

# OmniPro<sup>®</sup> Vision AI

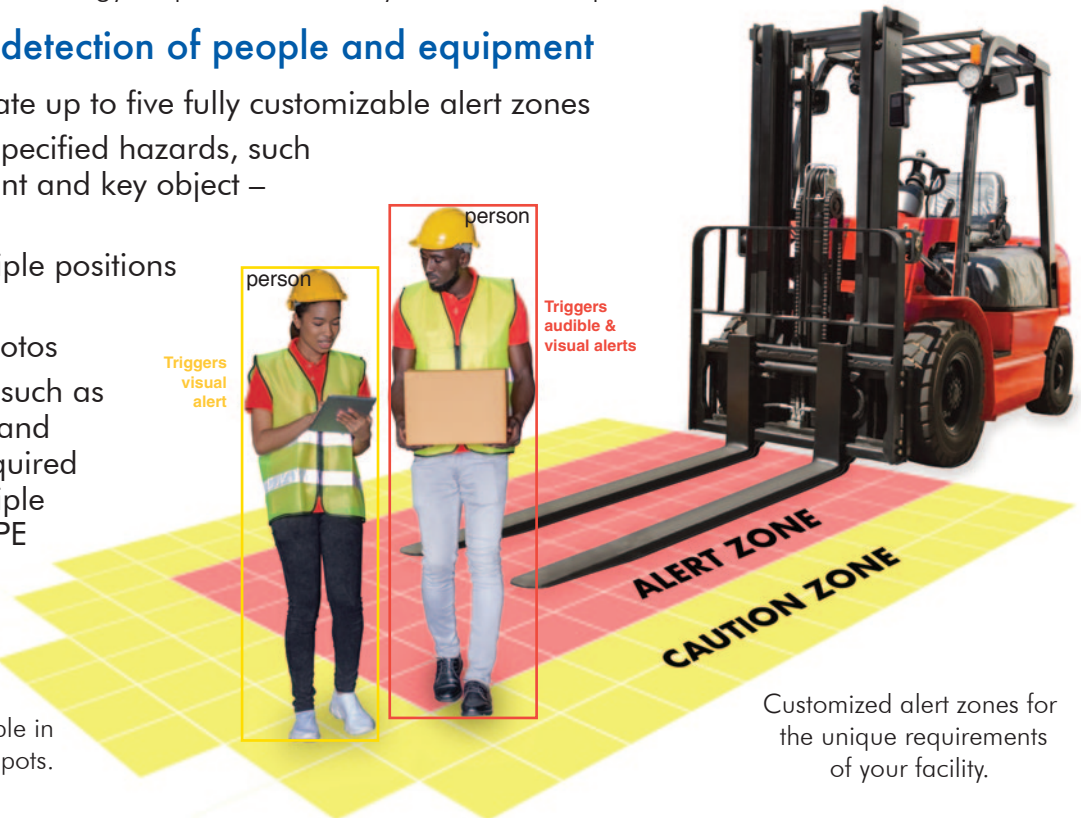
## COLLISION AVOIDANCE SYSTEM



When a one-second error can mean the difference between a near miss and a SIF (serious injury or fatality), you need the most advanced collision avoidance system working for your team. OmniPro<sup>®</sup> Vision AI's award-winning technology helps reduce facility incidents with powerful features.

### Accurate, high-speed detection of people and equipment

- Each camera can generate up to five fully customizable alert zones
- Identifies and alerts on specified hazards, such as pedestrians, equipment and key object – no tags required
- Identifies people in multiple positions and wearing PPE
- Cloud Reporting with photos
- Minimal nuisance alerts such as pedestrians, equipment and key objects – no tags required
- Identifies people in multiple positions and wearing PPE
- Cloud Reporting with photos
- Minimal nuisance alerts



OmniPro “sees” people in the operator’s blind spots.

Customized alert zones for the unique requirements of your facility.

### Which Safety Challenges Apply to Your Operation?

These are the most common reasons we get inquiries about OmniPro Vision AI

- Danger Points, e.g., blind spots and sharp-turn corners
- Narrow Aisles
- Fast-Paced Warehouses
- High Traffic Zones / Heavy Facility Workflow / Crowded Work Spaces
- Busy Shift Changes
- Complacent Operators
- Large Containers with Blind Spots
- New & Inexperienced Workers
- Fatigued Workers, especially end-of-shift and/or 3rd-shift workers
- Experienced a Pedestrian-Involved Incident
- Experienced a Serious Injury or Fatality



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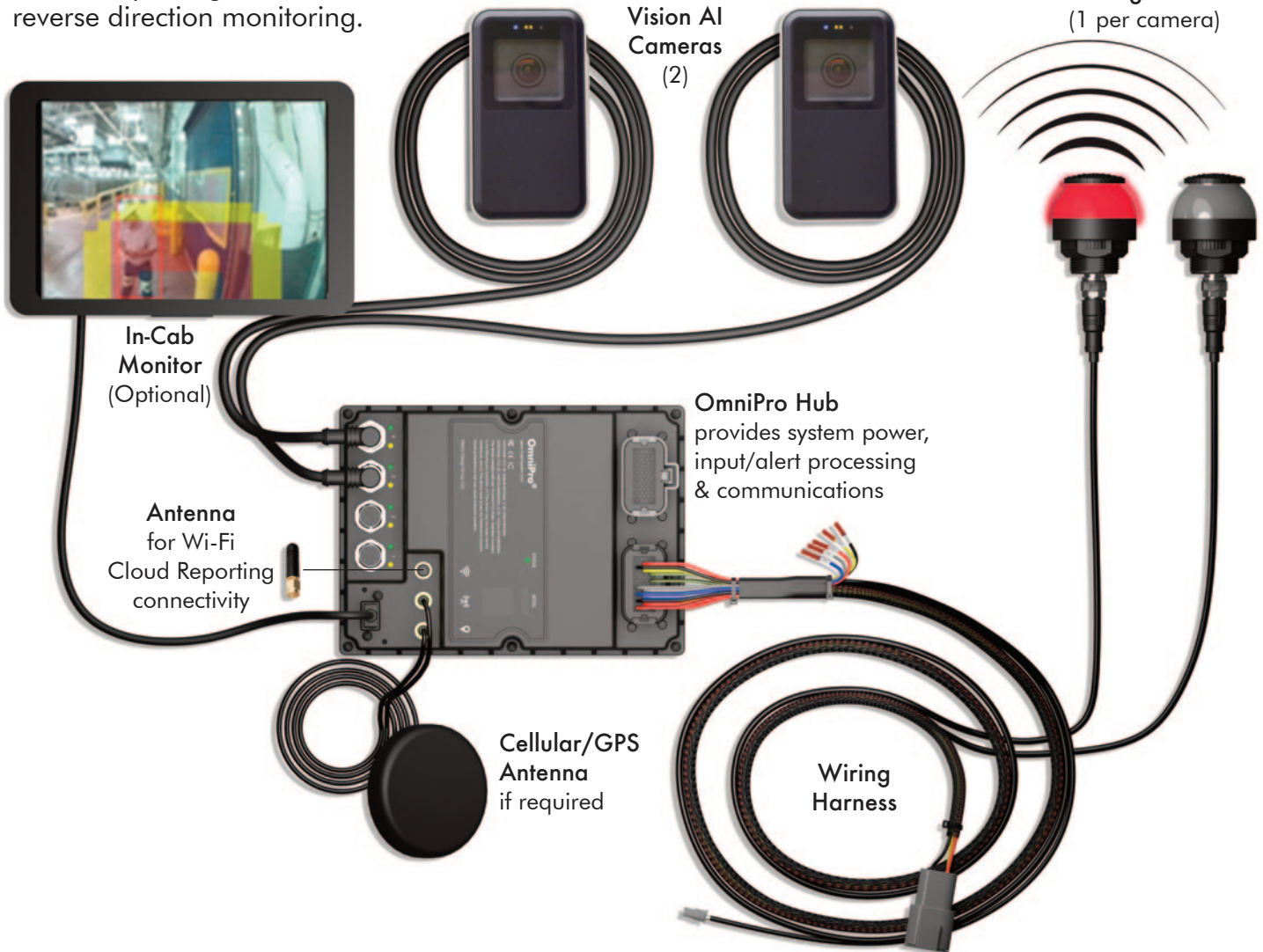
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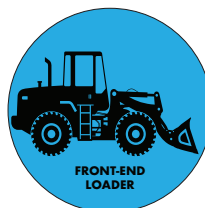
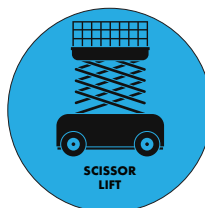
## OmniPro Vision AI Hardware Package

Standard package for forward and reverse direction monitoring.

Visual & Audible Alerting Devices  
(1 per camera)



OmniPro Is Easy to Install and Operate on Any Size or Type of Mobile Equipment at Your Facility





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### Features & Benefits



#### Vision AI Camera

- Compact and water/weather resistant – IP67-rated
- Alert zones that can apply to different objects and perform various actions
- Time of Flight (ToF) sensor reports if a camera is blocked or obstructed
- Ambient light sensor detects if the vehicle is in low-light conditions or if it transitions from light to darkness
- Infrared (IR) Cut Filter for low-light support
- Gorilla® Glass lens cover



#### OmniPro Hub

- Designed to minimize false positives and nuisance alerts
- Can identify pedestrians in any posture, including standing sideways, crouching, kneeling and partial view, as well as people wearing PPE
- Cameras auto-switch to monitor the direction of travel
- Simple plug-and-play set-up and troubleshooting
- Built-in web UI interface eliminates the need for software on local laptops/PCs and provides a single configuration point of all connected devices
- Easily integrates with most OEMs
- Low maintenance with wireless future upgrades
- Advanced system architecture accommodates future sensors and devices
- Operates up to four cameras
- Visual and audible alerts
- Mobile or fixed cameras: intersection control, safety doors, pedestrian access
- Rugged design – IP67-rated
- Multiple I/O connections – five digital inputs and five relay outputs
- Wide operating voltage of 12-48 VDC



#### Reporting System

- OmniPro Vision AI's desktop reporting provides authorized users with 24/7 access to software tools and a dashboard with real-time metrics and analytics.
- Records and stores zone breach incidents with photo and time-stamp
  - Pre-event and post-event image capture capabilities
  - Provides real-time, full-data capture with analysis: average daily breaches per machine; trending breaches over time; event graphs
  - Facial blurring (optional)
  - Data can be accessed on the system locally for up to 30 days. Additionally, data accessed over Wi-Fi or remote through the cellular cloud 24/7/365 can be reviewed for an extended period of time.



#### Options

- In-cab monitor
- Machine integration – Slows machine (Yellow Zone Alert) or deactivates accelerator pedal (Red Zone Alert)
- Mast height detector – deactivates the throttle when mast is raised past a pre-set height.



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**Matrix can work with you to create a system that's tailored to your facility**



*"After we installed OmniPro on our forklift fleet, we noticed our drivers changed their driving patterns to avoid areas with higher concentrations of people to prevent the audible alert."*

- Safety manager of major US paper products manufacturer





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## Matrix Design Group LLC

### Company

Headquartered in Newburgh, Indiana, Matrix is a wholly owned subsidiary of Alliance Resource Partners, L.P. Since 2006, our core business has been industrial safety and providing operations-friendly applications that meet evolving industry regulations.

### Experience

Matrix has been producing proximity detection/collision avoidance technology since 2006. Safety technology is our core competence.

### Team

Matrix has 60 engineers on staff who are always working to improve our products. We were early adopters of artificial intelligence in safety products.

### Support

Matrix is an industry leader in service and support. We have a large North American service group as well as certified third-party technicians to support OmniPro Vision AI.

### Online Resources

Visit the  
Matrix  
Website

Visit the  
OmniPro  
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Page

Visit the  
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Page



## Help make your operation safer!

Learn more or schedule a demonstration

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