



OnPatrol Data Sheet

Protect Your Officers, Anytime, Anywhere.



Oosto OnPatrol is a tactical surveillance mobile application that protects law enforcement and military personnel by recognizing and offering real-time alerts about Persons of Interest (POIs) on their mobile device (e.g., phone, bodycam).

OnPatrol de-escalates potential threats and prevents casualties on both sides by identifying criminals and dangerous individuals in real-time through Vision AI technology. It is designed specifically to recognize and check people's faces against a watchlist of persons of concern in real-world conditions, including people in motion, in dim lighting, at occluded angles, when partially obscured by other people and even with heavy make-up.

The application features all the benefits of our desktop platform on your mobile Edge device, in addition to unique, on-the-go capabilities, helping to better protect law enforcement agents and security officers while also achieving a higher level of operational efficiency and flexibility on the ground, without the need of powerful on-premise servers.





Works completely offline and doesn't require backend connectivity.

Police Protection



- Improve police safety by allowing officers to assess the threat level of people around them in either 1:1 encounters or in group environments
- Whether underground, in a remote area, or around hundreds of people, never let weak or non-existent internet connections block your people from receiving the watchlist alerts they need in real-time

No CCTV Cameras, No Problem



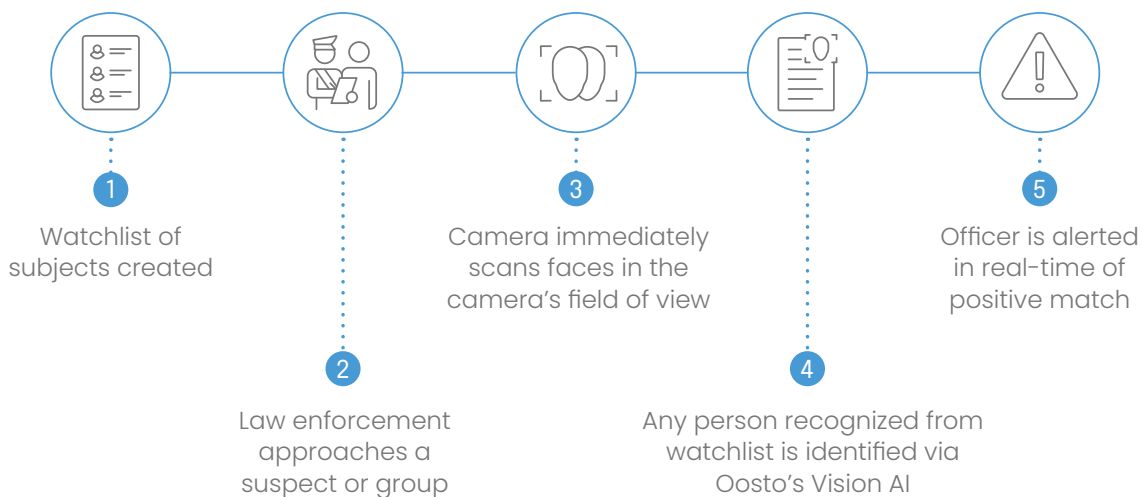
- Analyze mobile camera or body camera video footage (or other non-traditional means of capturing video footage, such as camera glasses) directly on a mobile device
- Synthesize video data right at the ingestion point (the camera) which eliminates significant costs for data servers, additional bandwidth, and infrastructure costs usually associated with high-volume video collection and analysis

Built for Real World



- Immediately identify known criminals or persons of interest
- Never let disguises or masks block your team from identifying subjects on your watch list
- Easier, more efficient and more accurate than the human eye
- Never worry about misidentification again and be certain you've apprehended the right individual

How This Technology Works





Key Features



Subject Enrollment

Enroll/delete a person of interest by detection either from still images or from live streams



Subject Recognition

Receive an alert when a subject is recognized in real-time



Watchlist

Create a subject database by uploading single or multiple images or adding existing detections



Track Subject Location

Track a subject's appearances and mark them to create a geographic route



Alert

Define an alarm preference (audible or vibration)



Search Backwards

Search for subjects through all earlier detections



Camera Management

Configure a set of connected cameras and switch between them during run-time



Search, Export & Delete

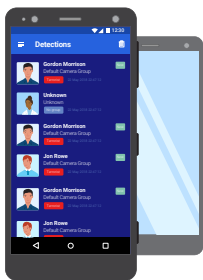
Export data for further analysis, set automatic deletion rules and customize deletion options



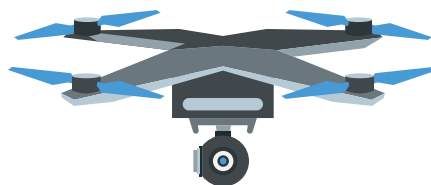
Covert Mode

Operate in hidden mode to attract no attention

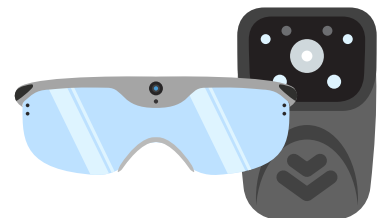
Make Your Cameras Smart



Mobile Phones



External Devices



Wearable Camera



Minimum System Requirements

System Component		Performance and Limitations
Mobile phone	Architecture	On mobile designated smartphones
	Software/hardware	Software Only (on designated smartphones)
		Software + HW (can be supplied by Oosto)
Integrations	Camera integration	Direct Wi-Fi RTSP cameras or direct USB cable connection. One active RTSP video stream supported at any given time.
Detections	Capabilities	Facial
	Accuracy	Up to 99.9%
	Speed	273ms per 1000 faces
	Minimum face size	Minimum 45x45 pixels
Recognitions	Capabilities	Facial
	Accuracy	Up to 99.9%
	Recognition	1:1, 1:N, M:N
	Re-ID speed	101ms
	Minimum face size	45x45 pixels
Data Base	Database size	Up to 10k subjects
Storage	Tracks	Depends on mobile device storage. 1GB of storage holds 2600 detections. Samsung S9 device, with 64GB, can hold up to 135K detections.
Battery	Up-time	Connected to an external camera in background, mobile device can last up to 10 hours.



Technical Specifications

Component

Minimum Supported

System	Samsung 9 or higher
Mobile Phone Chipset	Qualcomm SDM 845 / 855 / 888
GPU	Adreno 630 or higher
CPU	Octa-core (4x2.8 GHz Kryo 385 Gold & 4x1.7 GHz Kryo 385 Silver) or higher
Memory	6 GB RAM or higher
Storage	64 GB or higher
Operating System	Android 8 or higher
Operating System	External USB camera
	External Direct Wi-Fi RTSP camera

System Architecture

