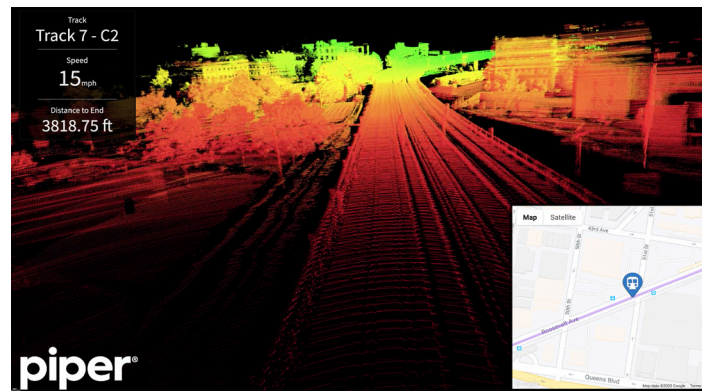


EXHIBIT K



LIMITS COMPLIANCE & COLLISION AVOIDANCE SYSTEM

Helix™ is an advanced, multi-sensor Limits Compliance and Collision Avoidance System (LCCAS) that uses LiDAR, UWB and other positioning technologies. The Maintenance of Way (MoW) safety solution allows for fleets of rail-bound and hi-rail equipment to be accurately detected and tracked on the railroad in real-time, thereby reducing the potential for worker injury, equipment damage, and operational disruptions resulting from accidents or major rule violations.



Piper Helix™ LCCAS incorporates multiple sensors to provide railroads with a vital train-centric positioning system:

- **GPS RTK** - High precision position & speed calculation for limits compliance and time synchronization.
- **UWB** - For localization in complex junctions and/or yards.
- **TrackSight™ LiDAR** - For obstacle detection and redundant position & speed calculations.
- **IMU** - Onboard inertial measurement unit.
- **HD Cameras** - Deliver live video from each vehicle.

Helix™ uses Piper's patent-pending, Solid State LiDAR technology, called TrackSight™, to compare real-time imaging to an onboard database. It constantly surveys tracks and maintains a detailed model of the territory to independently calculate the vehicle's position. Together with Piper's Ultra Wideband (UWB) technology, Helix™ provides consistent and redundant positioning data to an onboard system. The image above shows how the TrackSight™ portion of Helix™ is used for obstacle detection and position & speed calculation.

Limits Compliance • Collision Avoidance • Collision Detection

Object & Worker Detection • Live HD Video

Real-Time Employee-in-Charge & Operator Communication

Piper Networks is an innovative rail engineering solutions provider and systems integrator specializing in the development of transportation technologies. Founded in 2011, Piper has four primary product lines that serve the industry, including: Vital Train Positioning, Maintenance of Way (MOW) Protection, Automatic Train Protection (ATP), and Passenger Information Display Systems (PIDS). Piper's proprietary Ultra Wideband (UWB), GPS-RTK, and patent-pending TrackSight™ LiDAR image positioning technology are designed to operate in some of the most challenging transportation environments while maintaining pinpoint accuracy that improves performance for train operators and train control suppliers.





MOW Limits Compliance & Collision Avoidance System (LCCAS) Overview

Piper's Helix™ LCCAS solution allows for fleets of rail-bound and hi-rail equipped MoW equipment to be detected and tracked on the railroad for the purpose of enhancing safety. The solution will serve to reduce the potential for employee and customer injury, equipment damage, and operational disruptions resulting from accidents and/or major rules violations.



01. Limits Compliance

GPS RTK technology communicates the details of MoW location and vehicle work limits with sub-meter accuracy.



02. Advanced Infrastructure Management (AIM)

Piper's AIM is integrated into 3rd party dispatch systems and allows for remote monitoring & managing of Helix-equipped vehicles.



03. Collision Detection

Onboard IMU devices provide valuable operational telemetry data and alert operators instantly to any collisions.



04. Collision Avoidance

UWB sensors deliver continuous positioning data relative to nearby MoW vehicles and personnel with in-cab alerts for operators.



05. HD Cameras

Deliver live video from each equipped MoW vehicle.



06. Object & Worker Detection

Alerts operators to presence of objects and workers in path of vehicles.



08. Employee in Charge (EIC)

EIC receives tablet with interface to monitor vehicles and limits in real-time.



07. Operator Display

Visual interface for operator with warnings and alerts.



Benefits of Piper Helix™ System

Reliable system provides Vital navigation of rail vehicles.

Works in extreme conditions & above or underground rail environments.

Advanced track worker and MoW equipment protection functionality.

Suite of sensor technologies includes UWB, LiDAR, IMU and optional GPS.

Consistent two-way communication with local MoW system using LTE Modem.