

# Cryogenic Photonic Probe Station

1009485

## Technical Specifications

General Specifications	
type of instrument	combined side injection into planar waveguide structures and perpendicular confocal optics on top of the sample, perpendicular injection is possible
sensor head specifics	two independent lensed fiber probes with 3 individual degrees of freedom, low temperature compatible apochromatic objective and external confocal optics head
Sample Positioning	
total travel range	fiber probes 5 x 5 x 4.8 mm <sup>3</sup> (closed loop) sample 15mm x 13 mm (closed loop)
step size	0.05 .. 3 μm @ 300 K, 10 .. 500 nm @ 4 K
sample holder	carefully thermalized, quick exchange mechanism, including calibrated temperature sensor and heater
Suitable Operating Conditions	
temperature range	< 5 .. 300 K
operating pressure	1E-6 mbar .. 1 bar
Suitable Cooling Systems	
compatible cryostats	attoDRY800 (flow cryostats on request)
Compatibility with Electronics	
laser	LDM600 laser/detector module (for detailed specifications please see attoCONTROL section)

