



OmniPro[®]

Collision Avoidance System

for Mining & Industrial
Mobile Equipment



- OmniPro[®] is a camera-based collision avoidance system that uses Visual Artificial Intelligence (V.A.I.) to detect people and objects, such as stop signs, within a mobile equipment unit's projected travel path and alerts the operator of their presence.
- Workers do not wear a location device.
- Operates as an independent warning system or can be machine integrated.
- Records and stores zone breach incidents with photo and time-stamp.
- Operates up to three-cameras for a wider coverage area. Each camera has a 120° field-of-view.
- Cloud Reporting System provides 24/7 access to software tools, e.g., dashboard, with real-time metrics and analytics.
- Plug-and-play design for easy installation, set-up and operation.
- Programmable alert zones match your operating environment.
- Rugged design for longer life in high-vibration industrial environments.
- In two-camera systems, OmniPro will auto-switch to only monitor the vehicle's direction of travel (reduces nuisance warnings).

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OmniPro[®] Features

- Utilizes audio and/or visual operator alerting
- 3 output relays 5A, switching voltage 277VAC, 30VDC Max
- 2 Optoisolated sourcing inputs 5-30VDC
- 2.4-802.11 dual band Wireless Lan
- 2.4-802.15.24 Zigbee for single or mesh send and receive
- Bluetooth 4.2/BLE
- 3-axis accelerometer
- Ethernet port 10/100/1000 (gigabit)
- HDMI port
- 1 USB 3.0 port
- 10-pin quick connect port for power and IO
- External power LED indication
- Tempered glass lens cover
- Mounting bracket can rotate 180°
- For indoor or outdoor usage



OmniPro[®] Cloud Reporting System

A web-based application that provides 24/7 access to software tools, e.g., dashboard, with real-time metrics and analytics

Breach notification and reporting

- Full-data capture with data analysis
- Average daily breaches per machine; trending breaches over time
- Access to event graph with images time-stamped for Alert and Warning Zone breaches
- Can filter by Zone type
- Can sort by type of event: person, fork truck, car, etc. SMS or text messaging alerting available if an event occurs

Benefits

- Tracks safety and performance
- Can identify accident risk areas
- Identifies the most dangerous hours and days
- Provides near-miss reporting with location identified and images time-stamped



OmniPro[®] is a registered trademark of Matrix Design Group, LLC



OmniPro[®] Specifications

Dimensions (H x W x D) - In (H x W x D) - mm	11.0 x 4.75 x 4.25 279.4 x 120.7 x 107.9
Mounting	Mounting bracket provided. Accepts standard RAM mount base hole pattern.
Weight (approx.)	6.00lbs [2.72kg]

FCC ID: MCQ-S2CTH, FCC ID: 2ABCB-RP14B, FCC ID: 2ADUTL6PAU06
CONTAINS: IC: 1846A-S2CTH, IC: 20953-RP14B
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. This Class A/B digital apparatus complies with Canadian ICES-003

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