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> NEEWER True Colors 77mm Variable ND2-32 & CPL Filter Set with Magnetic ND32 Instruction Manual

NEEWER NW SERIES S

NEEWER True Colors 77mm Variable ND2-32 & CPL Filter Set with Magnetic ND32 Instruction Manual

Model: NW SERIES S

INTRODUCTION

This manual provides instructions for the NEEWER True Colors 77mm Variable ND2-32 & CPL Filter Set with Magnetic ND32. This filter combines variable neutral density (ND) and circular polarizing (CPL) functions, offering light reduction and reflection elimination for photography and videography.

Package Contents

- 1 x CPL & ND2-32 Filter
- 1 x Magnetic ND32 Filter
- 1 x Cleaning Cloth
- 1 x Storage Case

77mm Filter For Camera Lens

Compatible with any 77mm lens.
The filter thread size is marked on the front or side of your lens, next to a "∅" [diameter] symbol.

NOTE

The 77mm ND filter requires an **82mm lens cap (Not Included)**. The front diameter is larger than the back diameter of this filter which is specially designed to avoid vignetting on wide angle lens. This filter cannot work with lens hoods due to the integrated manual knob.

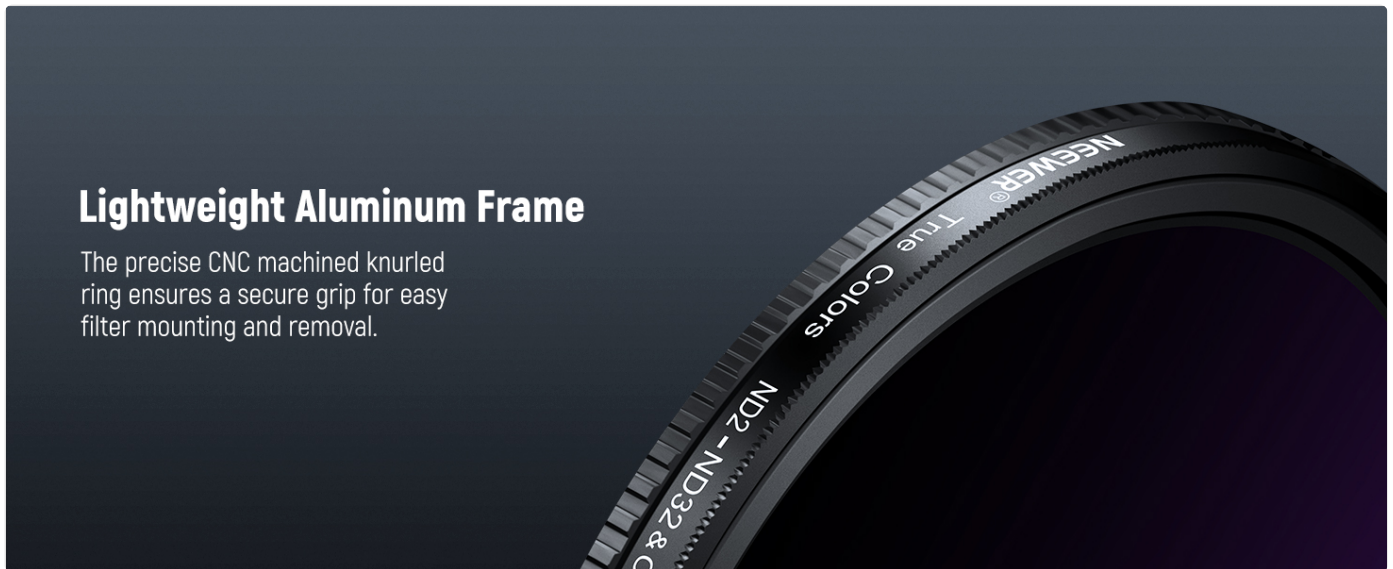


Image: The complete package contents of the filter set.

SETUP

Before attaching the filter, verify your camera lens filter size. This is typically marked with a "ø" symbol on your lens. This filter is designed for 77mm lenses.

1. **Identify Lens Thread Size:** Locate the filter thread size on your camera lens. Ensure it is 77mm.
2. **Attach the CPL & ND2-32 Filter:** Carefully screw the CPL & ND2-32 filter onto the front thread of your lens. Ensure it is securely fastened but do not overtighten.
3. **Magnetic ND32 Filter Attachment (Optional):** For additional light reduction (6-9 stops), the magnetic ND32 filter can be attached magnetically to the front of the CPL & ND2-32 filter. This allows for quick mounting and removal.



Lightweight Aluminum Frame

The precise CNC machined knurled ring ensures a secure grip for easy filter mounting and removal.

Image: Illustration of the magnetic attachment mechanism for the ND32 filter.

Note:

- This filter cannot work with traditional lens hoods due to the integrated manual knob.
- The magnetic ND32 filter cannot work independently and does not feature threads for accessories.
- A separate 82mm lens cap is required for the 77mm filter due to its design to prevent vignetting on wide-angle lenses.



Package Contents

- 1 x ND2-32 & CPL Filter
- 1 x Magnetic ND32 Filter
- 1 x Cleaning Cloth
- 1 x Storage Case

Image: The 77mm filter requires an 82mm lens cap due to its design.

OPERATING INSTRUCTIONS

Adjusting Variable ND (1-5 Stops)

The primary filter provides variable neutral density from ND2 to ND32, which corresponds to 1 to 5 stops of light reduction.

1. **Loosen the Knob:** Locate the small knob on the side of the filter. Loosen this knob to allow rotation of the ND element.
2. **Rotate to Adjust ND:** Rotate the outer ring of the filter to increase or decrease the ND effect. The filter has markings from MIN to MAX to guide your adjustment.

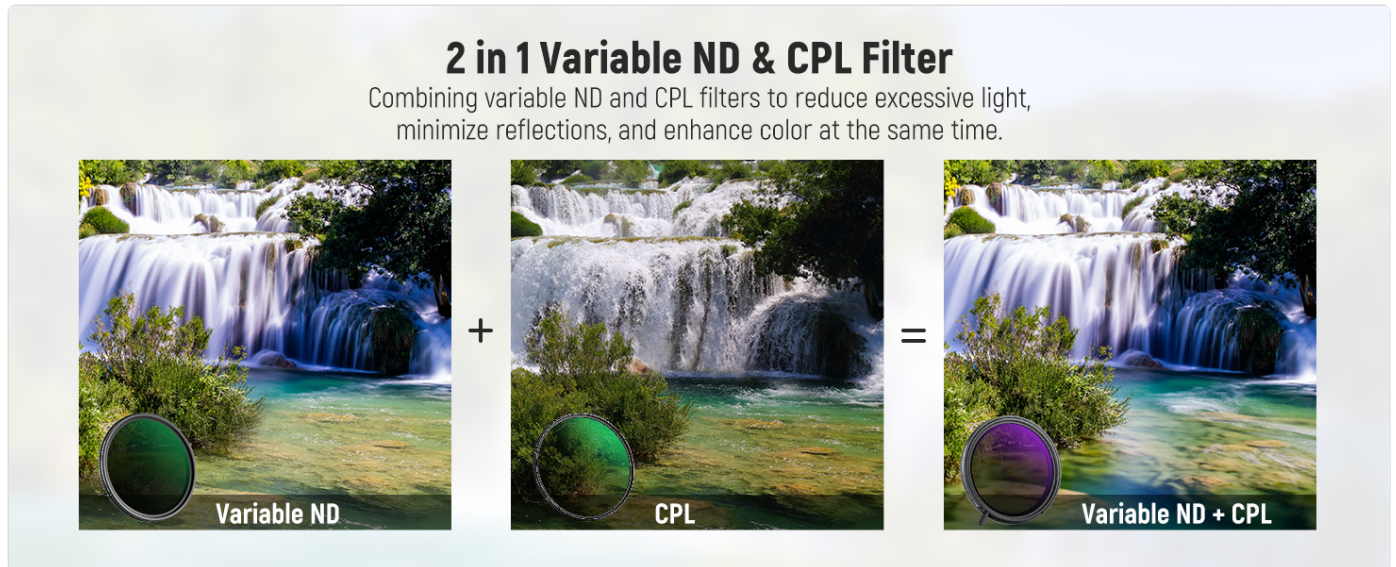


Image: Steps for adjusting the variable ND filter by loosening the knob and rotating.

Adjusting CPL Effects

The filter also incorporates a circular polarizer to reduce reflections and enhance color saturation.

1. **Tighten the Knob:** Once the desired ND level is set, tighten the knob to lock the ND adjustment.
2. **Rotate to Adjust CPL:** With the knob tightened, rotate the outer ring of the filter to adjust the polarizing effect. Observe the viewfinder or screen to achieve the desired reduction in reflections or color enhancement.



Image: Steps for adjusting the CPL effect by tightening the knob and rotating the filter.

Using Magnetic ND32 for Extended Light Reduction (6-9 Stops)

When more significant light reduction is needed, the magnetic ND32 filter can be added.

1. **Attach Magnetic ND32:** Place the magnetic ND32 filter onto the front of the CPL & ND2-32 filter. It will snap into place magnetically.
2. **Combined Effect:** With both filters, the light reduction range extends from ND64 to ND512 (6 to 9 stops).
3. **Adjust as Needed:** Continue to adjust the primary CPL & ND2-32 filter as described above to fine-tune the light reduction and polarization.



Image: Visual representation of light reduction capabilities with and without the magnetic ND32 filter.

Official Product Videos

Your browser does not support the video tag.

Video: Demonstrates the NEEWER True Colors Variable ND Filter in use, showcasing its light reduction capabilities.

Your browser does not support the video tag.

Video: Overview of the NEEWER True Colors Variable ND2-32 & CPL with Magnetic ND32, highlighting its features and functionality.

TROUBLESHOOTING

Removing the Dark "X" Pattern (X-shaped Vignetting)

A dark "X" pattern may appear at maximum aperture when using variable ND filters. This is a normal optical phenomenon that occurs when the two polarizing filters within the variable ND are aligned at a specific angle, interacting with certain lenses and focal lengths.

Solution: To resolve this, reduce the neutral density value by rotating the filter towards the minimum mark. This adjusts the alignment of the internal polarizing elements, eliminating the "X" pattern.

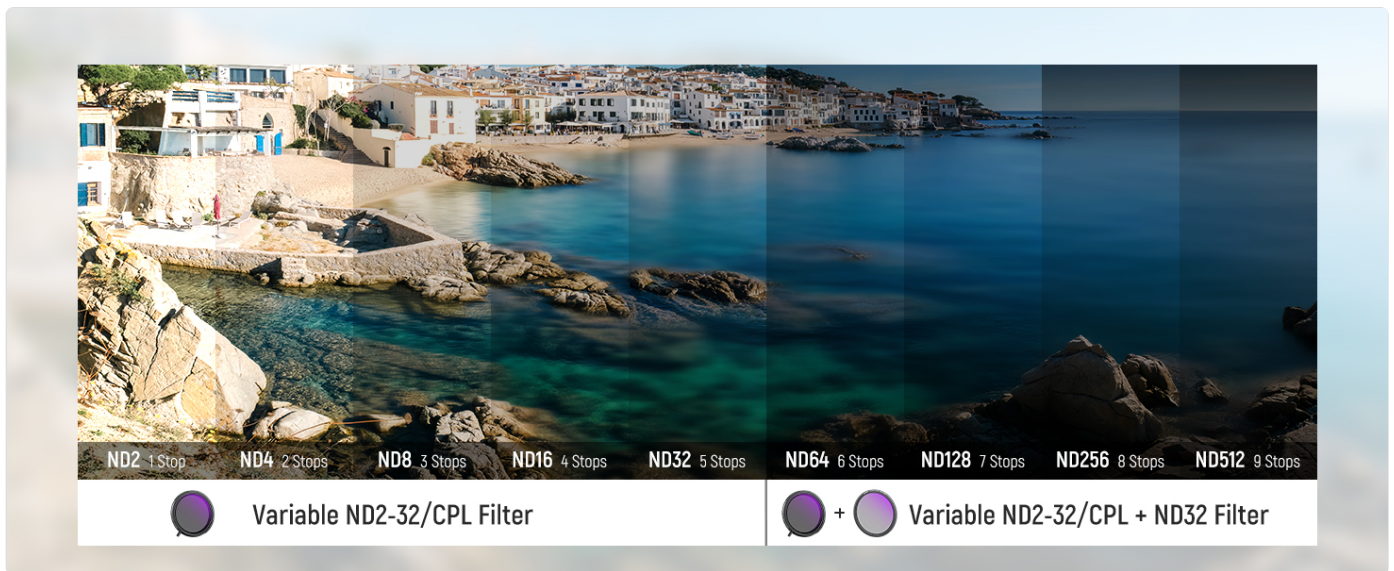


Image: Visual guide on correcting the "X" pattern by reducing the ND level.

MAINTENANCE

To ensure the longevity and optimal performance of your NEEWER True Colors filter, follow these maintenance guidelines:

- **Cleaning:** Use the provided cleaning cloth or a soft, lint-free microfiber cloth specifically designed for optical surfaces. Gently wipe the filter to remove dust, fingerprints, or smudges. For stubborn marks, a small amount of lens cleaning solution can be applied to the cloth (not directly to the filter).
- **Protection:** The filter features HD multicoated optical glass that resists water, dust, oil, and scratches. However, always store the filter in its protective case when not in use to prevent damage.
- **Handling:** Avoid touching the glass surfaces directly with your fingers. Handle the filter by its aluminum frame.
- **Storage:** Store the filter in a cool, dry place away from direct sunlight and extreme temperatures.



Image: The filter's water-resistant coating repels liquids, making it easier to clean.

Realistic Color Reproduction

Bring the colors of your images to life.



Image: The filter's scratch-resistant coating provides enhanced durability.

SPECIFICATIONS

Brand	NEEWER
Model Name	NEEWER True Colors Variable ND2-32 & CPL with Magnetic ND32 Filter Set
Model Number	NW SERIES S (10105208)
Filter Thread Size	77 Millimeters
Material	Optical Glass, Aluminum
Coating Description	Multi Coating
Filter Effect Type	Polarizer, Variable Neutral Density
Light Reduction (ND2-32)	1-5 Stops
Light Reduction (with Magnetic ND32)	6-9 Stops (ND64-ND512)
Water Resistance Level	Water Resistant
Product Dimensions	3.03"L x 3.03"W
Compatible Devices	Cameras with a 77mm filter thread

WARRANTY & SUPPORT

Warranty Information

This NEEWER product comes with a **1 Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please visit the official NEEWER website or contact their customer support directly. Refer to the product packaging or the NEEWER website for the most current contact

information.

You can also visit the [NEEWER Store on Amazon](#) for additional product information and support resources.