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› K&F CONCEPT 49mm VND2-32 & CPL Filter Nano-X PRO Series Instruction Manual

K&F CONCEPT KF01.2493

K&F CONCEPT 49mm VND2-32 & CPL Filter Nano-X PRO Series Instruction Manual

Model: KF01.2493

1. INTRODUCTION

This manual provides instructions for the K&F CONCEPT 49mm VND2-32 & CPL Filter, part of the Nano-X PRO Series. This 2-in-1 filter combines a variable neutral density (VND) filter with a circular polarizer (CPL) filter, offering versatile light control and color enhancement for photography and videography. The filter is designed with a durable brass frame and multi-layer coatings for optimal performance.

2. SETUP

2.1 Identifying Your Lens Filter Size

Before attaching the filter, confirm your camera lens filter thread size. This is typically marked on the front of your lens or on the lens cap, often preceded by a "Ø" symbol (e.g., Ø49mm). This filter is designed for lenses with a 49mm thread size.

How to Choose the Right Filter Size?



" ϕ " general
position reference



ø82mm



ø82mm



ø77

Image: Locating the filter thread size on a camera lens.

2.2 Attaching the Filter

1. Carefully align the filter's threads with the threads on your camera lens.
2. Gently rotate the filter clockwise until it is securely attached. The brass frame is designed for smooth installation. Avoid overtightening.
3. Ensure the filter is level and fully seated to prevent light leaks or damage.

Precision Brass Frame

CNC-machined for smooth, secure control.

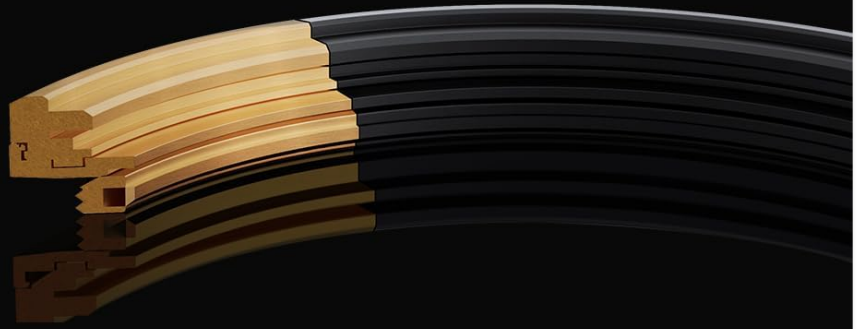


Image: Attaching the filter to a camera lens, highlighting the precision brass frame.

3. OPERATING THE FILTER

This filter combines two essential functions: variable neutral density (VND) and circular polarization (CPL). Both can be adjusted independently.

3.1 Variable Neutral Density (VND) Function

The VND component allows for 1 to 5 stops of light reduction (ND2, ND4, ND8, ND16, ND32). This is useful for maintaining desired aperture and shutter speed settings in varying light conditions, such as bright daylight or for achieving longer exposures.

- **Adjusting ND:** Rotate the outer ring of the filter to increase or decrease the neutral density effect. Markings on the filter indicate the stop values.

- **Applications:** Ideal for shooting video in bright conditions, creating motion blur in water or clouds, and controlling depth of field with wide apertures.

3.2 Circular Polarizer (CPL) Function

The CPL component reduces reflections from non-metallic surfaces (like water or glass) and enhances color saturation, particularly in skies and foliage.

- **Adjusting CPL:** Rotate the inner ring of the filter to observe changes in polarization through your camera's viewfinder or live view. The effect is most pronounced at a 90-degree angle to the sun.
- **Applications:** Removing glare from water, deepening blue skies, enhancing green foliage, and reducing reflections in windows.



ND2-32 + CPL in One
1-5 Stop light control
with built-in polarization.

Image: Visual representation of the ND and CPL functions on the filter.

3.3 Combined Use and Optical Performance

The filter features 36 multi-layer nanometer coatings on both glass surfaces, ensuring color balance, minimal color shift, and high transmittance. This advanced coating technology reduces reflectivity to 0.15%, minimizing ghosting and glare.

0.15% Ultra-low Reflectivity & True-to-life Color

Minimizes flare and ghosting for cleaner, clearer shots.



Without



With

Image: Comparison showing the effect of the filter on reflections and color.

The ultra-slim frame, precision-machined to 0.01mm, is designed to prevent vignetting on both telephoto and wide-angle lenses.

Minimal Vignetting

Ultra-thin frame, wide-angle & telephoto ready.



Image: The ultra-slim frame design preventing vignetting.

3.4 Official Product Videos

Your browser does not support the video tag.

Video: Demonstration of the 36 Multi-Coated Brass Frame Variable ND2-32 & CPL 2-in-1 Filter by K&F Concept. This video highlights the filter's construction and dual functionality.

Your browser does not support the video tag.

Video: Overview of the X PRO Variable ND (1-5 Stops) & Polarizer in 1 Lens Filter by K&F Concept. This video showcases the filter's variable neutral density and polarizing capabilities.

4. MAINTENANCE

4.1 Cleaning the Filter

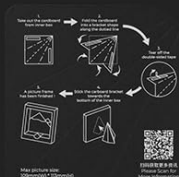
The filter features waterproof and scratch-resistant coatings, making it durable and easy to clean.

- Use a soft, clean microfiber cloth to gently wipe away dust or smudges.
- For stubborn marks, use a lens cleaning solution specifically designed for optical glass. Apply a small amount to the cloth, not directly to the filter.
- Avoid using abrasive materials or harsh chemicals, as these can damage the coatings.

What's in the Box



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Image: Water, oil, and scratch-resistant multi-layer nano coating.

4.2 Storage

When not in use, store the filter in its provided leather filter bag to protect it from dust, scratches, and impacts. Keep it in a cool, dry place away from direct sunlight.

Crafted with Care

Unique ID · Leather Case



Image: The filter and its protective leather case.

5. TROUBLESHOOTING

- **Vignetting:** While the ultra-slim frame is designed to minimize vignetting, some extreme wide-angle lenses or stacking multiple filters may still exhibit slight vignetting. Adjust your focal length or consider removing additional filters if this occurs.
- **"X" Pattern:** This filter is designed to avoid the "X" pattern common with some variable ND filters. If you observe an "X" pattern, ensure the filter is not rotated beyond its intended ND range.
- **Color Shift:** The 36 multi-layer coatings are engineered to prevent color shift. If you notice an undesirable color cast, check your camera's white balance settings.
- **Filter Stuck on Lens:** Avoid overtightening the filter. If it becomes stuck, try using a rubber grip or a filter wrench for gentle removal.

- **Lens Cap Compatibility:** Due to the filter's design, standard lens caps may not fit over it. Consider using a larger lens cap or a dedicated filter cap if needed.

6. SPECIFICATIONS

Feature	Detail
Brand	K&F CONCEPT
Model Number	KF01.2493
Material	Optical Glass
Photo Filter Thread Size	49 millimeters
Coating Description	36 Multi-Layer Nano Coating
Photo Filter Effect Type	Variable Neutral Density (ND2-32) & Circular Polarizer (CPL)
Water Resistance Level	Waterproof
Photo Filter Factor	ND2 to ND32 (1-5 stops)
Product Dimensions	1.93"L x 1.93"W
Item Weight	280 g
Frame Material	Brass
Reflectivity	0.15% Ultra-low

7. WHAT'S IN THE BOX

The product package includes the following items:

- K&F CONCEPT 49mm VND2-32 & CPL Filter
- Leather Filter Bag
- Cleaning Cloth
- Instruction Manual

Water, Oil & Scratch Resistant

multi-layer nano coating. Built to endure any environment.

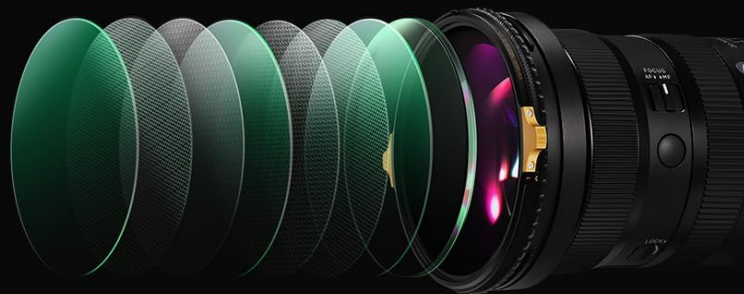


Image: Contents of the K&F CONCEPT filter package.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your K&F CONCEPT product, please refer to the official K&F CONCEPT website or contact their customer service directly. Contact details are typically provided on the product packaging or within the included documentation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question