Avatar Nano Camera

Walksnail Avatar HD Nano Camera
with 9 cm coaxial cable



Read this manual carefully before installation and use, and keep it for future reference.

www.rotorama.com

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1. Product description

1.1 Purpose

The Walksnail Avatar Nano camera is a replacement or additional camera for the **Walksnail Avatar** digital transmission system. It captures the image that the Walksnail Avatar video transmitter (VTX) sends to the pilot's goggles. Thanks to its Nano size (14 mm) and weight of 3.5 g, it is particularly suitable for small and lightweight drones.

The camera connects to the video transmitter with a 9 cm coaxial cable, which is included in the package. The Starlight-type sensor with a minimum illumination of 0.001 lux and the F2.0 lens are designed for flying in poorer lighting conditions as well. The camera body is made of aluminium.



Illustrative photo

1.2 Specifications and package contents

Parameter	Value
Model	Avatar nano camera
Product code	WN04-0009S (Avatar Nano Camera, with 9 cm cable)
Image sensor	1/2.7", Starlight type
Resolution and frame rate	1080p / 60 fps, 720p / 120 fps, 720p / 60 fps
Aspect ratio	16:9, 4:3
Lens	2.1 mm
Field of view (FOV)	170°
Aperture	F2.0
Shutter	rolling shutter
Minimum illumination	0.001 lux
Weight	3.5 g
Dimensions	14 × 14 × 17 mm
Coaxial cable	90 mm

▶ **Package contents**

- 1× Walksnail Avatar Nano camera
- 1× 9 cm coaxial cable

❊ The package does not include a video transmitter (VTX), goggles, power supply or camera mount.

Manufacturer: CaddxFPV (Walksnail brand), 13F Minrray building, Ganli industrial Park, Bulan Road, Longgang district, Shenzhen, Guangdong, China; e-mail support@caddxfpv.com, web www.caddxfpv.com.

2. Use

2.1 Compatibility

The camera is intended exclusively for the Walksnail Avatar digital system. It cannot be used with analogue video transmitters or with digital systems from other manufacturers. Check whether a specific Walksnail Avatar video transmitter supports the Nano camera with a coaxial cable in the documentation for that transmitter on the manufacturer's website www.caddxfpv.com. The available video modes depend on the video transmitter and goggles used.

2.2 Mounting in the frame

① Make sure that the camera mount in your frame is designed for Nano-size cameras (14 mm wide).

② Insert the camera into the mount and secure it with screws through the side holes in the camera body. Tighten the screws gently – a screw that is too long or overtightened may damage the body or electronics of the camera.

③ Set the desired camera tilt and check that no propellers or frame parts are visible in the image.

④ The camera must be held firmly in the mount – vibrations are transferred to the image.

2.3 Connecting to the video transmitter

① Always **disconnect power** from the drone (battery and USB) before connecting or disconnecting the camera.

② Insert the coaxial cable connectors straight and without force into the connector on the camera and into the camera connector on the video transmitter. Do not lever the connectors or pull them out by the cable.

③ Route the cable without sharp bends or kinks, out of reach of the propellers and so that it is not pinched between frame parts. If necessary, secure it with a cable tie or adhesive tape – not too tightly.

④ Connect power and check the image in the goggles.

2.4 Image settings and firmware

The camera has no controls of its own. The video mode (resolution, frame rate, aspect ratio) and other options are set in the menu of the Walksnail Avatar goggles. Update the system firmware according to the manufacturer's instructions at www.caddxfpv.com (*Download Center* section).

2.5 Care and safety

- Clean the lens only with a dry, soft lens cloth. Do not use solvents.
- Protect the camera from water, moisture, dust, sand and impacts.
- The video transmitter heats up during operation. Do not lay the camera cable directly on its heat sink, and ensure adequate cooling according to the instructions for the transmitter.
- Do not tamper with or disassemble the camera. The product is not intended for children – it contains small parts.

2.6 Troubleshooting

Problem	Cause and solution
No image in the goggles	Check that the coaxial cable connectors are fully inserted and the cable is not damaged. Make sure the video transmitter is powered and paired with the goggles.
Image is blurred or hazy	Clean the lens. Check that the lens is not scratched.
Image is shaking	The camera is not held firmly in the mount – tighten the mounting.
Image drops out occasionally	Check the cable at bends and near the propellers; replace a damaged cable.

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 of electrical equipment



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

4. Warranty and rights arising from defective performance

4.1 Rights of the buyer under Czech law

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.