



Integrated Solution Overview

Integrated Body-Worn Camera Solution
with Milestone XProtect® for Real-Time
Video Streaming and Evidence
Management



Solution Overview

IONODES offers a seamless and secure integration between the PERCEPT Body Camera, Milestone XProtect® video management system, ORBNET advanced map positioning, BriefCam® video analytics and Milestone XProtect Evidence Manager. This complete solution is designed to help law enforcement agencies, public safety teams, and critical infrastructure operators enhance their field operations through real-time video visibility, GPS-based tracking, comprehensive ai-based insight and secure digital evidence workflows.

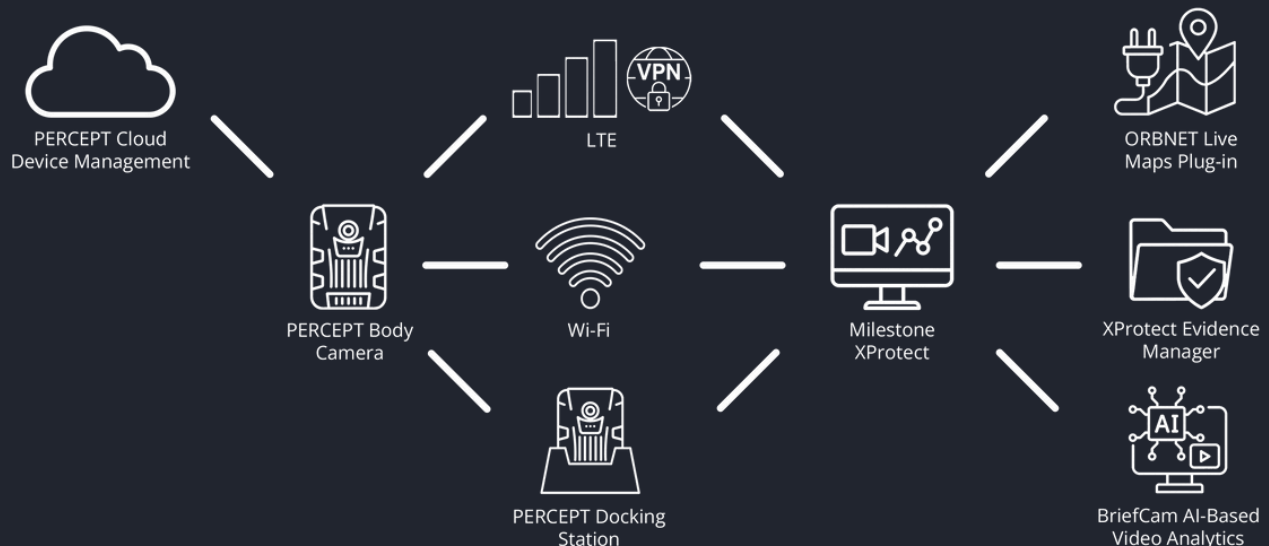
By combining real-time video capture with location data and centralized evidence handling, this integration empowers frontline teams to act faster, remain safe, and better support investigations.



Key Benefits

- Cybersecure design with data encryption
- Full operational awareness and a complete video-to-evidence workflow
- AI-based post-incident search, real-time alerts and quantifying data trends
- Trusted, field-proven technology ecosystem
- Cost-effective, modular, and scalable across multiple sites

Connectivity Diagram



Use Cases

The integration of the PERCEPT Body Camera with Milestone XProtect and ORBNET Live Maps delivers real-time intelligence and seamless evidence management. This solution supports a wide range of public safety and critical infrastructure scenarios where responsiveness, accuracy, and efficiency are essential.

This integrated solution is ideal for:

- Supporting live incident response and coordination between field officers and dispatch
- Tracking officers or agents in real time during critical operations
- Recording interactions and events for later review, training and operation enhancement
- Secure video evidence transfer and storage for internal or legal investigations
- Rapid incident investigation through ai-based filtered video search

Whether for patrol operations, first responder calls or emergency interventions, the PERCEPT Body Camera and Milestone XProtect integration along with the Live Maps plug-in from ORBNET improves situational awareness, enhances coordination, and ensures reliable documentation of every event.



Technology Components & Integration Details

PERCEPT Body Camera

The PERCEPT Body Camera is a high-performance, cybersecure, open-platform camera built to withstand demanding public safety environments and critical infrastructure operations. It supports both LTE and Wi-Fi connectivity for video streaming, includes built-in GPS, and captures video in ultra-high definition 4K with a 180 degrees angle. The device is rugged and compact, with advanced security features and local storage via SD card. Its open-platform architecture and ONVIF compliance (Profile G, S, and T) allow the PERCEPT camera to integrate natively with major video platforms such as Milestone XProtect.

Milestone XProtect VMS

Milestone XProtect serves as the central hub for video reception, viewing, and recording. Through the ONVIF protocol and a custom integration for the PERCEPT Body Camera, XProtect handles the live stream directly from the camera, whether over LTE with VPN or over a trusted Wi-Fi network. The PERCEPT Body Cameras are registered and managed in the VMS like traditional security cameras, but with enhanced features to support mobile streaming devices.



Milestone XProtect Evidence Manager

XProtect's built-in evidence management tools allow users to manually select recordings and transfer them securely to the Digital Evidence Management System (DEMS) for case-related archiving. Once in the XProtect Evidence Manager, the video files are preserved with all relevant metadata (GPS, time, user identity) and are accessible for investigation, sharing, and legal review. The system maintains a complete chain of custody and ensures integrity through built-in audit features.

Technology Components & Integration Details

BriefCam

BriefCam is an AI-based video analytics solution that integrates with Milestone XProtect to accelerate investigations and enhance situational awareness. When paired with the PERCEPT Body Camera, it enables rapid video review, object and event search, and rule-based alerts. This allows users to quickly identify people, vehicles, or behaviors of interest, saving time and supporting more informed decisions in real-time and post-incident scenarios.

ORBNET Live Maps Plug-in

ORBNET adds advanced situational awareness to the Milestone XProtect environment by displaying real-time GPS positions of active PERCEPT Body Camera on a live map interface within the VMS. GPS data embedded in video frames and sent as metadata allows Live Maps to track and update device locations continuously, offering command staff a live operational view of field personnel.

IONODES PERCEPT Cloud

PERCEPT Cloud is a powerful IoT device management solution designed to help you centrally manage your fleet of IONODES video devices. PERCEPT Cloud makes it simple for you to remotely access features such as on-demand live video streaming, real-time location tracking of devices, centralized software updates, health monitoring and device configuration.



What Next?

Contact us to schedule a live demo and see how integrating the PERCEPT Body Camera with Milestone XProtect, XProtect Evidence Manager, and Live Maps can enhance your mission-critical operations.

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