

- Classic stage for optical thermal microscopy and spectroscopy
- -60°C - 400°C temperature range
- Dual top-bottom heating for reduced vertical temperature gradients.
- Large chamber to fit standard 25 mm × 75 mm microscope slides, liquid crystal cell holders, and electro-optical devices
- Sample side-loading and removeable XY sample positioning

STRUCTURAL FEATURES

Sample Area	38 mm x 50 mm
Chamber Height	2.1 mm with removeable inner cover Additional height with optional spacers
Sample Access	Quick sample access cover pivots from any corner with spring-loaded screws Side-loading holder to fit microscope slides
Sample Positioning	10 mm fine travel with Vernier XY dials for remote manipulation in closed chambers
Frame Cooling	Integrated frame cooling with optional chiller system
Mounting	Horizontal and vertical mounting capability
Frame Dimensions	116.84 mm x 111.76 mm x 23.11 mm
Weight	780 g

OPTICAL FEATURES

Optical Access	Reflection and transmission capability
Optical Windows	Removable and exchangeable windows permit full-spectrum transparency
Minimum Objective Working Distance	7.4 mm
Minimum Condenser Working Distance	10.3 mm
Top Window	27 mm diameter (10 mm inner cover)
Top Viewing Angle	±47° from normal
Transmission Aperture	2 mm diameter (5mm and 8 mm options)
Bottom Viewing Angle	±45° from normal
Window Defrost	Integrated external window defrost

THERMAL FEATURES

Temperature Control	mK2000 with programmable precision switching PID method
Thermal Block	Clear anodized aluminum
Sample Thermal Cover	Removable Inner sample cover with additional window
Temperature Minimum	-60°C (with optional liquid N ₂ cooling)
Temperature Maximum	400°C
Temperature Sensor	100 Ω Platinum RTD
Maximum Heating Rate	+150°C per minute at 100°C
Maximum Cooling Rate	-40°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

