



**AIKO**<sup>®</sup>

2024 BROCHURE

**KmScan**<sup>®</sup>

**REDUCE UNNECESSARY  
DOWNTIME BY MAXIMIZING  
FLEET PRODUCTIVITY**

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# WHAT IS KmScan® ?

**KmScan® helps identify unnecessary stops in mining haul truck fleets caused by false positives in obstacle detection systems.**

Factors such as **sunlight reflection on certain surfaces, rocks, and other terrain elements can generate alerts even though they do not pose a real danger.** These stops result in a loss of productive time due to the need for operations personnel to check the cause of the stop and reactivate the operation of the truck line. Additionally, potential misconfigurations of Object Detection Systems (ODS) can occur.

**KmScan® is an advanced image transmission solution specifically designed for mining environments,** even in areas with limited communications. **KmScan®** combines state-of-the-art cameras, specialized electronic components, and adaptive algorithms to provide clear images, **allowing effective environment management and safe resumption of operations,** thereby optimizing operational efficiency.

## Turn every minute into effective production: KMSCAN FACILITATES THE DETECTION OF UNNECESSARY STOPS!



# KEY COMPONENTS

## KmScan® Software:

### MANAGES CAMERA STREAMING AND PROVIDES ESSENTIAL FUNCTIONALITIES

- Video streaming with PTZ control.
- Historical video recording.
- Management control and support for advanced image analysis.
- These stops result in a loss of productive time due to the need for operations personnel to check the cause of the stop and reactivate the truck line operation.
- Control and accountability of users who have performed actions in the system.
- Manual registration of events detected by the dispatcher and registration of events triggered from other systems (Road Quality, Geofences, among others).
- Extensibility and support.



## Onboard Computer - Oways Version 5:

### PERFECT INTEGRATION WITH SENSORS AND CAMERAS

- Optimized transmission for areas with limited communications. Multi-technology communication: 3/4/5G, Wifi, Ethernet, and more.
- Continuous real-time image transmission.
- Control over transmission parameters (bandwidth and channel utilization by other haul trucks) to optimize video streaming in situations where prioritizing a specific haul truck's transmission is necessary. In this case, historical videos are stored in the Onboard Computers to be sent to the Server when the transmission restriction has been overcome.
- Real-time monitoring and recording of communication channel availability and speeds, allowing process owners to know the area's communication coverage and make necessary improvements.



## Cámara Heavy Duty

### DESIGNED TO WITHSTAND MINING ENVIRONMENTS

- PTZ (Pan, Tilt & Zoom) with 360° horizontal and +90°/-90° vertical visibility.
- Monochromatic night vision with a range of up to 100 meters thanks to a powerful infrared beam.
- Automatic focus adjustment.
- Autolock to prevent changes in the point of view due to equipment vibration.
- 32x Optical Zoom.
- Optical system with a controllable wiper-based lens cleaning system and nanoparticle coating.
- Heavy Duty camera with self-locking directional system.
- Operating temperatures between -30°C and 50°C.



## MAIN ADVANTAGES

- **Increased fleet utilization:**

Through the detection of stops caused by false positives, enabling increased utilization based on decisions made by Mine Dispatch.

- **Fleet operation audit:**

KmScan® enables the review of historical events, thanks to the historical video repository, by integrating it with trigger functionalities triggered by the operation.

- **Total control of the work front:**

KmScan® provides the possibility of remotely monitoring the operational environment at all times, thanks to the camera and system characteristics.

- **Support in operational decision-making:**

Users will be able to know situations that impact their work, enabling informed decision-making.

[www.aikologic.com](http://www.aikologic.com)

**AIKO® PROVIDES A COMPLETE SOLUTION, EITHER IN CAPEX OR OPEX MODE, ALWAYS ACCOMPANIED BY ON-SITE MAINTENANCE SERVICE BY TECHNICIANS AND ENGINEERS WITH VAST EXPERIENCE IN MAJOR MINING OPERATIONS.**