Avatar Nano – Lens

Replacement lens for the Walksnail Avatar HD Nano camera

User Manual



Read this manual before replacing the lens.

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Contents

1. Product Description

1.1 Intended Use

1.2 Specifications and Package Contents

2. Use

2.1 Before You Start

2.2 Replacing the Lens

2.3 Focusing

2.4 Lens Care

3. Information for the EU and Czech Market

3.1 Importer and Responsible Person in the EU

3.2 Disposal

4. Warranty and Rights in Case of Defects

1. Product Description

1.1 Intended Use

This replacement lens is intended for the **Walksnail Avatar HD Nano** digital FPV camera. Use it when the original lens is scratched, cracked or otherwise damaged after a crash, or when dirt has got into it that cannot be removed. Replacing the lens restores a sharp, clear image without having to buy a whole new camera.

The lens screws into the camera body and is secured with a knurled lock ring. After replacement, it must be focused using the image in your FPV goggles. According to the manufacturer, the same lens is also used on the camera of the Avatar HD Nano Kit V3 and on the camera of the Avatar HD Mini 1s and Mini 1s Lite kits.



Walksnail Avatar Nano replacement lens with lock ring

1.2 Specifications and Package Contents

Product	Replacement lens for the Walksnail Avatar HD Nano camera
Manufacturer	Walksnail (Caddx), www.caddxfpv.com
Manufacturer part number	WNPJ-00004
Compatible cameras	Walksnail Avatar HD Nano, Avatar HD Nano V3, camera of the Avatar HD Mini 1s and Mini 1s Lite kits
Focal length	2.1 mm ※
Aperture	F2.0 ※
Field of view (FOV)	160° ※
Package contents	1× lens
Not included	camera, tools, adhesive

※ Manufacturer's figure for the Avatar HD Nano V3 camera, whose lens is identical to this product.

2. Use

2.1 Before You Start

- Before replacing the lens, **disconnect the battery** of the drone or the power supply of the camera and video transmitter (VTX).
- Work in a clean, dust-free environment. Once the lens is unscrewed, the camera sensor is exposed – any speck of dust or fingerprint on it will show up as a spot in the image.
- Do not touch the sensor with your fingers or tools. Hold the open camera with the sensor facing down or cover it with the new lens immediately.
- Do not touch the optical surface of the new lens; hold the lens only by its body or lock ring.
- Do not use pliers directly on the lens body – you may deform or scratch it.

2.2 Replacing the Lens

① Loosen the knurled lock ring at the camera by turning it anticlockwise (viewed from the front of the camera).

② Unscrew the original lens anticlockwise. If it is secured with adhesive, loosen it carefully and gently; hold the camera body so that the cable and camera board are not stressed.

③ Check the sensor for dirt. Remove any dust by blowing only (e.g. with a lens blower), never by wiping.

④ Screw the lock ring onto the new lens (if it is not already fitted) and screw the lens into the camera clockwise. Turn it gently, without force – the thread is fine.

⑤ Do not tighten the lens firmly yet; continue with focusing as described in Chapter 2.3.

※ Do not force the lens all the way in – you could damage the sensor or the thread in the camera body.

2.3 Focusing

① Connect power, switch on the FPV goggles and check that the camera image is displayed.

② Point the camera at a more distant object with fine detail (e.g. text or a building facade) in good lighting.

③ Turn the lens in small steps in both directions and watch for the point at which the image is sharpest.

④ When the image is at its sharpest, hold the lens in place and tighten the lock ring against it. Tighten gently.

⑤ Check the focus again; tightening the ring may turn the lens slightly.

2.4 Lens Care

- Clean the front surface of the lens with a dry microfibre cloth or lens tissue, without solvents.
- During transport and storage, keep the spare lens in a bag or box to protect it from dust and scratches.
- If a spot appears in the image after replacement, the dirt is probably on the sensor or on the rear of the lens – unscrew the lens, blow the dirt away and refocus the lens.

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 lens itself is not electrical equipment. At the end of its life, dispose of it in accordance with your local waste rules.
- Do not dispose of the camera from which you remove the lens, or any other electrical equipment, with unsorted municipal waste – take it to an electrical equipment collection point (municipal collection site, collection point of the ASEKOL collective scheme).
- Sort the packaging according to its material.

4. Warranty and Rights in Case of Defects

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.