

Piezo Stages

VenusLab Piezo Motion Controller

Intelligent Core for Nanopositioning

- Works with all VenusLab piezo stages.
- Real-time grating sensing for nanometer stability.



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com

Overview

Driving Precision to the Limit

The VenusLab Piezo Motion Controller is the "brain" of our positioning systems. Designed for ultrasonic piezo motors, it combines precision high-voltage drive with intelligent closed-loop algorithms to deliver smooth speed control and sub-micron accuracy, transforming complex motion tasks into simple digital commands.

Applications

- Automated Optical Alignment
- Semiconductor Inspection
- Micro-Manipulation
- Precision Laser Processing

Technical Specifications

Model Name	Travel (mm)	Drive Type	Max Load (kg)	Max Speed (mm/s)	Min Step (nm)	Material	Weight (kg)
VL-LA-12	12	Piezo Motor	1.5	0.5	30	Aluminum Alloy	0.55
VL-CTRL-PZ	N/A	Piezo Drive	N/A	N/A	N/A	N/A	N/A

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	Weight (kg)	Max Load (kg)	Travel (mm)	Max Speed (mm/s)
VL-LA-12	0.55	1.5	12	0.5
VL-CTRL-PZ	N/A	N/A	N/A	N/A

 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.

[Get a Quote](#)



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