

K&F CONCEPT Nano-X Series 77mm Black Diffusion Mist Effect 1/4 & Variable ND2-32 & CPL Lens Filter

K&F CONCEPT 77mm Nano-X Series 3-in-1 Black Diffusion, Variable ND2-32, and CPL Lens Filter Instruction Manual

Model: Nano-X Series 77mm Black Diffusion Mist Effect 1/4 & Variable ND2-32 & CPL Lens Filter

1. INTRODUCTION

This manual provides detailed instructions for the K&F CONCEPT 77mm Nano-X Series 3-in-1 Lens Filter. This innovative filter combines three essential photographic effects into a single unit: a Black Diffusion 1/4 effect, a Variable Neutral Density (ND2-32) filter, and a Circular Polarizing (CPL) filter. Designed for versatility and convenience, it allows photographers and videographers to achieve creative control over light, reflections, and atmospheric effects without needing to swap multiple filters.



The K&F CONCEPT 77mm Nano-X Series 3-in-1 Lens Filter, shown with its protective case and cleaning cloths.

2. KEY FEATURES

- **3-in-1 Functionality:** Integrates Black Diffusion 1/4, Variable ND2-32 (1-5 stops), and CPL effects into one filter, simplifying equipment and workflow.
- **Black Diffusion 1/4 Effect:** Softens highlights, reduces contrast, and creates a cinematic, dreamy look, ideal for portraits and atmospheric scenes.
- **Variable ND2-32 (1-5 Stops):** Provides precise control over light reduction, allowing for wider apertures in bright conditions and longer exposures. The filter frame utilizes self-locking technology to prevent the "X" cross pattern common in some variable ND filters.
- **Circular Polarizing (CPL) Filter:** Eliminates unwanted reflections from non-metallic surfaces like water or glass, enhances color saturation, and improves contrast, particularly in skies and foliage.
- **28 Multi-Layer Advanced Coatings:** Features double-sided 28-layer nano-coatings for resistance against water, oil, dust, and scratches, ensuring durability and easy maintenance.
- **High-Quality Optical Glass:** Constructed from imported optical AGC glass for crystal-clear results and minimal color shift.

- **Slim Design:** Engineered to be thinner than stacking multiple filters, reducing the risk of vignetting, especially on wide-angle lenses.

One Filter, Three Functions

Reduces exposure, eliminates reflections, and softens the highlight



Illustration of the three integrated functions: Variable ND2-32, CPL, and Black Diffusion 1/4.

Avoid Vignetting

Thinner than 3 filters stacked to avoid vignetting



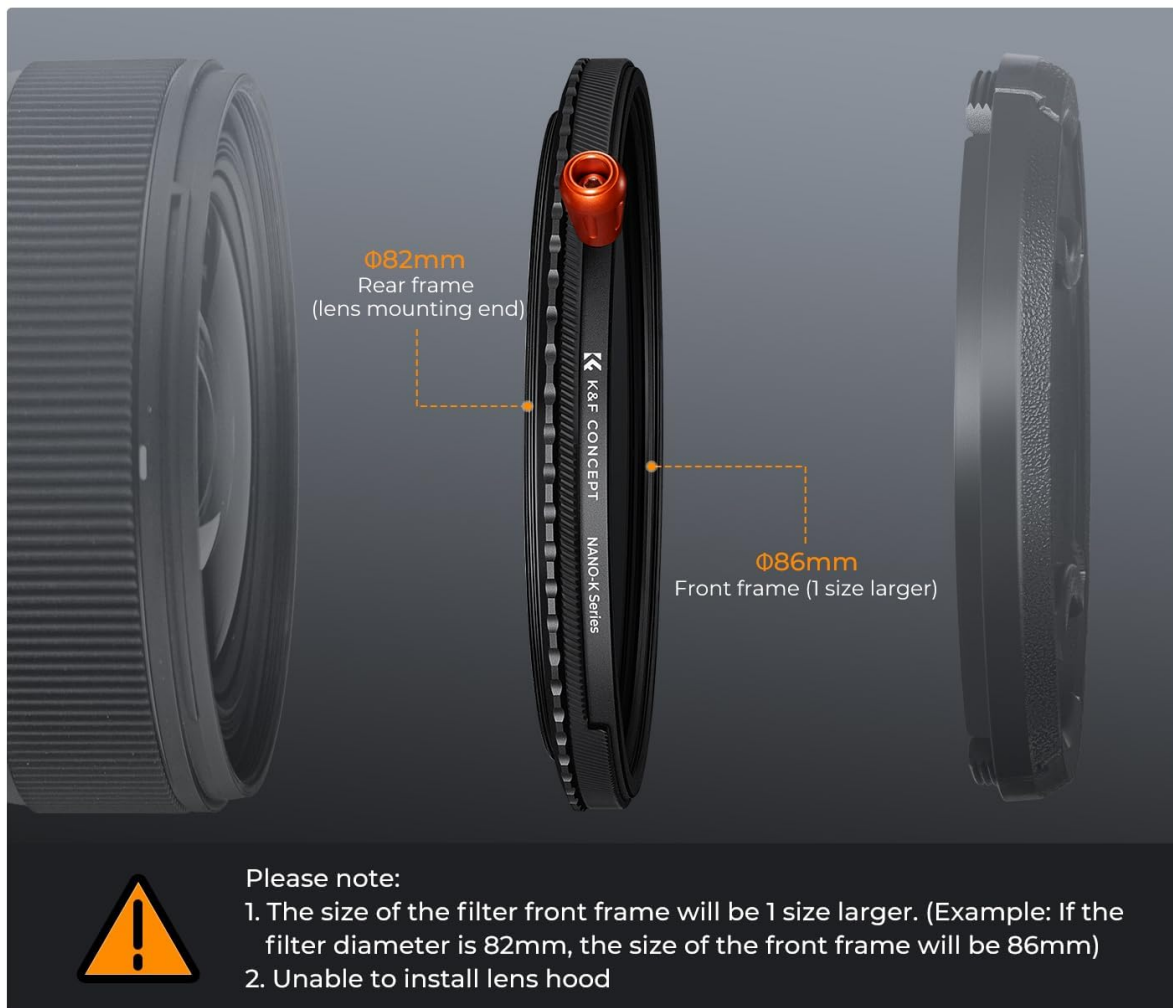
Visual demonstration of the filter's effects: exposure reduction, reflection elimination, and highlight softening.

3. SETUP AND INSTALLATION

To install the K&F CONCEPT 3-in-1 filter on your camera lens, follow these steps:

1. **Determine Lens Thread Size:** Check the filter thread size of your camera lens. This is usually indicated by a "Ø" symbol followed by a number (e.g., Ø77mm) on the front of your lens or inside the lens cap. Ensure your filter matches this size.
2. **Clean Lens and Filter:** Before installation, gently clean the front element of your camera lens and both sides of the K&F CONCEPT filter using a microfiber cloth to remove any dust or smudges.
3. **Attach the Filter:** Carefully align the filter's threads with the threads on your camera lens. Rotate the filter clockwise until it is securely attached. Do not overtighten.
4. **Initial ND Adjustment:** For initial setup, it is recommended to minimize the ND value by rotating the orange pushrod to its lowest setting (ND2).
5. **Focus:** Focus your camera lens on your subject before making further adjustments to the filter.

Precaution



Important note on filter sizing: The front frame of the filter will be one size larger than the lens mounting end. For example, a 77mm filter will have an 82mm front frame. Lens hoods cannot be installed directly onto this filter.

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Video demonstrating the installation and basic usage of the K&F CONCEPT 3-in-1 filter, including how to adjust the ND and CPL components.

4. OPERATING INSTRUCTIONS

The K&F CONCEPT 3-in-1 filter offers versatile control over your image. Here's how to utilize its functions:

4.1. Adjusting Variable ND (Neutral Density)

The variable ND component allows you to control the amount of light entering your lens, from ND2 (1 stop) to ND32 (5 stops). This is crucial for maintaining a wide aperture in bright conditions or achieving longer exposure times.

1. **Loosen the Pushrod:** Locate the small orange pushrod on the side of the filter frame. Gently loosen it.
2. **Rotate to Adjust ND:** Rotate the outer ring of the filter using the pushrod to increase or decrease the ND value. The markings on the filter indicate the stop reduction (1 to 5 stops).
3. **Avoid "X" Pattern:** The filter is designed to prevent the "X" cross pattern. If you observe any uneven darkening, slightly adjust the ND setting.

4.2. Adjusting CPL (Circular Polarizer)

The CPL function helps to reduce reflections and enhance colors.

1. **Rotate the Filter Frame:** With the ND pushrod fixed, rotate the entire filter frame (the part that screws onto the lens) to adjust the polarization effect.
2. **Observe Effect:** Look through your camera's viewfinder or LCD screen to see the effect of the polarization. Reflections on water, glass, or shiny surfaces will diminish, and colors in the sky or foliage will become more vibrant.
3. **Optimal Setting:** Rotate until the desired level of reflection reduction and color enhancement is achieved.

4.3. Black Diffusion 1/4 Effect

The Black Diffusion 1/4 effect is always active when the filter is in use, providing a subtle softening of highlights and a reduction in overall contrast, contributing to a more cinematic aesthetic.

Prevents Overexposure

Essential tools for video shooting



Before



After

Close-up of the filter's adjustment mechanism, highlighting the 1-5 stop ND control.

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Video showcasing the versatility of the 3-in-1 filter across different scenarios, demonstrating its effects on light, reflections, and

image softness.

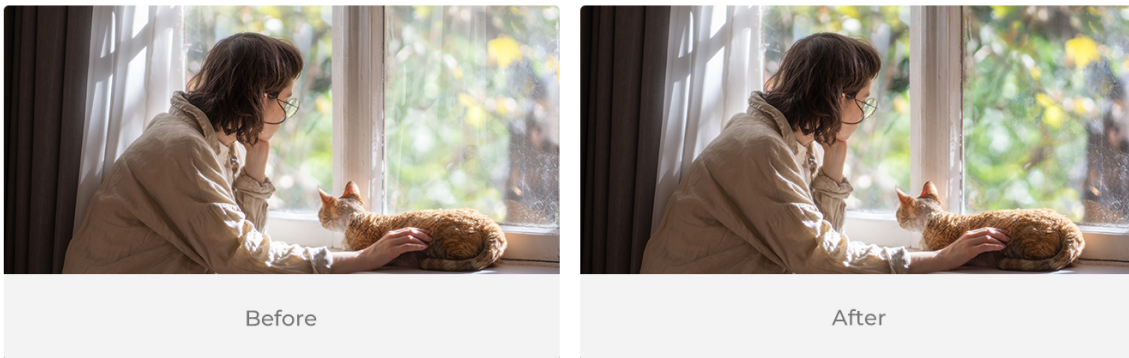
5. MAINTENANCE AND CARE

Proper care will extend the life and performance of your K&F CONCEPT filter:

- **Cleaning:** Use the provided microfiber cleaning cloth or a dedicated lens cleaning solution and cloth. Gently wipe the filter surface in a circular motion. Avoid using harsh chemicals or abrasive materials.
- **Storage:** Store the filter in its protective case when not in use to prevent dust accumulation and scratches.
- **Handling:** Always handle the filter by its edges to avoid leaving fingerprints on the glass surface.
- **Water and Dust Resistance:** The 28-layer coatings provide water and dust resistance, making cleaning easier. However, avoid prolonged exposure to water or extreme conditions.

Eliminate reflected light

Eliminate the reflected light from non-metallic surfaces



The filter's advanced coatings repel water and oil, making it easy to clean.

6. TROUBLESHOOTING

- **"X" Cross Pattern:** If you observe a dark "X" pattern on your images, this typically occurs when a variable ND filter is pushed beyond its recommended maximum density. The K&F CONCEPT filter is designed with self-locking technology to minimize this. If it occurs, slightly reduce the ND value by rotating the pushrod.
- **Vignetting:** Darkening at the corners of your image (vignetting) can occur, especially with wide-angle lenses or when stacking multiple filters. This 3-in-1 filter has a slim design to reduce vignetting. If it persists, consider adjusting your focal length or aperture.
- **Difficulty Adjusting:** Ensure the ND pushrod is slightly loosened before attempting to adjust the ND value. If the filter feels stiff, it may be due to dust or debris in the threads; clean thoroughly.

With a variety of filter effects

Reduces exposure, eliminates reflections, and softens the image



CPL



VND2-32



Black Diffusion 1/4



VND2-32&CPI&
Black Diffusion 1/4

The K&F CONCEPT filter is engineered to prevent the undesirable "X" pattern in images.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.17 x 4.17 x 0.61 inches
Item Weight	0.705 ounces
Brand	K&F CONCEPT
Material	Optical Glass
Photo Filter Thread Size	77 Millimeters
Coating Description	Multi Coating (28 Layers)
Photo Filter Effect Type	Enhancing (Black Diffusion, Variable ND, CPL)
Water Resistance Level	Waterproof
Photo Filter Factor	ND2-32 (1-5 Stops)
Manufacturer	Shenzhen Zhuoer Photograph

8. WARRANTY AND SUPPORT

K&F CONCEPT products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the official K&F CONCEPT website or contact their customer service directly. Keep your purchase receipt for warranty claims.