

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [SMALLRIG](#) /

› [SmallRig Filter Kit with Adjustable Clamp \(67mm-82mm\) Instruction Manual](#)

SMALLRIG 11704

SmallRig Filter Kit with Adjustable Clamp (67mm-82mm) - Model 4412

Instruction Manual

PRODUCT OVERVIEW

The SmallRig Filter Kit 4412 is designed to enhance your photography and videography by providing versatile filter options and a convenient mounting system. This kit includes a unique adjustable clamp that fits lenses from 67mm to 82mm, along with CPL (Circular Polarizer) and Black Diffusion 1/4 filters. The magnetic modular design allows for quick and easy assembly and disassembly of filters.

Key features include:

- **Versatile Filter Combinations:** Stack CPL and Diffusion filters magnetically. CPL1 can be combined with CPL2/CPL3 to form a VND (Variable Neutral Density) filter, offering 2-5 stops of seamless adjustment without unwanted X-patterns.
- **Adjustable Clamp (67mm-82mm):** Ensures broad compatibility with popular mirrorless and cinema lenses.
- **Magnetic Modular Design:** Facilitates easy, three-step accessory assembly and disassembly, reducing equipment weight and enhancing comfort.
- **Black Diffusion 1/4 Filter:** Delivers a delicate, cinematic softness, ideal for portrait retouching and creating dreamy atmospheres.

SETUP AND INSTALLATION

Proper installation ensures optimal performance and secure attachment of the filter kit to your camera lens.

Component Identification

Familiarize yourself with the components of your SmallRig Filter Kit 4412:



Figure 1: Exploded view of the SmallRig Filter Kit 4412, showing the adjustable clamp, CPL filters, black diffusion filter, and lens caps.

- **Adjustable Clamp:** The main unit that attaches to your lens.
- **CPL 1 Filter:** Circular Polarizer filter, base for VND.
- **CPL 2 Filter:** Used in combination with CPL 1 for VND.
- **Black Diffusion 1/4 Filter:** For cinematic softness.
- **Lens Cap & Dust Cover:** For protection when not in use.

Attaching the Adjustable Clamp

1. **Prepare Your Lens:** Before attaching the filter kit, ensure you remove any existing UV filters from the front of your camera lens.
2. **Adjust the Clamp:** The adjustable clamp is designed to fit lenses with diameters ranging from 67mm to 82mm. Gently open the clamp to accommodate your lens.
3. **Secure to Lens:** Position the clamp onto the front of your lens. The clamp will securely grip the lens.
4. **Engage Top Locking Device:** Securely fasten the top locking device (thumbscrew) to reinforce the attachment.

Important: Do not operate the kit without the top knob securely locked.

Adjustable Clamp Design

Range from 67 to 82mm, to fits a wide array of lenses



Note: Remove the UV filter from the lens before use.

Figure 2: The adjustable clamp mechanism, showing how it adapts to various lens diameters.

Magnetic Modular Design

It facilitates easy accessory assembly and disassembly in a mere 3 steps



Note:

Do not operate without the top knob securely locked

Figure 3: The magnetic modular design allows for quick and easy attachment of filters.

Lens Compatibility

The adjustable clamp supports a wide range of lenses. Refer to the tables below for common compatible lenses. Please note that this matte box cannot be installed if the external diameter of your mirrorless lens is greater than 88mm or your cinema lens diameter is greater than 85mm.

Lens Compatibility

For Sony

FE 16-35mm f/2.8 GM
 FE 24-70 f2.8 GM
 FE 16-35mm f/4 ZA
 FE 24-70mm f/4 ZA OSS (Vario-Tessar)
 FE 70-200mm f/4 G OSS
 FE 24-70mm f/4 ZA OSS
 FE 4/24-70 ZA OSS
 Planar T* FE 50mm f/1.4 ZA
 E PZ 18-105mm f/4 G OSS
 E PZ 18-200mm f/3.5-6.3 OSS LE
 FE 24-105mm f/4 G OSS
 FE 4/24-105 G OSS
 FE 24mm f/1.4 GM
 Distagon T*FE 35mm f1.4 ZA
 FE 90mm f/2.8 G OSS
 FE 70-300mm f/4.5-5.6 G OSS
 FE 30-300mm f/4.5-5.6 G OSS
 FE 50mm F2.8 MACRO
 FE 20mm F1.8 20G

For Canon

EF 16-35mm f/2.8L III USM
 EF 16-35mm f/2.8L II USM
 EF 24-70mm f/2.8L II USM
 EF 70-200mm f/2.8L IS II USM
 EF 24-105mm f/4L IS USM
 EF 24-105mm f/4L IS II USM
 RF24-105mm f/4.1-7.1 IS STM
 EF-S 18-135mm f/3.5-6.3 IS
 EF-S 18-135mm f/3.5-5.6 IS STM
 EF-S 18-200mm f/3.5-5.6 IS
 EF 100mm f/2.8L IS USM
 EF 70-300mm f/4-5.6L IS USM
 EF 70-300mm f/4-5.6 IS II USM
 EF-S 15-85mm f/3.5-5.6 IS USM
 EF 100mm f/2 USM
 TS-E 24mm f/3.5L Tilt shift
 EF 35mm f/1.4L II USM
 EF 17-40mm f/4L USM
 EF 70-200mm f/4L IS II USM

For SAMYANG

AF 24-70/2.8FE



Note:

It cannot use with mirrorless lens > 88mm, or the cinema lens > 85mm

Figure 4: Compatible Sony and Canon lenses.

For Panasonic	For Fujifilm
for Lumix S 24-105mm f / 4 Macro OIS for Lumix S PRO 70-200mm f / 4 OIS for Leica DG 100-400mm f / 4-6.3 ASPH POWER OIS for LEICA DG Vario-Elmarit 50-200mm f / 2.8-4 ASPH Power OIS for Lumix H-NS 42.5mm f / 1.2 for LEICA DG Vario-Elmarit 12-60mm f / 2.8-4 Power OIS	Xf 16-55mm f/2.8 R LM WR 80mm f/2.8 R LM OIS WR Macro Gf 45mm f/2.8R Gf 63mm f/2.8 R WR Super EBC Xf 55-200mm f /3.5-4.8 R LM OIS Xf 16mm f/1.4R WR Xf 56mm f/1.2R Super EBC Xf 23mm f/1.4R Xf 90mm f/2.0 R LM WR
For SIGMA	For Nikon
for SIGMA 50mm f/1.4 Art for SIGMA 24mm f/1.4 Art 70mm f/2.8 DG Macro Art 35mm f/1.4 DG HSM Art for SIGMA 18-35 f1.8 FE24-70 f2.8 DG DN for SIGMA 16mm f1.4 DC DN	Af-S 20mm f/1.8G Af-S 85mm f/1.8g Af-S 24MM f/1.8G ED NIKKOR Z 24-70mm f/2.8 S 24/70mm 4 S
For OLYMPUS	For ZEISS
for OLYMPUS M.Zuiko Digital ED 12-100mm f/4 IS Pro for OLYMPUS M.Zuiko Digital ED 25mm f/1.2 Pro	Milvus 25mm f/1.4 Milvus 85mm f/1.4 Milvus 35mm f/2 Milvus21mm f/2.8 Milvus 50mm f/1.4

Figure 5: Compatible Panasonic, Fujifilm, Sigma, Nikon, Olympus, Zeiss, and Samyang lenses.

OPERATING INSTRUCTIONS

This section details how to use the various filters included in your kit to achieve desired photographic and videographic effects.

Using CPL Filters and VND Combination

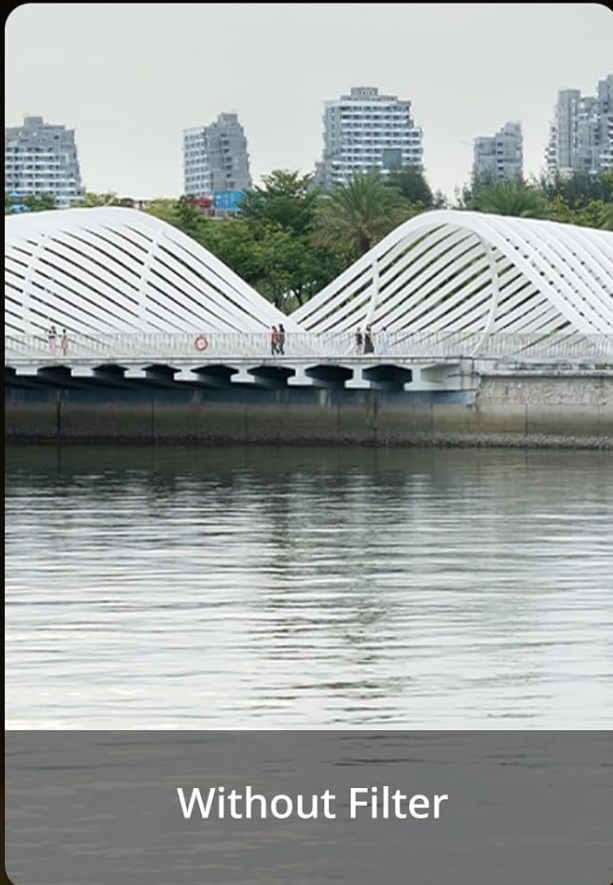
The CPL filters help reduce glare and reflections, enhancing color saturation and contrast. By combining CPL1 with CPL2 or CPL3, you can create a Variable Neutral Density (VND) filter.

- **CPL Function:** Attach a single CPL filter magnetically to the clamp. Rotate the filter to adjust the polarization effect, reducing reflections from non-metallic surfaces like water or glass, and deepening blue skies.
- **VND Combination:**
 - **VND 2-5 Stops:** Stack CPL1 and CPL2 magnetically.
 - **VND 6-9 Stops:** Stack CPL1 and CPL3 magnetically (if CPL3 is included in your specific kit).

- **Adjusting VND:** Once stacked, rotate the outer ring of the VND combination to seamlessly adjust the light reduction from 2 to 5 stops (or 6 to 9 stops), allowing for precise exposure control in bright conditions. This prevents the common "X-pattern" often seen with lower quality VND filters.

Only Fits SmallRig Filters

Seamlessly fits SmallRig circular and square filters, ensuring no vignetting and reducing glare effectively



Without Filter



With CPL1 Filter



Note: "No vignetting" only at focal lengths $\geq 16\text{mm}$ with full-frame cameras and lenses

Figure 6: Effect of CPL1 filter on reflections and glare.

VND Combination

CPL1 + CPL2 = VND 2-5 Stops, CPL1 + CPL3 = VND 6-9 Stops



Note: "No vignetting" only at focal lengths $\geq 16\text{mm}$ with full-frame cameras and lenses

Figure 7: VND filter combination using CPL1 and CPL2 for variable light reduction.

Note: "No vignetting" is generally achieved only at focal lengths greater than or equal to 16mm with full-frame cameras and lenses when using these filters.

Using the Black Diffusion 1/4 Filter

The Black Diffusion 1/4 filter is designed to create a soft, cinematic look by subtly diffusing light and reducing contrast, making it ideal for portraits and atmospheric shots.

- **Attachment:** Simply attach the Black Diffusion 1/4 filter magnetically to the adjustable clamp.
- **Effect:** This filter softens harsh light sources, reduces blemishes and wrinkles in portraits, and creates a gentle glow around highlights, contributing to a dreamy or vintage aesthetic.

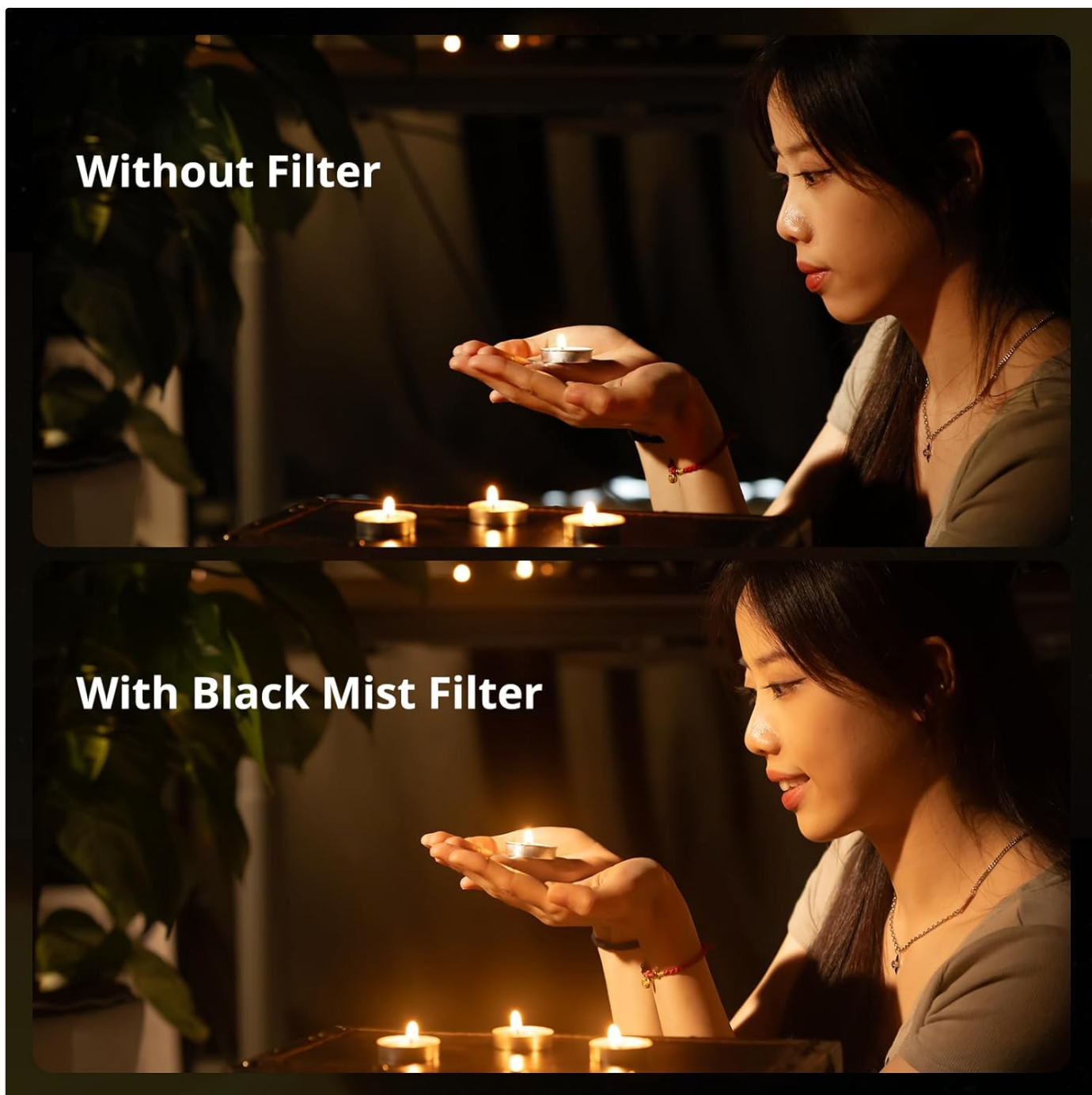


Figure 8: Effect of the Black Diffusion 1/4 filter on image softness and highlights.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your SmallRig Filter Kit, follow these maintenance guidelines:

- **Cleaning Filters:** Use a soft, lint-free microfiber cloth specifically designed for optical surfaces. For stubborn smudges, use a small amount of lens cleaning solution applied to the cloth, not directly to the filter.
- **Cleaning the Clamp:** Wipe the clamp and other non-optical parts with a clean, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Storage:** When not in use, store the filters in their protective case or with the provided lens caps and dust covers to prevent scratches and dust accumulation. Store the entire kit in a dry, cool place away from direct sunlight and extreme temperatures.
- **Handling:** Always handle the filters by their edges to avoid leaving fingerprints on the optical surfaces.
- **Avoid Impact:** While durable, avoid dropping the kit or subjecting it to strong impacts, which could damage the filters or the clamp mechanism.

TROUBLESHOOTING

This section addresses common issues you might encounter with your SmallRig Filter Kit.

Problem	Possible Cause	Solution
Filter kit does not attach securely to the lens.	Top locking device not securely fastened. Lens diameter outside the 67mm-82mm range. Existing UV filter on the lens.	Ensure the top knob is securely locked after attaching the clamp. Verify your lens diameter is within the specified range (67mm-82mm). Remove any UV filters from the front of your lens before installation.
Vignetting (dark corners) appears in images.	Using focal lengths shorter than 16mm on full-frame cameras. Improper filter stacking.	Vignetting may occur at focal lengths below 16mm on full-frame cameras. This is expected behavior for some filter combinations. Ensure filters are correctly and fully seated magnetically.
Matte box cannot be installed on certain lenses.	Lens external diameter exceeds limits.	The matte box is not compatible with mirrorless lenses greater than 88mm or cinema lenses greater than 85mm in external diameter. Check your lens specifications.

SPECIFICATIONS

Detailed technical specifications for the SmallRig Filter Kit 4412.

Filter Kit with Adjustable Clamp

ID 4412

- Filter Kit with Adjustable Clamp × 1
- CPL 1 Filter × 1
- CPL 2 Filter × 1
- Black Mist 1/4 Filter × 1
- Lens Cap × 1
- Dust Cover × 1
- User Manual × 1



Product Dimensions

147.0 x 133.0 x 25.0mm /
5.8 x 5.2 x 1.0in

Product Weight

279.0 ± 5.0g / 9.8 ± 0.2oz

Material(s)

Aluminum Alloy, Nylon + Glass Fiber, Carbon Fiber, Magnet, Stainless Steel, Glass

Package Dimensions

138.0 x 151.0 x 69.0mm /
5.4 x 5.9 x 2.7in

Package Weight

464.0 ± 5.0g / 16.4 ± 0.2oz

Figure 9: Product and package specifications.

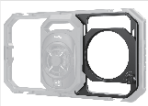


Attribute	Detail
Model Number	11704
Product Dimensions	147.0 x 133.0 x 25.0 mm / 5.8 x 5.2 x 1.0 inches
Package Dimensions	138.0 x 151.0 x 69.0 mm / 5.4 x 5.9 x 2.7 inches
Product Weight	279.0 ± 5.0 g / 9.8 ± 0.2 oz
Package Weight	464.0 ± 5.0 g / 16.4 ± 0.2 oz
Materials	Aluminum Alloy, Nylon + Glass Fiber, Carbon Fiber, Magnet, Stainless Steel, Glass
Photo Filter Thread Size	67 Millimeters (clamp range 67mm-82mm)
Coating Description	Multi-layer Coating
Photo Filter Effect Type	Polarizer, Variable Neutral Density, Diffusion



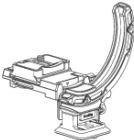
Attribute	Detail
Water Resistance Level	Not Water Resistant
Date First Available	August 27, 2024

WARRANTY AND SUPPORT

SmallRig products are manufactured to high-quality standards. For information regarding warranty coverage, product registration, or technical support, please visit the official SmallRig website or contact their customer service directly. Official SmallRig Website: www.smallrig.com For further assistance, you may also refer to the [SmallRig Brand Store on Amazon](#).

Related Documents - 11704

<div><div>SmallRig</div><div></div><div><div>67mm Threaded Filter Adapter</div><div>(for Universal Video Cage 4299B)</div><div>67mm螺纹滤镜转接环</div><div>(适用于通用视频 cage4299B)</div><div>Operating Instruction</div></div></div>	<div><div>SmallRig 67mm Threaded Filter Adapter for Universal Video Cage 4299B - Operating Instructions</div><div>Official operating instructions for the SmallRig 67mm Threaded Filter Adapter, designed for the Universal Video Cage 4299B. Learn how to install and use the adapter with filters and anti-glare shields.</div></div>
<div><div>SmallRig</div><div></div><div><div>Mini Matte Box Lite</div></div></div>	<div><div>SmallRig Mini Matte Box Lite 3575 Operating Instructions</div><div>Operating instructions for the SmallRig Mini Matte Box Lite 3575, a lightweight and compact matte box designed for DSLRs and mirrorless cameras to control light and prevent glare. Includes product details, safety guidelines, and specifications.</div></div>
<div><div>SmallRig</div><div></div><div><div>Arca-Type Quick Release Mount Plate Kit</div></div></div>	<div><div>SmallRig Arca-Type Quick Release Mount Plate Kit 2280 Operating Instructions</div><div>Operating instructions for the SmallRig Arca-Type Quick Release Mount Plate Kit 2280, designed for mirrorless and DSLR cameras. Includes product details, safety guidelines, specifications, and what's in the box.</div></div>

<div data-bbox="118 91 309 365"><p>SmallRig</p><p>Rotating Side Handle with Trigger REC 旋轉錄影側手柄 Operating Instruction / 操作指引</p></div>	<p>SmallRig Rotating Side Handle with Trigger REC - Operating Instructions & Specifications</p> <p>Comprehensive operating instructions, installation guide, product details, and specifications for the SmallRig Rotating Side Handle with Trigger REC (Models 3893 and 5235) for Sony, Canon, and Blackmagic Design cameras.</p>
<div data-bbox="118 539 309 790"><p>SmallRig</p><p>ND Filter Kit (for DJI Osmo Action 5 Pro / 4) ND濾鏡套件 (適用於DJI Osmo Action 5 Pro/4) Operating Instruction / 操作指引</p></div>	<p>SmallRig ND Filter Kit for DJI Osmo Action 5 Pro/4 Operating Instructions</p> <p>This document provides operating instructions for the SmallRig ND Filter Kit designed for the DJI Osmo Action 5 Pro and 4 cameras. It details the contents of the package, installation methods, and product specifications.</p>
<div data-bbox="118 831 309 1104"><p>SmallRig</p><p>Horizontal-to-Vertical Mount Plate Kit for Mirrorless Cameras 通用型橫豎拍安裝板套件 Operating Instruction / 操作指引</p></div>	<p>SmallRig Horizontal-to-Vertical Mount Plate Kit for Mirrorless Cameras - Operating Instruction</p> <p>Operating instructions for the SmallRig Horizontal-to-Vertical Mount Plate Kit, designed for mirrorless cameras. Includes product details, specifications, compatibility, and step-by-step installation guide.</p>