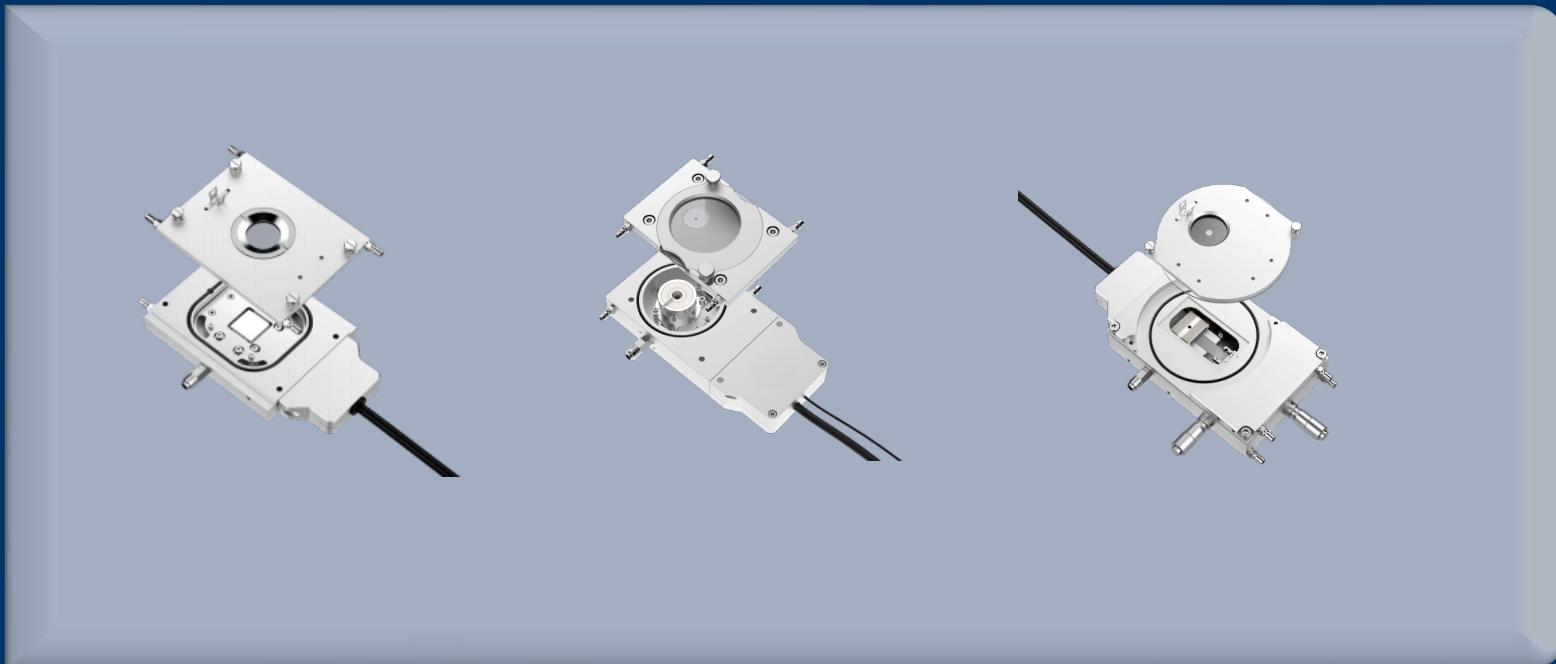


Optical UltraHot Stage

Precise temperature control technology + wide temperature range coverage + optical path and window design

- Excellent high-temperature performance
- Comprehensive customized services
- Compact structure and easy operation



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

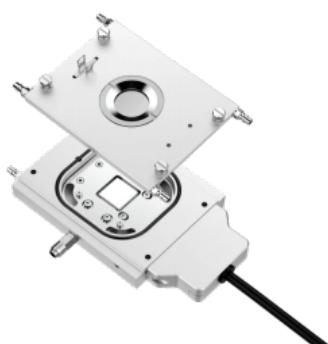
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VLO-RT-1000/VLO-RT-1200



VLO-RT-1500RG



VLO-RT-1400RG-XY

Overview

Introduction to UltraHot Stage:

It adopts resistance heating to achieve precise temperature control and supports reflection or transmission optical paths to meet different observation needs. It is compatible with optical analysis instruments, supports customized expansion, can meet the needs of variable temperature optical testing in high-temperature environments in fields such as materials science, and has a structural design suitable for high-temperature experiments to ensure the safety and stability of the experiments.

Specifications

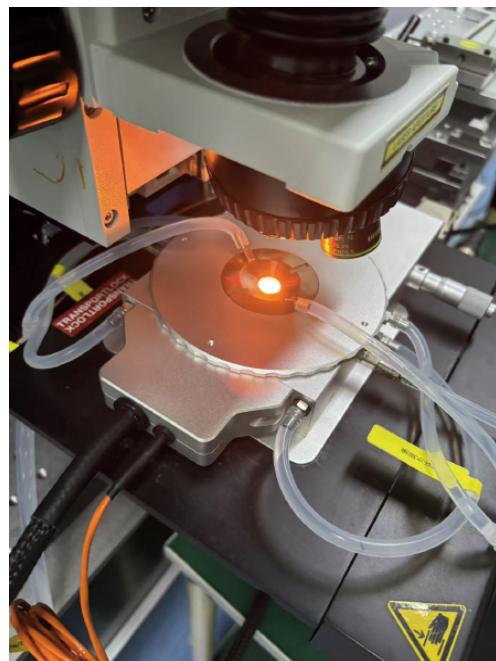
Parameter Item	Parameter Value
Core Heating Method	Resistance heating
Temperature Stability	±0.1°C
Window Configuration	JGS2 quartz glass (transmission band 220nm~2500nm, detachable and replaceable manually)
Adaptable Instrument Type	Optical analysis instruments (e.g., Raman spectrometers, microscopes, etc.)
Expansion Support	Customizable adapter plates, customized water circulators, computer hosts, customized temperature control software, etc.
Chamber Environment	Atmosphere-compatible
Core Application Field	High-temperature variable-temperature optical testing in materials science (e.g., metal melting and solidification, high-temperature recrystallization, crystal research, etc.)

Application

Materials Science: In-situ observation of high-temperature phase transitions, including metal melting, solidification, and recrystallization.

Crystal Research: Analysis of crystal growth and thermal behavior under controlled heating.

Optical Analysis: Optimized for integration with Raman spectrometers and optical microscopes for real-time thermal monitoring.



Explore Series

Model	Sample Stage Size	Temperature Range	Net weight	Overall dimensions
VLO-RT-1000	Ceramics; 20mm×20mm	RT~1000°C	0.8kg	95mm×160mm×24mm
VLO-RT-1200	Ceramics; 20mm×20mm	RT~1200°C	0.8kg	95mm×160mm×24mm
VLO-RT-1500RG	Ceramics; φ 8mm×2mm circular groove	RT~1500°C	1.1kg	165mm×78mm×32mm
VLO-RT-1400RG-XY	Ceramics; 20mm×4mm×20mm (width ×height ×depth) through slot	RT~1400°C	1.1kg	190mm×100mm×31.5mm

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

Let us help you move science forward—faster and smarter.

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