu\text{m}$ )	200.0	190.0	210.0	B
Width ( $\mu\text{m}$ )	22.0	19.0	25.0	B
k (N/m)	0.405	0.195	0.828	C
f (kHz)	67.0	50.0	91.0	C
Length ( $\mu\text{m}$ )	100.0	90.0	110.0	C
Width ( $\mu\text{m}$ )	25.0	22.0	28.0	C
k (N/m)	0.081	0.047	0.135	D
f (kHz)	17.0	14.0	21.0	D
Length ( $\mu\text{m}$ )	200.0	190.0	210.0	D
Width ( $\mu\text{m}$ )	40.0	37.0	43.0	D
k (N/m)	0.292	0.133	0.621	A
f (kHz)	66.0	49.0	90.0	A
Length ( $\mu\text{m}$ )	100.0	90.0	110.0	A
Width ( $\mu\text{m}$ )	18.0	15.0	21.0	A