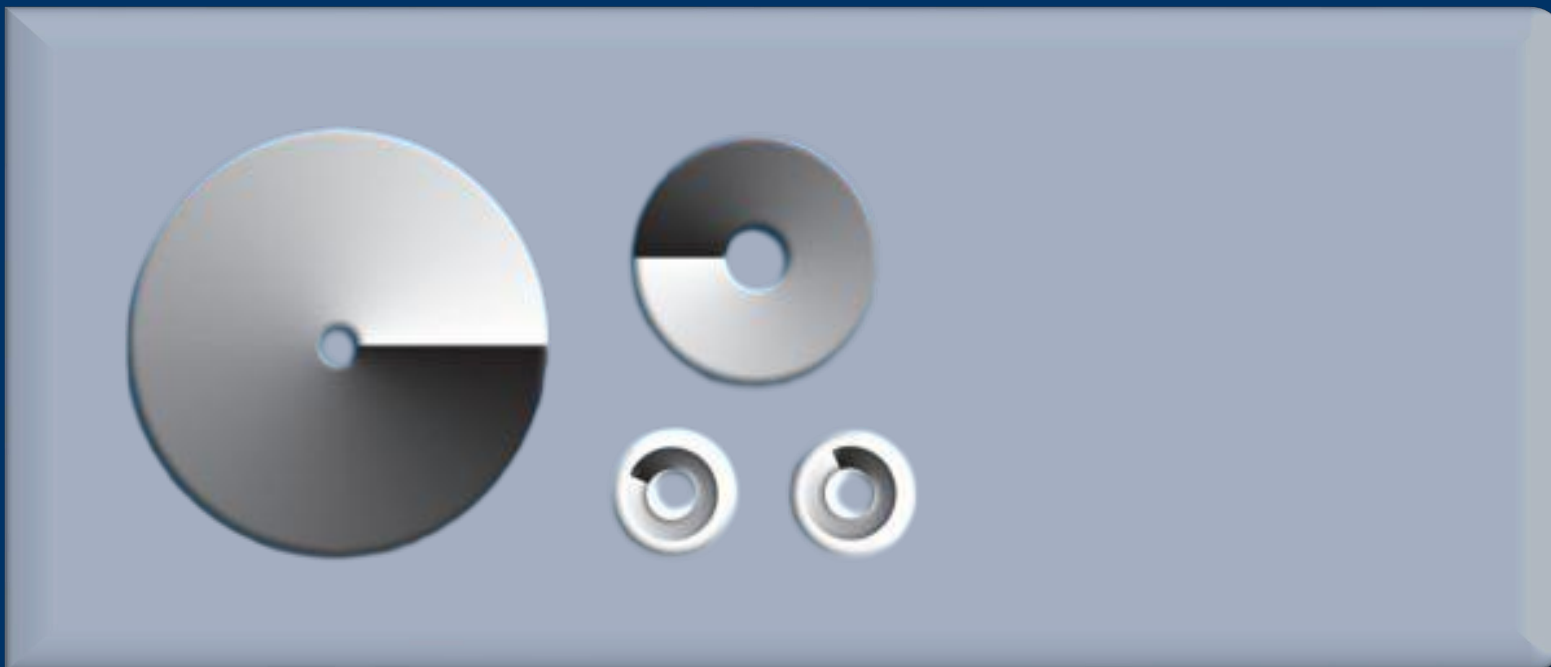


Optical Filter

Circular Variable Neutral Density Filter

Rotational Continuous Intensity

- Rotational Adjustment
- Broadband Neutrality
- Wide Dynamic Range
- Dual Sizes



One Platform Many Possibilities

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Get a Quote



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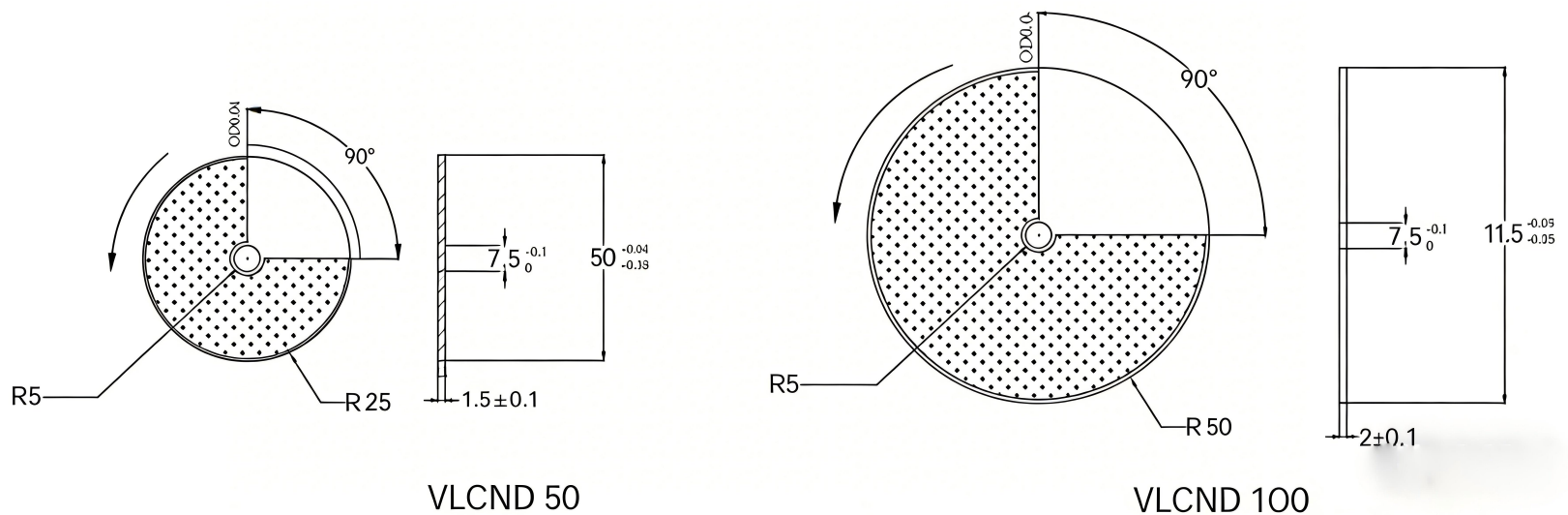
Overview

Dynamic Control: Stepless Intensity Tuning via Precision Rotation

The VenusLab VLCND Series addresses the inflexibility of fixed filters in handling varying light intensities. These filters feature a coating where optical density gradients along the angle. Maintaining spectral neutrality, they can be used to dynamically adjust the total transmitted light energy of a system or control the intensity distribution across the beam cross-section.

Available in 50mm and 100mm standard sizes, the recommended operating range is 400-700nm (Visible), with substrate support extending to 2000nm for NIR applications. The center hole design facilitates mounting on rotating shafts, making them ideal components for laboratory research and industrial instrument integration.

Dimensions:



Qualification

Circular Variable Filter Technical Specifications

Technical Parameter	Specification Data
Filter Type	Circular Variable Neutral Density
Wavelength Range	380 - 2000 nm
Recommended Wavelength	400 - 700 nm
Optical Density Range	0.04 - 4.0 (Model Dependent)
Available Diameters	50mm, 100mm
Adjustment Method	Rotational

Selection Chart

VLCND Series Ordering Information & Model List

Model	Size (mm)	OD Range	Wavelength (nm)
VLCND-50-1.0	50	0.04-1.0	380-2000
VLCND-50-1.5	50	0.04-1.5	380-2000
VLCND-50-2.0	50	0.04-2.0	380-2000
VLCND-50-3.0	50	0.04-3.0	380-2000
VLCND-50-4.0	50	0.04-4.0	380-2000
VLCND-100-1.0	100	0.04-1.0	380-2000
VLCND-100-1.5	100	0.04-1.5	380-2000
VLCND-100-2.0	100	0.04-2.0	380-2000
VLCND-100-3.0	100	0.04-3.0	380-2000
VLCND-100-4.0	100	0.04-4.0	380-2000

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	OD Range	Size (mm)	Wavelength (nm)
VLCND-50-2.0	0.04-2.0	50	380-2000

 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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