



YOUR GUIDE TO:

# VIA Mobile360 AI Mining Safety Kit



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Save lives and reduce the risk of accidents and equipment damage with the VIA Mobile360 AI Mining Safety Kit. Built to excel in the harshest environments, this tough and ruggedized system boosts operator situational awareness by offering a live 360-degree video stream of the vehicle's exterior. Safety can be further enhanced with its support for Blind Spot Detection, Front Collision Detection, and short range radar and ultrasonic proximity sensors.



## Smart Visual Intelligence

The VIA Mobile360 AI Mining Safety Kit enables operators of cranes, excavators, trucks and other heavy equipment to work safely in the most dangerous environments. It keeps operators aware of everything that is happening around their vehicle, while eliminating blind spots and potential collision points.

At the heart of the kit is a ruggedized VIA Mobile360 M820 in-vehicle safety system. This high-performance fanless system captures and processes high-resolution panoramic video on-the-fly using our unique VIA Mobile360 SVS (Surround View System) technology and four FOV-190° Gen-Lock cameras. Panoramic views of the surrounding environment are displayed in real-time, providing operators with the smart visual intelligence they need to maneuver their vehicle more effectively and react more quickly to unexpected safety threats.

Safety can be further enhanced with up to three FOV-40° cameras that support Blind Spot Detection and Forward Collision Warning. Dynamic Moving Object Detection (DMOD) can also be enabled to facilitate reversing in dangerous environments.

The kit's robust, high-quality cameras have undergone stringent testing and validation procedures to ensure reliable operation in even the most demanding conditions, and can be installed in flexible configurations to meet your specific usage requirements.

- Up to four FOV-190° Gen-Lock frame-stitching cameras
- Up to three FOV-40° automotive-grade cameras for ADAS (2 Blind Spot Detection; 1 Front Collision Detection)





## Rock-Solid Reliability for the Harshest Environments

To ensure absolute reliability in the harshest of environments, the system is housed in a robust, dual-layered aluminum enclosure that protects it from environmental threats such as heavy vibration, dirt, and dust, as well as intensely high and low operating temperatures, rain, and humidity. The enclosure's smart design also ensures neat and seamless cable connections to the cameras and the cockpit display.

Safeguards include:

- Dual-layered enclosure
- Internal vibration pads
- External vibration mounts
- Increased heat sinking
- IP65-rated cable glands
- IP69K-rated cameras
- IP67-rated 10.1" LCD industrial-grade LCD display

With these added layers of protection, the system will enable your team to complete longer duty cycles while also allowing the equipment to be washed down at the end of a shift without concern.

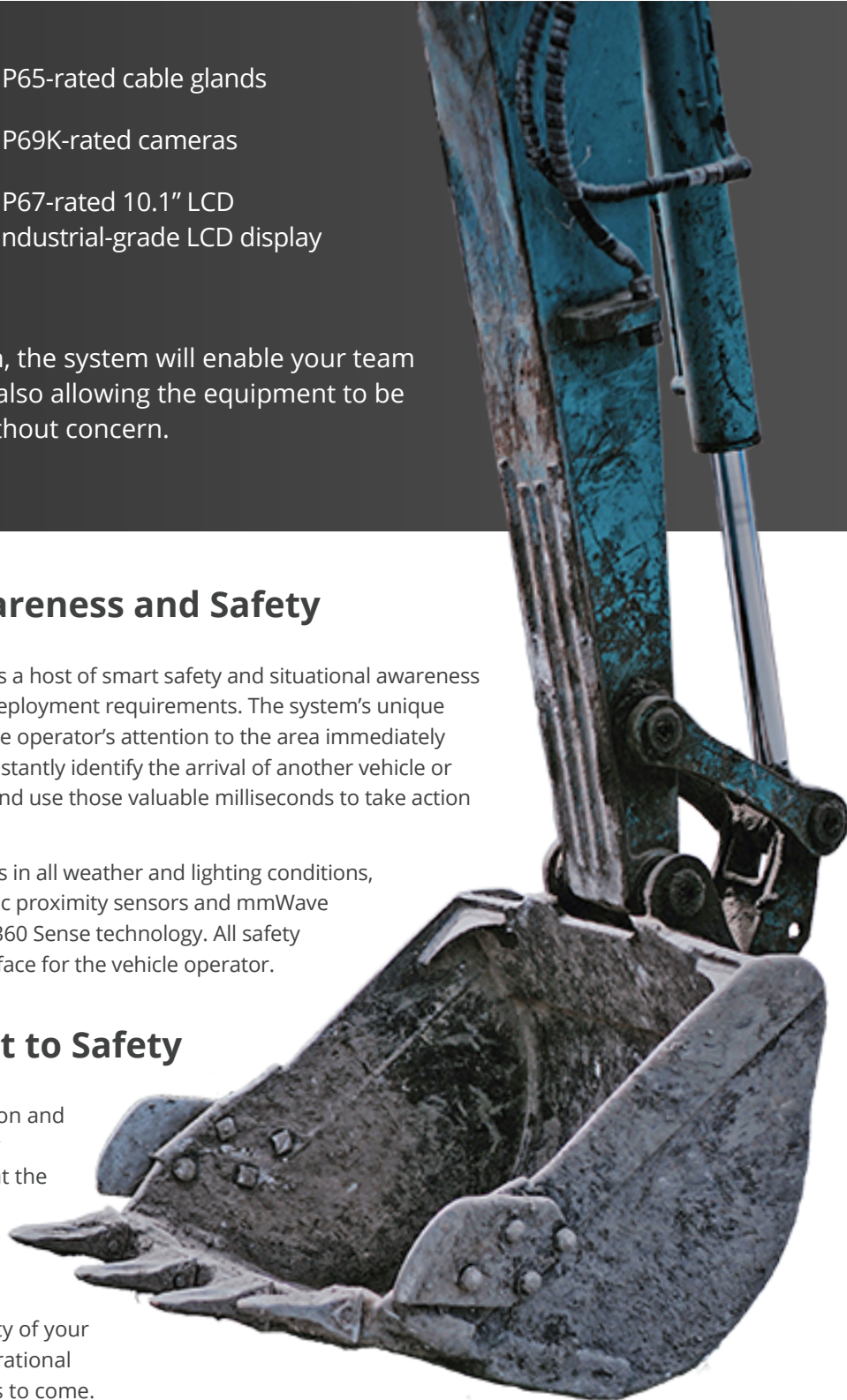
## Improved Situational Awareness and Safety

The VIA Mobile360 AI Mining Safety Kit features a host of smart safety and situational awareness applications that we can customize for exact deployment requirements. The system's unique Tri-Band Surround View is designed to draw the operator's attention to the area immediately around the vehicle. This makes it possible to instantly identify the arrival of another vehicle or person within a potentially hazardous range, and use those valuable milliseconds to take action and prevent an accident.

To facilitate the detection of potential obstacles in all weather and lighting conditions, the kit also enables the integration of ultrasonic proximity sensors and mmWave short distance radar sensors using VIA Mobile360 Sense technology. All safety alerts are consolidated in a single unified interface for the vehicle operator.

## A Long-Term Commitment to Safety

At VIA we believe that the design, customization and installation of a system is only the start of our journey with the customer. We appreciate that the needs of the customer will change over time and that the continued progress of AI and sensor technologies will mean that new solutions to problems will eventually arrive. This long-term approach means that the safety of your crew and the continued enhancement of operational performance will remain our priority for years to come.





If you are interested in how we can customize  
the VIA Mobile360 AI Mining Safety Kit to fit  
your specific needs, please don't hesitate  
to get in touch with us.

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