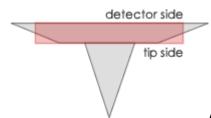
Cantilever Data	Value	Range*
Resonance Frequency	130 kHz	110 - 150 kHz
Force Constant	15 N/m	9 - 25 N/m
Length	225 µm	220 - 230 µm
Mean Width	33 µm	27.5 - 37.5 μm
Thickness	5 µm	4.5 - 5.5 μm

NanoWorld® Pointprobe® SEIHR probes are designed for owners of a Seiko Instruments microscope using the non-contact mode. All SPM and AFM probes of the Pointprobe® series are made from monolithic silicon which is highly doped to dissipate static charge. They are chemically inert and offer a high mechanical Q-factor for high sensitivity. The AFM tip is shaped like a polygon based pyramid with a typical height of 10 - 15 μ m.

Additionally, this AFM probe offers typical AFM tip radius of curvature of less than 8 nm.



A trapezoidal cross section of the

AFM cantilever and therefore 30% wider (e.g. NCH) AFM cantilever detector side result in easier and faster laser adjustment. Additionally, because there is simply more space to place and reflect the laser beam, a higher SUM signal is reached.

Tip shape: Standard Coating: Reflective Aluminum

Aluminum Reflex Coating

The aluminum reflex coating consists of a 30 nm thick aluminum layer deposited on the detector side of the AFM cantilever which enhances the reflectance of the laser beam by a factor of 2.5. Furthermore it prevents light from interfering within the AFM cantilever.

Order Code	Quantity	Data Sheet
SEIHR-10	10	yes
SEIHR-20	20	yes
SEIHR-50	50	no
SEIHR-W	380	yes