

HEATING AND COOLING STAGES

HCS61 THERMAL STAGE FOR INVERTED MICROSCOPES

Description

The HCS61, Peltier Based Thermal Stage, is an ideal temperature-controlled environment for both upright and inverted microscopes, to accommodate up to 60mm Petri dishes or 2" X 3" slides. An optional lid is available for precision temperature control, gas purge, and atmosphere control. This lid also provides defrosting for below 0°C operations. The HCS61 stage can also be mounted vertically for applications that require horizontal beam access to the sample chamber. It is an ideal solution for applications such as Cell Culture, Biology, and Thermal Microscopy for inverted microscopes.

Features:

- Peltier Based Thermal Stage for Inverted Microscopes
- Programmable Precision Temperature Control from 5°C To 60°C with 0.1°C Temperature Precision
- Optional Wider Temperature Range Available
- Ideal for both Upright and Inverted Microscopy
- Large Sample Area to accommodate up to 60mm Petri Dishes or 2" X 3" Slides
- Large Viewing Window
- Optional Lid for Precision Temperature Control, Gas Purge, Atmosphere Control, and also Providing Defrosting for Below 0°C Operations
- Fast Heating And Cooling Rate
- Configured with STC200 Standalone Temperature Controller with RS232 Communication Port and Windows Based Software
- Optional IEEE488 Communication Port
- Free LabVIEW Drivers for IEEE488 and RS232



HCS61 Thermal Stage With Optional Lid

Technical Specification

Temperature Control Sensor	Platinum RTD
Control Method	PID with variable bipolar DC control
Temperature Range	5 °C to 60 °C Optional wider temperature range available
Temperature Precision	0.1 °C
Temperature Stability	±0.1 °C at 37 °C
Minimum Heating and Cooling Rate	±0.1 °C/Hour
Maximum Heating Rate	+30 °C/Min. at 37 °C
Maximum Cooling Rate	-30 °C/Min. at 37 °C
Minimum Working Distance	0 mm
Sample Area	68mm x 68mm
Sample View Aperture	30 mm diameter
Physical Dimensions of the Stage	7.0" x 3.7" x 1.0"



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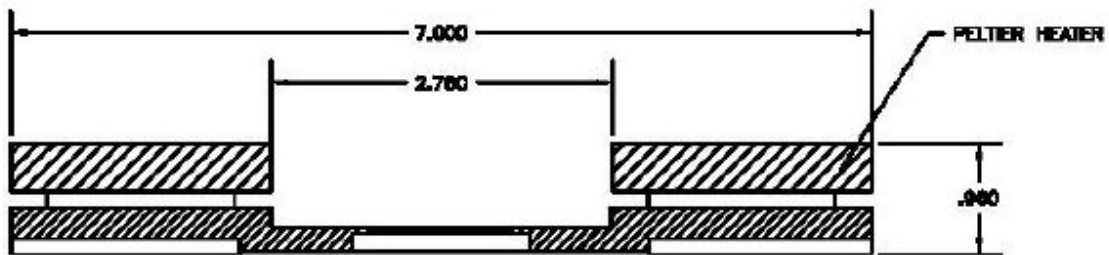
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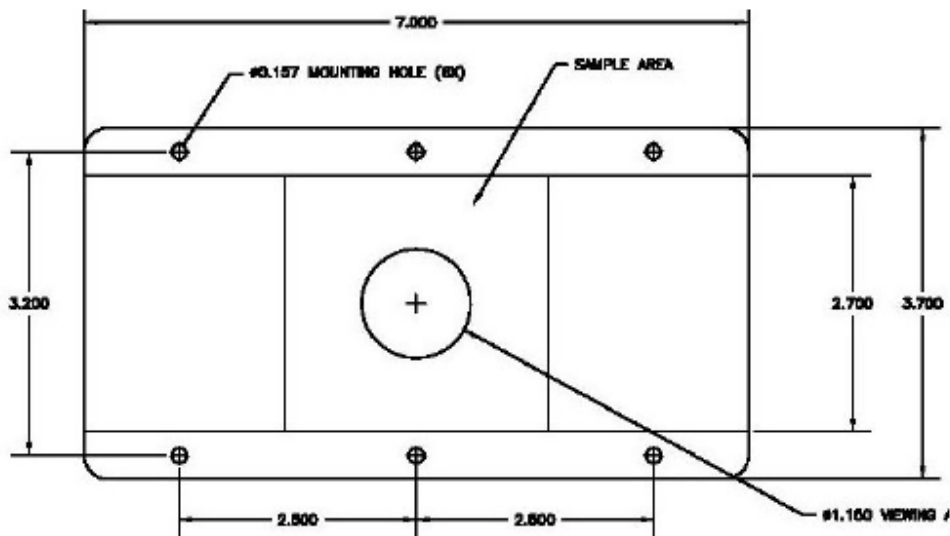
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Cross Section View



Mounting Hole Pattern



Ordering information

Part Number	Description
HCS61-STC20A	HCS61 thermal microscope stage for both inverted and upright microscopes, configured with STC200 controller. Includes one WP115V. RS232 Communication Port. WinTemp Software. 115V Input Voltage.
HCS61-STC20U	HCS61 thermal microscope stage for both inverted and upright microscopes, configured with STC200 controller. Includes one WP230V. RS232 Communication Port. WinTemp Software. 230V Input Voltage.
Lid-HCS61	Optional cover for HCS61 stage for gas purge and environmental control. This part is also required for defrosting when cooling to below 0°C. This cover is suitable for inverted microscope use only.

Accessories

Optional Parts for STC200	Please refer to the STC200 Temperature Controller brochure for add-on STC200 controller optional parts (e.g. IEEE-STC200: IEEE 488 communication port).
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