K&F CONCEPT CPL Filter for GoPro Hero 9/10/11/12 Black

K&F CONCEPT CPL Filter User Manual for GoPro Hero 9/10/11/12 Black

Model: CPL Filter

Overview Features Setup Operation Maintenance Troubleshooting Specifications

1. Product Overview

The K&F CONCEPT CPL (Circular Polarizing) filter is specifically designed for GoPro Hero 9, Hero 10, Hero 11, and Hero 12 Black action cameras. This filter is an essential accessory for photographers and videographers looking to enhance their outdoor and landscape shots by managing reflections and boosting color saturation. It utilizes high-quality AGC optical glass and features a multi-layer nano-coating for superior performance and durability.

2. Key Features

- **Compatibility:** Specifically designed for GoPro Hero 9, Hero 10, Hero 11, and Hero 12 Black cameras.
- **Reflection Removal & Contrast Enhancement:** Effectively eliminates reflections from non-metallic surfaces like water and glass, and enhances the vibrancy of sky colors, leading to more vivid and natural images.
- **High-Quality AGC Optical Glass:** Constructed with premium AGC optical glass, ensuring high light transmission and maintaining the camera's original image clarity and sharpness.
- **28-Layer Nano-Coating:** Features a 28-layer multi-coating process that provides waterproof, oil-resistant, and scratch-resistant properties. This makes the filter easy to clean and resistant to fingerprints. *(Note: While the glass surface is waterproof, the entire filter is not designed for prolonged underwater use.)*
- **Anti-Flare Ink Coating:** The filter surface is treated with an ink coating to minimize internal reflections and significantly reduce lens flare when shooting against bright light sources.

3. Installation Guide

Follow these steps to correctly install the K&F CONCEPT CPL filter on your GoPro Hero camera:

1. **Prepare Your GoPro:** Ensure your GoPro Hero 9/10/11/12 Black camera is turned off and clean the camera

lens cover if necessary.

2. **Remove Original Lens Cover (if applicable):** Some GoPro models may have a removable protective lens cover. Gently twist and remove it if present, following your GoPro's specific instructions.
3. **Align the CPL Filter:** Take the K&F CONCEPT CPL filter. Align the filter with the camera's lens housing. The filter is designed for a precise fit.
4. **Attach the Filter:** Gently push and twist the filter clockwise until it securely locks into place. Do not force it. You should feel a slight click or resistance indicating it's properly seated.
5. **Verify Installation:** Once installed, gently tug on the filter to ensure it is firmly attached and will not fall off during use.



Image: The K&F CONCEPT CPL filter securely attached to a GoPro Hero camera, demonstrating its compact fit.



Image: An exploded diagram illustrating the multi-layered construction of the K&F CONCEPT CPL filter, including hydrophobic, optical glass, and dimming layers.

4. Operating Instructions

The CPL filter is designed to reduce glare and enhance colors. Here's how to use it effectively:

1. **Adjusting Polarization:** Once installed, the outer ring of the CPL filter can be rotated. Rotate this ring while looking through your GoPro's screen or viewfinder to observe the effect.
2. **Reducing Reflections:** Rotate the filter until reflections from water, glass, or other non-metallic surfaces are minimized or eliminated. This is particularly useful for shooting through windows or capturing clear underwater views from above the surface.
3. **Enhancing Sky and Foliage:** For landscape shots, rotate the filter to deepen the blue of the sky and increase the saturation of green foliage. The effect is most pronounced when the sun is at a 90-degree angle to your camera.
4. **Monitoring Exposure:** CPL filters reduce the amount of light entering the lens. Your GoPro's automatic exposure should compensate, but be aware that in very low light conditions, you might need to adjust other

camera settings or consider removing the filter.



Image: A side-by-side comparison demonstrating the CPL filter's effect on reducing reflections on water and enhancing sky contrast.

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Video: A demonstration of the K&F CONCEPT filters for GoPro Hero 9/10/11, showing quick installation and the effects of ND filters in various lighting conditions. This video highlights the ease of use and the visual improvements provided by the filters.

5. Care and Maintenance

Proper care will extend the life and performance of your CPL filter:

- **Cleaning:** Use a soft, clean microfiber cloth specifically designed for optical lenses to wipe the filter. For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the filter.
- **Handling:** Always hold the filter by its metal frame to avoid touching the glass surface, which can leave fingerprints or smudges.
- **Storage:** When not in use, store the filter in its protective case to prevent dust accumulation and scratches.
- **Water Exposure:** While the filter has a waterproof coating on the glass, it is not designed for full submersion or prolonged underwater use. Avoid exposing the entire filter to water to prevent damage to the frame or

internal components.

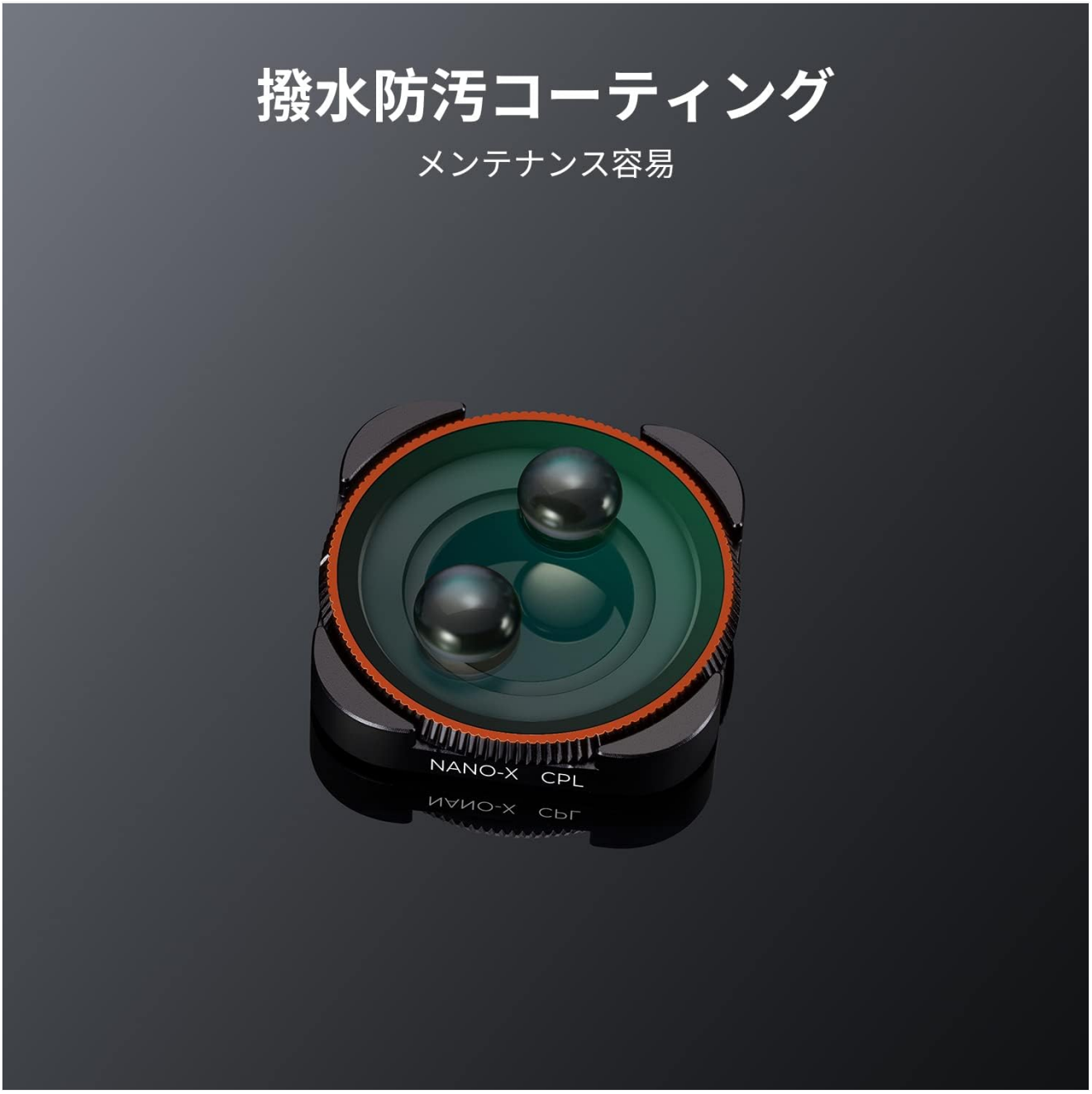


Image: The CPL filter showcasing its hydrophobic and oil-resistant coating, with water droplets beading on the surface.

6. Troubleshooting

Problem	Possible Cause	Solution
Filter not attaching securely.	Incorrect alignment or debris in the mounting mechanism.	Ensure proper alignment and gently twist. Check for any obstructions and clean if necessary.
Reflections still visible after adjustment.	Insufficient rotation or light source angle.	Rotate the filter slowly through its full range. The polarizing effect is strongest when the light source is at a 90-degree angle to the camera.
Image appears too dark.	CPL filters reduce light transmission.	This is normal. Your GoPro's auto-exposure should compensate. If not, consider increasing ISO or shutter speed if conditions allow, or remove the filter in very low light.

Problem	Possible Cause	Solution
Smudges or dirt on the filter.	Fingerprints or environmental dust.	Clean gently with a microfiber cloth. Use lens cleaning solution for stubborn marks.

7. Product Specifications

Feature	Detail
Brand	K&F CONCEPT
Model	CPL Filter
Material	Optical Glass
Filter Effect Type	Polarizer (CPL)
Coating	28-Layer Nano-Coating (Waterproof, Oil-resistant, Scratch-resistant)
Compatibility	GoPro HERO9 Black, GoPro HERO10 Black, GoPro HERO11 Black, GoPro HERO12 Black
Exposure Control Type	Auto (Camera dependent)
Video Resolution Support	Up to 5K (Camera dependent)
Recommended Media	Image, Video
File Formats	MP4, JPG

8. Warranty and Support

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