

A Solution for the Forest Department

Prevention of Human Animal conflict



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Forrest Pole Camera

PreEmptor

Product Overview

Innovative monitoring solutions are essential for balancing forest ecosystems, promoting human-wildlife coexistence, and preserving the environment.

Designed with a commitment to carbon neutrality, Eco-friendly pole cameras, designed to blend into the natural landscape and operate sustainably with solar energy, capture real-time data and high-definition imagery.

These devices help conservationists and authorities make informed decisions, mitigate human-wildlife conflicts, and safeguard biodiversity, enhancing forest security and protecting our natural heritage

Product Solution / System

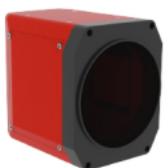
Forrest Pole Camera System



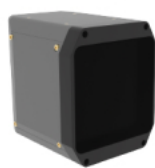
PRODUCT
Persistent View Camera



PRODUCT
360 Degree Twin Rotating
Camera



Thermal Camera



RADAR Unit



Visible AI Camera



Audio Unit

Features & Benefits

Delivering a robust & Intelligent solution

Our AI-driven system offers comprehensive coverage with resilient edge processing, multiple sensors, and a low-power network. It features software-driven configuration, robust hardware, minimal intrusion, and is easy to deploy and maintain.

Detection Range.

Detects, recognizes, and identifies threats from 10 m to 2000 m. animals, people, and vehicles 24/7 in all weather, even through thick foliage and poor visibility, using multiple sensors across various spectra.

Edge Intelligence

Operates independently without the need for constant central server connectivity, ensuring uninterrupted surveillance.

High Redundancy

Ensures uninterrupted functionality even in the event of component failures, maximizing reliability.

Innovative Design

Facilitates easy installation, maintenance, and robust performance, reducing operational hassles.

Battery Backup

Integrated battery backup ensures continuous operation during power outages, maintaining surveillance integrity.

Multi-sensor Fusion

Integrates various sensors for enhanced situational awareness, improving threat detection accuracy

360-Degree Coverage with Twin Rotating Cameras

Provides complete coverage with twin sets for redundancy, ensuring no blind spots in surveillance.

Software-Defined Camera Control

Allows precise adjustments for optimal monitoring, enhancing surveillance efficiency.

Animal-Friendly Communication

Utilizes an MHz-based communication network to minimize disruption to wildlife habitats, promoting environmental stewardship.

Dual-Purpose Camera Poles

Camera poles also serve as network towers, reducing forest disruption and simplifying infrastructure deployment.



PRODUCT

360 Degree Twin Rotating
Camera



Forrest Pole Camera

PreEmptor

Our pole cameras provide continuous, eco-friendly surveillance to protect forests and ensure harmonious human-wildlife coexistence 24/7


 135 Kg


 610mm x 7620mm x 610mm

 120W, 24V, 5A

Certifications

IP, IEC, BSI, IK, FCC, CE

 Hardware Specs	
Multi Sensor Array: Visible + NIR + mm Radar + Thermal	Dedicated cooling and ventilation systems
All in one package for harsh environment deploymen	8 x 8MP CMOS Sensor
Inbuilt compute with option for M2	DC12V Power in RJ45 Out
Internal storage (expandable)	HDR/WDR · AE/AF/AWB
Color in day / Mono at night	In-built Pulsed IR Illuminator
IP68 within IP65 works in all harsh environment	Synchronised VIS Cut Filters
Integrated 4G / 5G modem	Custom technology to prevent obstruction of lens
Firmware/Middleware integrated	Industry standard interface
IP Camera with multiple streams	FHD at 60 fps/30 fps

 Software Specs
Inference & Interpretation Pipeline · Fusion · Domain correction
Interaction & Action Operator · Device · Triggered standard · Triggered SLM Gen A
Information & Ingestion Live Streaming · Full Recording · Synopsis · Side-loading · Uploading · Mesh-loading
Insights & Improvement Dashboard · Ai led descriptors · GenAI driven search
Software C++ with libraries · Java with frameworks · Hardened Linux · AI Module for detecting specific defetcts
Updated AI Module People, vehicle, objects, animals, and scene related Ai modules
Intelligent Detection Detect and classify animals in Thermal and Visible spectrum

*Product Specifications may change without prior notice

Solution Overview

A Robust Animal Detection & Notification Solution

Our Products are driven by the best technology available in the Industry

01

Animal detection and recognition in Thermal and Visible and Visible + IR mode.

02

Alert nearby villages on presence of elephants / big cats in marked danger zones.

03

Camera differed live streams along with event and alert artefacts are made available in the Control Center for view and analysis.

04

Self healing and self diagnosing system, make it a robust solution offer

Deployment Plan

