Quanergy and Hanwha Vision Partner to Offer 3D Situational Awareness with LiDAR Beyond Traditional Security Solutions

Quanergy's 3D LiDAR solutions have been integrated with the Hanwha Wisenet WAVE VMS, providing mutual customers with unparalleled situational awareness and insights that go beyond traditional security solutions. With over 95% accuracy, the solution can track and identify hundreds of individuals in crowded areas, a feat previously unattainable in the industry. The integration extends coverage, tracks objects continuously in large crowded spaces, reduces false alarm rates, and reduces operational costs for physical security deployments.

The integration with Hanwha's WAVE VMS enables a wider audience to benefit from 3D LiDAR sensing. Hanwha end-users will now have access to the M-Series sensors and QORTEX DTC™ perception software, which enables high accuracy and efficiency for the classification of vehicles and people when integrated with Wave. The LiDAR sensors are accurate and reliable in all weather and lighting conditions, making them ideal for indoor and outdoor security applications. When paired with Hanwha Vision's PTZ cameras, surveillance operators can take advantage of advanced "slew to cue" functionality with centimeter accuracy.

Benefits of Quanergy's Security Solutions

Quanergy's solution focuses on reducing costly false alarms and combating alarm fatigue. It provides actionable insights with hyper-accuracy, allowing operators to prioritize and focus on real threats. The solution can enhance existing camera-based perimeter intrusion detection systems, accurately locating potential intruders, and addressing all major mission-critical security use cases.

By deploying Quanergy's solutions, customers can significantly reduce the number of false alarms and allocate resources more efficiently, leading to substantial annual savings. Furthermore, Quanergy's solutions prioritize ease of use and deployment for the security industry, making it easy for customers to scale and future-proof their deployments.

KEY USE CASES

- PIDS (Perimeter Intrusion Detection)
- Fence, Wall, Rooftop Protection
- Continuous Tracking of Individuals in Large and/or Crowded Areas
- Mantrap Tailgating Prevention
- Server Rack Protection
- Asset Protection in Museums

KEY MARKETS

Critical Infrastructure:

- Data Centers, Utilities, Energy, Power Plants, Prisons, Airports, Military Bases, Bridges, Tunnels, Highways, Dams

Enterprises:

- Pharma, Manufacturing, Delivery Services, Distribution Centers, Post offices, Museums
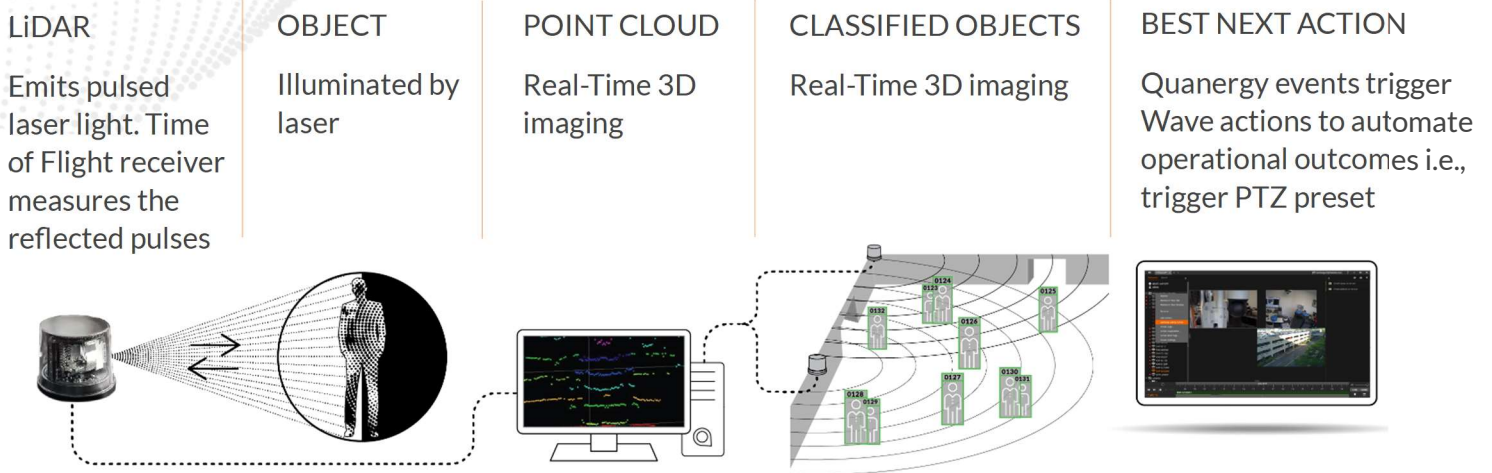
Detect. Track. Classify.

Technical Overview
Quanergy events trigger WAVE actions/alarms within the VMS to automate actions such as PTZ presents and video verification for example.

The Quanergy Qortex integration for Hanwha Vision Wisenet Wave offers the following features:

- Retrieve events, zones, objects from Qortex and send them to Wisenet Wave to enable an event to action workflow
- Supports connection for up to 8 Qortex servers

LiDAR	OBJECT	POINT CLOUD	CLASSIFIED OBJECTS	BEST NEXT ACTION
Emits pulsed laser light. Time of Flight receiver measures the reflected pulses	Illuminated by laser	Real-Time 3D imaging	Real-Time 3D imaging	Quanergy events trigger Wave actions to automate operational outcomes i.e., trigger PTZ preset

Requirements:

- Quanergy MQ-8 LiDAR Sensor(s)
- Quanergy Qortex Server (v2.2 or v2.3)
- Wisenet Wave Version 4.2.0.32841 or 5.0.0.35745

Quanergy's core competencies

- Only provider of seamlessly integrated 3D LiDAR sensors and software solutions
- Products for all use cases, including detecting small objects or continuously tracking objects throughout a large perimeter
- Over 95% reduction in false alarms and 95% object (people or vehicle) detection, tracking, and classification accuracy
- 360° 3D coverage and up to 15,000 square meters of coverage per single sensor
- No privacy concerns or recording of Personal Identifiable Information (PII)
- Ability to create a mesh network of sensors/servers and continuously track an object as they move across the entire site, virtually for an unlimited range
- Industry leading total cost of ownership (TCO) advantage

About Quanergy

Quanergy's mission is to enhance people's experiences and safety by enabling a new generation of automation processes in the physical security, industrial automation, and smart spaces markets. Quanergy's industry-leading price/performance smart LiDAR solutions are deployed by nearly 400 customers and over 50 partners across the globe.