# ND Filters for Thumb Pro

RunCam – ND8, ND16, ND32 filter set
User Manual




**Read this manual before use and keep it for future reference.**

*Rotorama, s.r.o. · www.rotorama.com*

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# 1. Product description

## 1.1 Intended use

The set contains three neutral density (ND) filters **ND8, ND16 and ND32** for the RunCam Thumb Pro action camera. The filter is fitted directly onto the camera lens and evenly reduces the light entering the camera without changing the colours of the image.

When flying on a bright day, the camera therefore does not have to use an extremely short exposure time. Footage from an FPV drone looks smoother, with natural motion blur, and the image tends to be less overexposed. The filter frame also protects the lens glass against scratches and dirt.




*Fitting the filter frame onto the Thumb Pro camera lens (manufacturer's illustration)*

## 1.2 Specifications and package contents

| | |
|---|---|
| Manufacturer | RunCam (www.runcam.com) |
| Product designation | ND Filter Set for RunCam Thumb Pro W<br>manufacturer code THPW-ND-SET |
| Compatible camera | RunCam Thumb Pro W – according to the manufacturer |
| Filter types | ND8, ND16, ND32 |
| Mounting | snap-on frame |
| Package contents | 1× ND8 filter<br>1× ND16 filter<br>1× ND32 filter |
| Not included | camera, camera mount |

**❉ Thumb Pro cameras exist in several versions with differently shaped lens frames. Check that the filter fits your camera exactly.**

# 2. Use

## 2.1 Choosing a filter

The number after ND shows how many times the filter reduces the light passing through. The brighter the light, the higher the filter number.

| Filter | Light transmission | Reduction |
|---|---|---|
| ND8 | 1/8 (12.5 %) | 8× – by 3 exposure stops |
| ND16 | 1/16 (6.25 %) | 16× – by 4 exposure stops |
| ND32 | 1/32 (3.125 %) | 32× – by 5 exposure stops |

- Under an overcast sky or in the early evening, start with the **ND8** filter; on a bright sunny day, use **ND16** or **ND32**.
- If the footage is too dark or noisy with the filter, choose a weaker filter or remove the filter.
- In shaded areas (forest, buildings), prefer a weaker filter – a strong one darkens the image unnecessarily.

## 2.2 Fitting and removing the filter

① Switch off the camera and disconnect it from power. Clean the lens glass and the inner side of the filter.

② Turn the filter so that the tabs on the frame line up with the slots around the camera lens.

③ Press the frame evenly onto the lens until it clicks into place. Do not press directly on the filter glass with your fingers.

④ Check that the filter sits flush around its entire circumference and does not move.

⑤ To remove the filter, carefully lever the frame off by its edge – with a fingernail or a plastic tool, never a metal one.

## 2.3 Recording tips

- An ND filter works best when it lets the camera use a longer exposure time. Keep automatic exposure, or set it manually as described in the camera manual.
- Before the flight, record a short test clip and check the image brightness.

## 2.4 Care and storage

- Blow off dust and sand first, then wipe the filter with a microfibre lens cloth. Do not use solvents.
- Store unused filters dry, in their packaging, out of the reach of small children. Do not use a scratched or cracked filter.

# 3. Information for the EU and Czech Market

## 3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

| | |
|---|---|
| Importer / responsible person in the EU | Rotorama, s.r.o. |
| Company ID (IČO) | 051 57 692 |
| VAT ID (DIČ) | CZ05157692 |
| Registered office | Okrajová 1351, 674 01 Třebíč, Czech Republic |
| E-mail | info@rotorama.cz |
| Phone | +420 252 252 098 |
| Website | www.rotorama.com |

## 3.2 Disposal

- The product is not electrical equipment and contains no batteries; take-back of electrical equipment does not apply to it.
- Dispose of unwanted filters with mixed municipal waste unless local regulations specify otherwise.
- Sort the product packaging by material into the appropriate recycling containers.

# 4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.