



Watchbot Use Case

Retail Spaces

Watchbot

Autonomous 24/7 **inspection** and **surveillance** robot,
designed to automate security and preventive maintenance.



Extreme weather resistance
IP66 (-25° C up to 50° C)



Autonomous navigation
Indoor & Outdoor



AI-Visual analytics



360° vision



Off-road wheels



16 hours run-time



Two-way audio



Modular technology



Security and Operational Risks



- **Wide perimeter** difficult to monitor continuously.
- **Overnight** theft & vandalism risk.
- **Patrolling** is limited and costly.
- **Smoking and vaping** in restricted areas.
- **Risk of internal theft** & unauthorized access.



- **High-power equipment** in public zones.
- **Fire risk** and equipment failure due to overheating.
- **Regulatory pressure** to monitor.
- **H&S checks** are costly and often incomplete.
- **Fire exits and escape** routes prone to obstruction.

Solution



- **Autonomous perimeter surveillance.**
- **AI powered detections.**
- **Video Alerts & 2-way audio** for remote intervention.
- **AI powered video monitoring.**
- **Real time alerts.**



- **Automated thermal inspection.**
- **Visually checks status** of H&S equipment, lights or fences.
- **Detects missing,** blocked or moved items.
- **Generates reports** for compliance traceability.
- **Monitors emergency exits** and access paths.

AUROS

Robot Fleet Management



Cybersecured protocols to access the platform.



Custom access tailored to user roles.



Real-time teleoperation from any location.



Instant alerts on new detections.



Historical routes logs for reviewing.



Performance tracking with KPI collection.

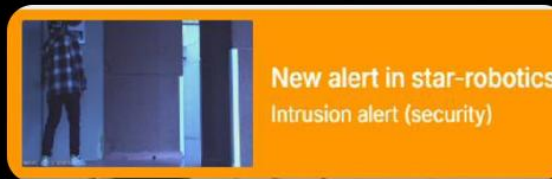
How Watchbot and Guards collaborate?

Autonomous Surveillance



The robot executes the route 100% autonomously **keeping the guards safe** and away from dangerous events.

Anomaly



When an **intrusion or anomaly** occurs, the Watchbot detects it and sends the alert directly to the supervision center.

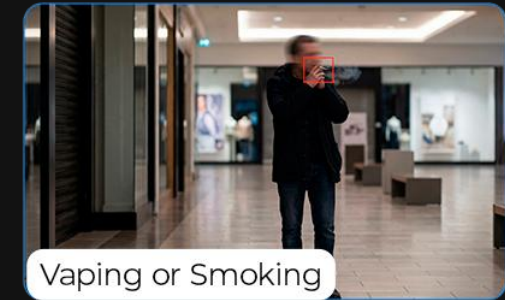
Intervention



The guard can handle the situation **speaking through the robot via AUROS** without being exposed.

AI-Visual Analytics

Beyond 24/7 surveillance, Watchbot customizes visual inspections and tailored detections to meet requirements of every client



Some scenarios are graphical representations*

Successful Use Case – Retail Center

UK

Client Challenges

- Lack of visibility in low light areas
- Smoking or Vaping in common areas
- Unaffordable humans patrolling cost
- Recurrent vandalism in isolated areas

Watchbot Solutions

- **Deterrence effect indoor & outdoor** at the shopping mall.
- **Telepresence to intervene** in any adverse situation.
- **Video Evidence in blind spots** for vandalism at the shopping mall.

Deployment

One week

In a single week, Watchbot was completely deployed **remotely without downtime**

30 days of Watchbot operation

At **daytime** Watchbot patrolled every **2 hours** from **7:00 to 19:00**, detecting smoking and vaping incidents.

During **night hours** from **19:00 to 6:00** Watchbot delivers crime deterrence to avoid vandalism enhancing security.

Total operation time	Autonomous Navigation	Total Waypoints Sent
250.8 Hrs	123.3 Kms	5773
Waypoints reached	Operation time per day	Autonomous Nav per day
4730	8.5 Hrs/day	4.2 Kms/day

RPI

(Robot Performance Indicator)

85.1 %

Pilot success measured by RPI: uptime, routes executed, waypoints reached.

80%+ passes pilot success criteria



For more information visit us at
star-robotics.com or contact us directly.

