

- Classic stage for optical thermal microscopy and spectroscopy
- -190°C - 400°C with liquid nitrogen cooling option
- Large 38 mm × 50 mm sample area
- XY sample positioning
- Closed chamber with gas purging capability

STRUCTURAL FEATURES

Sample Area	38 mm x 50 mm
Chamber Height	4.0 mm without removeable inner cover 2.1 mm with removeable inner cover
Sample Access	Side-loading cover for quick sample access without refocusing instruments
Sample Positioning	10 mm fine travel with Vernier XY dials for remote manipulation in sealed chambers
Atmosphere Control	Gas purging capability to control humidity, condensation, and oxidation
Frame Cooling	Integrated frame cooling with optional chiller system
Mounting	Horizontal and vertical mounting capability
Frame Dimensions	193 mm x 86 mm x 25.5 mm
Weight	1000 g light-weight aluminum body

OPTICAL FEATURES

Optical access	Reflection and transmission capability
Optical windows	Removable and exchangeable windows permit full-spectrum transparency
Minimum Objective Working Distance	6.2 mm
Minimum Condenser Working Distance	13 mm
Top Window	27 mm diameter
Top Viewing Angle	±60.0° from normal
Transmission Aperture	3 mm diameter
Bottom Viewing Angle	±45° from normal
Window Defrost	Integrated external window defrost

THERMAL FEATURES

Temperature Control	mK2000 with programmable precision switching PID method
Sample Thermal Cover	Removable Inner sample cover with additional window
Temperature Minimum	-190°C (with optional liquid N ₂ cooling)
Temperature Maximum	400°C
Temperature Sensor	100 Ω Platinum RTD
Maximum Heating Rate	+100°C per minute at 100°C
Maximum Cooling Rate	-35°C per minute at 100°C
Minimum Heating and Cooling Rate	±0.1°C per hour
Temperature Resolution	0.01°C
Temperature Stability	±0.05°C (>25°C), ±0.1°C (<25°C)
Power supply	Universal power input
Software	Windows software to record and export temperature-time data

