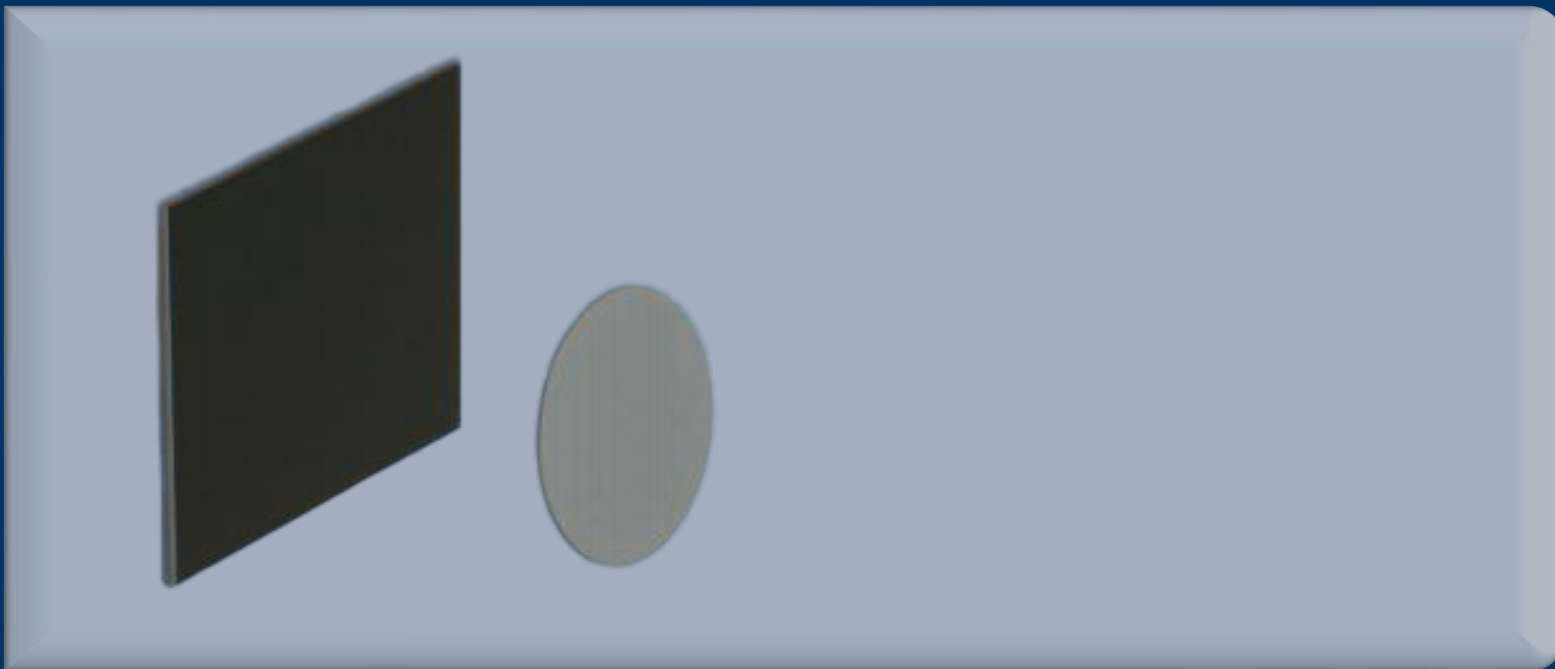


# Optical Filter

## Fixed Neutral Density Filter

Precise Control of Light Attenuation

- Absorptive Type
- Spectrally Neutral
- Wide OD Range
- Dual Form Factors



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## Overview

### Pure Attenuation: Absorptive Neutral Density Filters for Accurate Metrology

The VenusLab VLND Series consists of absorptive neutral density filters used to control light quantity. Their core advantage lies in "optical neutrality," meaning the filter's transmission characteristics are largely independent of the incident wavelength.

Light passing through the filter is attenuated in intensity while its color remains unaffected. This property makes them indispensable standards in imaging systems and spectral analysis. Offered in both circular and square shapes to suit various mounting requirements, the VLND Series delivers stable, repeatable attenuation for both precision laboratory setups and industrial inspection integration.

## Qualification

### Fixed Density Filter General Specifications

Technical Parameter	Specification Data
Filter Type	Absorptive Neutral Density
Spectral Characteristic	Spectrally Flat / Neutral
Available Shapes	Circular ( 25.4mm), Square (50x50mm)
Optical Density Range	OD 0.045 ~ OD 4.0
Transmission Range	90% ~ 0.01%
Color Effect	None (Does not affect light color)

## Selection Chart

### VLND Series Ordering Information & Model List

Model	Shape	OD	T (%)	Size (mm)
VLND-25-0.045	Circular	0.045	90	25.4
VLND-25-0.1	Circular	0.1	79	25.4
VLND-25-0.2	Circular	0.2	63	25.4
VLND-25-0.3	Circular	0.3	50	25.4
VLND-25-0.4	Circular	0.4	39.8	25.4
VLND-25-0.5	Circular	0.5	32	25.4
VLND-25-0.6	Circular	0.6	25	25.4
VLND-25-0.8	Circular	0.8	15.8	25.4
VLND-25-1.0	Circular	1	10	25.4
VLND-25-1.5	Circular	1.5	3.2	25.4
VLND-25-2.0	Circular	2	1	25.4
VLND-25-3.0	Circular	3	0.1	25.4
VLND-25-4.0	Circular	4	0.01	25.4
VLND-50-0.045	Square	0.045	90	50*50
VLND-50-0.1	Square	0.1	79	50*50
VLND-50-0.2	Square	0.2	63	50*50
VLND-50-0.3	Square	0.3	50	50*50
VLND-50-0.4	Square	0.4	39.8	50*50
VLND-50-0.5	Square	0.5	32	50*50
VLND-50-0.6	Square	0.6	25	50*50
VLND-50-0.8	Square	0.8	15.8	50*50
VLND-50-1.0	Square	1	10	50*50
VLND-50-1.5	Square	1.5	3.2	50*50
VLND-50-2.0	Square	2	1	50*50
VLND-50-3.0	Square	3	0.1	50*50
VLND-50-4.0	Square	4	0.01	50*50

## 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	Size (mm)	Shape	OD	T (%)
VLND-25-0.045	25.4	Circular	0.045	90
VLND-50-1.0	50*50	Square	1	10
VLND-25-4.0	25.4	Circular	4	0.01

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

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