



Smart Sensing Camera

AI-Powered Rodent Movement Analysis

Product Overview

The **Bastet Sensing Camera (Model SC31x)** is an advanced AIoT device engineered for active rodent monitoring and image-based movement analysis. It features a combined low-consumption ****Radar and PIR sensor system**** for highly reliable motion detection, capturing high-quality images only when triggered. The images are then transmitted over a secure network (4G/Wi-Fi) to the central platform for AI processing, providing precise identification and movement mapping, which is crucial for strategic pest management planning.

Key Features

- **Dual-Sensor Triggering:** Uses both PIR and Radar for active sensing, minimizing false triggers and ensuring accurate detection of small rodent movements.
- **High-Resolution Imaging:** Equipped with a 4K or 2MP camera lens with advanced infrared illumination, capable of capturing objects up to 10m away in dark environments.
- **Environmental Monitoring:** Includes integrated Temperature and Sound sensors to provide comprehensive environmental data alongside visual evidence.
- **Rugged Design & Power Options:** IP66-rated for outdoor use and features ultra low-power modes, solar power input, and internal cold-weather batteries for extended service life.
- **Remote AI Data Transmission:** Supports HTTP/MQTT(s) protocols for seamless transmission of captured data to AI analysis platforms via 4G or Wi-Fi.

Technical Specifications

Parameter	Specification
Product Name	Smart Sensing Camera
Model Code	SC31x (SC312/SC311)
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160 Pixels (4K) or 1920 × 1080 Pixels (2MP)
Sensor System	PIR (105° H/V) and Radar (5.725GHz – 5.875GHz)
Night Illumination Distance	Up to 10m (Infrared Supplement Light)
Data Transmission	4G LTE (Bands NA/EU/AU), HTTP/MQTT(s)
Wireless Configuration	Wi-Fi (2.4GHz, AP Mode) and Bluetooth 5.3
Ingress Protection	IP66
Enclosure Material	Charcoal Grey, ABS+PC (Flame Retardant)
Dimensions	175mm × 111mm × 63.2mm (Without Rain Cover)
Power Supply	Internal 7.2V 6500mAh Li-ion Battery, 5V/1A USB-C, Solar Input
Operating Temperature	−20°C to +60°C
Warranty	2 Years