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NEEWER FL-P9

NEEWER Magnetic Filter Set User Manual

Compatible with DJI Osmo Pocket 3 / Pocket 4 / Xtra Muse (Model FL-P9)

1. Introduction

Thank you for choosing the NEEWER Magnetic Filter Set. This manual provides essential information for the proper setup, operation, and maintenance of your new filter set. These filters are designed to enhance your photography and videography experience with your DJI Osmo Pocket 3, Pocket 4, or Xtra Muse gimbal camera by providing precise light control and lens protection.
This set includes a UV filter, a CPL filter, and two variable ND filters (ND2-32 and ND64-512), all featuring a convenient magnetic attachment system.

2. Product Overview

The NEEWER Magnetic Filter Set is engineered with high-quality optical glass and multi-layer coatings to ensure superior image clarity and durability. The lightweight, ultra-slim aluminum frame ensures that the filters do not interfere with gimbal alignment or power control.



Figure 1: Overview of NEEWER Filter Set features and compatibility.

Included Filters:

- **UV Filter:** Provides lens protection and reduces ultraviolet light haze.
- **CPL Filter (Circular Polarizer):** Reduces glare from reflective surfaces like water or glass, and enhances color saturation and contrast.
- **Variable ND2-32 Filter (1-5 Stops):** A Neutral Density filter that reduces light intake by 1 to 5 f-stops, ideal for moderate lighting conditions to achieve cinematic motion blur.
- **Variable ND64-512 Filter (6-9 Stops):** A Neutral Density filter that reduces light intake by 6 to 9 f-stops, suitable for very bright conditions and enabling longer exposure times.

Key Features:

- **Magnetic Attachment:** Allows for quick and secure filter changes.
- **HD Optical Glass:** Ensures high image quality and clarity with minimal reflectivity.
- **Multi-Layer Coatings:** Provides water & oil repellency, anti-reflective properties, and scratch resistance.
- **Lightweight & Slim Design:** Prevents interference with gimbal operation.

3. Setup and Installation

The filters are designed for easy and rapid attachment to your compatible gimbal camera.

Important Reminders:

- Do not apply protective films to the camera lens when using these filters.
- Do not stack multiple filters, as this may affect gimbal performance or image quality.

Installation Steps:

1. Identify the desired filter (UV, CPL, ND2-32, or ND64-512) for your shooting conditions.
2. Gently align the filter with the lens of your DJI Osmo Pocket 3/4 or Xtra Muse camera.
3. The magnetic design will securely attach the filter to the lens.
4. For Variable ND filters, rotate the outer ring to adjust the desired light reduction level.



Figure 2: Illustrates the strong magnetic attachment of the filters.

4. Operating Instructions

Each filter type serves a specific purpose to optimize your camera's performance in various lighting environments.

Using Variable ND Filters (ND2-32 & ND64-512):

Variable ND filters allow you to control the amount of light entering the camera sensor without affecting color. This is crucial for maintaining proper exposure and achieving desired shutter speeds, especially for video to create a cinematic motion blur effect.

- **ND2-32 (1-5 Stops):** Use in moderately bright conditions. Rotate the filter ring to select between 1 to 5 stops of light reduction.
- **ND64-512 (6-9 Stops):** Use in very bright conditions, such as direct sunlight, or when you need very slow shutter speeds for long exposure photography. Rotate the filter ring to select between 6 to 9 stops of light reduction.



Figure 3: Adjusting a Variable ND Filter on the camera.

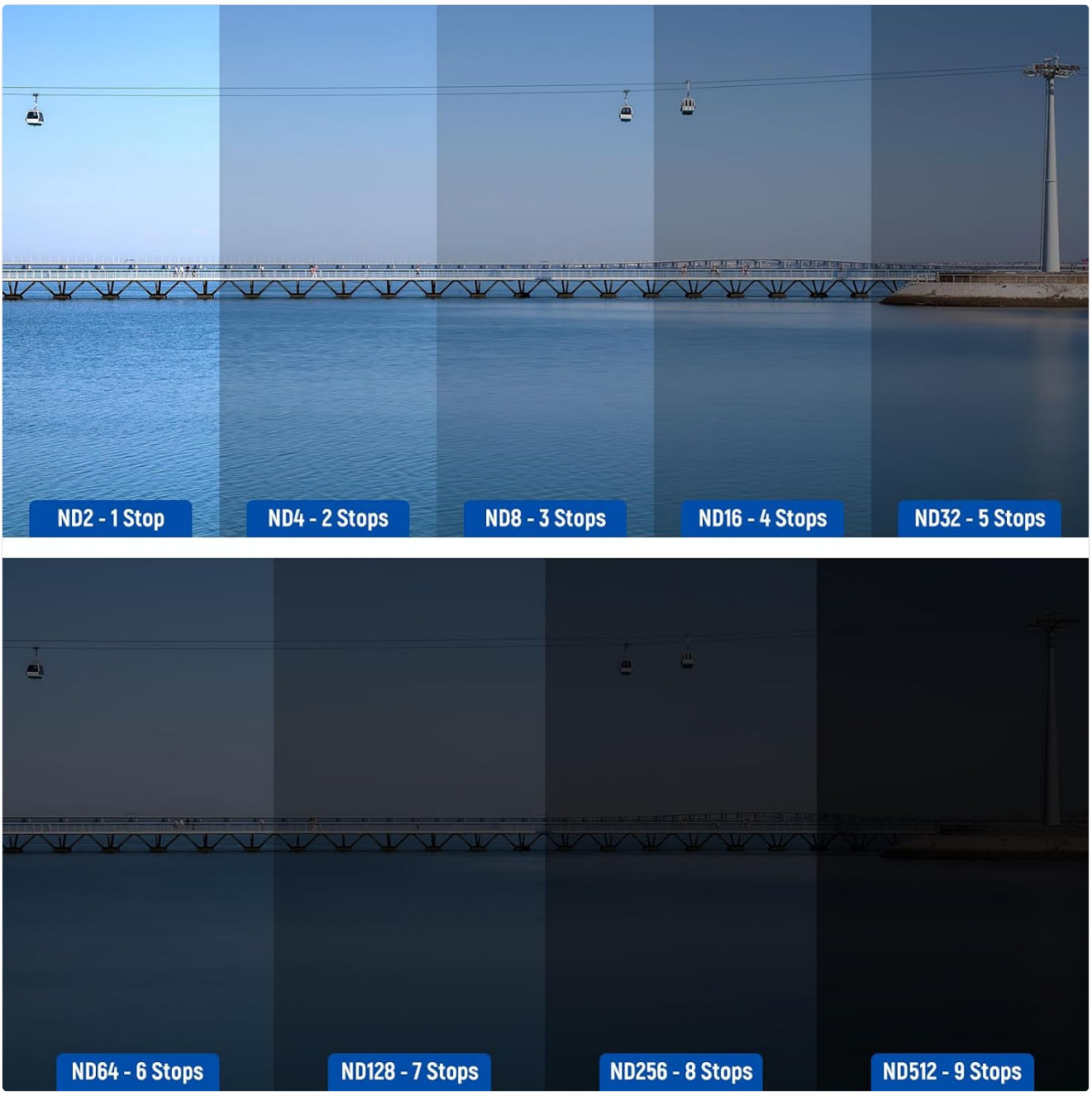


Figure 4: Visual comparison of light reduction at various ND stops.

Using CPL Filter:

The CPL filter is effective in reducing unwanted reflections and enhancing natural colors. Rotate the CPL filter until the desired effect is achieved. You will observe reflections diminishing and colors becoming more vibrant, especially in skies and foliage.

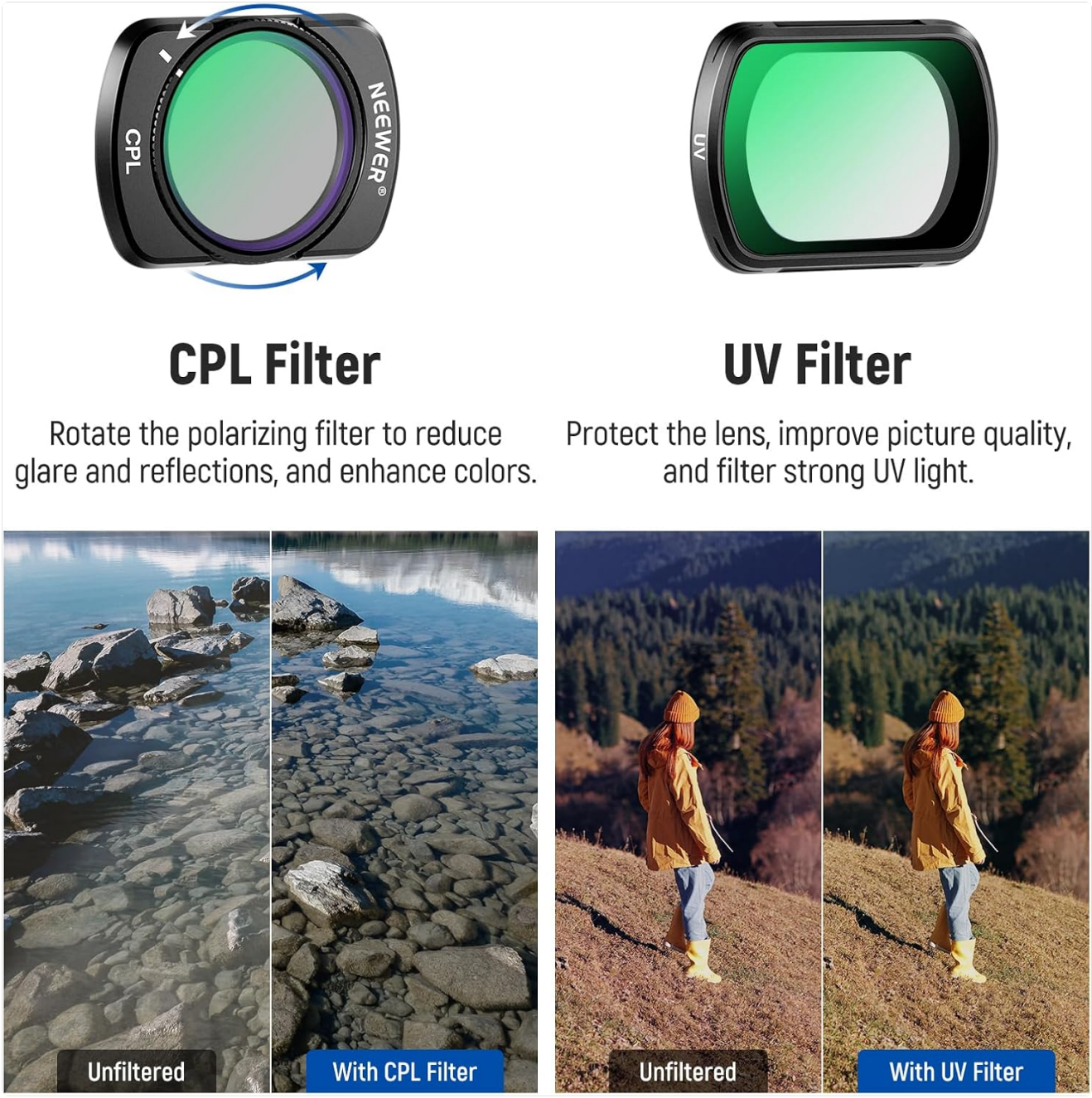


Figure 5: Effect of CPL filter on reflections and UV filter on haze.

Using UV Filter:

The UV filter primarily serves as a protective layer for your camera lens against scratches, dust, and moisture. It also helps to reduce atmospheric haze and UV light, which can sometimes cause a bluish cast in outdoor photos.

Video Demonstrations:

Video 1: A short demonstration of the magnetic variable ND filter set in use, showcasing quick attachment and effect.

Video 2: An overview of the NEEWER Magnetic ND & CPL Filter Kit, highlighting its features and application.

Video 3: A demonstration of the NEEWER Magnetic Variable Filter Set, showing its magnetic attachment and variable adjustment.

5. Maintenance

Proper care and maintenance will prolong the life and performance of your NEEWER filters.

- **Cleaning:** Use the provided cleaning cloth to gently wipe away dust, fingerprints, or smudges. For stubborn marks, use a specialized lens cleaning solution and a microfiber cloth.
- **Storage:** Always store the filters in the included protective case when not in use to prevent scratches and damage.
- **Handling:** Handle filters by their edges to avoid touching the glass surface.
- **Environmental Conditions:** While water-repellent, avoid prolonged exposure to heavy rain or extreme moisture.

6. Troubleshooting

If you encounter any issues, please refer to the following common solutions:

- **Filter Not Attaching Securely:** Ensure there are no protective films or other accessories on your camera lens that might interfere with the magnetic attachment. Do not stack filters.
- **Gimbal Malfunction/Error:** Always ensure the camera is powered off before attaching or detaching filters. Avoid adjusting variable ND filters while the gimbal is actively stabilizing, as this can strain the motors.
- **Image Quality Issues (e.g., Cross-Polarization/"X" pattern with VND):**This can occur at the extreme ends of the variable ND filter's rotation range. For optimal image quality, try to use the filter within its mid-range settings.
- **Dust/Smudges on Image:** Clean the filter and camera lens thoroughly using the provided cleaning cloth.

7. Specifications

Brand	NEEWER
Model Number	FL-P9
Material	Optical Glass
Coating Description	30-Layer Multi Coating
Filter Types Included	UV, CPL, Variable ND2-32, Variable ND64-512
Photo Filter Thread Size	22.2 Millimeters
Water Resistance Level	Water Repellent
Compatible Devices	DJI OSMO Pocket 3, DJI Osmo Pocket 4, Xtra Muse
Item Weight	2.82 Ounces (80g)

8. What's in the Box



Figure 6: Contents of the NEEWER Magnetic Filter Set package.

- 1 x Magnetic Variable ND2-32 Filter
- 1 x Magnetic Variable ND64-512 Filter
- 1 x Magnetic CPL Filter
- 1 x Magnetic UV Filter
- 1 x Filter Case
- 1 x Cleaning Cloth

9. Warranty and Support

This NEEWER product comes with a**1 Year Manufacturer Warranty**. For warranty claims, technical support, or any inquiries regarding your product, please contact NEEWER customer service through their official website or the platform where you purchased the product.
You can also visit the NEEWER Store on Amazon for more information and product updates.

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