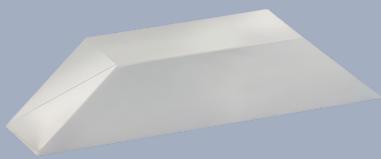


Optical Prisms

Dove Prism

A precision image rotator designed for collimated light

- Unique 2 Image Rotation
- Zero Beam Deviation
- High Surface Quality & Parallelism
- Optimized for Collimated Light



One Platform Many Possibilities

Contact Us sales@venuslabtech.com

Get a Quote



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com

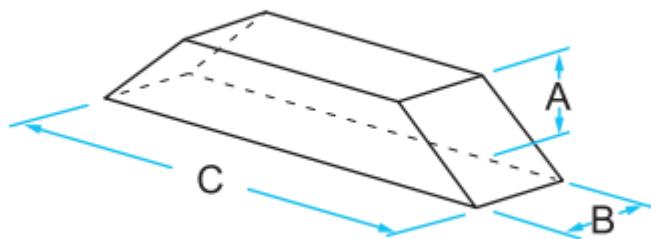
Overview

In-line Image Control: Precision Solution for 2 Image Rotation

The Dove Prism is a unique image rotator, essentially a truncated version of a right-angle prism. Its most distinctive property is the 2 rotation: as the prism is rotated by an angle around the optical axis, the transmitted image rotates by 2. This makes it an indispensable tool for adjusting image orientation in interferometry, astronomy, and high-speed imaging.

Due to its significant glass path and refractive nature, the Dove Prism must be used in **collimated light** (parallel beams). Light undergoes Total Internal Reflection (TIR) at the base, resulting in an inverted image while maintaining the original optical axis (in-line transmission). We offer Dove Prisms in various sizes and materials, including K9 (N-BK7) and UV Fused Silica, with optional black-painted sides to eliminate stray light.

Structural Diagram:



Qualification

Technical Specifications

Parameter	Specification
Material	K9 Grade A Optical Glass (N-BK7 Equivalent)
Surface Flatness	$\lambda/4$ @ 632.8 nm
Surface Quality	40-20 Scratch-Dig
Dimension Tolerance	± 0.1 mm
Angle Tolerance	± 3 arc min
Beam Deviation	< 3 arc min
Clear Aperture	$> 90\%$ of Surface Dimensions
Coating	Uncoated / AR Coating (Optional)
Side Finish	Fine Ground (Black Paint available upon request)

Selection Chart

Ordering Information

Item No.	Height (H) (mm)	Length (L) (mm)	Aperture (A) (mm)	Material
VLDV10	10.0	42.3	10.0	K9 (N-BK7)
VLDV20	20.0	84.6	20.0	K9 (N-BK7)

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	Length (L) (mm)	Height (H) (mm)	Material	Aperture (A) (mm)
VLDV10	42.3	10.0	K9 (N-BK7)	10.0
VLDV20	84.6	20.0	K9 (N-BK7)	20.0

 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](#)



Get Expert Advice
+65 8099 5547



Visit Us
www.venuslabtech.com