

# Optical OptiHeat Stage

Good optical adaptability + flexible chamber design +  
diverse temperature control methods

- Wide temperature range coverage
- Compact structure
- High degree of customization
- Convenient software control



## One Platform Many Possibilities

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VLO-RT-200Mini



VLO-RT-600S/VLO-RT-800S

## Overview

### Product Introduction of OptiHeat Stage :

It adopts resistance heating for precise temperature control, with a temperature stability of  $\pm 0.1$  . It supports reflection optical paths, and the windows are uniformly equipped with JGS2 quartz glass. It is compatible with optical instruments such as optical microscopes, supports customized expansion, can meet the needs of variable temperature optical testing in fields such as materials science and biomedicine, and has a compact structural design, facilitating integration and operation.

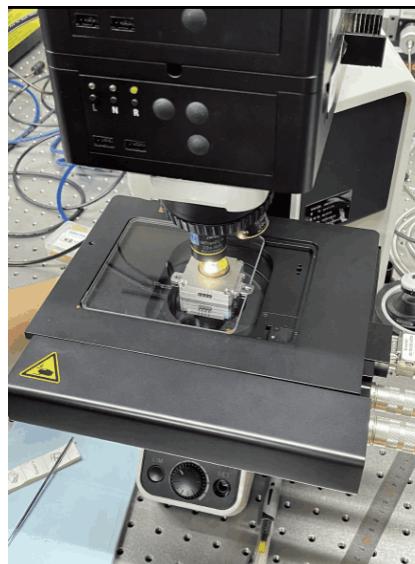
## Specifications

Parameter Item	Parameter Value
Core Heating Method	Resistance heating
Temperature Stability	$\pm 0.1^{\circ}\text{C}$
Window Configuration	JGS2 quartz glass (transmission band 220nm~2500nm, detachable and replaceable manually)
Dedicated Controller Model	GTC-C
Adaptable Instrument Type	Optical microscopes and other optical analysis equipment
Expansion Support	Customizable adapter plates, customized water circulators, etc.
Structural Feature	Compact design, easy for integration and operation
Core Application Field	Variable-temperature optical testing in materials science, biomedicine and other fields

## Application

The **OptiHeat Stage** is a resistance-heated platform designed for precision variable-temperature optical analysis in materials science and biomedicine.

- **Materials Characterization:** Real-time observation of phase transitions, melting, and recrystallization in polymers, metals, and ceramics.
- **High-Temperature Microscopy:** Ideal for studying thermal stability and oxidation processes under controlled heating.
- **Broad-Spectrum Analysis:** Equipped with JGS2 quartz windows (220nm– 2500nm) to support in-situ UV, visible, and IR spectroscopy.
- **System Integration:** Compact design optimized for seamless adaptability with standard optical microscopes.



## Explore Series

Model	Overall Dimensions (LxWxH)	Net Weight	Sample Stage (Material/Size)	Temperature Range
VLO-RT-200Mini	40mmx40mmx12mm	0.2kg	Copper/φ20mmx4mm	RT~200°C
VLO-RT-600S	91mmx97mmx24mm	0.4kg	Silver/23mmx23mm	RT~600°C
VLO-RT-800S	91mmx97mmx24mm	0.4kg	Stainless Steel/23mmx23mm	RT~800°C

 Get in touch with our team to explore configurations, request a quote, or learn more about customized solutions tailored to your needs.

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