seeed studio

INDUSTRIAL PRODUCT DATASHEET

EcoEye: OpenMV H7+ Camera with Sensor Integration for Environmental Monitoring

[image] EcoEye is a camera with onboard machine vision capabilities encased in a portable and water resistance housing designed for remote deployments.

SKU	UPDATED	PRICE
101991121	2026-11-11 09:40:36	$450.00(Excl. VAT)



Overview



[image] EcoEye is a camera with onboard machine vision capabilities encased in a portable and water resistance housing designed for remote deployments. Based on the openMV H7 Plus Cam, it is easy to set up and flexible to numerous applications. The internal power management and control system enables long-term operation and allows the integration of solar panels, countless sensors, and other external devices. The camera is thoroughly field tested, and the results are published in a scientific article.This product is a co-create collaboration with Seeed Studio.

Key Features

01 High-performance Cortex-M7 MCU and 5MP image sensor

02 Sensor integration capability

03 Automatic power management with low-power mode, power switch, real-time and USB/solar charging

04 Water resistance housing designed for portability, compactness, and flexible mounting for discrete outdoor deployments

05 Easy-to-use application setup with fully integrated micro python code on the OpenMV ID

06 “I'm using the ecoNect cameras in a course project for my Bachelor program. I'm learning a lot about the practical use of AI and how it can be used for a better knowledge about the environment.”

07 “I never expected to see such a response from the research community and educators. Since the ecoNect system is ready, we had many inquiries from colleagues, students and teachers who want to use the devices.”

08 “It is amazing to use the ecoNect system to see and identify the different visitors on cocoa flowers. It is something completely impossible with currently existing methods. ”

Product Gallery



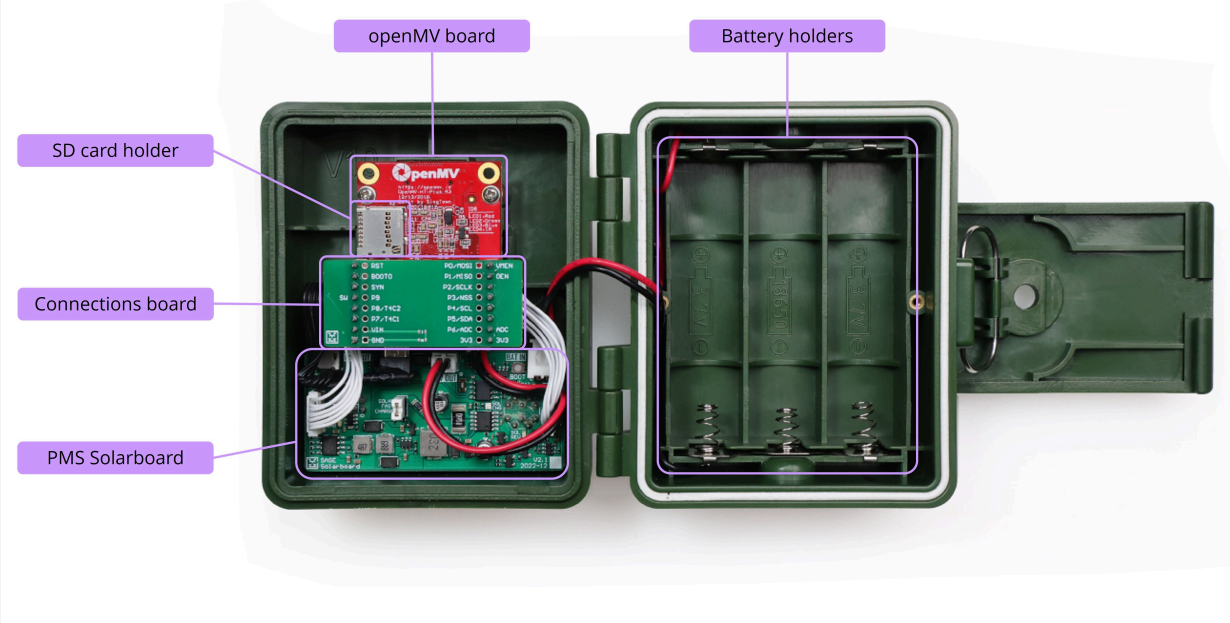








Hardware Overview





Applications

- Applications
- Ecosystem service (Pollination, Pest Control) monitoring
- Biodiversity monitoring
- Conservation management
- Phenology camera
- Environmental education
- Continuous image capture
- Motion detection
- Blob classification
- Image classification
- Objects classification
- Region-of-interest classification

Resource Links

- https://www.seeedstudio.com/EcoEye-Embedded-Vision-Camera-p-5843.html
- ecoEye Datasheet
- EcoEye User Manual
- ecoEye scripts
- OpenMV Micropython
- OpenMV Tutorials

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