HYPOINT

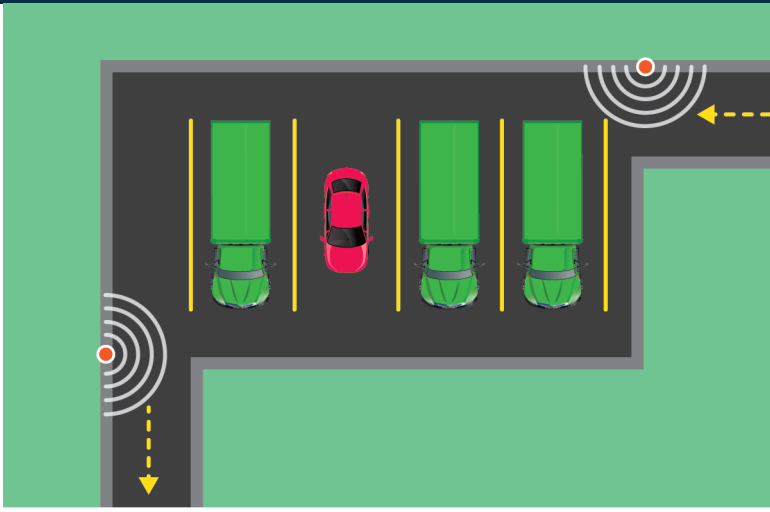
Monitoring Truck Parking Spaces

THE IMPORTANCE OF REAL-TIME MONITORING

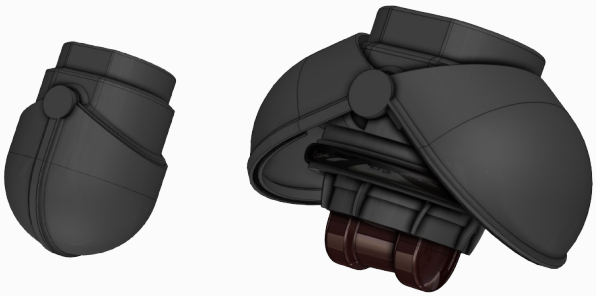
Safe and effective parking solutions

Monitoring truck parking spaces is essential for addressing the growing demand for safe and accessible parking facilities in the trucking industry. The need is driven by several factors, including federal Hours of Service (HOS) regulations, which limit driving hours and require rest breaks, ensuring drivers have safe, legal places to stop. Additionally, a lack of real-time parking information can lead to unsafe practices such as parking on highway shoulders or ramps, posing risks to drivers and other motorists.

Effective truck parking management improves supply chain efficiency, enhances road safety, and reduces driver stress by minimizing time spent searching for parking. It also supports fleet management by optimizing routes and schedules based on available parking facilities.



The system can also distinguish between commercial and passenger vehicles, allowing for notification of prohibited vehicles in designated parking areas.



We have designed an automated system to open and close a protective housing around the LiDAR sensor. This ensures maintenance-free operation, protects against dust or particulates in the air, and automatically opens to expose the LiDAR when the sensor is scanning and in use.

HyPoint's monitoring solution

HyPoint offers a cost-effective, accurate, and scalable solution using advanced 3D LiDAR sensors. This system leverages existing infrastructure and integrates real-time data capabilities to provide seamless monitoring of truck parking facilities.

The 3D LiDAR system offers several key advantages:

1. Cost savings by eliminating the need for in-pavement sensors, which reduces both installation and maintenance expenses.
2. High accuracy and reliable performance in all weather and lighting conditions, with better precision than radar.
3. Scalability, enabling integration with other parking management systems or expansion to meet future needs.
4. Environmentally friendly, with a solar power option that minimizes environmental impact and supports deployment in remote locations where traditional power sources may not be readily available.

System design and installation

Sensor placement

Entry and exit sensors are mounted on existing available infrastructure, saving you time and costs.

Real-time monitoring

Sensors provide real-time, 3D monitoring of parking spaces, including occupancy detection and vehicle classification.

Data display

Data is displayed in a secure web portal behind a login, providing real-time insights accessible to authorized personnel and your partners.

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