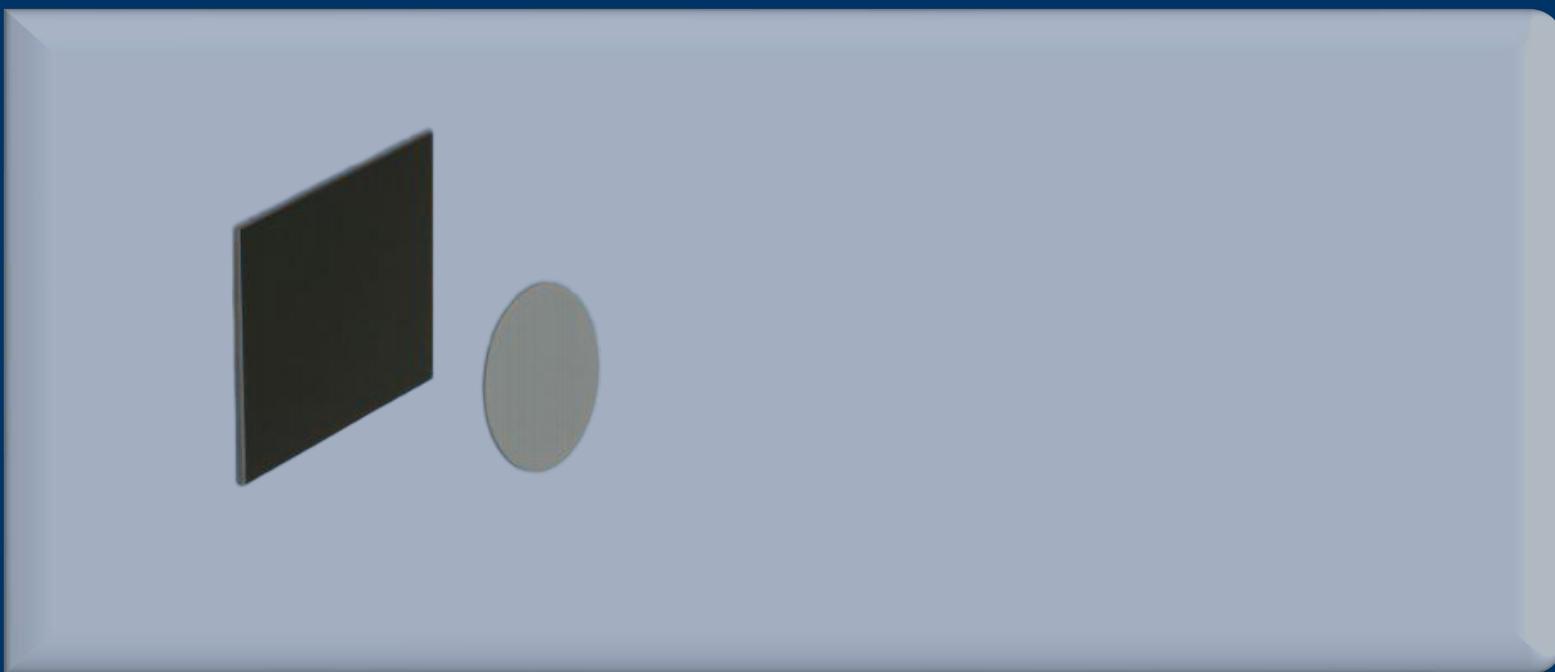


Optical Filter

Fixed Neutral Density Filter

Precise Control of Light Attenuation

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



One Platform Many Possibilities

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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

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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