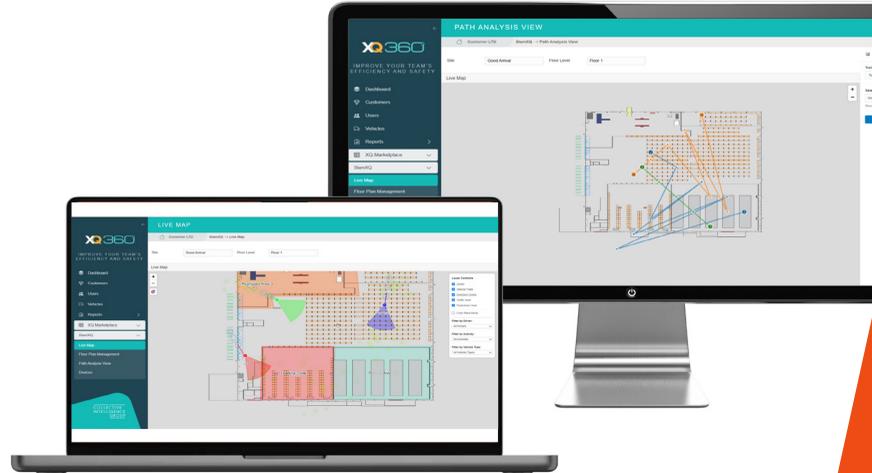# SLAM XQ

Revolutionary SLAM Technology Integration.

SLAMXQ represents a breakthrough in industrial fleet management, integrating advanced SLAM (Simultaneous Localization and Mapping) technology directly into the proven XQ360 platform. This revolutionary integration delivers autonomous vehicle intelligence with comprehensive telematics, mapping, localization, and obstacle avoidance capabilities—all unified in one powerful platform.

SLAMXQ works seamlessly with your existing setup. No UWB beacons, no reflectors, no Wi-Fi upgrades required. Simply mount one camera box per vehicle and commission in hours. This infrastructure-free approach immediately delivers complete indoor and outdoor coverage where traditional GPS fails, providing the same precision as outdoor operations for comprehensive fleet visibility regardless of environment.

SLAMXQ tracks vehicles with sub-pallet-level accuracy, enabling identification of individual pallet slots or pick faces—critical for modern warehouse optimization. The system builds intelligent maps of your facility in real-time, enabling dynamic path optimization, automatic obstacle avoidance, workflow efficiency improvements, and advanced space utilization analytics.

One Platform, Smart Integration

Rather than requiring separate systems, SLAMXQ integrates directly into the established XQ360 platform, delivering autonomous capabilities alongside comprehensive fleet management.

About SLAMXQ

- **Sub-pallet-level positioning accuracy** (±20cm repeatability)
- **Real-time SLAM processing** with automatic map generation
- **Advanced computer vision** for obstacle detection and avoidance
- **Industrial-grade stereo cameras** with 147.5° field of view
- **NVIDIA Jetson Orin Nano processing** power for autonomous operations
- **128GB onboard storage** for comprehensive map data
- **Up to 15 Hz data processing** for responsive real-time operations
- **Facility coverage** up to 2 million ft² per device
- **IP65-rated hardware** for industrial durability
- **Operating temperature range** -20°C to 50°C
- **Comprehensive APIs** for seamless system integration

Product Features Comparison

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Standard ●   Optional 🔴   Requires CANBus 🟡

Feature	XQ360	ForkliftiQ360	RentaliQ
5 years Dashboard Training	●	●	●
GPS Tracking	●	●	●
Managed cloud-based dashboard	●	●	●
4G/LTE data connectivity	●	●	●
Tamper proof internal antennas	●	●	●
24/7 Global support	●	●	●
PIN Code access control	●	●	🔴
Utilization reporting	●	Basic	Basic
IP-Rated	IP65	IP65	IP68
Operating temperature (degrees C)	-30 to +70	-20 to +50	-30 to +60
Rugged LCD touchscreen	●	●	
Automated OSHA checklist	●	●	
WIFI network connectivity	●	●	
Swipe Card access control	●		🔴
Vehicle service management	●		●
Supervisor email alerts	●		●
GPS Geofencing	Due 2026		●
Impact detection	●		●
Permission based dashboard access	●		●
Driver License management	●		
Seat/seatbelt, hydraulics and traction monitoring	●		
Flexible checklist schedule	●		
Safety checklist lockouts	●		
Compatible with most swipe card technology	●		
Impact lockout	●		
Speed Control (Slow/Fast, Vehicle dependent)	●		
Remote vehicle error code reporting	🟡		
Idle timeout	●		
Two-way driver messaging	●		
Vehicle out of service mode (VOR)	●		
Pay by the hour mode (PBH)	●		
CANBus interface	🔴		
Weight scale integration	●		
Overload weight monitoring	🔴		
Customizable Screen Logo	🔴		
Pedestrian detection monitoring	🔴		
Video camera integration	🔴		
Battery monitoring	🟡		
Advanced lithium battery monitoring	🟡		
Multi-language	●		
Weight totalizer and monitoring	Due 2026		
SSO (Single Sign On)	●		
API Powerful Integration Capability	●		
Heatmap and Snail-trail			●