K&F CONCEPT KF01.1088

K&F CONCEPT 82mm Nano-X Series Variable Fader ND2-ND32 ND and CPL 2-in-1 Camera Lens Filter Instruction Manual

Model: KF01.1088

1. Introduction

Thank you for choosing the K&F CONCEPT 82mm Nano-X Series Variable Fader ND2-ND32 ND and CPL 2-in-1 Camera Lens Filter. This innovative filter combines the functions of a Neutral Density (ND) filter and a Circular Polarizing (CPL) filter into a single unit, offering enhanced control over light and reflections in your photography and videography. This manual provides essential information for proper setup, operation, and maintenance to ensure optimal performance and longevity of your filter.



Image 1.1: K&F CONCEPT 82mm Variable ND2-ND32 and CPL 2-in-1 Filter.

2. Key Features

- **2-in-1 ND & CPL Functionality:** Combines variable neutral density (ND2-ND32) for light reduction and circular polarization (CPL) for reflection control and color enhancement.
- **No "X" Cross Pattern:** Advanced technology eliminates the common "X" cross dark spot issue found in variable ND filters, especially on wide-angle lenses.
- **High-Quality Optical Glass:** Made from imported AGC optical glass for superior image clarity and durability.
- **28 Multi-Layer Coatings:** Features 28 layers of nano-coatings, providing 0.2% ultra-low light transmittance, anti-glare properties, and enhanced protection.
- **Waterproof & Scratch-Resistant:** The multi-layer coatings make the filter waterproof and highly resistant to scratches, protecting your lens in various conditions.
- **Durable Aluminum Alloy Frame:** Constructed with an aluminum alloy frame featuring a CNC non-slip design for easy installation and removal.
- **Adjustable ND Stops:** Clearly marked settings from Min to ND32 on the frame allow for precise control over

light reduction.



Image 2.1: Visual representation of the 2-in-1 ND and CPL filter's combined functionality.

3. Package Contents

Upon opening your K&F CONCEPT filter package, you should find the following items:

- 1 x K&F CONCEPT 82mm Variable Fader ND2-ND32 ND and CPL 2-in-1 Filter
- 1 x Protective Filter Case
- 1 x Microfiber Cleaning Cloth



Image 3.1: The filter, protective case, and cleaning cloth included in the package.

4. Setup

4.1 Identifying Your Lens Thread Size

Before attaching the filter, verify your camera lens's thread size. This is typically indicated by a "⌀" (diameter) symbol followed by a number (e.g., ⌀82mm) printed on the front of your lens barrel or on the underside of your lens cap.

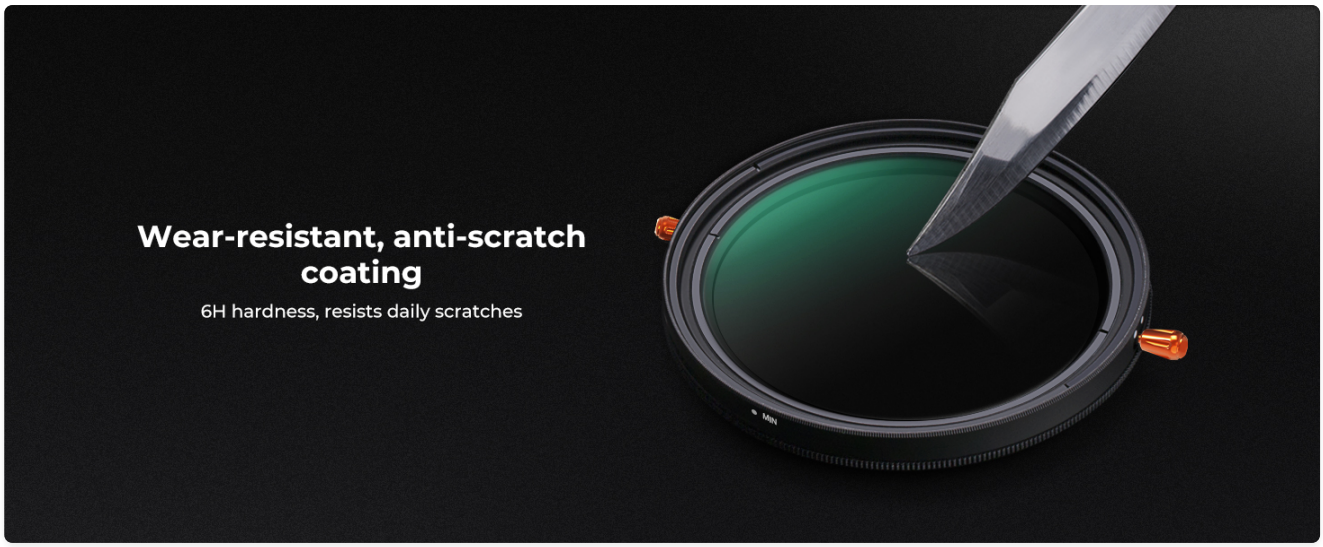


Image 4.1: Locating the lens thread size, indicated by the diameter symbol (⌀).

4.2 Attaching the Filter

1. Gently align the filter's threads with the threads on the front of your camera lens.
2. Rotate the filter clockwise until it is securely fastened. Avoid overtightening.
3. **Note:** For this 82mm ND filter, a 95mm lens cap/hood is required if you wish to use one, as the front frame of the variable ND filter is two sizes larger than the rear frame. Direct attachment of a lens hood may not be possible.



Image 4.2: Illustration of the filter's dimensions and lens cap requirement.

5. Operating the Filter

5.1 Adjusting Neutral Density (ND)

The variable ND function allows you to control the amount of light entering your lens, enabling slower shutter speeds or wider apertures in bright conditions. This filter provides a range from ND2 (1 stop) to ND32 (5 stops) of light reduction.

- Locate the small metal pins on the side of the filter frame.
- Rotate the inner ring of the filter using these pins to adjust the ND strength.
- The frame is marked from "Min" to "ND32" to indicate the current ND setting.



Image 5.1: Demonstrating how the ND filter prevents overexposure in bright conditions.

5.2 Adjusting Circular Polarization (CPL)

The CPL function helps to reduce unwanted reflections from non-metallic surfaces like water or glass, and enhances color saturation and contrast in your images.

- While the filter is attached to your lens, gently rotate the outer ring of the filter.
- Observe the effect through your camera's viewfinder or live view screen to achieve the desired level of polarization.



Image 5.2: Example of how the CPL filter eliminates reflections from water surfaces.

5.3 Combined Effect

The 2-in-1 design allows you to utilize both effects simultaneously, offering versatile control for various shooting scenarios.

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Video 5.1: An overview of the 28 Multi-Coated ND2-32 & CPL 2-in-1 Filter from K&F Concept, demonstrating its features and usage.

6. Maintenance

6.1 Cleaning the Filter

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

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

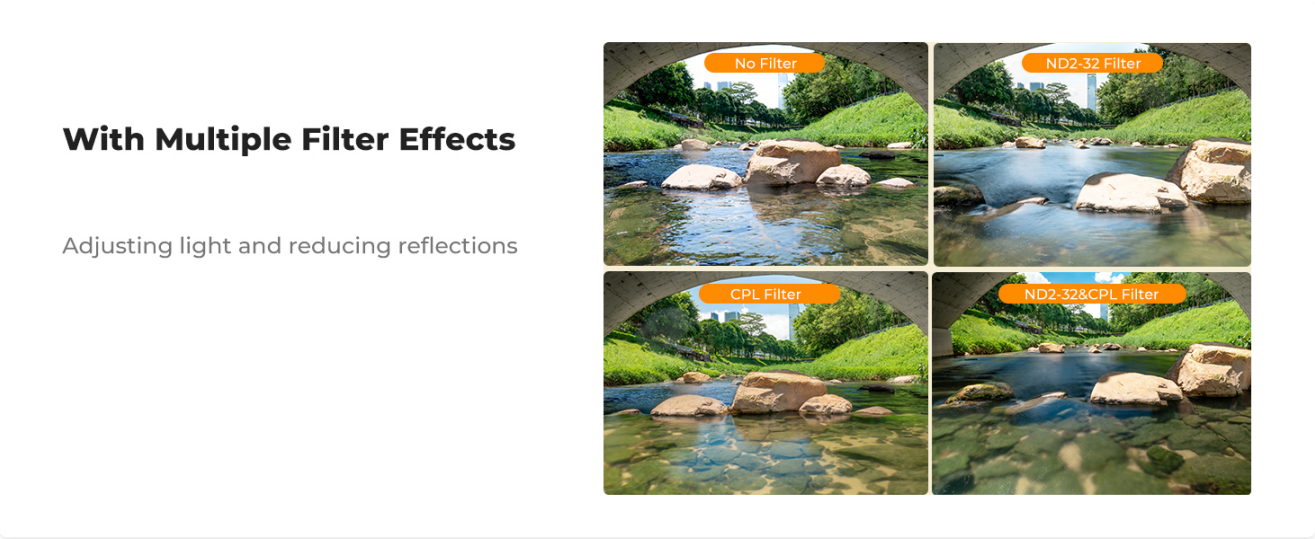


Image 6.1: Visual proof of the filter's waterproof and scratch-resistant coatings.

6.2 Storage

When not in use, store the filter in its protective case to prevent dust accumulation and accidental damage.

7. Troubleshooting

7.1 "X" Cross Pattern

The K&F CONCEPT Nano-X Series filter is designed to eliminate the common "X" cross dark spot issue. If you observe any unusual dark patterns, ensure the filter is correctly aligned and not rotated beyond its intended variable range. Excessive rotation past the marked limits can sometimes induce artifacts.

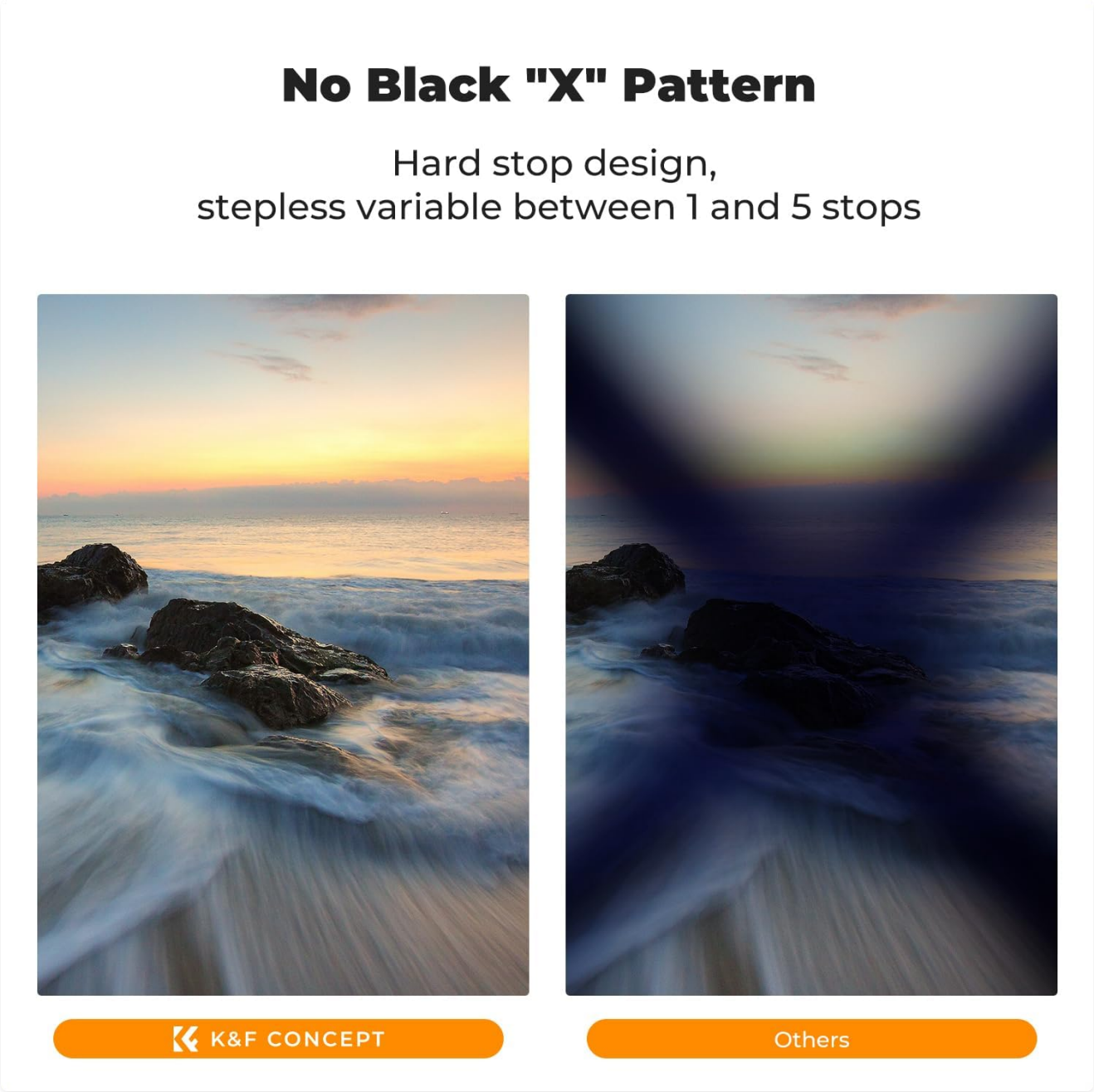


Image 7.1: The K&F CONCEPT filter's ability to avoid the "X" cross pattern.

7.2 Vignetting

This filter features a thin frame design to minimize vignetting (darkening at the corners of the image), especially when used with wide-angle lenses. If vignetting occurs, ensure the filter is fully seated and consider adjusting your focal length or aperture.

8. Specifications

Feature	Detail
Brand	K&F CONCEPT
Model Number	KF01.1088
Product Dimensions	21.65 x 2.17 x 0.04 inches (Filter: 3.23"L x 3.23"W)
Item Weight	0.705 ounces

Feature	Detail
Material	Optical Glass, Aluminum Magnesium Alloy
Photo Filter Thread Size	82 Millimeters
Coating Description	28 Multi-Layer Coating
Photo Filter Effect Type	Polarizer, Neutral Density (Variable ND2-ND32)
Water Resistance Level	Waterproof
Photo Filter Factor	32 x (ND32)
Set Name	ND & CPL 2 in 1

9. Warranty & Support

K&F CONCEPT products are manufactured to high-quality standards. For any warranty claims, technical support, or product inquiries, please refer to the contact information provided on your product packaging or visit the official K&F CONCEPT website. Please retain your proof of purchase for warranty service.

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