K&F Concept Nano-X Series 82mm Variable ND Filter

K&F Concept 82mm Variable ND Lens Filter ND8-ND128 (3-7 Stop)

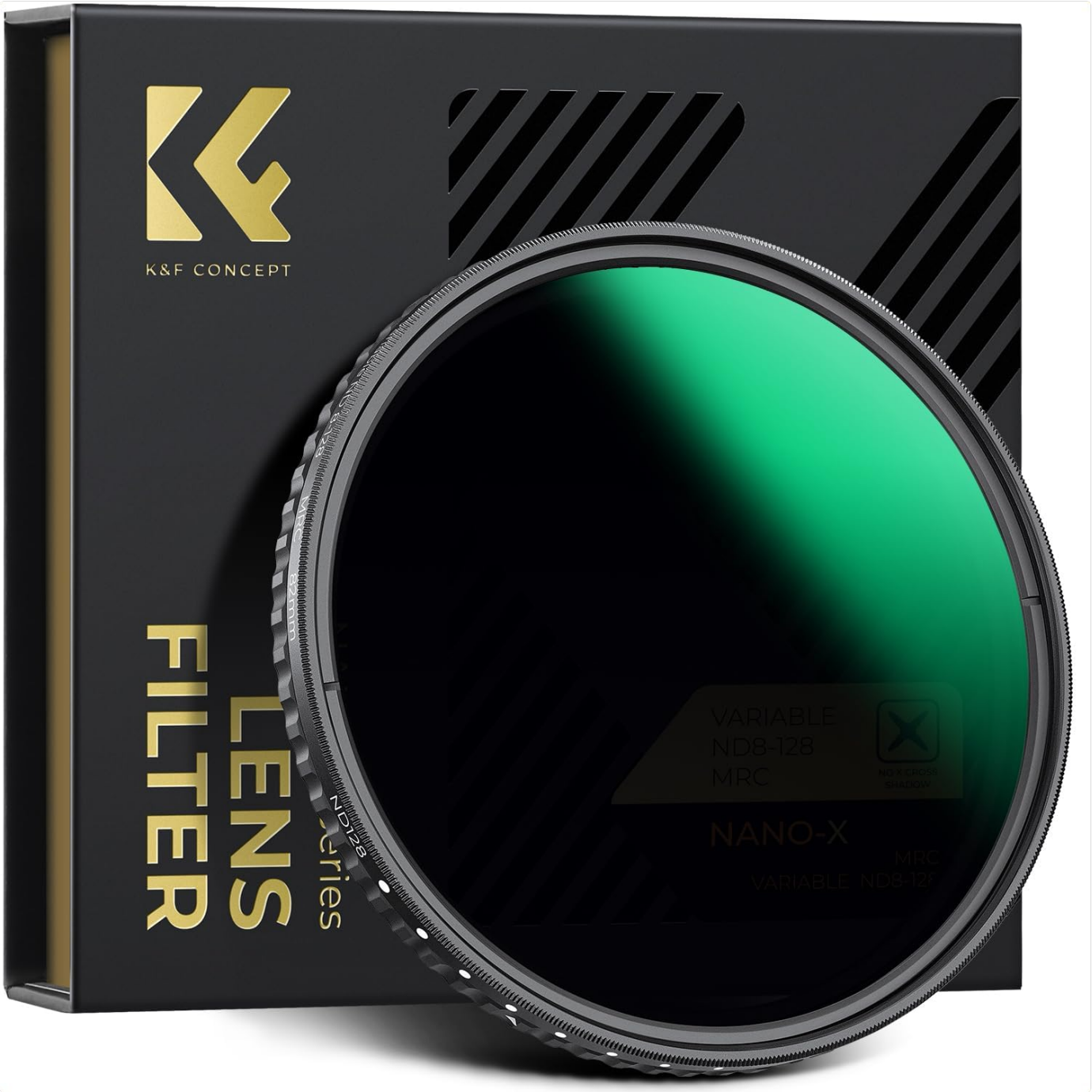
User Manual

1. Introduction

This manual provides detailed instructions for the proper use and maintenance of your K&F Concept 82mm Variable ND Lens Filter (Nano-X Series). This filter is designed to reduce the amount of light entering your camera lens, allowing for greater control over exposure settings in bright conditions.

Key features include:

- **Imported AGC Glass:** Ensures high optical clarity and color neutrality.
- **Variable Light Reduction:** Adjustable from ND8 to ND128 (3 to 7 stops).
- **Self-Lock Frame:** Engineered to prevent the common 'X' cross pattern, especially at wider angles.
- **NANOTEC Multi-Coatings:** 28 layers provide waterproof, scratch-resistant, and anti-glare properties.
- **Ultra-Slim Frame:** 7.4mm design helps avoid vignetting on wide-angle lenses.



The K&F Concept 82mm Variable ND Lens Filter, shown with its protective packaging.

2. Setup and Installation

Before installing the filter, ensure your camera lens has an 82mm filter thread size. This is typically indicated by a "ø" (diameter) symbol followed by the number on the lens barrel or lens cap.



Diameter	Front diameter	Thickness	Adapted lens cap size	Whether fit the lens hood or not?
37mm	40.5mm	7.4mm	40.5mm	No
40.5mm	43mm	7.4mm	43mm	No
43mm	46mm	7.4mm	46mm	No
46mm	49mm	7.4mm	49mm	No
49mm	52mm	7.4mm	52mm	No
52mm	55mm	7.4mm	55mm	No
55mm	58mm	7.4mm	58mm	No
58mm	62mm	7.4mm	62mm	No
62mm	67mm	7.4mm	67mm	No
67mm	72mm	7.4mm	72mm	No
72mm	77mm	7.4mm	77mm	No
77mm	82mm	7.4mm	82mm	No
82mm	86mm	7.4mm	86mm	No
86mm	95mm	7.4mm	95mm	No
95mm	105mm	7.4mm	105mm	No

Locating the filter thread size on your camera lens, indicated by the ø symbol.

To install the filter:

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.

Important Note: The front frame of this 82mm ND filter is designed to be one size larger (86mm) to accommodate its variable mechanism. This means that if you wish to attach a lens cap or hood to the front of the filter, it should be an 86mm size, not 82mm.



Illustration of the filter's rear (82mm) and front (86mm) frame sizes, important for lens cap/hood compatibility.

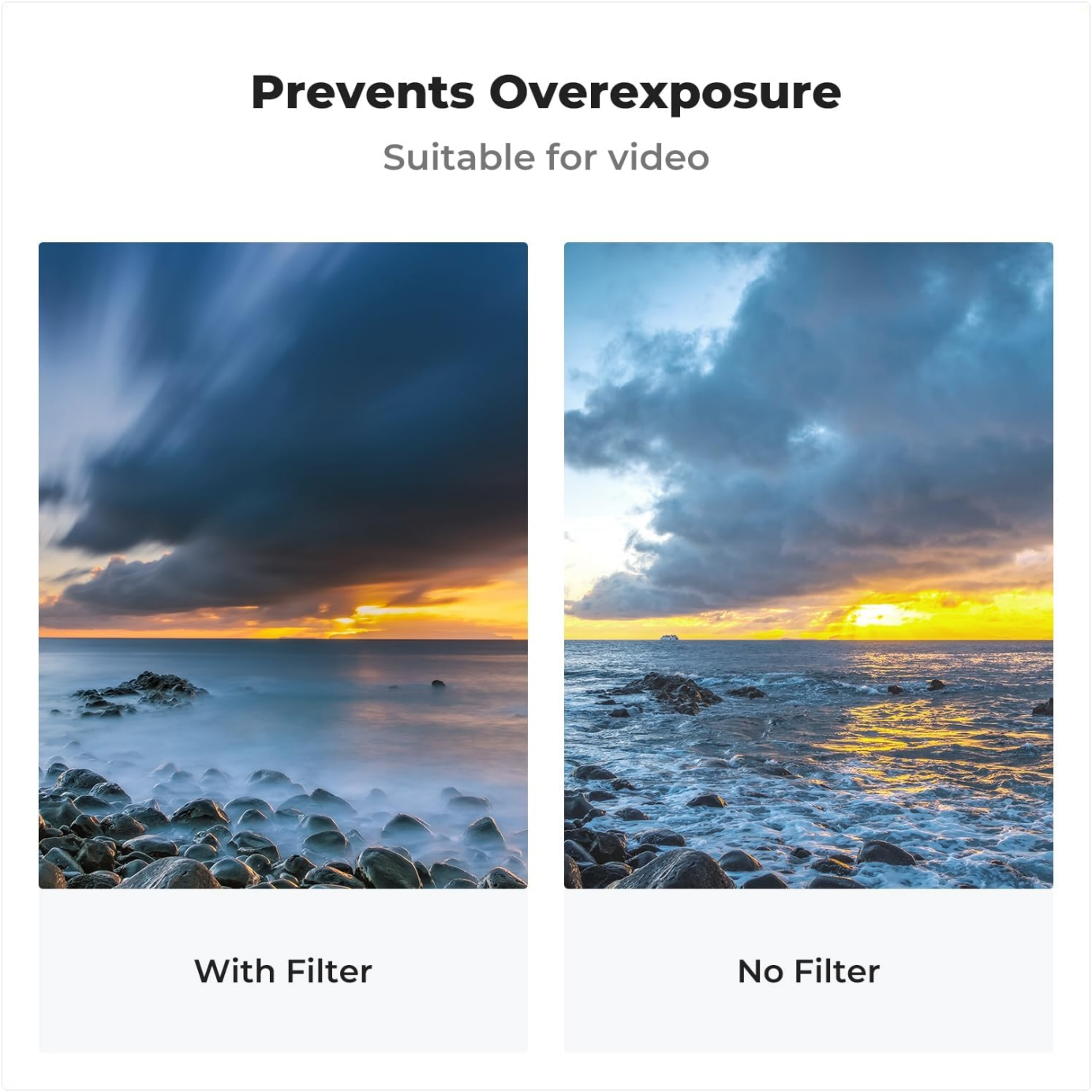
3. Operating the Variable ND Filter

The K&F Concept Variable ND filter allows you to adjust the light reduction from 3 stops (ND8) to 7 stops (ND128) by rotating the outer ring. This enables you to use slower shutter speeds or wider apertures in bright lighting conditions without overexposing your images or video.



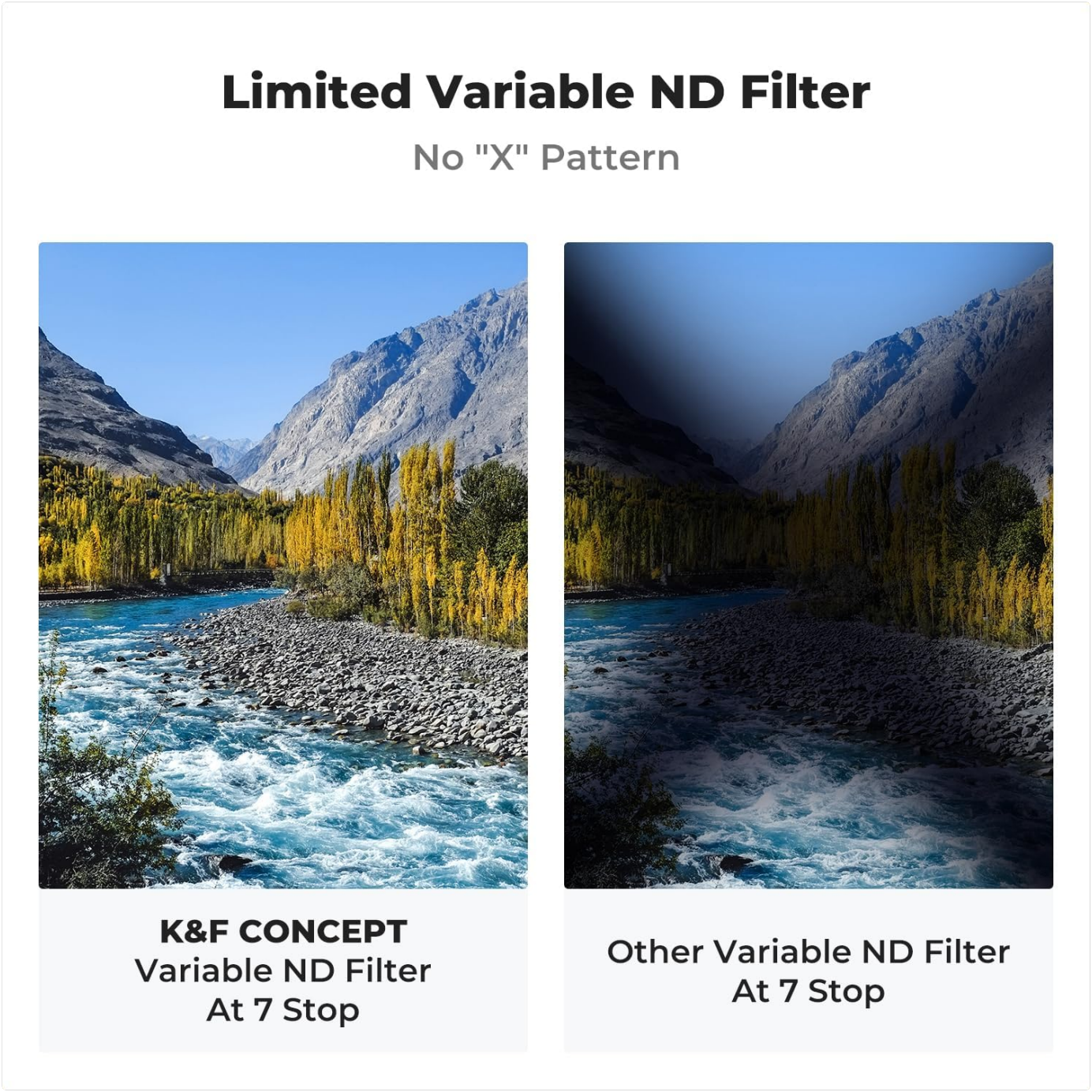
Adjusting the filter to achieve different levels of light reduction, from ND8 to ND128.

Preventing Overexposure: This filter is particularly useful for video recording or photography in bright environments, allowing you to maintain desired aperture and shutter speed settings.



A visual example of how the ND filter prevents overexposure, making it suitable for video and bright conditions.

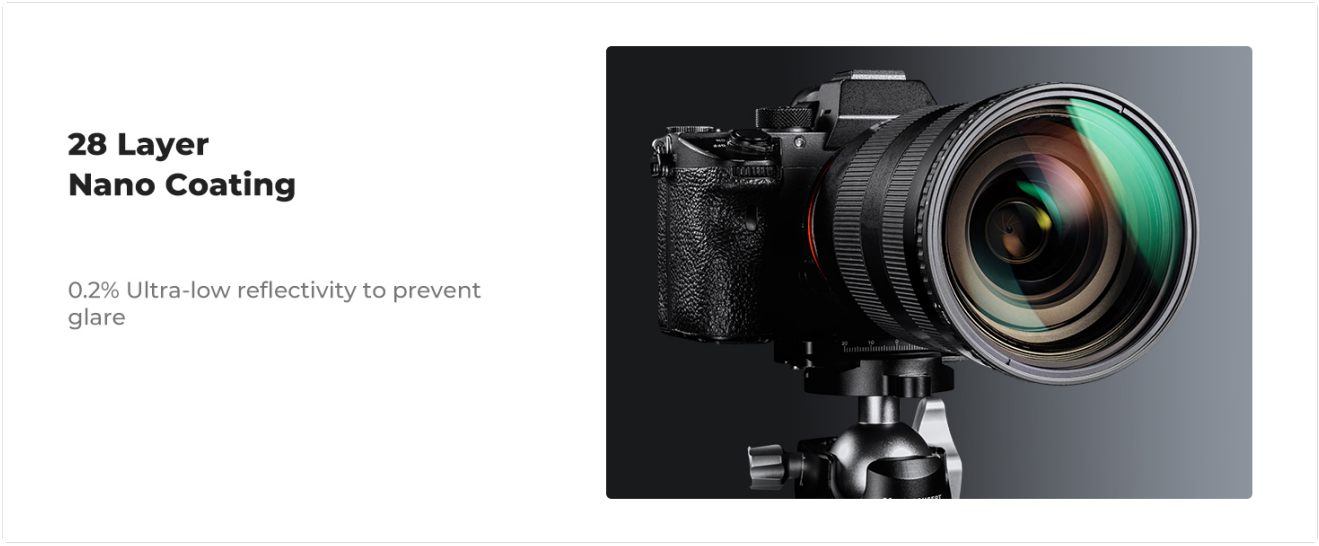
No 'X' Cross Pattern: K&F Concept's advanced design minimizes the common 'X' cross pattern that can appear on variable ND filters, especially at higher density settings or wider focal lengths. This ensures clean, uniform light reduction across the frame.



Side-by-side comparison illustrating the absence of the 'X' pattern with the K&F Concept filter, even at maximum density.

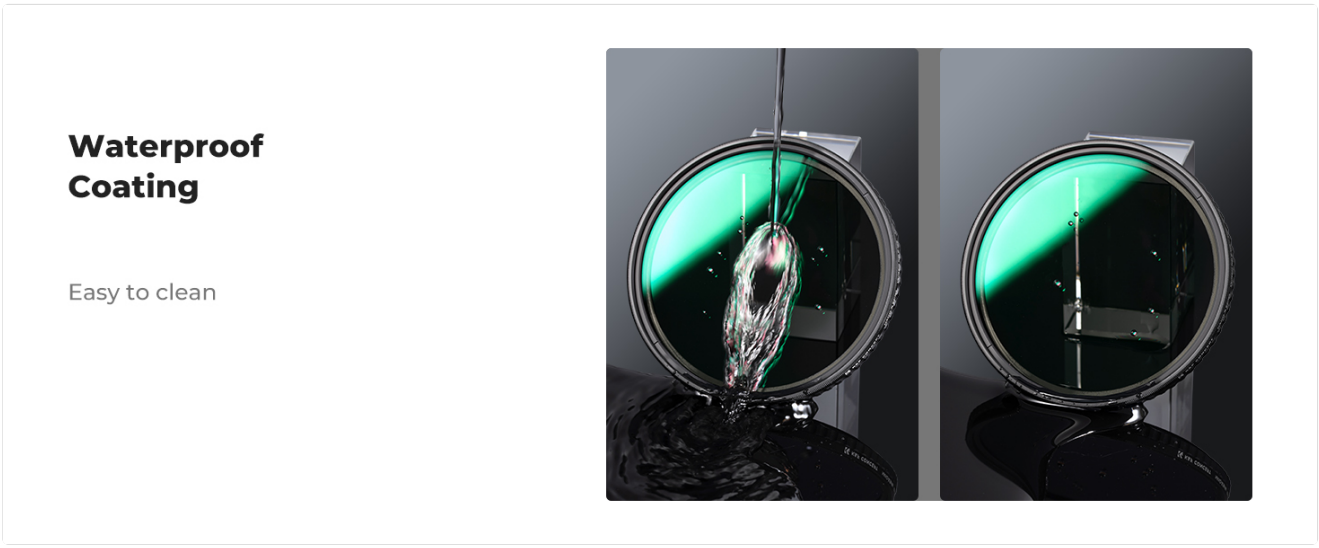
Applications:

- **Landscape Photography:** Achieve smooth, dynamic images by using slow shutter speeds to blur motion in water or clouds.



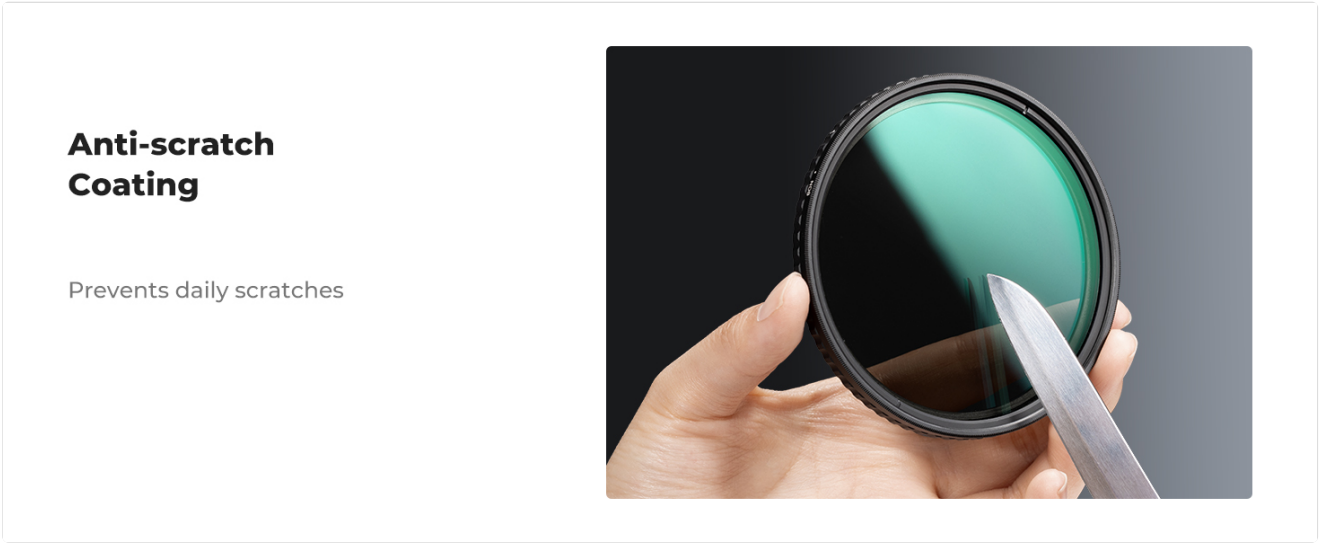
A landscape photo demonstrating the effect of slow shutter speeds achieved with the ND filter.

- **Light Trails in Nightscapes:** Capture the movement of light from vehicles or other sources during night photography.



An image showcasing light trails in a city nightscape, made possible by controlled exposure with the filter.

- **Fireworks Photography:** Suppress overexposure to capture the full beauty and detail of fireworks displays.



A vibrant fireworks display captured without overexposure, thanks to the ND filter.

4. Maintenance

To ensure the longevity and optimal performance of your K&F Concept Variable ND filter, follow these maintenance guidelines:

- **Cleaning:** The filter features waterproof and anti-scratch nanometer coatings, making it durable and easy to clean. Use a clean, soft microfiber cloth specifically designed for optical surfaces. For stubborn smudges, a small amount of lens cleaning solution can be applied to the cloth (not directly to the filter).
- **Storage:** When not in use, store the filter in its protective case to prevent dust accumulation and accidental damage.
- **Handling:** Always handle the filter by its edges to avoid leaving fingerprints on the glass surface.



Visual demonstration of the filter's waterproof and anti-scratch coatings, highlighting ease of cleaning and durability.

5. Troubleshooting

While the K&F Concept Variable ND filter is designed for optimal performance, here are some common issues and their solutions:

- **Vignetting (Dark Corners):** Although the ultra-slim frame is designed to minimize vignetting, it can still occur, especially with extremely wide-angle lenses (e.g., below 28mm focal length) or when stacking multiple filters. Try adjusting your focal length or removing other filters if present.
- **Uneven Density / 'X' Pattern:** While our filter is designed to prevent this, if you observe an 'X' pattern or uneven density, it typically occurs when the filter is rotated beyond its intended maximum density range. Rotate the filter back slightly until the pattern disappears.
- **Difficulty Attaching/Removing:** Ensure the filter threads are clean and free of debris. Do not force the filter. The CNC-non-slip design should aid in easy installation and removal.

6. Specifications

Feature	Detail
Model	Nano-X Series Variable ND Filter
Filter Thread Size	82 Millimeters
Light Reduction Range	ND8-ND128 (3-7 Stops)
Material	Imported AGC Optical Glass
Coatings	28-Layer Multi-Coating (NANOTEC)
Frame Thickness	7.4mm (Ultra-Slim)
Water Resistance Level	Waterproof
Item Weight	2.82 ounces
Product Dimensions	4.65 x 4.65 x 1.06 inches (Packaging) / 3.23"L x 3.23"W (Filter)

7. Warranty and Support

K&F Concept products are manufactured to high-quality standards. For any product-related inquiries, technical support, or warranty claims, please contact K&F Concept customer service through their official website or the retailer where the product was purchased.

Visit the official K&F Concept Store for more information and product registration: K&F Concept Amazon Store

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