

ClearWay™ (KTS350)

The ClearWay™ system combines the power of the KTS350 radar—an advanced 360° radar designed for intelligent transportation systems—with Navtech’s advanced analysis and interfacing software to deliver precise and reliable detection that enhances road safety.



Description

ClearWay™ is Navtech’s Intelligent Transportation System (ITS) designed for highways, tunnels, and bridges. This solution integrates patented radar technology with advanced radar analysis software to ensure safety where it’s needed most.

The system features the KTS350 radar, a 76 GHz Frequency Modulated Continuous Wave (FMCW) radar specifically developed for traffic surveillance applications. It provides continuous and precise 360° detection of vehicles, pedestrians, and obstacles under all weather and lighting conditions. Its advanced technology enables real-time monitoring, contributing to incident prevention and effective traffic management.

The system operates in either a centralized mode—where all radars report to a common point for software to analyze combined data—or a decentralized mode, allowing each radar to analyze data independently through dedicated server units directly on-site.

Thanks to its open architecture, the system supports numerous integrations, including key collaborations such as the integration with the Genetec™ system.

Applications

This versatile solution, combining one or more radars with an open and locally adaptable software component (whether installed on-site or within the owner’s infrastructure), supports the following applications:

- Automatic incident detection, including:
 - Stopped vehicle detection
 - Wrong-way vehicle detection
 - Debris detection
 - Shoulder monitoring
 - Queue detection

- Pedestrian detection
- Wild animal detection
- Journey time monitoring
- Vehicle counting and classification

As a distributor of Navtech solutions, Orange Traffic provides cutting-edge radar technologies to optimize the management and safety of intelligent transportation. With extensive coverage and unmatched precision, these radars are designed to meet the challenges of complex environments. Learn more by visiting the dedicated page on Navtech's website: [Radar for Intelligent Transport Solutions](#).

Specifications

- Operating Frequency: 76 GHz
- Horizontal Field of View: 360 degrees
- Vertical Field of View: 90 degrees
- Maximum Range: 150 to 250 meters (depending on object size, from debris to vehicles)
- Detection Accuracy: Over 90% to 95%, based on desired range and object size
- Operating Temperature: -40°C to +85°C
- Protection Rating: IP67, ensuring resistance to harsh environments
- Communication Interface: Ethernet
- Power Supply: 12-24V DC

The ClearWay™ system is a robust and reliable solution for road authorities and system integrators aiming to enhance the safety and efficiency of transportation infrastructure.

For more information: 1 800 363-5913

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