HCS321Gi STAGE

- Classic compact stage for inverted microscope operation
- -190°C - 250°C with resistive heating and liquid nitrogen cooling option
- 23 mm × 28 mm sample area
- Sealed chamber with gas purging

STRUCTURAL FEATURES

Sample Area	23 mm x 28 mm
Chamber Height	11.2 mm without removeable inner cover 5.4 mm with removeable inner cover
Sample Access	Side-loading cover for quick sample access without refocusing instruments
Frame Cooling	Integrated frame cooling with optional chiller system
Mounting	Horizontal and vertical mounting capability
Frame Dimensions	135 mm x 134 mm x 23.5 mm
Weight	610 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	5.39 mm
Minimum Condenser Working Distance	11.21 mm
Top Window	36.5 mm diameter
Top Viewing Angle	±40° from normal
Transmission Aperture	5 mm diameter
Bottom Window	36.5 mm diameter
Bottom Viewing Angle	±50° 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	-80°C (with optional liquid N_2 cooling) -190°C (optional)
Temperature Maximum	250°C
Temperature Sensor	100 Ω Platinum RTD
Maximum Heating Rate	+80°C per minute at 100°C
Maximum Cooling Rate	-30°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