

skkyFPV

ND Filter Test for DJI O4 Pro

August 10, 2025, www.skkyfpv.com



We tested 8 ND Filters for the DJI O4 Pro Air Unit



Tests by skkyFPV

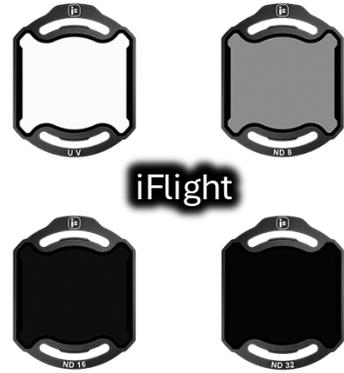
1. ND Stops
2. Fit
3. Vignetting
4. Flare
5. Weight
6. Case usability

1. ND Stops: Camera Butter, GepRC and GoPro Flywoo offer 4 ND stops plus UV filters



★
8/16/32

Winner



★★
UV/8/16/32

Winner

Camera Butter

★★★
UV/4/8/16/32



★★
UV/8/16/32

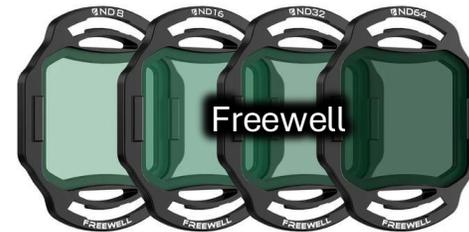
Winner

GepRC

★★★
UV/8/16/32/64



★
UV/4/8/16



★★
8/16/32/64

GoPro Flywoo

★★★
UV/4/8/16/32

2. Fit: DJI O4 Pro camera comes with two different diameters – making many NDs not fit well

“Small” O4 Pro Camera



Inner diameter
20.1mm (-0.2mm)



Outer diameter
22.3mm (identical)

Best for NDs with 20.35-20.45 mm inner diameter like
DJI, BetaFPV, Flywoo v2, Freewell

“Large” O4 Pro Camera
(more common in Europe)



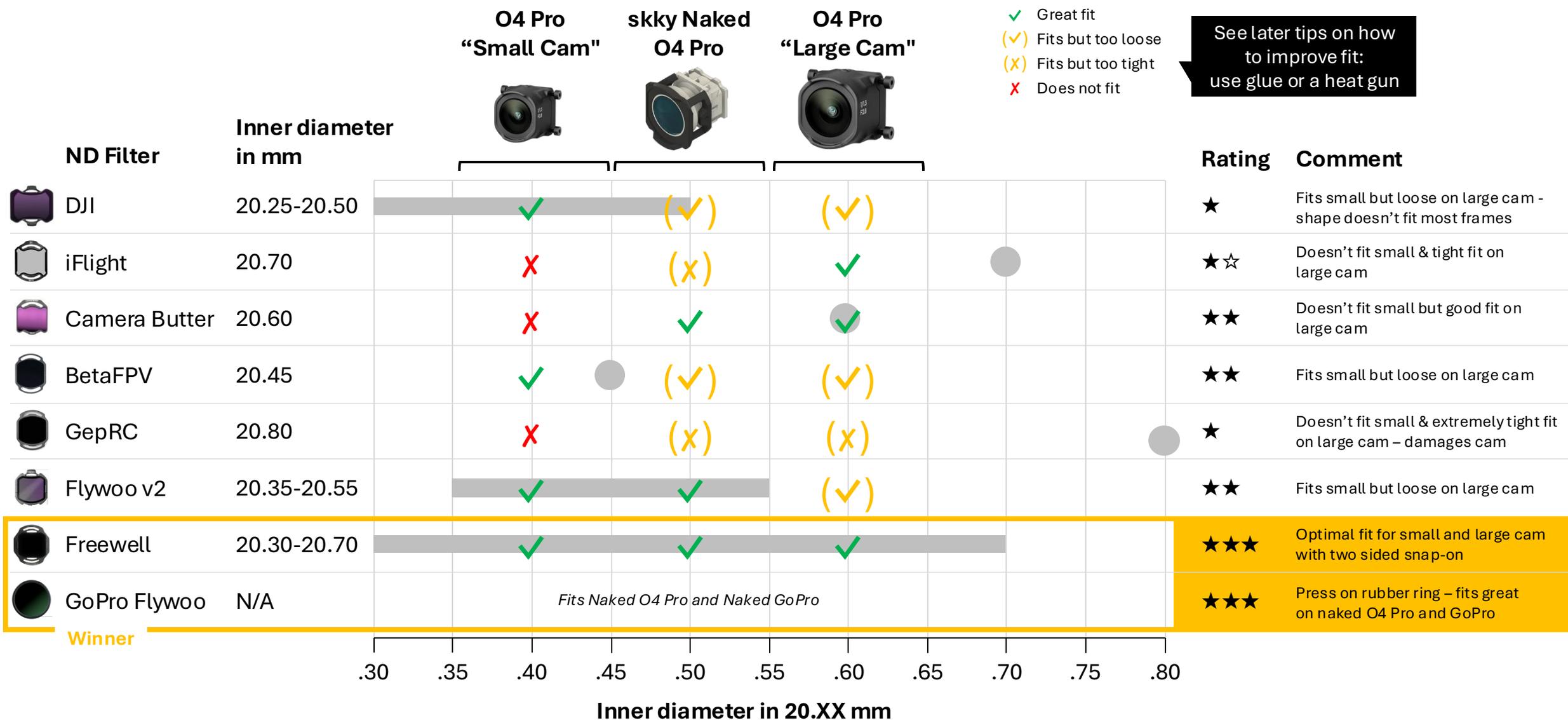
Inner diameter
20.3mm (+0.2mm)



Outer diameter
22.3mm (identical)

Best for NDs with 20.55-20.65 mm inner diameter like
Camera Butter, iFlight, Freewell

2. Fit: Freewell with best fit overall thanks to flexible mounting



2. Fit: Tips from Camera Butter & BetaFPV to improve fit

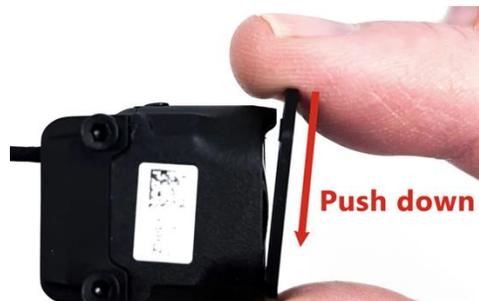
The O4 Pro mounting system for NDs has flaws

- Due to the narrow lens hood, any attached filter or protector causes vignetting in ultra-wide mode by blocking light at the edges – though this doesn't affect standard wide mode, which most people use.
- The shallow indents require filters to fit very tightly to stay secure, especially for FPV drones that crash. This tight fit makes them hard to install and remove.
- Over time, repeated use of NDs wears down the lens hood's plastic, loosening the fit and increasing the risk of filters falling out. Frequent swapping will eventually lead to a looser, less reliable mount.

So, how can we avoid filters falling out of an O4 Pro?

A) Put them on and remove them correctly

- Don't just push them straight on—this causes unnecessary wear on the camera's plastic.
- Instead, insert one side first (e.g., the bottom), press down slightly to flex the lens hood, then snap in the other side. This reduces scraping and damage.
- To remove, press down and lift from the opposite side.



B) If they start to get loose, tighten up the plastic

If after many install/uninstalls you find that filters just aren't staying in as well as you need them to, you can fix it. Grab some super glue and put a very small layer (as thin as you can... don't forget you can always add more later) of super glue on and around the indent on the inside of the lens hood at the top and bottom of the camera.

Use a small object like a pencil tip or a thin piece of metal or needle to get it on there and spread it thinly - *Do not glob out an entire drop of super glue onto the camera!*

Give the glue a few minutes to dry facing downwards and install a filter. You will find that it fits much more tightly and should last for a while. You can always re-apply if needed.



C) Make a leash

If you've tried everything and you are still losing filters or lens protectors, then you can make a leash for it, so even if it does pop off, you won't lose it - sort of like how surfers leash their boards to themselves.

Take a piece of dental floss or thin fishing line and tie it to your ND filter/lens protector. Tie the other end to your frame. The best place is to tie the other end to your front standoff if possible.

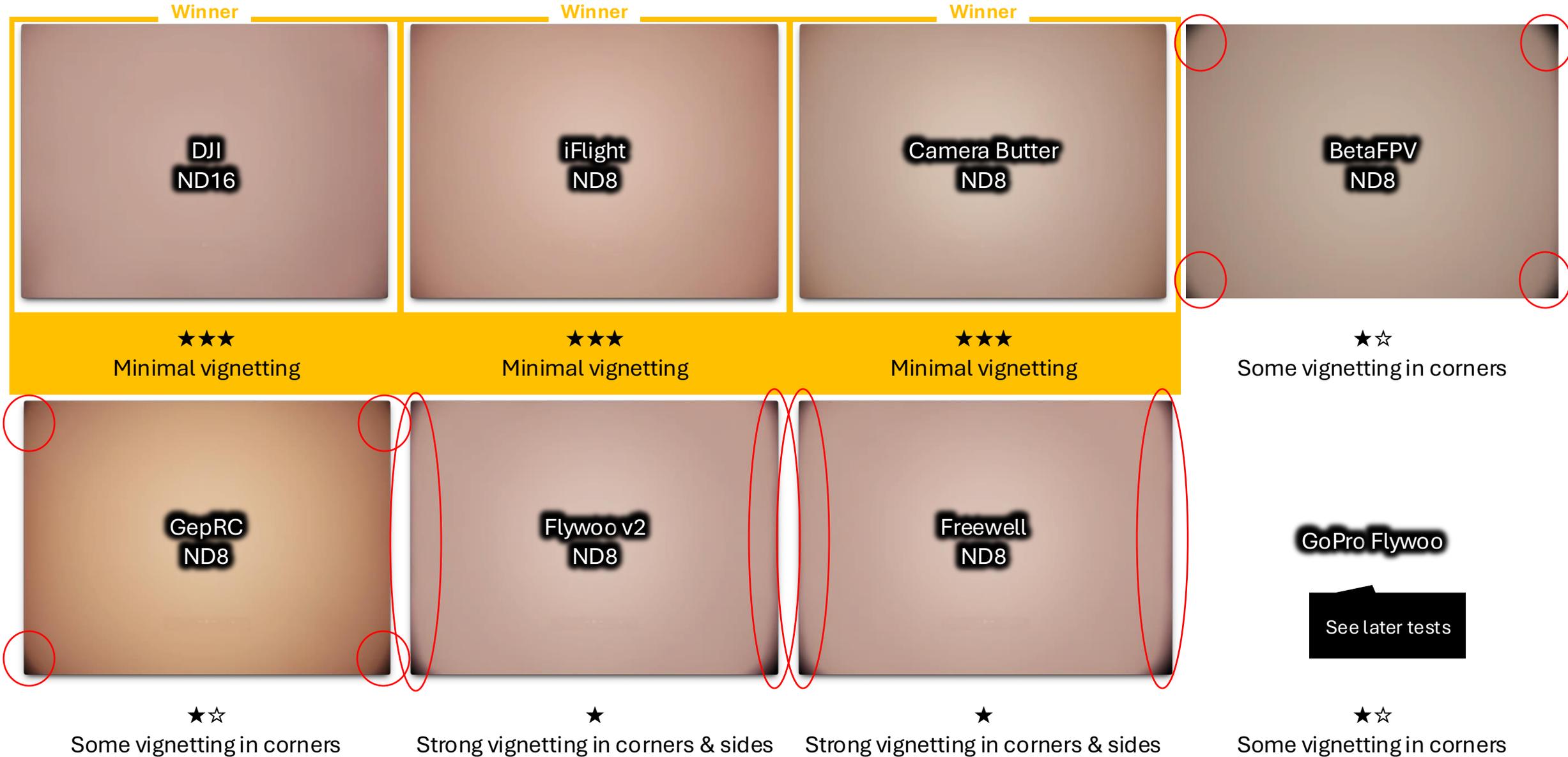
Important: Keep the line short enough and positioned so if the filter does come off, it doesn't get into your props.

D) Heat up the camera housing

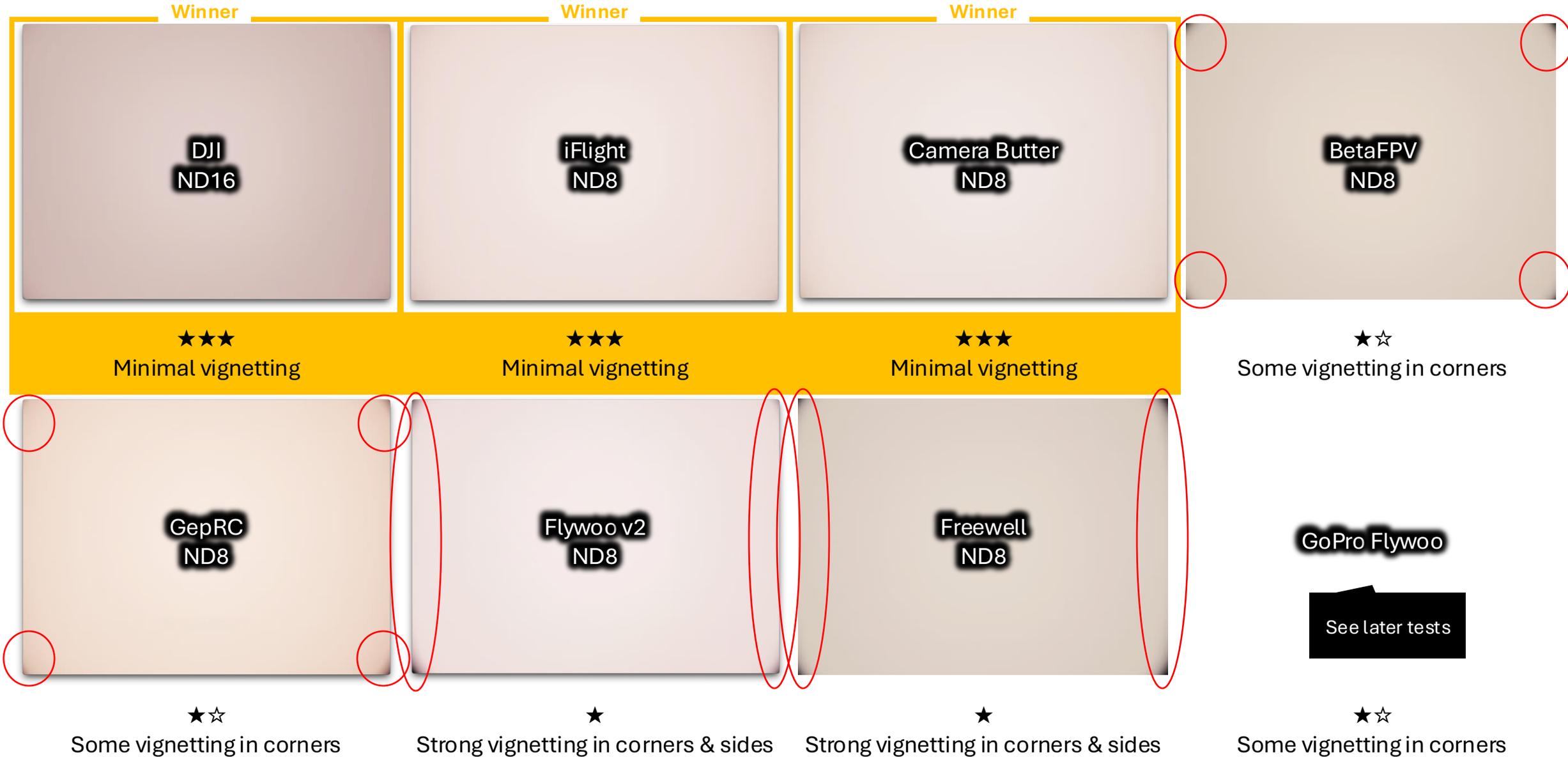
If the filter feels loose or shakes after installation, use a heat gun to warm the camera housing. Then carefully clamp the camera buckle with a tool until it cools down, restoring it to its original size for a snug fit.



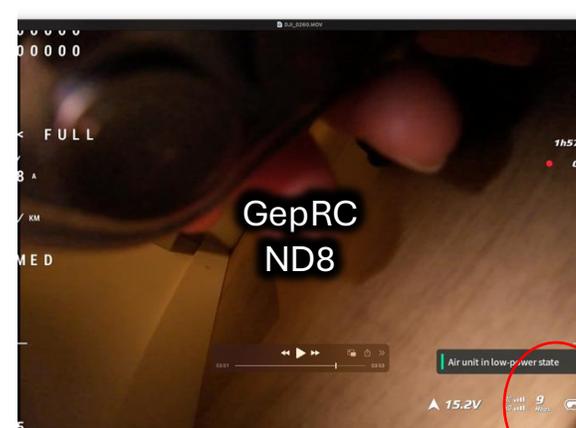
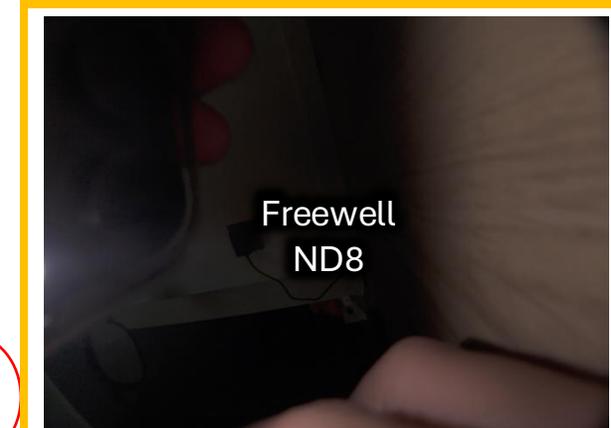
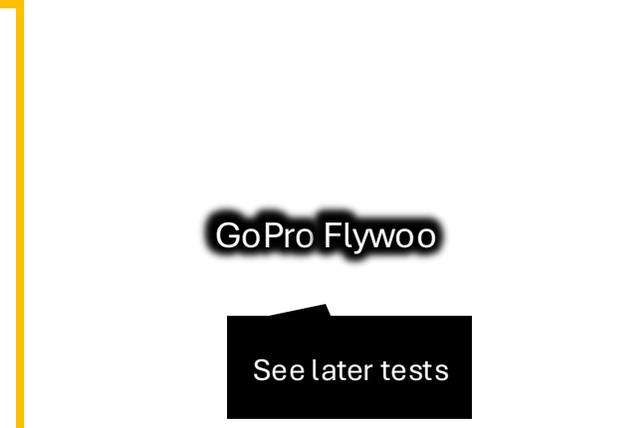
3. Vignetting in Ultra Wide: DJI, iFlight and Camera Butter perform best



3. Vignetting in Wide: DJI, iFlight and Camera Butter perform best



4. Flare on regular O4 Pro: Camera Butter & Freewell with least flare

 <p>DJI ND16</p>	 <p>iFlight ND8</p>	 <p>Winner Camera Butter ND8</p>	 <p>BetaFPV ND8</p>
★ Significant flare along the sides	★ Significant flare along the sides	★★★★ Minimal flare	★★ Some flare in the corners
 <p>GepRC ND8</p>	 <p>Flywoo v2 ND8</p>	 <p>Freewell ND8</p>	 <p>GoPro Flywoo</p>
★★ Some flare in the corners	★ Significant flare along sides	★★★★ Minimal flare	★★ Some flare in the corners

Tested on Standard O4 Pro. Moved flash light around lens to detect flare. Ultra Wide (DVR), 4k 4:360fps, WB 5.5k, ISO100, 1/200 shutter

4. Flare on naked O4 Pro: Camera Butter & Freewell with least flare



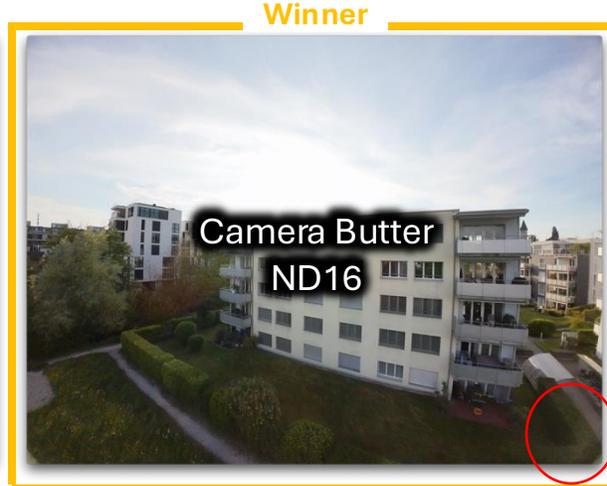
★

Significant flare along the sides



★

Some flare in the corners



★★★★

Minimal flare



★★

Some flare in the corners



★★

Some flare in the corners



★

Significant flare along sides



★★★★

Minimal flare



★★

Some flare in the corners

4. Flare on naked GoPro: Camera Butter & Freewell with least flare



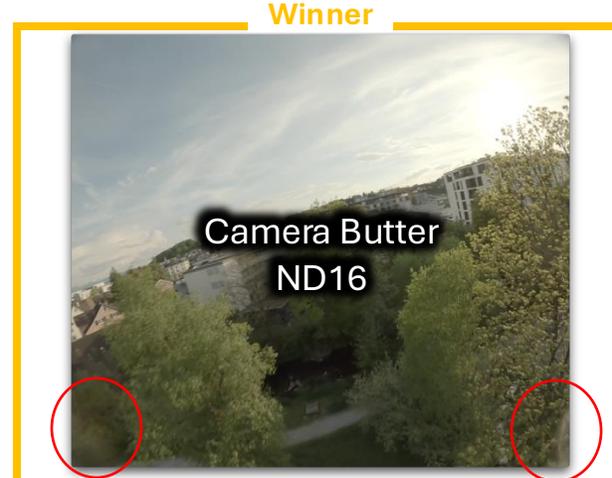
★

Significant flare along the sides



★

Some flare in the corners



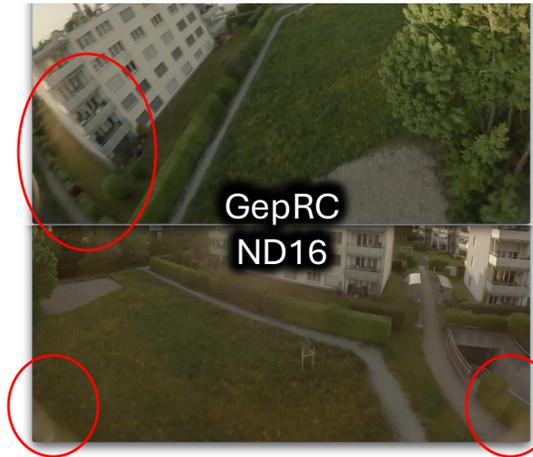
★★★★

Minimal flare



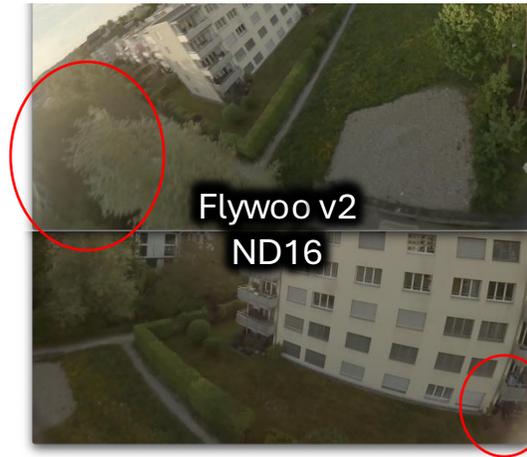
★★

Some flare in the corners



★★

Some flare in the corners



★

Significant flare along sides



★★★★

Minimal flare



★★

Some flare in the corners

5. Weight: Flywoo v2, DJI and Freewell are the lightest filters

Winner



DJI

★★★

0.66g - plastic



iFlight

★★

0.94g - aluminium



Camera Butter

★★

0.79g - aluminium

Corning Gorilla Glass



BetaFPV

★

1.07g - aluminium



GepRC

★

1.08g - aluminium

Winner



Flywoo v2

★★★

0.53g - plastic

Winner



Freewell

★★★

0.67g - plastic

Lifetime Warranty



GoPro Flywoo

★

1.33g - aluminium

6. Case usability: GoPro Flywoo offering the best case for 4 NDs



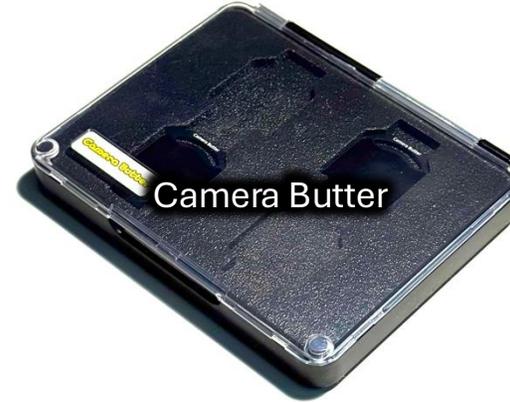
☆☆

Compact, fits 3 NDs,
not transparent



☆☆

Regular size, fits 4 NDs,
not transparent



☆☆

Regular size, fits 4 NDs,
transparent



☆☆

Regular size, fits 4 NDs,
transparent



★

Very bulky, fits 5 NDs,
transparent



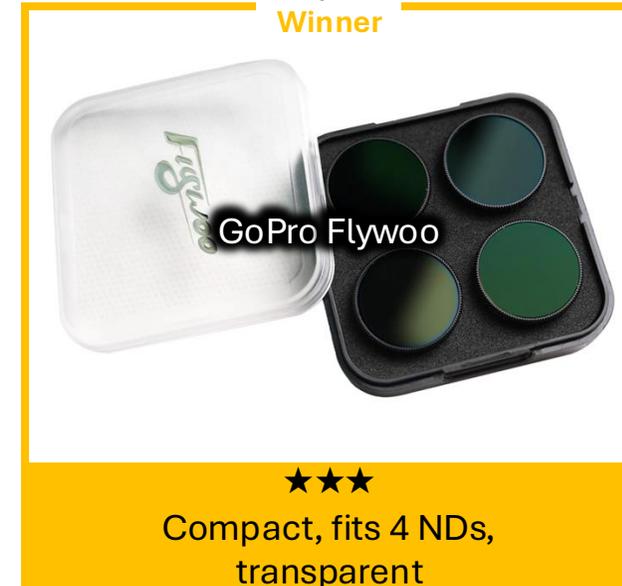
☆☆

Regular size, fits 3 NDs,
transparent



☆☆

Compact, fits 4 NDs,
not transparent



☆☆☆

Compact, fits 4 NDs,
transparent

Summary of ND Filter Test for DJI O4 Pro: Camera Butter performs best



Test	DJI	iFlight	Camera Butter	BetaFPV	GepRC	Flywoo v2	Freewell	GoPro Flywoo
1. ND Stops	★ 8/16/32	★★ UV/8/16/32	★★★ UV/4/8/16/32	★★ UV/8/16/32	★★★ UV/8/16/32/64	★ UV/4/8/16	★★ 8/16/32/64	★★★ UV/4/8/16/32
2. Fit	★ Fits small but loose on large cam - shape doesn't fit most frames	★☆ Doesn't fit small & tight fit on large cam	★★ Doesn't fit small cam but good fit on large cam ⚡	★★ Fits small but loose on large cam	★ Doesn't fit small & extremely tight fit on large cam – damages cam	★★ Fits small but loose on large cam	★★★ Optimal fit for small and large cam with two sided snap-on	★★★ Press on rubber ring – fits great on naked O4Pro and naked GoPro
3. Vignetting	★★★ Minimal vignetting (if fit horizontally)	★★★ Minimal vignetting	★★★ Minimal vignetting	★☆ Some vignetting in corners	★☆ Some vignetting in corners	★ Strong vignetting in corners & sides	★ Strong vignetting in corners & sides	★☆ Some vignetting in corners
4. Flare	★ Significant flare along the sides	★ Significant flare on regular O4 Pro but few on naked O4 Pro	★★★ Minimal flare	★★ Some flare in the corners	★★ Some flare in the corners	★ Significant flare along sides	★★★ Minimal flare	★★ Some flare in the corners
5. Weight	★★★ 0.66g - plastic	★★ 0.94g - aluminium	★★ 0.79g - aluminium	★ 1.07g - aluminium	★ 1.08g - aluminium	★★★ 0.53g - plastic	★★★ 0.67g - plastic	★ 1.33g - aluminium
6. Case usability	★☆ Compact, fits 3 NDs, not transparent	★☆ Regular size, fits 4 NDs, not transparent	★★ Regular size, fits 4 NDs, transparent	★★ Regular size, fits 4 NDs, transparent	★ Very bulky, fits 5 NDs, transparent	★☆ Regular size, fits 3 NDs, transparent	★★ Compact, fits 4 NDs, not transparent	★★★ Compact, fits 4 NDs, transparent
Noteworthy			Corning Gorilla glass				Lifetime Warranty	
Points	1.8	1.8	2.5	1.8	1.6	1.6	2.3	2.3
Price	79 USD	21 USD	45 USD	20 USD	50 USD	25 USD	50 USD	40 USD

Winner

GoPro Flywoo ND Filter only fits on a naked O4 Pro and naked GoPro

Winners: Camera Butter overall winner with Freewell and GoPro Flywoo as best alternatives

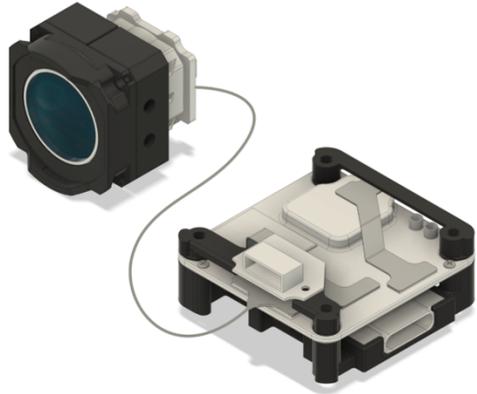


Fits perfectly on small and large O4 Pro camera but with significant vignetting

Optimal filter but doesn't fit small O4 Pro camera, which is less often sold in Europe

Great filter for naked O4 Pro and naked GoPro

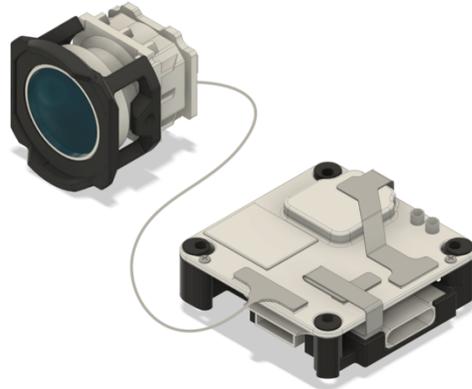
skkyFPV offers a Naked O4 Pro Kit in 3 configurations



V1 Light

26g (-9g)

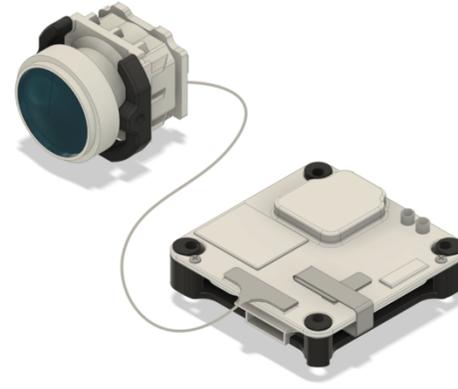
4 Screws Cam Mount,
Antenna Locker



V2 Light

24g (-11g)

Lighter and
more compact



V2 Ultra Light

17g (-18g)

Without ND,
SD and USB

Make your O4 Pro naked and save 11-18g weight with the skky Naked O4 Pro Kit

Highlights

- Save 11-18g weight
- Print at home
- Compatible with O3 frames
- Compact design
- ND Filter support

www.skkyfpv.com

skkyFPV offers a Naked GoPro Kit for the AOS 3.5 V5 (skky35)



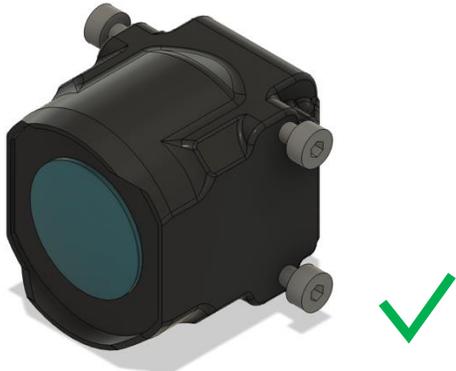
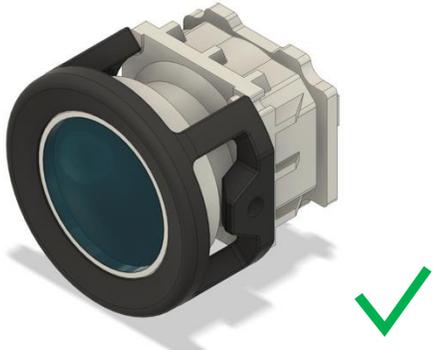
skky35 – a sub 250g FPV drone
incl. GoPro and O4 Pro

Highlights

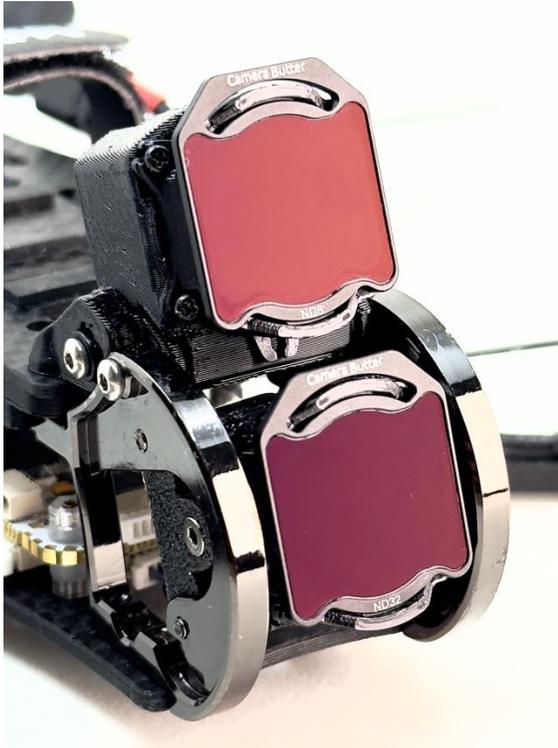
- Sub 250g freedom
- GoPro & O4 Pro integrated
- 3.5" beast
- Snap-on prop guards

www.skkyfpv.com

skkyFPV kits include ND Filter mounts for Naked O4 Pro and Naked GoPro

	Regular O4 Pro	Naked O4 Pro	Naked GoPro
ND Filter for O4 Pro	 ✓	 ✓	 ✓
ND Filter for naked GoPro	<i>Naked GoPro Filters do not fit on regular O4 Pro</i> ✗	 ✓	 ✓

ND Filter recommendations for the skky35: Butter Camera and GoPro Flywoo



Option 1: Use 2x O4 Pro NDs

- Camera Butter recommended
- Alternatively Freewell or iFlight

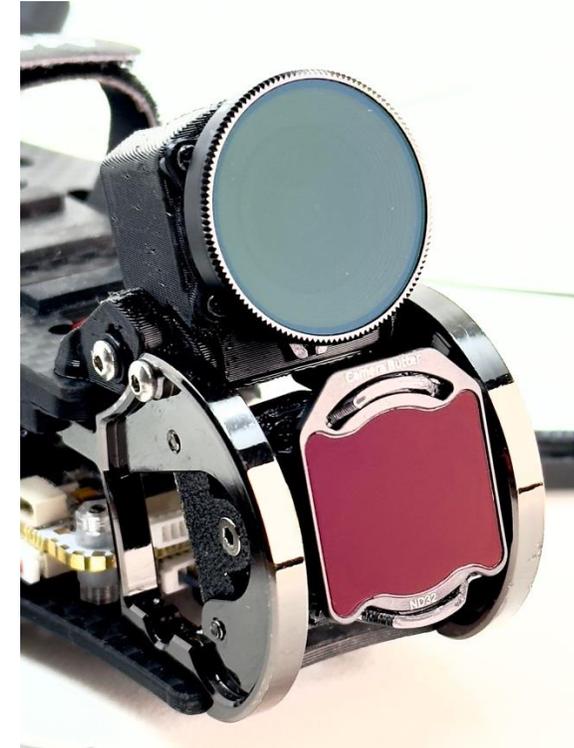
More robust with original
CNC Alu camera cage



Option 2: Use 2x GoPro NDs with the skky camera cage

- GoPro Flywoo recommended

4g lighter with skky
camera cage (3D-printed)

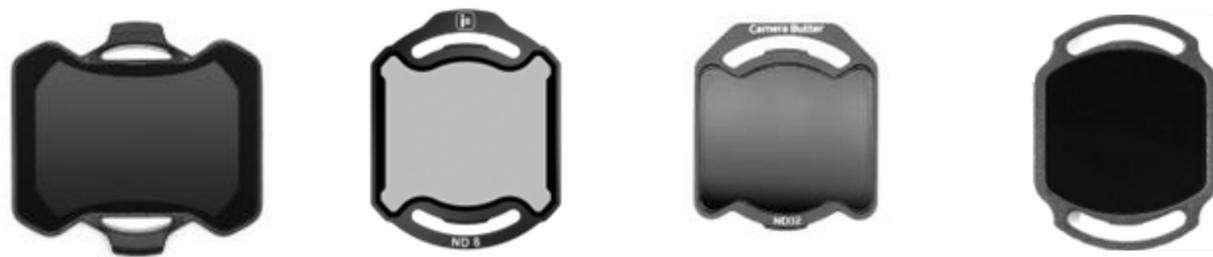


Option 3: Use GoPro ND and O4 Pro ND together

- GoPro Flywoo recommended
- Camera Butter recommended

Requires two different types of
ND filters

s k k y F P V



s k k y **F P V**

Appendix: Manufacturing Info



DJI Avata 2 ND Filter

≡ DJI STORE



DJI Avata 2 ND Filter Set (ND8/16/32)

69 €

- 📦 Free Shipping
- 🚚 Free Fast-Delivery Upgrade*
- 🏆 1% DJI Credit Reward
- 🔄 Up to 30-Day Returns

By selecting the appropriate filter, you gain more control over the aperture and shutter speed.

Take a Closer Look

Overview

The DJI Avata 2 ND Filters Set includes ND8, ND16, and ND32 filters. By selecting the appropriate filter, you gain more freedom in controlling the aperture and shutter speed, capturing stunning shots like motion blur.

In The Box

ND8 Filter × 1
 ND16 Filter × 1
 ND32 Filter × 1

Specifications

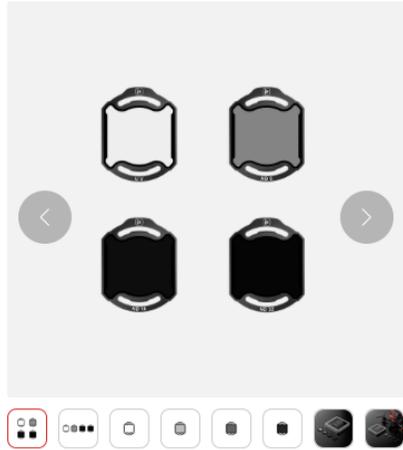
Dimensions (single filter): 26×24 mm (L×W)
 Weight (single filter): Approx. 0.7 g

Compatibility

DJI Avata 2
 DJI O4 Air Unit Pro

iFlight O4 Pro ND Filter

Home > iFlight O4 Air Unit Pro ND Filters Set



iFlight O4 Air Unit Pro ND Filters Set

AVAILABILITY: ✔ In Stock

\$20.99

*** Version**

Only UV Filter

Filter Set (UV+ND8+ND16+ND32)

Quantity

- 1 +

ADD TO CART

PayPal Buy Now



Tags:

DJI O4 **ND** **FILTERS**

OVERVIEW

REVIEWS (0)

FAQ

Description

The iFlight ND filter set, specifically designed for the DJI O4 Pro Air Unit, includes various models such as UV, ND8, ND16, and ND32. This filter set is tailored to meet the demands of different flying environments, allowing customers to fly freely and capture stunning images in a variety of lighting conditions, enhancing your aerial photography experience.

Specifications

Filter Type: UV Filter, ND8, ND16, ND32

Main material: CNC aluminum + high alumina white glass

Packing List

1 x UV Filter

1 x ND8 Filter (Optional)

1 x ND16 Filter (Optional)

1 x ND32 Filter (Optional)

Compatibility

Compatibility:

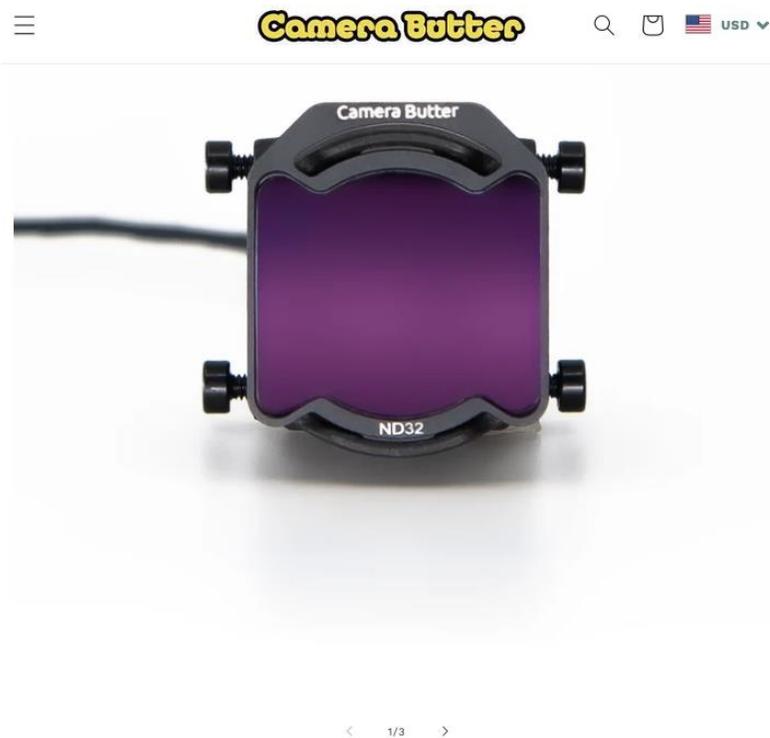
DJI O4 Pro Air Unit

Drone equipped with DJI O4 Pro Air Unit.

Not applicable to:

DJI O3 Lite Air Unit (Naked version)

Camera Butter O4 Pro ND Filter



DJI O4 Pro Air Unit ND filters and Lens protectors

★★★★★ 11 reviews | No questions

\$44.99 USD

Shipping calculated at checkout.

Option

- 4-Pack ND 4/8/16/32
- 2-Pack ND8+ND16
- 2-Pack ND32
- 2-Pack lens protector

Pro level Neutral Density (ND) filters and lens protectors for your DJO O4 Pro air unit (does not fit O4 lite)

Made for Action

Camera Butter filters are the only ones made with Corning Gorilla glass, which makes both the ND filters and lens protectors considerably stronger than other brands. Imagine having an ND filter that is stronger than most lens protectors!

Made to Fit into small frames

Our O4 Pro filters and lens protectors are 20.6mm wide - only 0.6mm wider than the O4 camera. This means that they will fit into almost every frame available. The top extends about 2mm above the top of the lens hood of the camera, or you can install the filter upside down if you don't have any space above the camera.

Optics that are out of this world

Made from pro quality glass and featuring the very best nanocoatings that repel water, fingerprints and dirt - our O4 filters and lens protectors are small, but they rival the optics of pro level, ultra expensive cinematography gear.

Made specifically for the DJI O4 Pro air unit

Unlike filters that are primarily made for the Avata 2, the Camera Butter O4 Pro filters and lens protectors are specially made for the O4 unit and the FPV use case. This means:

- They fit tighter and stay on better than other filters
- They are made to fit into a narrower space
- They are much tougher than other filters made from regular glass

Get the very best out of your DJI O4 Pro and protect your camera better than any other filter available!

The full pack contains:

- ND4
- ND8
- ND16
- ND32
- Magnetic Carrying case

Also available in 2-packs of the lens protector, an ND8/ND16 2-pack, and a 2-pack of ND32.

Note: Due to the design of the DJI camera, some vignetting (dark corners) may appear in ultra wide mode using ANY filter, especially if stabilization is used.

Read this blog post about keeping your O4 filters from falling off.

BetaFPV O4 Pro ND Filter



Home Drones Electronics Accessories Blog USD ▾ 👤 🔍 🛒
Gallery Support



Elevate your Pavo20 Pro's aerial cinematography with the ND Filter for DJI O4 Pro Camera—crafted to perfect every frame. The ND8, ND16, and ND32 options ensure perfect exposure and natural motion blur every time. Meanwhile, the UV filter protects your lens from scratches, dust, and UV haze, ensuring crystal-clear images in every environment. For creators who demand versatility, the Filter Set (ND8/16/32 + UV) unlocks flawless adaptation to all lighting scenarios. Lightweight, durable, and easy to install, these filters are the ultimate companions for freestyle pilots and cinematic creators alike. With the Pavo20 Pro and its new filter lineup, every flight becomes a visual masterpiece!



Bullet Points

- Specifically designed for the DJI O4 Air Unit Pro Camera Module and Pavo20 Pro.
- ND8, ND16, and ND32 options to reduce glare, prevent overexposure, and achieve perfect exposure in bright conditions.
- UV filter protects your DJI O4 Pro Camera lens from scratches, dust, and UV haze, ensuring crystal-clear image quality.
- ND8/16/32 + UV filter set for versatile adaptation to all lighting scenarios.
- Easy to attach and remove, designed for hassle-free use during flights.

Specifications

- Item: Filter Set / UV Filter / ND8 Filter / ND16 Filter / ND32 Filter
- Weight: 1.0g
- Compatible Camera: DJI O4 Air Unit Pro Camera



Perfect Exposure, Every Frame

- ND 8/16/32 filters: Give you complete control over light, reducing glare and overexposure to deliver smooth, cinematic footage in bright environments. Perfect for achieving natural motion blur and balanced exposure.
- UV filter: Effectively minimize the blue tone caused by ultraviolet rays, delivering clearer, more vibrant, and true-to-life images. They also protect your camera lens from dirt, sand, and scratches, keeping your shots pristine and your gear protected.



How To Install and Remove?

To install the filter: Align it with the lens position and clip it into the frame vertically until it securely locks in place.

To remove the filter: Grip the lens mount with your thumb and gently pull it out.

Pro Tip: If the filter feels loose or shakes after installation, use a heat gun to warm the camera housing. Then carefully clamp the camera buckle with a tool until it cools down, restoring it to its original size for a snug fit.

Package

- 1 * Filter Set



GepRC O4 Pro ND Filter



Summary

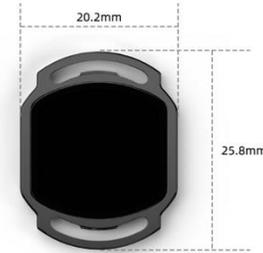
With the launch of the DJI O4 Air Unit Pro, we've introduced filters designed specifically for its lens. These filters help manage bright light and offer creative options for motion and long-exposure shots, choose from a range of filters to elevate your shots.

Feature

1. Aluminum alloy frame, tough against dirt and scratches.
2. Multi-layer protection: scratch, dust, oil, and corrosion resistant.
3. The ultra-clear lens with minimal color distortion for true-to-life colors.
4. Multi-coating to cut down on reflections.
5. Six models to choose from, perfect for any lighting condition.

Specification

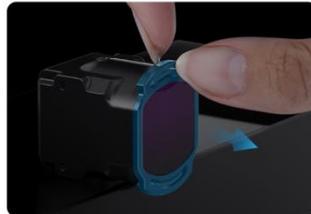
- Model: GEPRC O4 Air Unit filter
- Filter Type: UV filter / ND filter
- Compatible Camera: DJI O4 Air Unit Pro
- Model: ND8 / ND16 / ND32 / ND64 / UV
- Frame Material: 7075-T6 aviation aluminum alloy
- Weight: 1.1g



Disassembly And Installation Filter Demo



Align and snap the lens into place on the mount



Simply push with your thumb to release the lens from the mount



HOME / CAMERA & ND FILTERS / ND FILTERS

GEPRC DJI O4 Air Unit Pro Filter



\$11.99 - \$49.99

OPTIONS

(UV/ND8/16/32/64)

CLEAR

\$49.99

UV / ND8 / ND16 / ND32 / ND64

Ultra-Clear Optical Glass with Multi-Coating

Reduces glare, sharp images, cinematic footage

Multiple options

Aluminum frame

Oil & dirt resistant

Scratch-proof

HD clarity

Lightweight

7075-T6 Aerospace Aluminum Frame

The aluminum alloy frame is sturdy, lightweight and snaps on securely during flight

Multiple Models and Sizes Available

Handles diverse lighting scenarios with ease

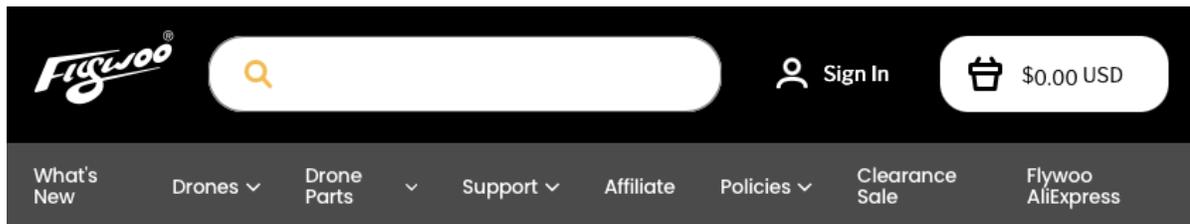
ND Filter

Cuts light to prevent overexposure delivering clear shots in bright conditions

UV Filter

Blocks UV light, reduces haze, and protects the lens

Flywoo O4 Pro ND Filter v2



Home / Flywoo DJI O4 Pro UV ND Filters V2

FW19004230

7-Day No Reason Return

Flywoo DJI O4 Pro UV ND Filters V2

★★★★★ 1 reviews

10% OFF **\$22.49 USD** ~~\$24.99 USD~~

(tax included)

FLASH SALE

3 : 00 : 55 : 48.4

Every order will get a Flywoo Gift >

Product Description

Ultra-lightweight and redesigned for universal FPV compatibility, the V2 filter kit features **AGC optical glass** for exceptional scratch, smudge, and oil resistance, delivering pristine image clarity. With a **snap-on precision design**, these filters install securely without slippage, even during high-speed maneuvers.

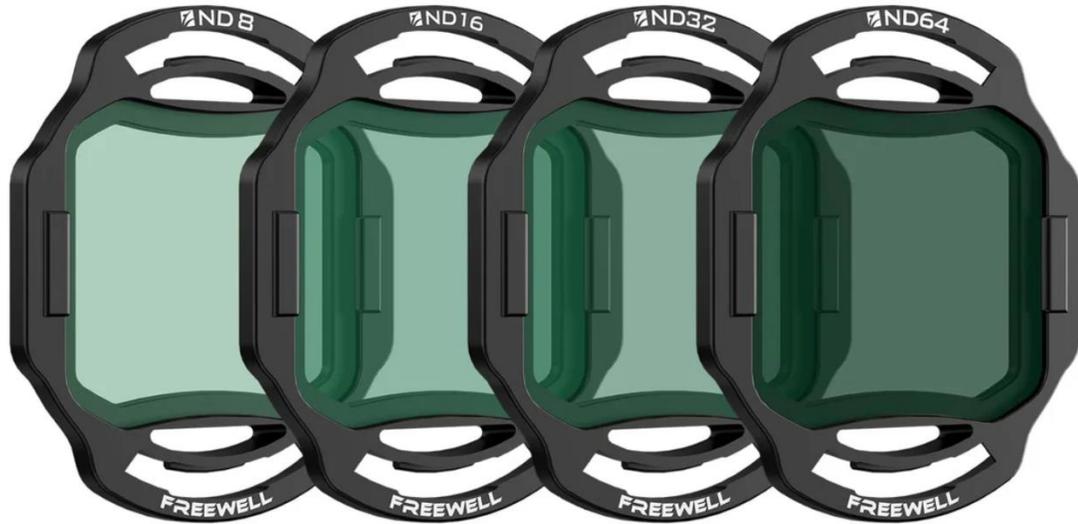
Key Enhancements in V2:

- **55% lighter** – Weighing just **0.5g**
- **Compact profile** – Streamlined dimensions ensure seamless integration with **all FPV drone models**, including micro and cinewhoop builds.
- **Optimized airflow** – Slimmer construction reduces drag, ideal for agile racing and cinematic flights.

Highlights:

1. Oil-resistant
2. Smudge-resistant
3. Scratch-resistant
4. AGC optical glass
5. High-definition imaging
6. True color restoration

Freewell O4 Pro ND Filter



DJI O4 Air Unit Pro Filters Standard Day 4 Pack

\$49.99 USD

SKU: FW-O4-STD

Freewell ND Filter 4-Pack for DJI O4 Air Unit Pro includes ND8, ND16, ND32, and ND64 to reduce overexposure, offering cinematic footage with true color optics.

Features

- **Optimized for DJI O4 Air Unit Pro:** Designed specifically for the DJI O4 Air Unit Pro, ensuring a perfect fit and seamless compatibility for aerial videography.
- **4-Pack for Standard Daylight Shooting:** Includes ND8, ND16, ND32, and ND64 filters to control light exposure in bright conditions, reducing overexposure for cinematic-quality footage.
- **True Color & High-Definition Optics:** Crafted with premium optical glass to maintain true-to-life colors and sharp image quality without color shifts.
- **Ultra-Lightweight & Gimbal Safe:** Engineered for minimal weight, ensuring smooth operation without affecting the gimbal's balance or flight performance.
- **Durable & Easy to Use:** Features a precision-fit design with a robust coating to resist dust, scratches, and oil, making it ideal for outdoor shooting.

In The Box?



ND8



ND16



ND32



ND64



Travel Filter Protector

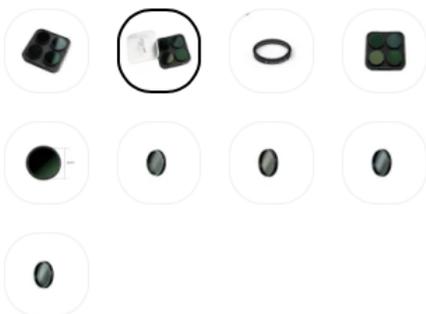
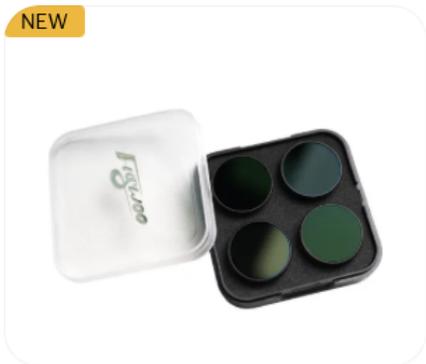


Cleaning Cloth

Lifetime Warranty

Shop with confidence, knowing our products are built to last and are fully backed against any manufacturing defects.

Flywoo naked GoPro ND Filter



Home / Flywoo Action Camera ND Filter Set For Flywoo GP9 \ GP10 \ GP11 \ GP12 \ SMO \ Naked Gopro 6 \ 7

FW19002972

7-Day No Reason Return

Flywoo Action Camera ND Filter Set For Flywoo GP9 \ GP10 \ GP11 \ GP12 \ SMO \ Naked Gopro 6 \ 7

★★★★★ 34 reviews

10% OFF **\$35.99 USD** ~~\$39.99 USD~~

(tax included)

FLASH SALE 3 : 00 : 52 : 09.8

Every order will get a Flywoo Gift >

Product Description

To get better footage and prevent the issue of jello generated in the insane flight, FLYWOO specially designs the ND filter Set for Flywoo GP Camera \ It also acts as a lens protector that can protect your lens while your drone meets a serious crash. Meanwhile, We also release the UV filter. It can protect the lens while you fly indoors or at dusk, providing pilots more clear footage.

Spec:

- Item: Flywoo UV Filter / Flywoo ND Filter Set
- Weight: 1.2g
- Adapt Camera : Flywoo GP camera , SMO , Naked Gopro 6/7

Package:

- 1 * Flywoo ND Filter Set (ND4 \ ND8 \ ND16 \ ND32) or 1 * Flywoo UV Filter

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