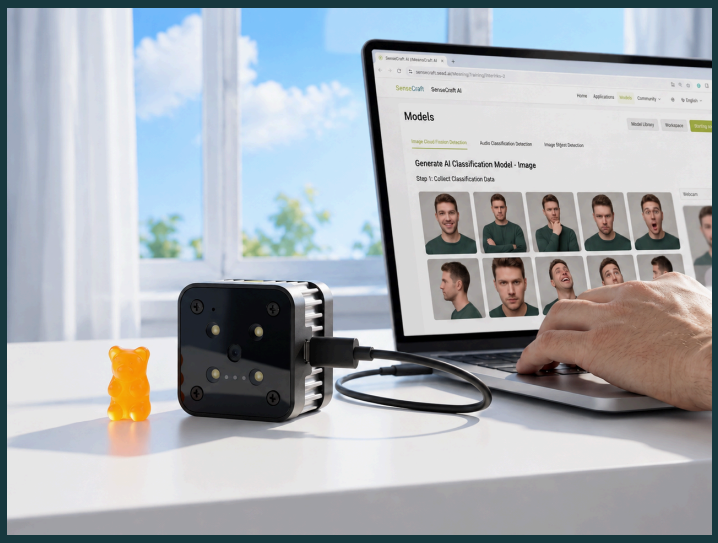
seeed studio

INDUSTRIAL PRODUCT DATASHEET

reCamera 2002 64GB - Open Source AI Camera

reCamera is a fully open-sourced, modular AI camera.

SKU	UPDATED	PRICE
102991895	2026-11-11 09:39:34	$99.90(Excl. VAT)



Overview



reCamera is a fully open-sourced, modular AI camera. Featuring 1 TOPS @INT8, built-in YOLOv11 & Node-RED, Linux-based, supports custom AI models, and a 5MP camera, it's a smart eye for any system. reCamera is the go-to AI camera for YOLO at the edge.

Key Features

01 **Object Detection**

02 **Object Classification**

03 **Pose Estimation**

04 **Instance Segmentation**

05 **Camera input**

06 **AI model inference**

07 **Result processing**

08 **Device control**

09 **Data communication**

10 **Feature 3**

Modular Design

11 **Choose the imaging configuration that fits your application.**

12 **OV5647 standard configuration**

Product Gallery













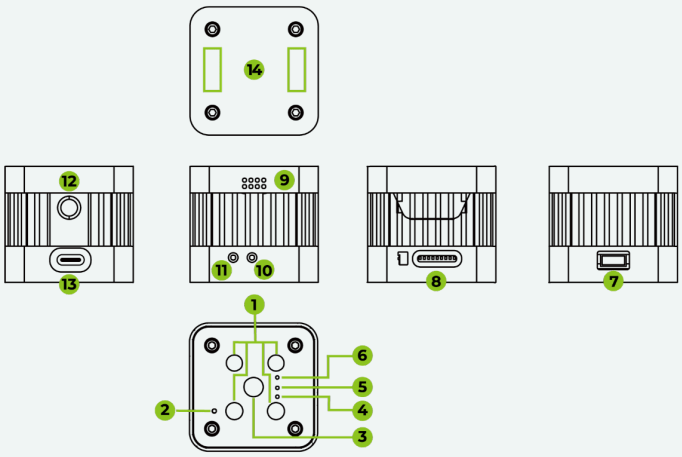

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reCamera 200x






36.5 mm
40 mm
40 mm

Hardware Overview



1. White LEDs
2. Mic
3. Camera
4. User(R)
5. Power(G)
6. Disk(B)
7. Ethernet
8. TF Card Slot
9. Speaker
10. User
11. Reboot
12. J/4" Screw Hole
13. USB Type-C
14. Magnet built-in

Applications

- **Integration of Real-time Heatmap with Grafana Data Dashboard:** The project conducts target detection using the YOLO11n model built into reCamera. It performs fuzzy processing on personnel targets and displays a heat map effect. All of this is handled locally within reCamera! And reCamera will send the detected data to the locally running Influxdb database. Then, Grafana reads the data from the Influxdb database to display real-time data dashboards.
- **AI Remote Wireless Monitoring System Based on reCamera and Wifi Halow:** An AI-based remote wireless monitoring system using Wi-Fi HaLow. It combines edge AI vision with long-range, low-power wireless communication to enable real-time detection, data transmission, and monitoring in remote or infrastructure-limited environments such as farms, factories, and outdoor sites.
- **Video link: https://www.linkedin.com/posts/seeedstudio_howtobuildanaicamera-outdoor-wifi-activity-7401880305940553729-R57w?utm_source=share&utm_medium=member_desktop&rcm=ACoAAGCDEqUBKdDsqK6EqGXClNocxAAtw3IA_T0**
- **Tutorial: AI Remote Wireless Monitor System with Wifi HaLow | Seeed Studio Wiki**
- **AI Parking Management with reCamera:** This project uses Seeed's reCamera to detect parking slot occupancy in real-time. It features multi-frame stabilization to avoid flickering and displays results (free/occupied counts) directly on the video stream. The entire workflow runs automatically on the device via a pre-configured Node-RED setup.
- **Tutorial: AI Parking Slot Monitoring Demo with reCamera | Seeed Studio Wiki**
- **Play Subway Surfers with reCamera HQ PoE:** Using its built-in pose detection model, reCamera can recognize your hand and body movements in real time and convert them into game actions, no controllers, no wearables, just pure gesture play. Wave your hand to jump, raise your arm to attack, or lean left and right to dodge obstacles.
- **Video link: https://www.linkedin.com/posts/seeedstudio_howtobuildanaicamera-recamera-yolo11n-activity-7399730949401526272-UdZ4?utm_source=share&utm_medium=member_desktop&rcm=ACoAAGCDEqUBKdDsqK6EqGXClNocxAAtw3IA_T0**
- **Tutorial: Play Subway Surfers with body sensor control | Seeed Studio Wiki**

Resource Links

- https://www.seeedstudio.com/reCamera-2002-64GB-p-6252.html
- User Manual
- Data Sheet
- reCamera Github
- reCamera OS Github
- reCamera Flyer
- reCamera Flyer - CN

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