

attoCFM IIxs

Art.Nr.: 1008036

Technical Specifications

Confocal Unit	
pinhole configuration	pinhole provided by single mode fiber core
pinhole size	dependent on fibers, typically 3 .. 9 μm mode field diameter
compatible LT-objective	LT-IWDO, LT-LWDO (see accessory section for more information)
Illumination	
excitation wavelength range	limited to wavelength range of single mode fiber, default 650 nm (others on request)
Detection	
detection mode	e.g. reflection, luminescence, fluorescence
detection wavelength range	limited to wavelength range of single mode fiber, default: 650 nm (others on request)
Sample Positioning	
total travel range	3 x 3 x 2.5 mm ³ (open loop)
step size	0.05..3 μm @ 300 K, 10..500 nm @ 4 K
fine scan range	15 x 15 μm^2 @ 4 K, 30 x 30 μm^2 @ 300 K (optional, open loop)
sample holder	Ti plate with integrated heater and calibrated temperature sensor
Suitable Operating Conditions	
temperature range	1.5 K..300 K (dependent on cryostat); mK compatible setup available on request
magnetic field range	0..14 T (dependent on magnet)(16 T compatible version available on request)
operating pressure	designed for He exchange gas
Suitable Cooling Systems	
titanium housing diameter	23.9 mm
bore size requirement	designed for 1" (25.4 mm) cryostat/magnet bore size (e.g. PPMS)
compatible cryostats	see PPMS compatibility chart
Compatibility with Electronics	
laser	LDM600 laser/detector module (for detailed specifications please see attoCONTROL section)

