

Metallurgical Microscope

VenusLab U-Met

Inverted and Upright Metallographic Microscope Series

- Multiple form factors available (upright / inverted) to adapt to different sample types
- Supports professional observation modes such as DIC to meet high-precision analysis needs



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
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Visit Us
www.venuslabtech.com

Overview

A Versatile Choice for Metallographic Microscopes

VenusLab U-Met is a series of metallographic microscopes covering both upright and inverted configurations. It is compatible with both basic observation and professional analysis scenarios, and meets various testing needs in the fields of materials and metallography.

Features of VenusLab U-Met

- Both upright and inverted models are optional
- Supports DIC professional mode
- Suitable for observing various types of samples
- Easy to operate and learn
- Covers basic to professional scenarios

Model Table

Model	Core Configuration Highlights	Application Scenario
VL U-Met 3230	Brightfield objective + 12V30W illumination	Basic metallographic observation
VL U-Met 320	Multi-color filter + built-in polarization module	Polarization observation scenarios
VL U-Met 322	Transmitted/reflective dual illumination system	Transmissive/reflective sample compatibility analysis
VL U-Met 323B	Brightfield/darkfield objective + 12V50W illumination	High-brightness darkfield observation
VL U-Met 302	Trinocular head + 0.7 μ m fine focus adjustment	High-precision microscopic imaging
VL U-Met 302B	Brightfield/darkfield objective + large-size stage	Darkfield inspection of large samples
VL U-Met 101	Long-working-distance objective + 154 \times 154mm stage	Routine observation of uncovered samples
VL U-Met 101A	Long-working-distance objective + 204 \times 204mm stage	Observation of large-size uncovered samples
VL U-Met 300	Long-working-distance objective + 63 \times 50mm stage	Metallographic analysis of small samples
VL U-Met 203A	Spring-loaded objective + 4-position nosepiece	Spring-loaded objective compatible scenarios
VL U-Met 203B	Spring-loaded objective + 5-position nosepiece	Multi-objective switching scenarios
VL U-Met 202A	6V20W illumination + 4-position nosepiece	Low-power consumption illumination scenarios
VL U-Met 202B	6V20W illumination + 5-position nosepiece	Low-power consumption + multi-objective switching scenarios
VL U-Met 200A	Long-working-distance objective + double-layer stage	Observation of standard-size samples
VL U-Met 200B	Long-working-distance objective + 5-position nosepiece	Standard sample analysis with multi-objective compatibility

Service & Support

We are dedicated to delivering exceptional optoelectronic solutions to every client. From precision manufacturing and secure delivery to full-lifecycle technical support, we are here to ensure a seamless and reliable experience at every step.

1. Warranty Policy

Quality First, Worry-Free Operation

Warranty Period: We offer a **two-year** warranty service for all of our core optoelectronic products, effective from the date of shipment.

Coverage: We provide free repair or replacement services for malfunctions caused by material defects or workmanship errors under normal operating conditions.

Rapid Response: Upon receiving a warranty claim, we guarantee to initiate the assessment process within **24 hours** to minimize your equipment downtime.

2. Technical Support

Expert Team, Full-Process Guidance

Technical Consultation: Our team of senior optical engineers provides **24/7 online support** to assist with installation, commissioning, optical path alignment, and parameter optimization.

Scheduled Maintenance: We offer full-lifecycle maintenance recommendations, including firmware upgrades, optical component cleaning guidelines, and precision calibration services.

Training Services: We provide customized remote or on-site operational and safety training to ensure your team can operate the equipment efficiently and safely.

3. Logistics & Delivery

Precision Packaging, Global Reach

Professional Packaging: Given the fragile nature of optical instruments, we utilize industrial-grade shockproof, anti-static, and moisture-proof vacuum packaging to ensure zero damage during transit.

Logistics Partners: We partner with top-tier global logistics providers (**DHL / FedEx / UPS / SF Express**) to offer reliable shipping with real-time tracking.

Shipping Insurance: All shipments are fully insured to eliminate logistics risks.

4. Compliance & Certification


Strict Standards, Total Compliance

Quality Certification: Our manufacturing process is **ISO 9001 certified**, and our products comply with international standards such as **CE and RoHS**.

Export Compliance: "Committed to environmental responsibility, all our products comply with **RoHS 2.0** and **REACH standards**, ensuring safety and global compliance."

Explore Series

Model	Stage Parameters	Illumination System Parameters	Filter Configuration
VL U-Met 3230	Double-layer mechanical stage (210×140mm, travel range 63×50mm)	12V30W halogen lamp (transmitted/epi-illumination)	Yellow/blue/green filters + frosted glass
VL U-Met 320	Double-layer mechanical stage (210×140mm, travel range 63×50mm)	6V30W halogen lamp (transmitted/epi-illumination)	Yellow/blue/green/red filters
VL U-Met 323B	Double-layer mechanical stage (210×140mm, travel range 63×50mm)	12V50W halogen lamp (epi-illumination); 12V30W halogen lamp (transmitted)	Blue filter + frosted glass
VL U-Met 302	Stage Size/Travel Range (280mm×270mm / 204mm×204mm)	12V30W halogen lamp	Yellow, blue, green, frosted glass

 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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