K&F CONCEPT Nano-X Series KF01.2922V2 (55mm)

K&F CONCEPT Nano-X Series 55mm 3-in-1 Black Diffusion 1/4, Variable ND2-32, and CPL Lens Filter User Manual

Model: Nano-X Series KF01.2922V2 (55mm)

1. Introduction

Thank you for choosing the K&F CONCEPT Nano-X Series 3-in-1 Lens Filter. This innovative filter combines three essential photographic tools into one compact unit: a Black Diffusion 1/4 filter, a Variable Neutral Density (ND2-32) filter, and a Circular Polarizing (CPL) filter. Designed for versatility and high performance, it allows photographers and videographers to achieve creative effects and precise exposure control in various lighting conditions. This manual provides detailed instructions for proper setup, operation, and maintenance to ensure optimal performance and longevity of your filter.

2. Key Features

- **3-in-1 Functionality:** Integrates light reduction (ND), dreamy effect (Black Diffusion 1/4), and reflection elimination/color enhancement (CPL) into a single filter.
- **Variable ND2-32 (1-5 Stops):** Allows precise control over the amount of light entering the lens, facilitating longer exposures and wider apertures in bright conditions.
- **Black Diffusion 1/4 Effect:** Softens skin imperfections, reduces contrast, and creates a cinematic, dreamy glow around highlights.
- **Circular Polarizing (CPL) Effect:** Reduces unwanted reflections from non-metallic surfaces like water and glass, enhances color saturation, and improves contrast in skies.
- **No "X" Cross Pattern:** Advanced design prevents the common "X" cross pattern often seen in variable ND filters, especially at wider focal lengths.
- **28 Multi-Layer Nano Coatings:** Provides superior resistance against water, oil, dust, and scratches, ensuring durability and easy cleaning.
- **High-Quality Optical Glass:** Constructed from imported optical AGC glass for crystal-clear image quality.
- **CNC Machined Frame:** Features a knurling design for easy installation and removal.

3. Package Contents

Your K&F CONCEPT Nano-X Series 3-in-1 Lens Filter package includes the following items:

- K&F CONCEPT Nano-X Series 3-in-1 Lens Filter (55mm)
- Protective Leather Pouch
- Microfiber Cleaning Cloth (vacuum-sealed)
- Instruction Card

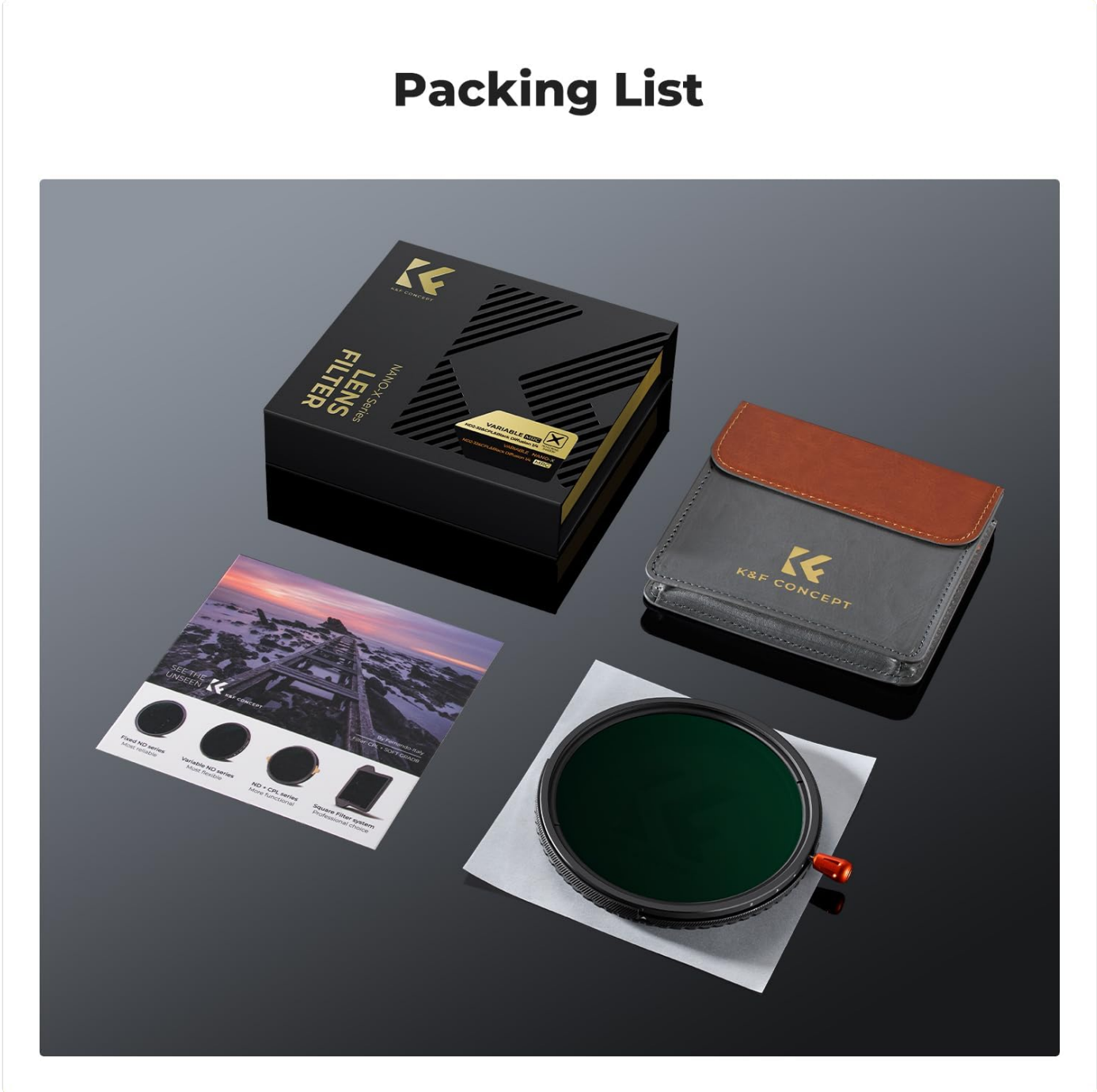


Image: Contents of the K&F CONCEPT 3-in-1 Lens Filter package.

4. Setup & Installation

4.1. Choosing the Correct Filter Size

Ensure the filter diameter matches your camera lens. The filter size is typically printed on the front of your lens or on the lens cap, often preceded by a "ø" (diameter) symbol. This filter is 55mm.

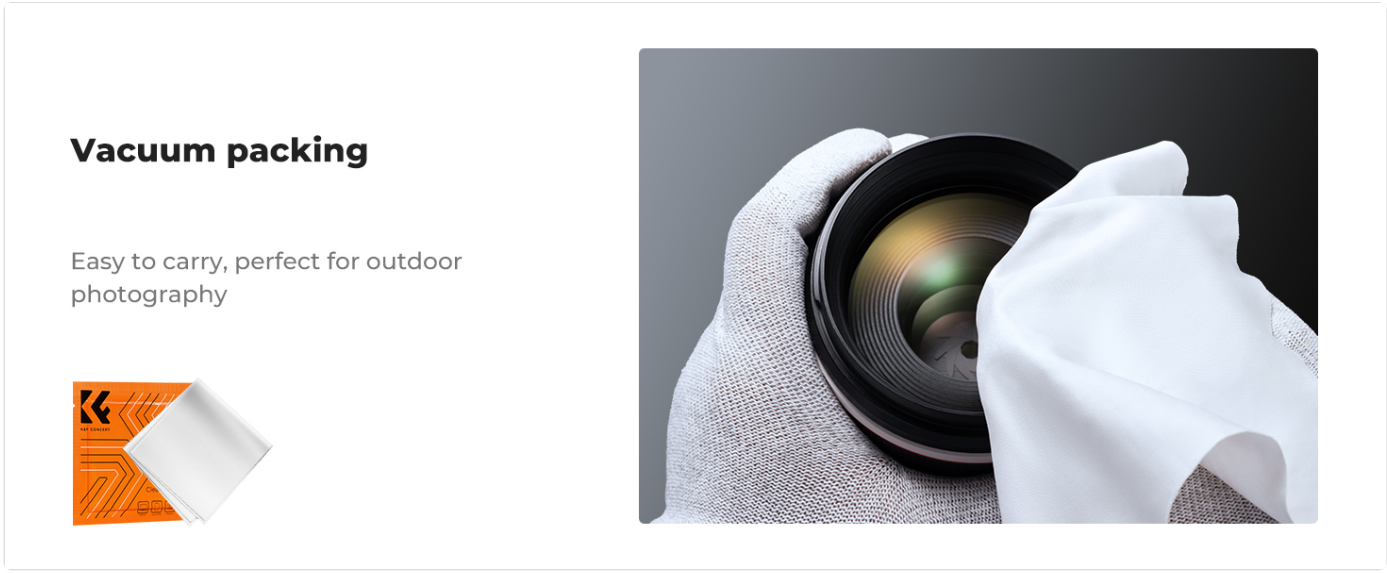


Image: Guide to identifying the correct filter size for your lens.

4.2. Attaching the Filter to Your Lens

1. Carefully align the filter's threads with the threads on the front of your camera lens.
2. Gently rotate the filter clockwise until it is securely attached. Do not overtighten.

4.3. Adjusting the ND and CPL Effects

The filter features a unique design for independent adjustment of the ND and CPL effects:

- **ND Adjustment:** Loosen the orange pushrod (actuator) on the side of the filter. Rotate the inner ring to adjust the ND value from 1 to 5 stops (ND2-32). Once the desired ND strength is set, tighten the pushrod to lock it in place.
- **CPL Adjustment:** With the ND value locked, rotate the outer frame of the filter to adjust the polarizing effect. Observe the viewfinder or LCD screen to achieve the desired reduction of reflections or enhancement of colors.

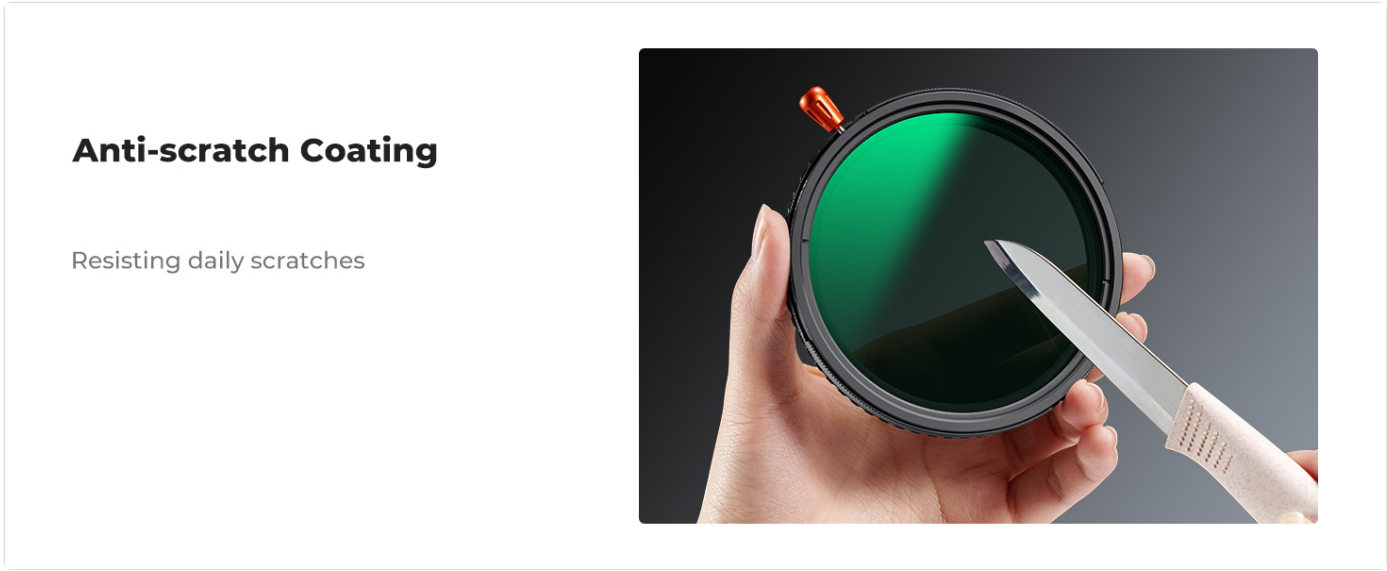


Image: Adjusting the ND and CPL effects using the rotating pushrod and filter frame.

4.4. Important Precautions

- The size of the filter front frame will be 1 size larger than the lens thread size (e.g., a 55mm filter will have an 86mm front frame).
- Due to the design, it may not be possible to install a lens hood when this filter is attached.



Image: Visual representation of filter dimensions and lens hood compatibility.

5. Operating Instructions

5.1. Utilizing the Variable ND Filter (ND2-32)

The variable ND function reduces the amount of light reaching your camera's sensor, allowing for:

- **Longer Exposure Times:** Ideal for capturing motion blur in water (waterfalls, rivers) or clouds, creating a smooth, ethereal effect.
- **Wider Apertures in Bright Light:** Achieve shallow depth of field (bokeh) even in sunny conditions without overexposing your image.
- **Video Shooting:** Maintain cinematic shutter speeds (e.g., 1/50s for 24fps) in bright environments.

1-5 Stops Precise Adjustment

Reduces the amount of light entering the lens, lowering the exposure



Image: The effect of precise ND adjustment on light reduction.

With a variety of filter effects

Reduces exposure, eliminates reflections, and softens the image



CPL | VND2-32 | Black Diffusion 1/4 | VND2-32&CPl& Black Diffusion 1/4

Image: Preventing overexposure with the ND filter.

5.2. Enhancing with the Circular Polarizing (CPL) Filter

The CPL component helps to:

- **Reduce Reflections:** Eliminate glare from water, glass, and other non-metallic surfaces.
- **Increase Color Saturation:** Make skies bluer, foliage greener, and colors more vibrant.
- **Improve Contrast:** Enhance the overall clarity and depth of your images.

Rotate the outer frame of the filter while looking through your camera's viewfinder or at the LCD screen until the desired polarizing effect is achieved.

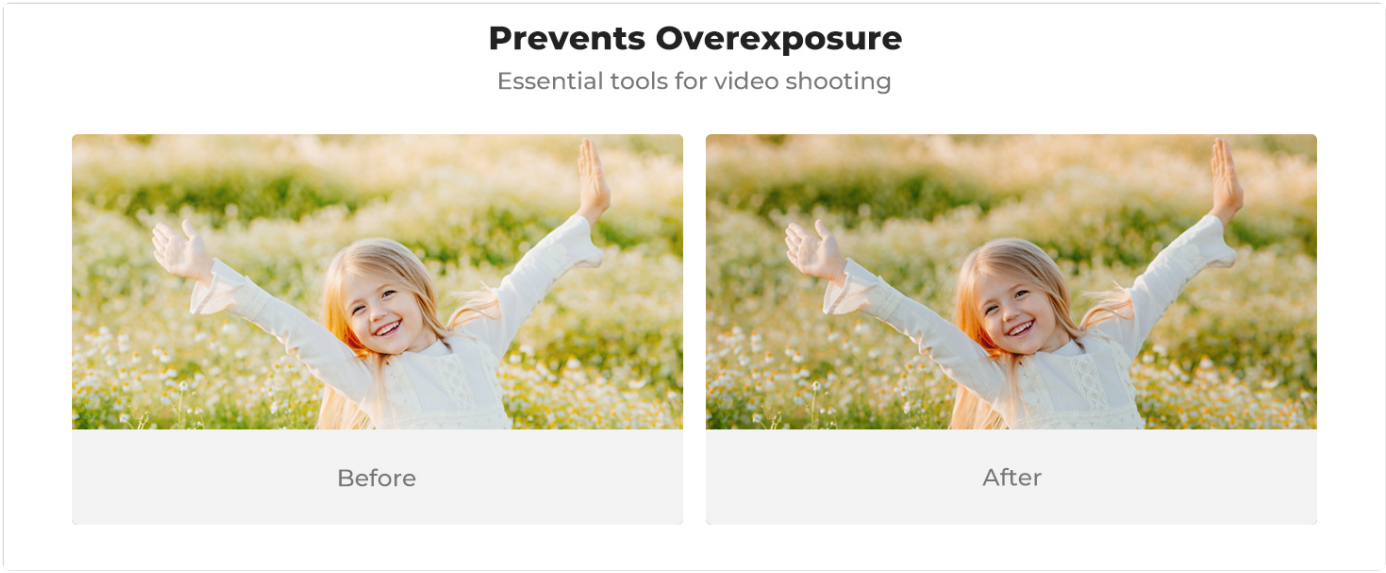


Image: Eliminating reflected light with the CPL filter.

5.3. Creating Dreamy Effects with the Black Diffusion 1/4 Filter

The Black Diffusion 1/4 filter is designed to:

- **Soften Highlights:** Gently diffuses light, reducing harshness and creating a subtle glow around light sources.
- **Lower Contrast:** Provides a more film-like, organic look to your images and videos.
- **Smooth Skin Tones:** Minimizes the appearance of wrinkles, blemishes, and pores, making skin appear softer and more flattering, ideal for portraits.

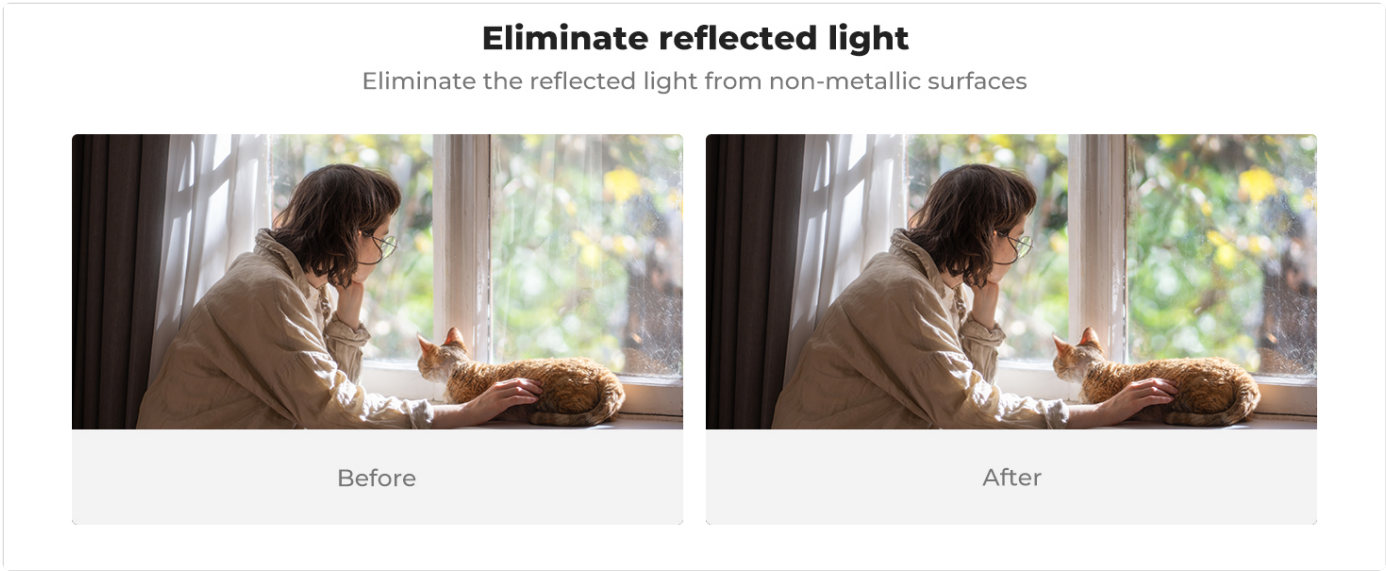


Image: Softening highlights and achieving dream portraits with the Black Diffusion filter.

5.4. Combined Effects

The true power of this filter lies in its ability to combine all three effects simultaneously, offering unparalleled creative control and efficiency. Experiment with different settings to achieve unique visual styles for your photography and videography.

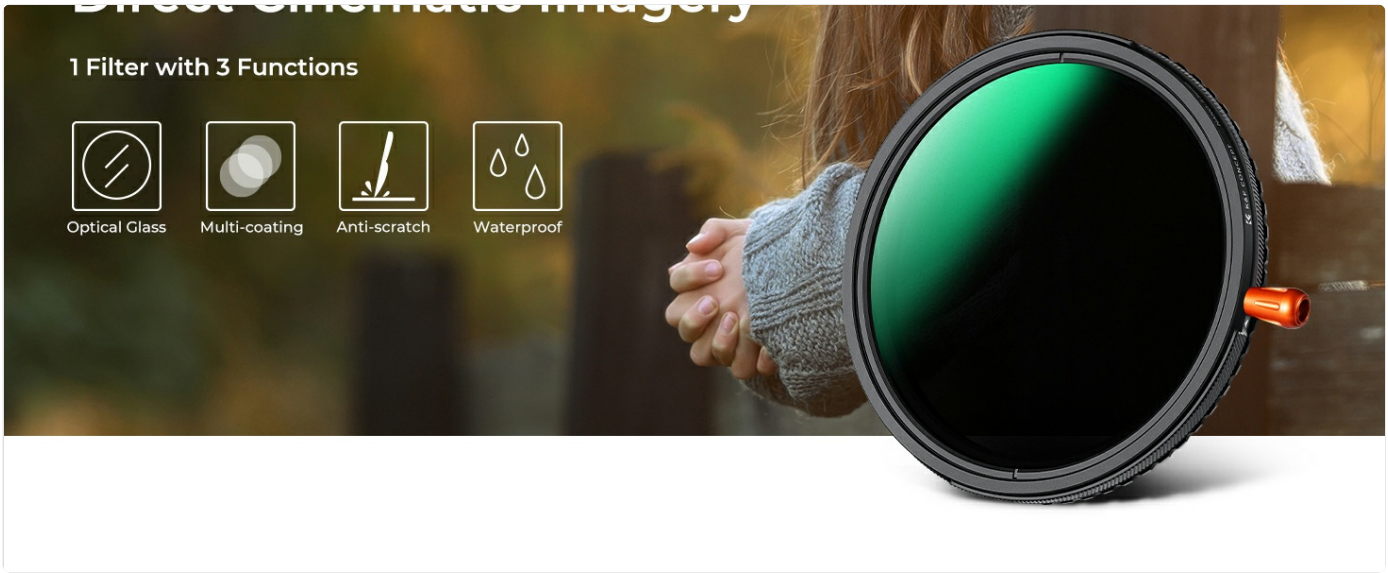


Image: One filter, three functions: exposure reduction, reflection elimination, and highlight softening.

6. Care & Maintenance

To ensure the longevity and optimal performance of your K&F CONCEPT filter, follow these care guidelines:

- **Cleaning:** Use the provided microfiber cleaning cloth to gently wipe away dust, fingerprints, and smudges. For stubborn marks, a specialized lens cleaning solution can be used sparingly with the microfiber cloth. Avoid using abrasive materials or harsh chemicals.
- **Storage:** Always store the filter in its protective leather pouch when not in use. This protects it from dust, scratches, and accidental impact.
- **Handling:** Avoid touching the glass surface directly with your fingers. Hold the filter by its metal frame.
- **Environmental Protection:** The 28 multi-layer nano coatings provide water, oil, and scratch resistance. However, prolonged exposure to extreme conditions should be avoided.

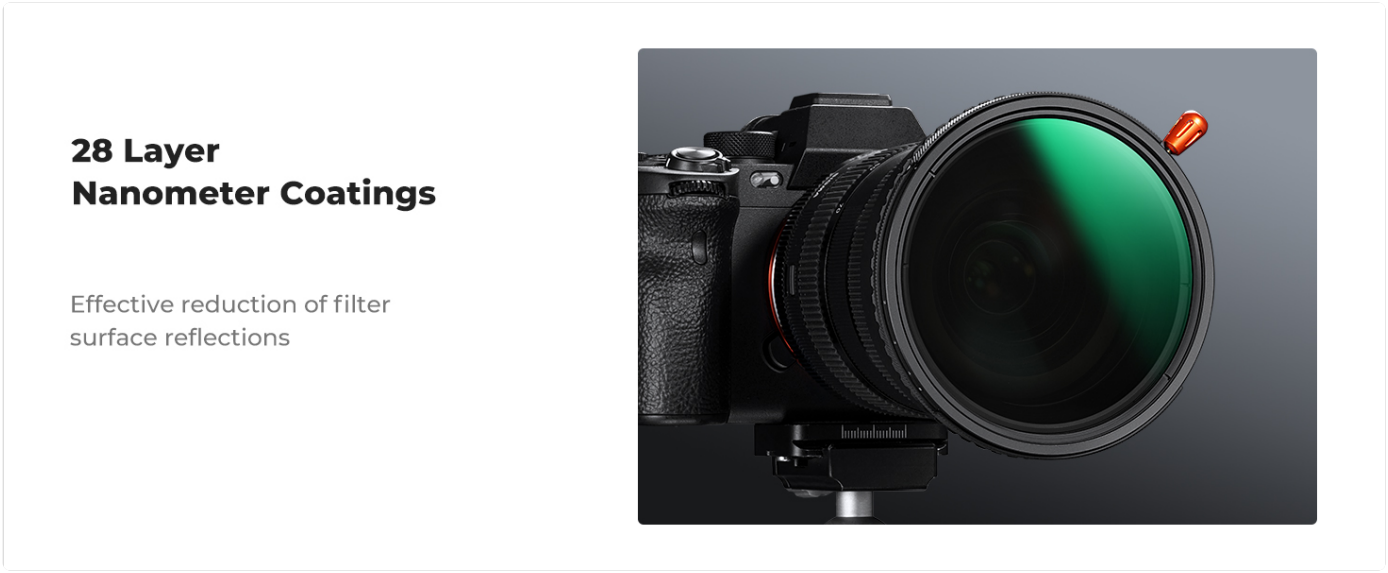


Image: Water and dust-proof coatings for easy maintenance.

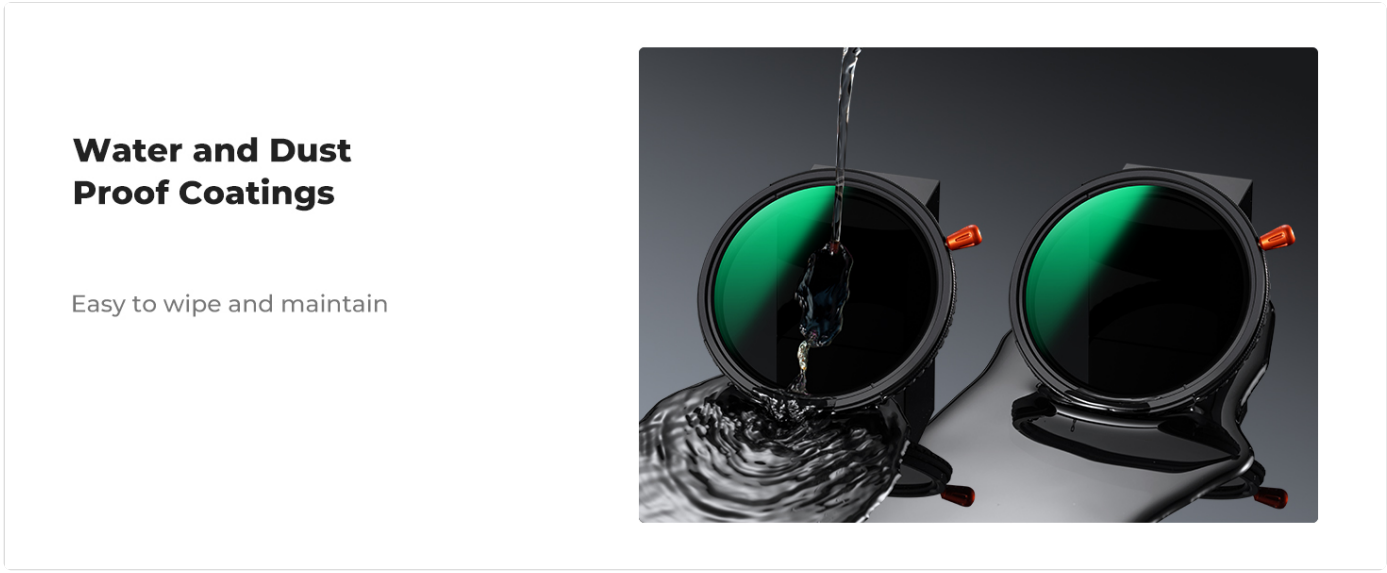


Image: Anti-scratch coating for daily protection.

7. Troubleshooting

7.1. Avoiding the "X" Cross Pattern

This filter is engineered with self-locking technology to prevent the common "X" cross pattern that can occur with some variable ND filters, especially when used with focal lengths larger than 35mm. If you observe any unusual patterns, ensure the ND adjustment is within the recommended 1-5 stop range and the pushrod is securely tightened.

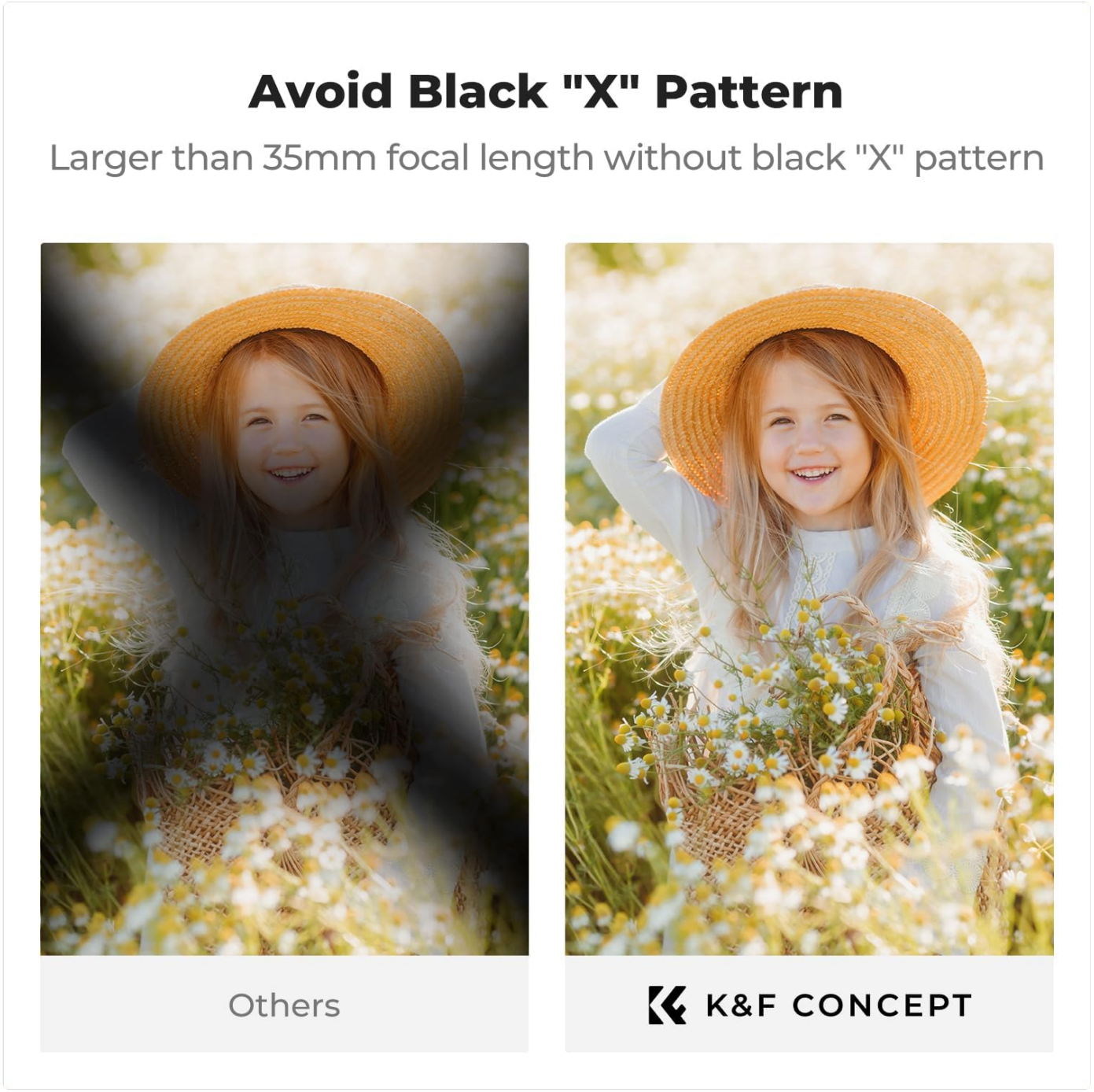


Image: Avoiding the black "X" pattern with K&F CONCEPT filters.

7.2. Minimizing Vignetting

The filter's thin design helps to minimize vignetting (darkening at the corners of the image) compared to stacking multiple individual filters. If vignetting occurs, especially at wider focal lengths, consider adjusting your lens's focal length or aperture. The filter is designed to be thinner than three stacked filters to avoid this issue.

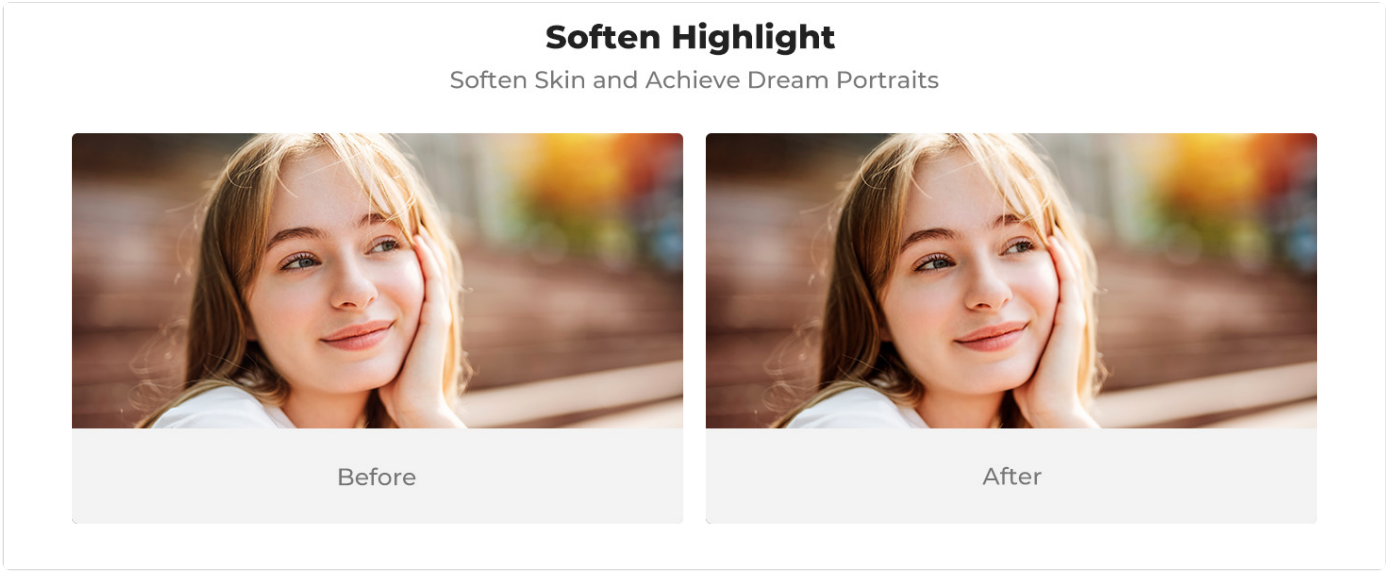


Image: Avoiding vignetting with the integrated filter design.

8. Product Specifications

Feature	Description
Brand	K&F CONCEPT
Model Name	Nano-X Series
Manufacturer Part Number	KF01.2922V2
Photo Filter Thread Size	55 Millimeters
Material	Optical Glass
Coating Description	28 Multi Coating
Photo Filter Effect Type	Enhancing (ND, CPL, Black Diffusion)
Water Resistance Level	Waterproof
Photo Filter Factor	ND2-32 (1-5 Stops)
Product Dimensions	2.17"L x 2.17"W
Item Weight	20 Grams
Compatible Devices	Cameras with 55mm lens thread size

9. Official Product Videos

Explore the features and capabilities of your K&F CONCEPT 3-in-1 filter through these official videos:

K&F CONCEPT 3-in-1 Filter - Black Diffusion 1/4 & CPL & VND

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Video: A comprehensive overview of the K&F CONCEPT 3-in-1 filter, demonstrating its Black Diffusion 1/4, CPL, and Variable ND functionalities.

One Filter for 4 Scenarios

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Video: Showcases the versatility of the filter across four different photographic scenarios, highlighting its adaptability.

Black Mist & Variable ND & Polarizer 3-in-1 Lens Filter

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Video: Demonstrates the combined effects of the Black Mist, Variable ND, and Polarizer functions in practical use.

10. Warranty & Support

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

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