

# Pushing the Limits of Vision AI

LILIN video technology and Atomrock Vision AI work together to transform visual data into actionable intelligence—processing AI at the edge while centralizing insights on one platform.

## ATOMROCK FRAMEWORK AND AI ARCHITECTURE



### SENSORS

#### LILIN Cameras + Multi-Modal Sensors

LILIN professional surveillance cameras provide the visual foundation for Atomrock’s perception layer, alongside thermal, particle and gas imagers, radar, and RF detectors. By combining multiple sensing technologies, Atomrock surfaces what any single sensor may miss.



### AI HARDWARE

#### From LILIN Video to Intelligence at the Edge

Atomrock Edge AI processes video from LILIN cameras and connected sensors close to the source, enabling low-latency detection and AI analysis even when cloud or command-center connectivity is limited.



### AI PLATFORM

#### Centralized Intelligence from Camera to Command Center

VisionSense centralizes AI events and insights generated from LILIN video and other connected sensor data, streamlining deployment, management, and continuous improvement across edge devices and centralized platforms.

## VISIONSENSE APPLICATIONS



Assembly Line QA



Chip & Wafer QA



Mechanical Component QA



Particle Leak Detection



Industrial Thermal Anomaly



Urban Flood Prevention



Airspace Defense



Public Safety



Maritime Defense



Wildfire Prevention



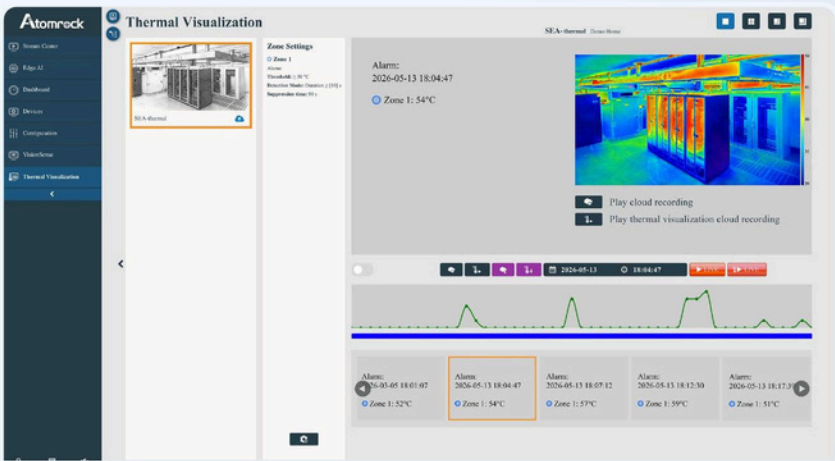
LinkedIn



Website

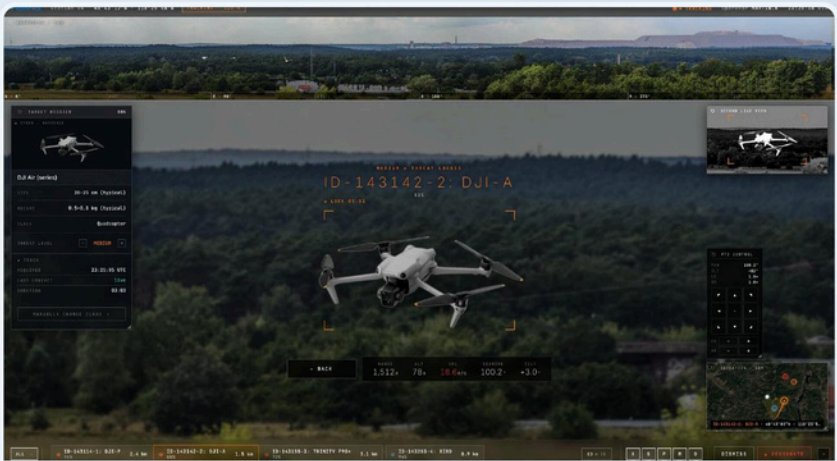
# Pushing the Limits of Vision AI

Combining LILIN professional imaging with Atomrock Vision AI for actionable intelligence across defense, infrastructure, and industry.



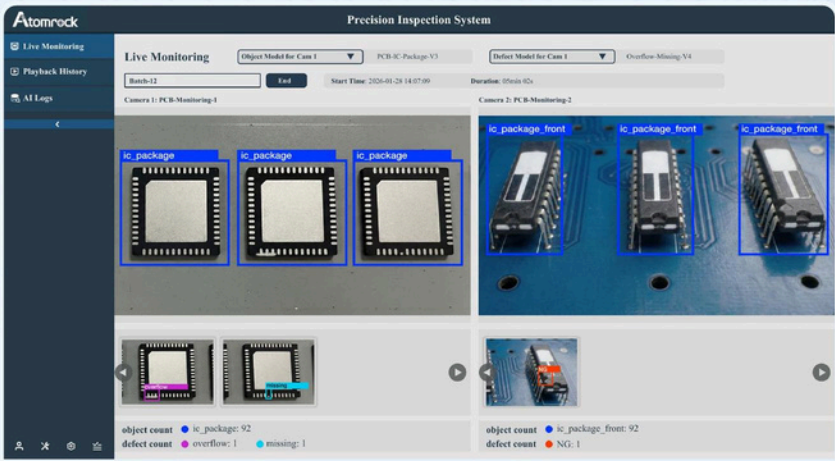
## Perception Vigilance

Perception Vigilance **visualizes subtle thermal, particle, and gas anomalies** beyond human vision and conventional cameras, enabling earlier detection, faster response, and improved safety across industrial, critical infrastructure, and vehicle-mounted disaster response applications.



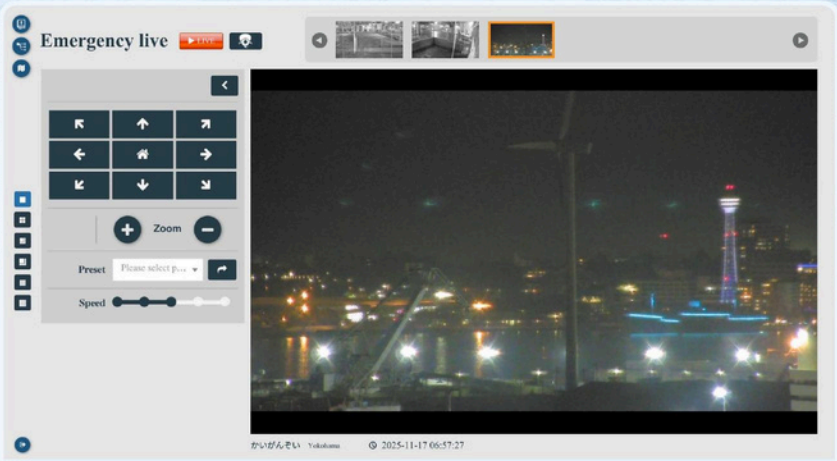
## Advanced Defense

Advanced Defense delivers **real-time threat response** through three integrated layers: **awareness, AI analysis, and action integration**. EO/IR cameras and radar capture field data, the AI platform detects, classifies, and tracks threats, while connected systems enable timely response across critical sites.



## Precision Inspection

Precision Inspection is an **autonomous inspection system** that identifies products and defects, counts throughput, and triggers quality alarms across production lines, accompanied by **VisionCraft, an in-house AI training platform** unifying tagging, training, deployment, and refinement for line-specific accuracy.



## AIOT Smart City

AIOT Smart City is for integrated urban operations, connecting AI cameras, IoT sensors, and identification systems into a **unified response network** for environmental awareness, smart alerts, and coordinated operations across public safety, critical infrastructure, transportation, and smart city services.

atomrock.com CONNECT WITH ATOMROCK

TALK TO US  
LEARN MORE

info@atomrock.com  
atomrock.com



LinkedIn



Website