

K&F CONCEPT KF01.2516

K&F CONCEPT Ø72mm ND100000 Filter Instruction Manual

Model: KF01.2516

1. INTRODUCTION

The K&F CONCEPT ND100000 filter is designed for specialized photography requiring extreme light reduction, particularly for solar observation and long-exposure photography in bright conditions. This filter reduces light by 16.6 f-stops (ND100000, optical density 5.0), allowing for extended shutter speeds and wider apertures without overexposure. It is certified ISO 12312-2:2015 for safe solar viewing through a camera's electronic viewfinder or live-view screen, but **not** for direct naked-eye solar observation. This manual provides essential information for the proper use, care, and maintenance of your K&F CONCEPT ND100000 filter.

2. SETUP

2.1 Attaching the Filter

1. Ensure your camera lens has a 72mm filter thread. If your lens has a different thread size, a step-up or step-down ring (sold separately) may be required.
2. Carefully align the filter's thread with the lens's filter thread.
3. Gently rotate the filter clockwise until it is securely attached. The CNC anti-slip frame is designed for easy installation and removal. Avoid overtightening.

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Nano-Xcel Filtre ND100000

Conçu pour la photographie d'éclipse, adapté à la photographie solaire dans un éclairage fort

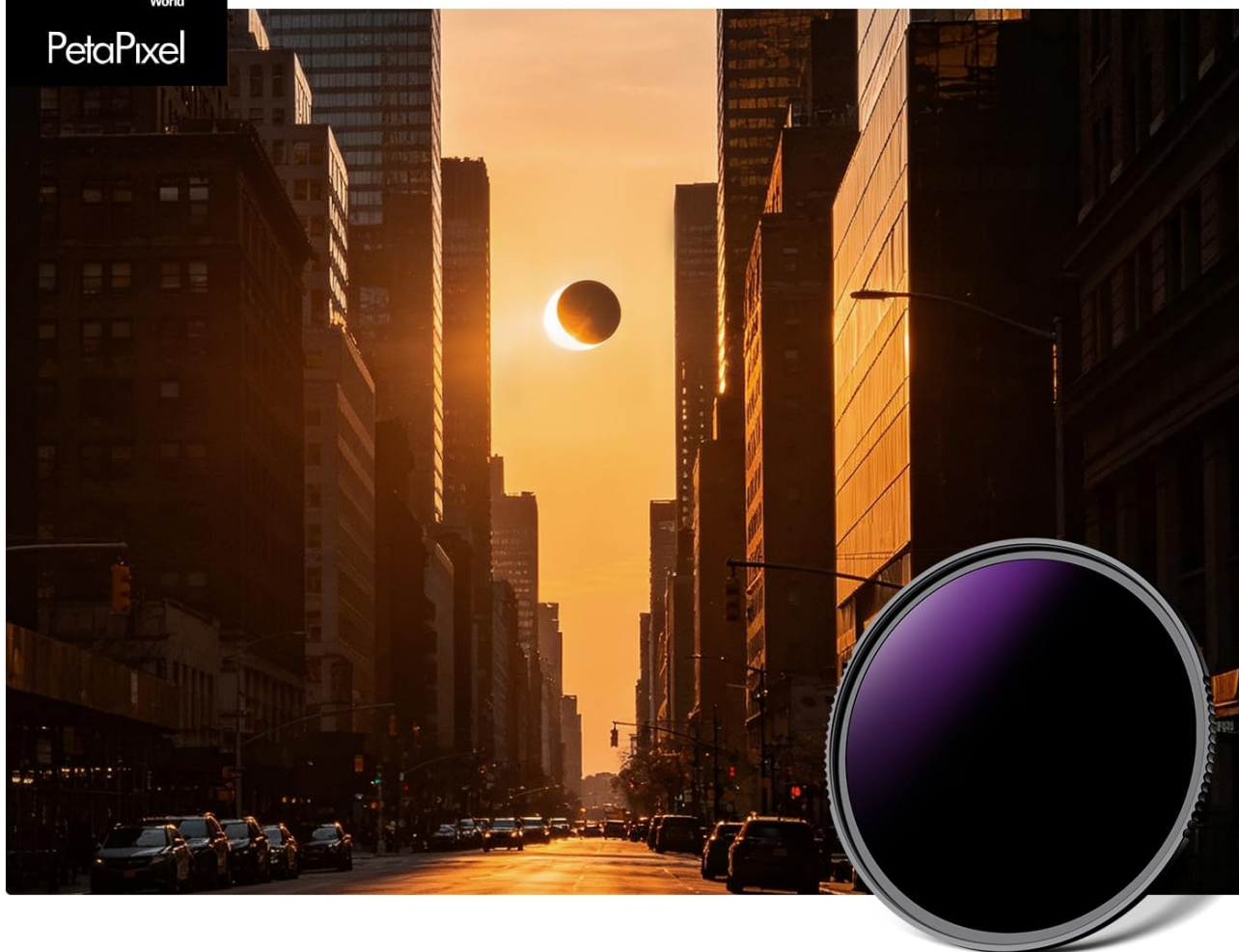


Image 2.1: The K&F CONCEPT ND100000 filter ready for attachment to a camera lens.

16.6 f-stops Effet ND

Fournir une réduction de la lumière de 16,6 f-stops, conception pour la photographie d'événements célestes, il est plus sûr que le Barde

Remarque :

1. Les données sont à titre indicatif uniquement, vous devez ajuster en fonction de la valeur de la situation.

2. Comme il s'agit d'un filtre ND à arrêts élevés, nous vous recommandons d'utiliser l'exposition manuelle pour la prise de vue.

ISO-100		☉	☾	☽
Filtre	Ouverture	Vitesse d'obturation		
 ND100,0000	F8	1/1000	1/200	1/8
	F11	1/500	1/100	1/4
	F16	1/250	1/50	1/2
	F22	1/125	1/25	1
 ND100000	F8	1/2000	1/1000	1/200
	F11	1/1000	1/500	1/100
	F16	1/500	1/250	1/50
	F22	1/250	1/125	1/25
 ND1000+ND8	F8	/	/	1/2000
	F11	/	1/5000	1/1000
	F16	1/5000	1/2500	1/500
	F22	1/2500	1/1250	1/250

3. OPERATING INSTRUCTIONS

3.1 Solar Photography Safety

WARNING: This filter is for camera use only. **DO NOT** use this filter for direct naked-eye solar observation. When photographing the sun, always use your camera's electronic viewfinder or live-view screen. Looking directly at the sun through an optical viewfinder, even with this filter, can cause severe and permanent eye damage.

Ensure the filter is securely attached to your lens before pointing the camera towards the sun. Never remove the filter while the camera is pointed at the sun.

Contrôle Complet de la Lumière

16,6 f-stops, Photographier le soleil en toute sécurité, les éclipses solaires, les taches solaires



Image 3.1: Example of a camera setup for solar eclipse photography using an ND filter. Always use the electronic viewfinder or live-view.

3.2 Long Exposure Photography

The ND100000 filter reduces incoming light by 16.6 f-stops, enabling very long exposures even in bright daylight. This is ideal for:

- Creating motion blur effects in water (e.g., silky smooth waterfalls, misty oceans).
- Removing moving objects (e.g., people, cars) from busy scenes.
- Achieving a minimalist aesthetic in landscape photography.

Due to the extreme light reduction, manual exposure mode is recommended. Use a tripod to ensure sharpness during long exposures.

Éliminer la surexposition

Réduit efficacement la quantité de lumière intense entrant, adapté aux amateurs d'astronomie et aux photographes



Image 3.2: Reference exposure table for various ND filters under different light conditions. Note that these are indicative values and actual settings may vary.

3.3 Color Neutrality

This filter is designed with AGC optical glass and a 28-layer nano-coating to ensure high color neutrality and minimal color cast. Any slight color shift can typically be corrected during post-processing.

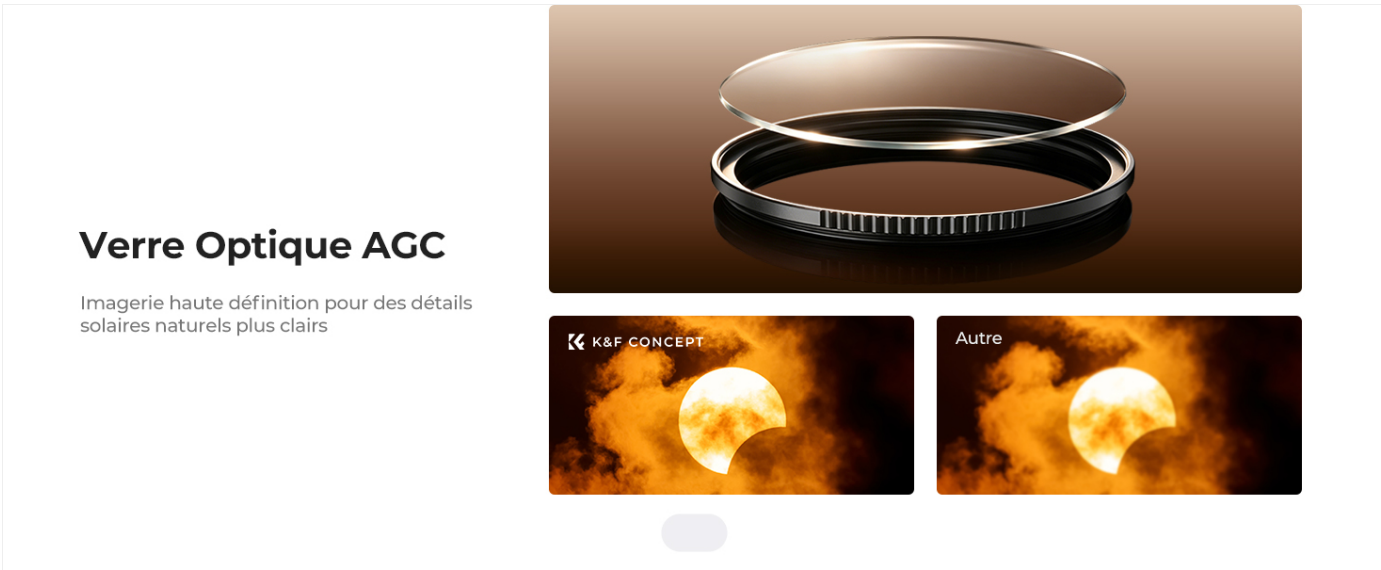


Image 3.3: Illustration of AGC optical glass and a comparison showing superior clarity and color rendition with the K&F CONCEPT filter.

4. MAINTENANCE

4.1 Cleaning the Filter

The filter features a 28-layer nano-coating that makes it waterproof, oil-resistant, and scratch-resistant. To clean the filter:

- 1. Gently brush off any loose dust or debris using a soft lens brush or air blower.
- 2. If smudges or fingerprints are present, apply a small amount of lens cleaning solution to a clean microfiber cloth.
- 3. Wipe the filter surface in a circular motion from the center outwards until clean. Avoid applying excessive pressure.
- 4. Do not use abrasive materials or harsh chemicals, as these can damage the coating.

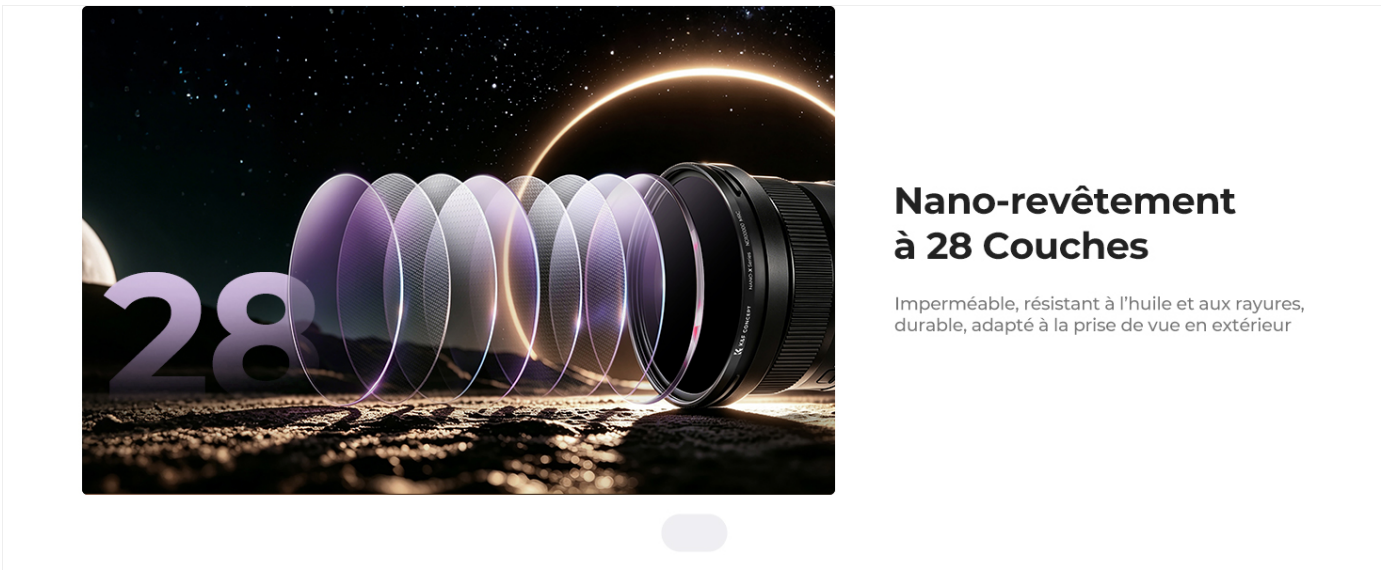


Image 4.1: Visual representation of the 28-layer nano-coating technology, highlighting its protective properties.

4.2 Storage

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

5. TROUBLESHOOTING

5.1 Vignetting

The K&F CONCEPT ND100000 filter features an ultra-thin CNC frame designed to minimize vignetting, especially on wide-angle lenses. If you experience vignetting, ensure the filter is correctly mounted and consider using a wider lens or adjusting your focal length if possible.

16.6 f-stops
Effet ND

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	F22	1/2500	1/1250	1/250

Image 5.1: The ultra-thin frame design of the filter, engineered to prevent vignetting in photographs.

5.2 Image Softness / Lack of Sharpness

For extremely long exposures, even minor camera shake can cause blur. Always use a sturdy tripod and a remote shutter release or camera's self-timer function to minimize vibrations. Ensure your lens is properly focused, preferably using manual focus after composing your shot.

6. SPECIFICATIONS

Feature	Detail
Brand	K&F CONCEPT
Model Number	KF01.2516
Filter Type	Neutral Density (ND)
Optical Density	ND100000 (5.0)
Light Reduction	16.6 f-stops
Filter Thread Size	72mm
Material	AGC Optical Glass, Aviation Aluminum Frame
Coating	28-layer Nano-coating (Waterproof, Oil-resistant, Scratch-resistant)
Frame Type	Ultra-thin CNC Anti-slip Frame

Certification	ISO 12312-2:2015 (for solar observation through camera)
Weight	81 Grams

7. WARRANTY AND SUPPORT

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

Official K&F CONCEPT Website: www.kentfaith.com

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