

attoCFM Ixs

Art.Nr.: 1008035

Technical Specifications

Confocal Unit	
pinhole configuration	two pinholes (fiber apertures), different illumination and collection wavelength possible
pinhole size	dependent on fibers, typically 3 .. 9 μm mode field diameter
compatible LT-objective	LT-AP0/VIS, LT-AP0/VISIR, LT-AP0/NIR(see accessory section for more information)
inspection unit	sample imaging with large field of view: $\sim 54 \mu\text{m}$ (attoDRY), $\sim 40 \mu\text{m}$ (attoLIQUID)
Illumination	
excitation wavelength range	400 .. 1000 nm, default 650 nm (others on request)
illumination port specification	FC/ APC-connector for single mode fibers or free-beam configuration
Detection	
detection mode	e.g. reflection, luminescence, fluorescence, Raman (optional)
detection wavelength range	detector upon user`s choice, typically Si detector (coupling of the light to other detectors)
detection port specification	FC/ APC-connector for single mode fibers or free-beam configuration
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)

