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VIA Intelligent Automotive Solutions

Construction



Increase Safety

Prevent collisions on busy construction sites by improving visibility and eliminating blind spots around heavy vehicles.



Reduce Costs

Minimize insurance, regulatory compliance, and legal expenses by optimizing equipment and employee safety.



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Transform the safety and productivity of your construction vehicles with VIA Intelligent Automotive Solutions

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With their pinpoint hazard detection technologies, VIA Mobile360 HESS and VIA Mobile360 CESS prevent accidents on busy construction sites by providing operators with alerts of potential safety threats in time to take evasive action. To ensure that operators remain focused while behind the wheel, the two systems also support a DSS (Driver Safety System) that issues an alert whenever it detects fatigue, smoking, and phone usage.

Ruggedized to ensure reliable operation in the toughest conditions, VIA Mobile360 HESS and VIA Mobile360 CESS can be installed in construction vehicles of all shapes and sizes and can be customized to meet your specific deployment requirements.

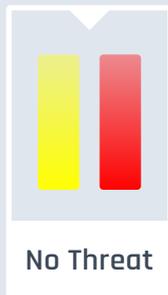
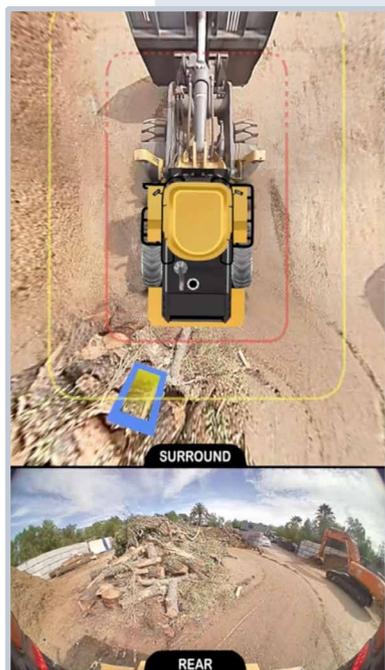


VIA Mobile360 HESS

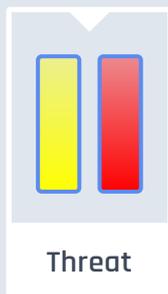
Heavy Equipment Safety System



Built to excel in the most demanding construction environments, VIA Mobile360 HESS leverages its powerful 360-degree SVS (Surround View System) video and vSense™ smart sensor fusion technology to improve visibility and eliminate blind spots around the most popular classes of heavy construction vehicles.



No Threat



Threat

Smart Detection

With its powerful vSense™ smart sensor fusion technology combining camera detection with 77GHz mmWave radar sensors, VIA Mobile360 HESS prevents accidents on construction sites by providing equipment operators with real-time audio or visual alerts of approaching vehicles, machinery, and workers in all weather, lighting, and operating conditions. Detection zones and alert types are fully configurable by vehicle type, workplace scenario, and other site-specific requirements.

Single Unified Interface

A single, unified interface on the in-cabin screen featuring real-time 360-degree SVS video makes it easy for operators to view alerts and see everything that is happening around their vehicle.



Adaptive Sensing

With its unique Adaptive Sensing technology, VIA Mobile360 HESS further boosts the safety and maneuverability of even the largest vehicle by increasing blind spot coverage whenever it makes a sharp turn.



Reverse Gear

When the vehicle is reversing, all objects detected by the system's rear camera and radar are treated as threats regardless of their trajectories, enabling the operator to take extra care when carrying out this most collision-prone maneuver.

Reliable Operation



Combining an ultra-ruggedized IP67-rated system with IP69K-rated cameras and radar, VIA Mobile360 HESS delivers reliable operation on a wide variety of heavy construction vehicles ranging from haulers, loaders, and bulldozers to concrete mixer trucks, telehandlers, and high-capacity forklifts.

Specific models that the system has been installed on include:

- **Wheel Loaders:**

CAT 972M/Mxe, CAT 972H, CAT 980M, CAT 982M, and CAT 988K, John Deere 724

- **Haulers:**

CAT 775F, CAT 775G, CAT 775F, CAT 777G, and CAT 938M, Komatsu WA500-7

- **Telehandlers:**

Extreme XR1255

vCare™



vCare™ is a suite of customer care applications and services that ensure easy VIA Mobile360 HESS deployment and maintenance, along with a host of remote support options. Its key features include:

- HESS Deployment Flow
- Asset Management
- Maintenance and RMA services
- POTA Software Upgrades
- System Health Analytics
- Real-time Uploading
- Vehicle Performance Analytics
- Vehicle Tracking
- Remote Diagnostics



VIA Mobile360 CESS

Construction Equipment Safety System



Designed for mini-sized and compact construction equipment, VIA Mobile360 CESS harnesses its smart people detection and capabilities prevent pedestrian collisions on busy building sites. To ensure that operators remain focused while behind the wheel, the system also features an optional DSS (Driver Safety System) that issues an alert whenever it detects fatigue, smoking, and phone usage.



Smart People Detection

VIA Mobile360 CESS prevent pedestrian collisions by alerting the operator whenever its people detection cameras detect someone stepping too close to their vehicle. The 3PD Package supports a 270° people detection zone using one rear and two side cameras, while the 2PD Package can be calibrated to create a zone of between 60° – 120° through its front and rear cameras.



Driver Safety System

The DSS is available with the 2PD Package. It ensures operators remain focused while operating the vehicle by notifying them whenever it detects signs of fatigue, smartphone usage, and smoking through the driver camera.



Easy Installation and Operation

The practical and robust design of the system makes it easy to install and operate. The VIA WorkX app can be used to calibrate the cameras, configure the DSS, view and download recorded videos, adjust system settings, and upgrade the system firmware.

