QUANERGY



Q-GUARD

The Ultimate LiDAR-Based Intrusion Detection Solution

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The Ultimate LiDAR-Based Intrusion Detection Solution

Powered by Quanergy's LiDAR sensor technology, Q-Guard is the most complete and intelligent 3D perimeter fencing and intrusion detection system. This security technology enables detection of human-sized objects in 3D and in real-time, over both small and large spaces. The system can track objects and report on size, orientation and speed.

Q-Guard can work both indoors and outdoors, and in any weather or lighting conditions, with fewer false alarms, and adds a reliable virtual fence that will substantially reinforce perimeter security for critical infrastructure. Q-Guard is designed to integrate into existing security infrastructure with the capability of reporting the position of humans to an existing system, which can sound alarms and control cameras to focus on subjects, if required.

People Tracker software is the backbone for Q-Guard. The software uses sophisticated human perception algorithms to track people for safety and security in crowded environments at ranges exceeding 100 meters when used with Quanergy LiDAR sensors.

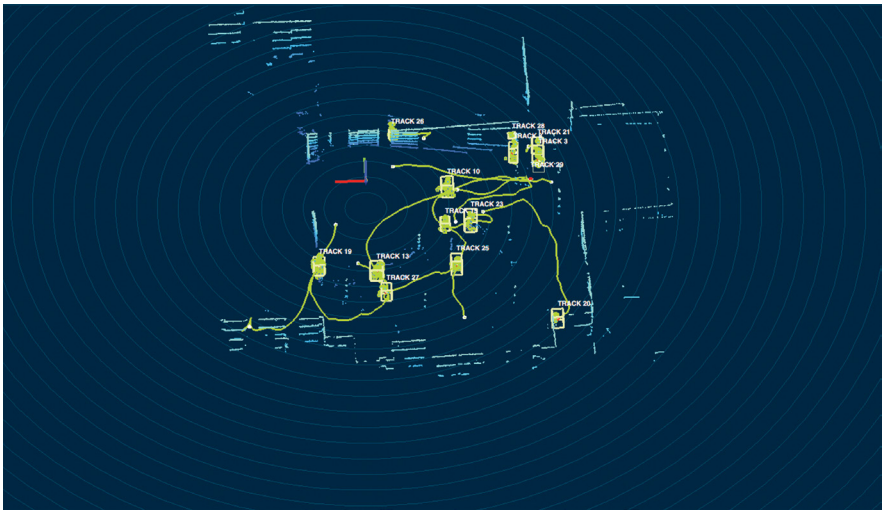
This combination of hardware and software creates an integrated solution for any advanced security application and enables the reduction of equipment and labor costs.



The M8 LiDAR sensor has a 360° Field of View and a 200 meter range.

TARGET APPLICATIONS

- Critical Infrastructure Security
- Oil Refineries and Industrial Perimeter Security
- Parked Aircraft Security
- Boat Security
- Prison Perimeter Security
- Data Centers
- Airports
- Maritime and Harbor Security



Q-Guard tracks any movements in surveillance areas to classify humans as potential threats.

Q-GUARD FEATURES

HUMAN OBJECT DETECTION
Moving objects are detected and measured. Objects can be classified in terms of orientation, position, scale, velocity and zone. The ground and immovable objects, such as buildings, are filtered out. Objects can also be classified as moving or stationary.

OBJECT TRACKING
Object movement can be tracked in real-time. Objects are persistent through occlusions and crowd groups.

ETHERNET (TCP) INTERFACE
Computer systems using local Ethernet can access the object data.

SECURE ZONES
Users can define secure zones. If objects are detected in a zone, Q-Guard creates events that can directly control internet alarms and cameras.

MULTIPLE LIDAR SUPPORT
Multiple Quanergy LiDARs can be used in conjunction to provide better range and coverage.

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