AXIS PARTNER SOLUTION



AXIS COMMUNICATIONS

Technology Integration Partner

RoboticsCats

Igniting a Revolution

AI-Powered wildfire defense with RoboticsCats and Axis cameras

A new dawn in wildfire defense

Protecting lives and landscapes

Wildfires are no longer a seasonal threat; they are a global crisis intensifying with alarming speed. As communities expand into wildlands and climate patterns become more volatile, the need for proactive, intelligent defense mechanisms has never been more urgent.

RoboticsCats, in strategic partnership with Axis Communications, is leading this charge. We introduce our AI-powered **LookOut Wildfire Detection Software-as-a-Service (SaaS)** that transforms existing Axis IP cameras into vigilant sentinels, delivering real-time, early warnings that empower swift action and safeguard what matters most.

This innovative solution combines advanced computer vision and AI algorithms to automatically detect wildfire smoke and flame at its earliest stages. It's a cost-effective, easy-to-deploy service designed to protect lives, critical infrastructure, assets, and the environment in wildfire-prone areas, especially the Wildland-Urban Interface (WUI) where human habitation meets nature's wild frontiers.



Guardians of tomorrow

Who is RoboticsCats?

Founded in 2019, RoboticsCats is at the forefront of AI-powered wildfire detection. With over a decade of specialized experience in early fire detection technologies, we harness cutting-edge Computer Vision, AI, and IoT to deliver robust solutions for the global market. We launched LookOut, the world's first AI-powered wildfire detection software-as-a-service, in early 2021. Since then our AI wildfire detection technology has been serving customers in eleven countries spread across Asia, Australia, South America, North American and Europe. This deep heritage in the field ensures that our solutions are not just innovative, but also reliable and proven under diverse conditions.

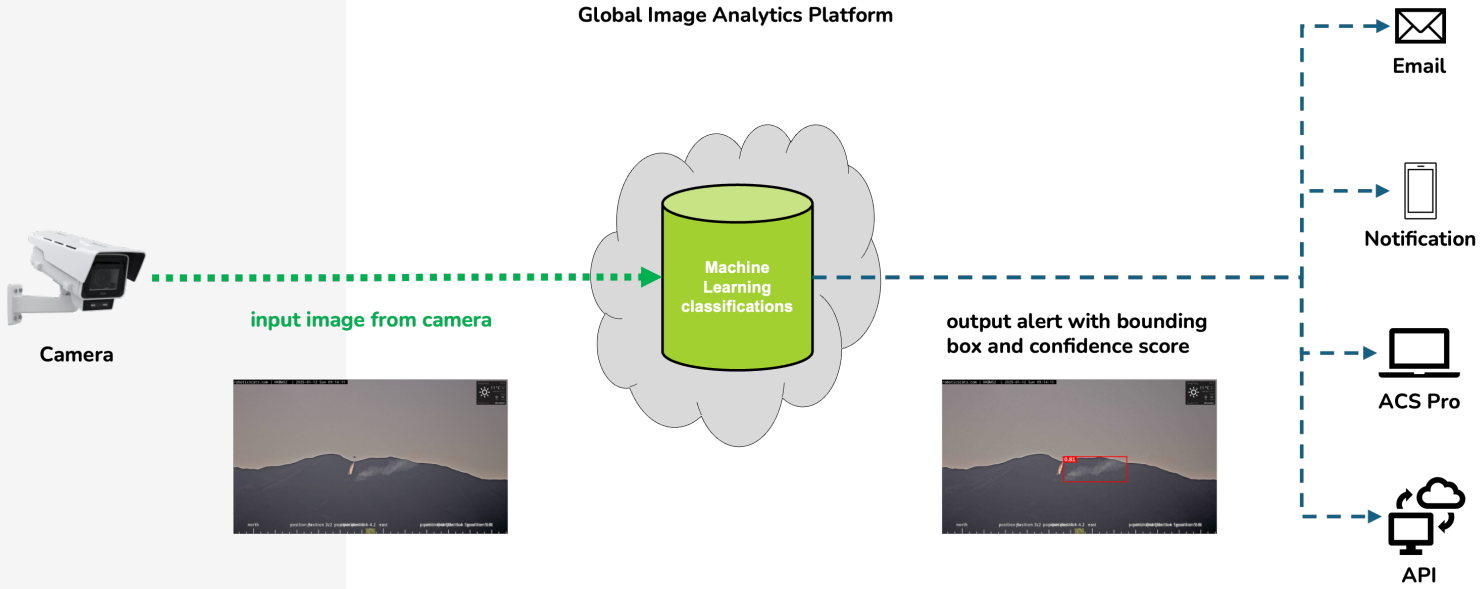
The global inferno

Why wildfires demand a smarter defense

Global reports indicate a dramatic increase in wildfire frequency and intensity, fueled by warmer, drier conditions and altered land use. The Wildland-Urban Interface (WUI) is ground zero, where the rapid spread of fires threatens homes, vital infrastructure, and irreplaceable natural ecosystems.

Conventional detection methods – often relying on human patrols, watchtowers, or satellite imagery – are frequently slow, labor-intensive, and require substantial upfront investment, making them inadequate against the speed and scale of modern wildfires.

This escalating crisis highlights an urgent, pressing need for an on-demand, user-friendly, and immediate wildfire detection solution. Early alerts are crucial to enable timely evacuations, rapid suppression efforts, and ultimately, to protect lives, assets, and the very fabric of our communities.



Unveiling the AI Watchdog

RoboticsCats and Axis in action

The RoboticsCats LookOut Wildfire Detection SaaS reimagines standard Axis IP cameras as intelligent wildfire surveillance devices. Here's how this powerful transformation happens:

1. Your eyes on the horizon: Image source
Existing Axis video cameras, already deployed and familiar, are configured to periodically send images. This is done seamlessly via standard HTTPS POST method, leveraging Axis's powerful "Action Rule" feature, directly to the RoboticsCats AI-powered cloud analytics infrastructure. No need for complex new hardware – your existing infrastructure becomes smarter.

2. The AI brain: Intelligent detection
Once images arrive, they are immediately processed by RoboticsCats' proprietary AI wildfire detection algorithms. Running on Google Cloud Platform (GCP) and Amazon Web Services (AWS) for unparalleled scalability and reliability, these algorithms are the core of our system.

3. Instant vigilance: Real-time alerts
Upon the detection of early-stage wildfire, the system springs into action, generating an immediate, critical alert. This alert is dispatched directly to the customer's predefined contact list via the email, messaging app notification and API (Application Programming Interface) call. Speed is of the essence, and our system ensures alerts reach decision-makers within moments.

4. Empowering response: informed Action
Every alert delivered by LookOut is rich with crucial information. It includes the precise date and time of detection, the name of the camera that spotted the threat, and the detected image with a clearly highlighted boundary around the identified wildfire.

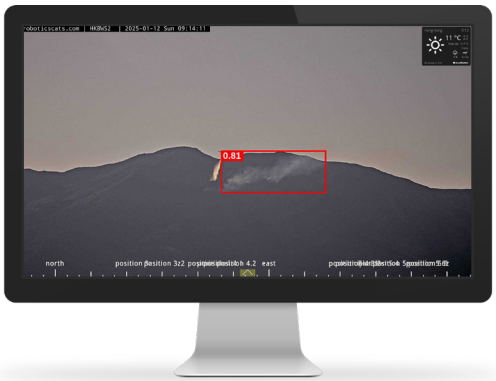
This comprehensive data allows users to quickly review and confirm the presence of a wildfire, enabling them to take timely and informed actions. Beyond personal alerts, LookOut integrates with Video Management System (VMS) such as AXIS Camera Station Pro (ACS Pro), allowing users to receive on-screen pop-up alert message and live view of the wildfire situation from the camera.

5. Seamless Control: Web Admin Interface
A comprehensive, intuitive web-based administration interface provides full control. Users can easily manage their account, set up payment details, add or delete cameras, and configure their online subscriptions. This centralized hub ensures that the entire system is easy to manage and adapt to evolving needs.

1.



2.



3.



The power of partnership

Integration with Axis Communications

RoboticsCats LookOut Wildfire Detection SaaS is engineered for seamless compatibility with a vast range of Axis IP cameras. Any Axis IP camera equipped with the “Action Rule” feature can be effortlessly configured to send images to the LookOut Wildfire Detection SaaS via “Send images through HTTPS”. This robust integration ensures reliable image transmission for continuous monitoring and detection, making it an ideal, value-adding extension for existing Axis camera installations. It means leveraging your investment in Axis technology, amplifying its capabilities without requiring significant hardware overhauls.

Products



AXIS Q1656-LE



AXIS Q6225-LE



AXIS Camera Station Pro



AXIS Q8752-E



Transforming risk into resilience

Unlocking key benefits

The RoboticsCats solution delivers transformative advantages:

- **Proactive wildfire management**
  Detect fires before they escalate into devastating infernos, significantly minimizing potential damage and risk to lives and property.
- **Cost-effective deployment**
  By utilizing existing Axis camera infrastructure, organizations can avoid substantial new hardware costs, making advanced wildfire detection accessible.
- **Effortless integration and use**
  Simple setup processes combined with an intuitive online customer portal make monitoring, reporting, and responding straightforward for everyone. Integration with AXIS Camera Station Pro provides Axis customers with a familiar user environment and zero learning curve.
- **Enhanced safety and response time**
  Provides critical early warning time for evacuation, resource deployment, and fire suppression efforts, directly saving lives and livelihoods.
- **Cloud-based scalability**
  Leveraging Google Cloud Platform and Amazon Web Services ensures high availability, robust performance, and the ability to scale operations efficiently as needs grow.
- **Actionable intelligence**
  Provides detailed, context-rich alerts, empowering rapid decision-making and efficient resource allocation.
- **Flexible service tiers**
  With Standard and Premium options, our service caters to diverse operational needs and budgets, offering varying levels of detection frequency and monitoring.

Stories from the front lines

Real-world impact

Our solution is already making a tangible difference in diverse environments:

1. **A sanctuary saved: Big Tree Animal Sanctuary and Adoption Center, Hong Kong**
   In October 2020, the Big Tree Animal Sanctuary and Adoption Center, a haven for over 100 dogs and cats in Hong Kong, faced a terrifying near-miss when a wildfire erupted just meters from their facility. Situated in a high-risk Wildland-Urban Interface area, the incident highlighted their vulnerability. Following this, the sanctuary swiftly implemented the RoboticsCats LookOut solution with two Axis cameras. This setup now provides real-time wildfire alerts to their dedicated staff and volunteers, ensuring the continuous safety and protection of their beloved animals and their premises from future threats.

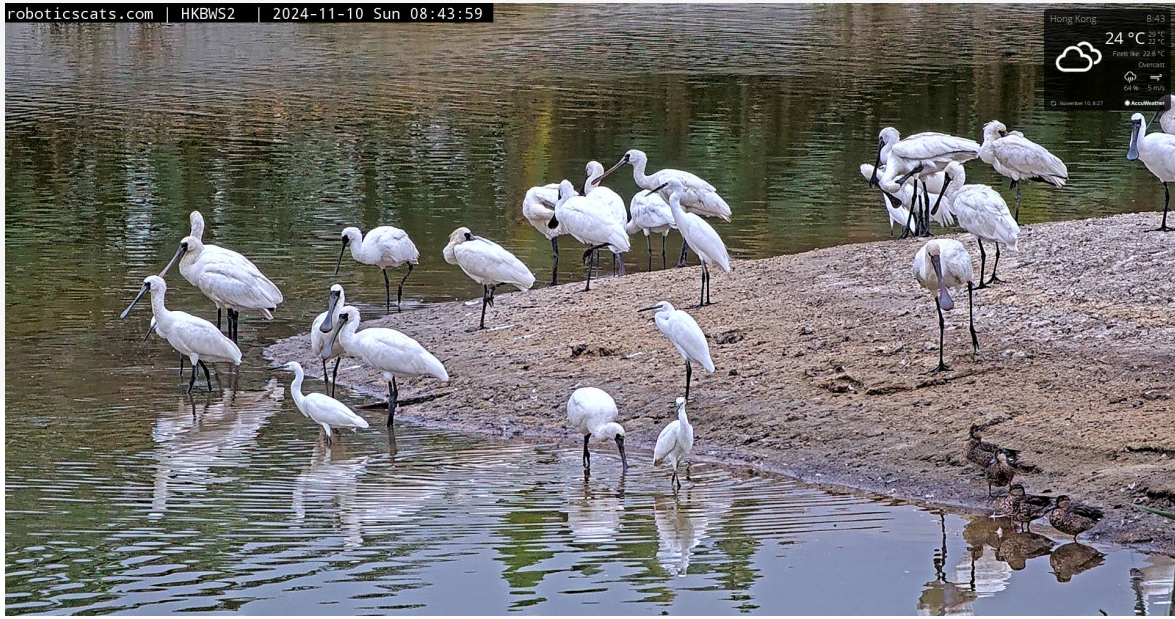
2. **The day Kai Kung Leng didn't burn, Hong Kong**
   The day was January 11, 2025. A new wildfire sparked in Kai Kung Leng, a mountainous area in Hong Kong. Thanks to the immediate detection capabilities of the RoboticsCats LookOut and Axis cameras deployed at a wildlife conservation habitat 5km away, a critical early warning was issued.

   As Andre Cheung, the CEO of RoboticsCats, reflected on LinkedIn, the system was a silent sentinel, proving its worth in a high-stakes scenario. "We're grateful that the NowTV and TVB news programs featured our AI-based technology for wildfire and wildlife detection," he posted, highlighting the public recognition of their system's efficacy.

   The prompt alert allowed authorities to deploy resources quickly, preventing what could have been a much larger and more devastating blaze. This incident underscored how AI can be a game-changer, acting as an "unblinking eye" on vulnerable landscapes, turning potential disasters into manageable incidents.

3. **Safeguarding the Sun's Bounty: Brazil's solar boom**
   In Brazil, a nation rapidly expanding its solar energy infrastructure, the threat of wildfires to vast solar farms is a significant concern. These critical clean energy installations, often located in remote, arid regions, are highly susceptible to fire damage, which can lead to massive financial losses and energy disruptions. RoboticsCats stepped in to safeguard this vital infrastructure.

   By integrating our RoboticsCats LookOut Wildfire Detection SaaS with existing Axis cameras monitoring these solar farms, operators can significantly enhance their climate resilience. The system offers early detection of smoke and fire, protecting millions of dollars in investment and ensuring the continuity of clean energy generation for Brazil's future. This application demonstrates the versatility of our solution beyond traditional WUI areas, proving its value in protecting critical industrial assets.



Powering vigilance

LookOut Wildfire Detection SaaS specification

The RoboticsCats LookOut Wildfire Detection SaaS is offered in two tiers to meet diverse needs:

Feature	Standard	Premium
Camera supported	Any Axis IP camera with Action Rule (HTTPS POST image)	Any Axis IP camera with Action Rule (HTTPS POST image)
Detection engine	RoboticsCats AI Wildfire Detection	RoboticsCats AI Wildfire Detection
Cloud infrastructure	Google Cloud Platform (GCP) and Amazon Web Services (AWS)	Google Cloud Platform (GCP) and Amazon Web Services (AWS)
User Interface	Web admin interface (account/payment setup, add/delete cameras), real-time notification via email, mobile app notification, and API integration (receive alerts, detected image)	Web admin interface (account/payment setup, add/delete cameras), real-time notification via email, mobile app notification, and API integration (receive alerts, detected image). Supports advanced capabilities such as customizable AI detection behavior and server-side scheduled masking, among other premium features
AI detection frequency	Every 60 seconds	Every 30 seconds
Camera uptime monitoring	No	Yes

Join the AI revolution in wildfire defense

Discover how RoboticsCats LookOut Wildfire Detection SaaS can be the cornerstone of your wildfire prevention strategy, protecting your assets, community, and natural resources. For more detailed information or to explore how our solution can be tailored to your specific needs, visit us.

Disclaimer: This solution note is for informational purposes only. The information contained herein is subject to change without notice. RoboticsCats and Axis Communications disclaim any liability for errors or omissions. Users should consult relevant professionals for specialized advice regarding wildfire prevention and safety.

About Axis Communications

Axis enables a smarter and safer world by improving security, safety, operational efficiency, and business intelligence. As a network technology company and industry leader, Axis offers video surveillance, access control, intercoms, and audio solutions. These are enhanced by intelligent analytics applications and supported by high-quality training.

Axis has around 5,000 dedicated employees in over 50 countries and collaborates with technology and system integration partners worldwide to deliver customer solutions. Axis was founded in 1984, and the headquarters are in Lund, Sweden.

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