

Supersight Extreme™

Outdoor Edge AI Traffic & Mobility Sensor



Privacy-preserving outdoor traffic intelligence for permanent installations

Supersight Extreme is a permanently installed outdoor edge AI sensor designed for intelligent transportation, smart cities and public-space analytics. Computer vision processing is performed entirely on the edge device, ensuring that no images or video streams are stored or transmitted for analysis. The device provides accurate real-time traffic analytics while operating in demanding Northern European outdoor environments.

Key Benefits

- Edge AI processing
- No images or videos stored/transmitted
- 100% privacy preserving
- Permanent outdoor installation
- IP65 enclosure
- Year-round Nordic operation
- REST API
- Remote management
- GPS positioning
- Open integration platform



Designed For Demanding Outdoor Environment

Max temperature **+50°C**

Low-temperature **-25°C**

AI processing Continuous

Accuracy No reductions in urban lit environment 24/7

Device operation No interruptions 24/7

Product Overview

Designed for demanding outdoor environments

Supersight Extreme combines rugged industrial hardware with Supersight's proven Edge AI platform to provide continuous traffic and mobility analytics.

Typical applications include:

- Smart cities
- Traffic monitoring
- Pedestrian counting
- Cycling infrastructure
- Public transport
- Intersections
- Event venues
- University campuses
- Public spaces

Edge AI Architecture

Customer Systems

REST API

Anonymous Metadata

Edge AI Processing

Device

No images or video are transmitted from the device.

Technical Specifications

Hardware

Feature	Specification
Product	Supersight Extreme
Edge AI platform	Samsung Galaxy XCover
Enclosure	Industrial outdoor enclosure
Protection class	IP65
Installation	Pole / lighting pole / wall
Power supply	230 VAC
Optional power	Street-light night-power with battery
GPS	Supported
Remote management	Yes
Software updates	Remote
Warranty	24 months
Spare parts	Minimum 4 years

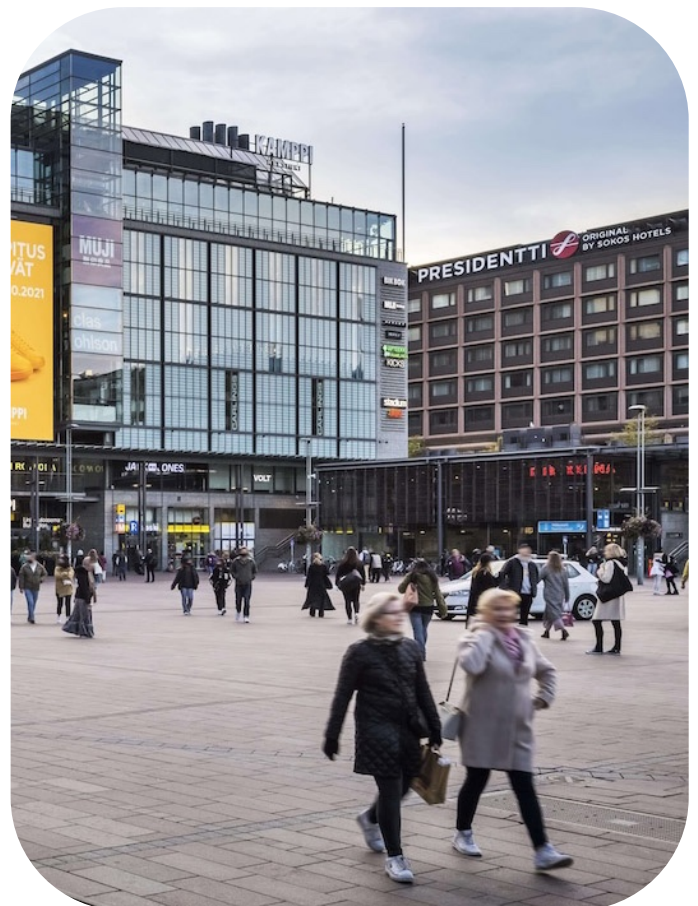
Environmental

Feature	Specification
Operating temperature	-25°C to +50°C
Laboratory validation	-27°C to +55°C
Direct sunlight	Validated
Outdoor installation	Permanent
Northern European climate	Supported

AI Counting Capabilities

Supports detection and counting of:

- Pedestrians
- Cyclists
- Electric scooters
- Passenger cars
- Vans
- Motorcycles



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- Heavy vehicles
- Buses
- Trucks

Additional capabilities:

- Turning movement counting
- Intersection counting
- Direction detection
- Area counting
- Gate counting
- Vector movement trajectories
- Helmet detection for cyclists

Performance

Metric	Specification
Detection area	$\geq 200 \text{ m}^2$
Counting width	$\geq 20 \text{ m}$
Pedestrian accuracy	$\geq 90\%$
Cyclist accuracy	$\geq 95\%$
Vehicle accuracy	$\geq 90\%$

Data & Connectivity

Communications

- 4G / 5G
- Wi-Fi
- Ethernet

Data Storage

- Local offline storage
- Up to 42 days buffering
- Automatic retransmission
- Unlimited cloud storage during contract

REST API

Features include:

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- JSON
- GeoJSON
- API Tokens
- Versioning
- Pagination
- ISO 8601 timestamps
- Historical data access
- Minute, hourly, daily, monthly and yearly aggregation

Browser Platform

Included cloud platform provides:

- Live dashboards
- Historical analytics
- Interactive maps
- CSV export
- Excel export
- Public dashboards
- User management
- Automatic error detection

Supported browsers:

- Chrome
- Edge
- Firefox
- Safari

Maintenance

Supersight provides:

- Installation
- Commissioning
- Remote monitoring
- Software updates
- Security updates
- Preventive maintenance
- Fault notifications
- Monthly health reports



Support languages:

- English
- Finnish
- Swedish
- Dutch

Privacy by Design

- 100% Privacy prese
- Supersight Extreme performs all computer vision processing locally.
- No images or video streams are stored or transmitted.
- No personal data processed
- Only anonymous traffic metadata is stored and transferred.

Typical Applications

- Smart Cities
- Road Authorities
- Public Transport
- Universities
- Event Venues
- Property Owners
- Infrastructure Operators
- Digital Twin Platforms

About Supersight

Supersight develops privacy-preserving Edge AI solutions that help organisations understand and optimise how people and traffic move through physical environments.

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