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Occupancy Monitoring

Video-based People Counting and Occupancy Monitoring

Occupancy Monitoring is an automatic people counting and occupancy monitoring system for beaches and other open spaces

Occupancy Monitoring exploits the latest advances in Artificial Intelligence to provide accurate counting in open spaces, such as beaches, parks or large squares. The system offers a range of deployment alternatives, and can be used on drone imagery, fixed and PTZ moving cameras, as well as on legacy CCTV systems.

- ✓ **Reliable AI-based people counting** using cutting-edge Deep Learning architectures and curated data
- ✓ Compatible with **drone, fixed and PTZ cameras**, and with most legacy CCTV systems
- ✓ Occupancy monitoring with automatic terrain and area separation: **sand, water, paved waterfront, etc.**
- ✓ REST API for **seamless integration** with third party legacy surveillance and monitoring systems.

- ✓ **Automatic logging** for evidence reporting and historical data analysis available
- ✓ **GDPR** compliant

Detection Performance

- ✓ Accurate people detection and counting from drones (airborne cameras) or ground cameras (either fixed or PTZ)
- ✓ Accurate detection in isolated and crowded environments
- ✓ Accurate counting of people sitting or laying down, running, swimming or surfing
- ✓ Detection of people down to 4x4 pixels
- ✓ Less than 10% counting error even in the most challenging scenarios

Integration

- ✓ REST API for easy integration with legacy or ad-hoc monitoring and surveillance infrastructure
- ✓ Includes MySQL database for log storage and reporting

Deployment

- ✓ Public Cloud based deployment available for hassle free management
- ✓ Server based deployment on premises available: One Linux x86_64 host with Docker 19.03 support recommended for up to 50 cameras
- ✓ NVIDIA GPU graphics card with CUDA support required for real time multi camera scenarios.