

## 6 Camera Installation



### Automatic Collision Avoidance Integration

#### SLOW and STOP Autonomously When People are Detected or Collision is Imminent

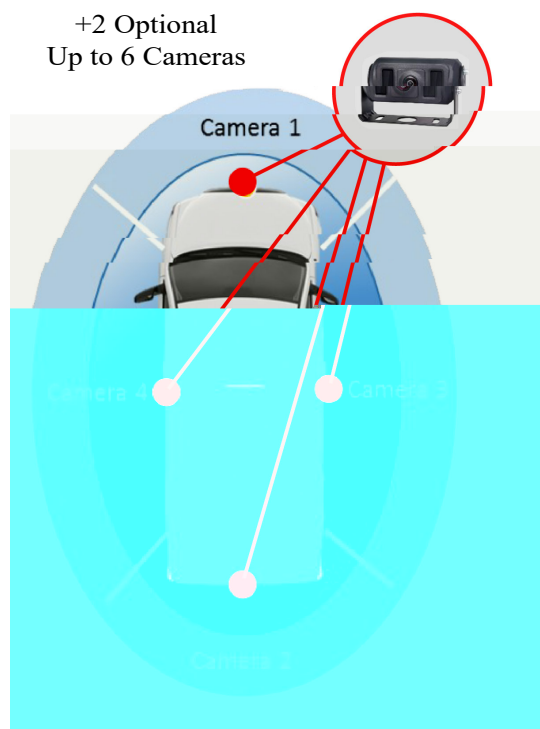
When people, other vehicles or equipment are detected by the AI cameras, and are in danger of potentially colliding with the equipment, the autonomous system will instantly take control if the operator fails to intervene.

PROVIX Equipment Control System can override operator input to disconnect throttle and apply braking to stop equipment accidents before they occur.

Overrides for close proximity work are permitted, and all video and machine actions are recorded on the integrated DVR for review, training and operator awareness.

Supervisor notification options are available if Wi-Fi or cellular connectivity are established.

### Camera Placement



## PROVIX 360° AI PERSON DETECTION CAMERAS



### WHATS INCLUDED

- 7 or 10 Inch Monitor (Optional)
- 4-6 Cameras (Optional)
- DVR

### DESIGNED FOR

The 360° camera system is designed to be compatible with on/off road vehicles and equipment, eliminating blind spots in every industry.

# 360° System Components

## 4-6 CAMERAS



## DVR



## 7" OR 10" MONITOR



# System Features

- Wi-Fi Video Uploading to the Cloud Server
- Cell Phone Mobile Access
- Real Time Access to Live Video Feed
- GPS Tracking with a Live Map Interface
- Person Detection System (with audible and visual alerts)
- DVR Included
- 4-6 Cameras can be Included in the System
- 7 or 10 inch Monitor

# System Benefits

- Increased Safety
- Reduced Accidents
- Eliminates Blind Spots
- Lower Maintenance Costs
- Efficient Personell Management
- Helps Train Driver Operators
- Eliminate Fraudulent Litigations

# PROVIX Radar Integration



is built for obstacle detection while in reverse or park, & can be optionally installed on all sides of the vehicle for 360 detection. The system uses millimeter wave technology allowing great performance in any weather condition.

- Buzzer Alarm
- 5 Configureable Detection Zones
- Wi-Fi Connection Supported for Configuration Options
- All-weather Operations
- 1080P | 77GHz
- Anti-vibration

# Specifications

**Dimensions:** 7 inches or optional 10 inch monitor  
**Resolution:** 1024 x 3 (RGB) x 600  
**Contrast:** 700:1 (7 Inch) or 600:1 (10 Inch)  
**Brightness:** 600 cd/m<sup>2</sup>  
**Aspect Ratio:** 16/9  
**Display Model:** 3D/2D views switching freely

**Camera Input:** Max. 4CH x 1080p (25/30FPS)  
**Power Supply:** 10-32V  
**Power Consumption:** Max. 25W  
**Loudspeaker:** 1W/8Ω  
**Operating Temp:** -30°C ~ 70°C, RH 90%  
**Storage Temp:** -30°C ~ 80°C, RH 90%

# Installations

Our professional installation team will come to you and install the PROVIX 360° AI system, with clean cable management, ensuring there are no loose cables and that the system operates flawlessly.

We can also talk to your installation team and help walk them through the installation process and answer any questions they may have.



# How it works

AI-360 cameras provide a computer-generated 360° aerial view image of the equipment for complete situational awareness. The split-screen image shows all the surrounding area and the active camera based on direction of travel.

Operators can view one screen and see a complete picture of anything around the equipment. A side benefit to AI cameras is that FCW or Forward Collision Warning is automatically enabled as is the LDW or Lane Departure Warning for any haul roads with surface marking.

Each safety system is outfitted with 4, 5 or 6 PROVIX 360-AI cameras based on the size and configuration of the equipment. AI-camera detection zones can be programmed to detect and provide warning at distances of up to 20 meters in front of and on each side and up to 12 meters behind the vehicle. When a pedestrian or vehicle is detected in the zone, all four corners of the monitor will flash red and sound an alarm.

The PROVIX 360° AI system can also activate external alarms, as well as lighting and other warning systems to ensure that pedestrian personnel are aware of their proximity to the mobile equipment. When implemented in conjunction with PROVIX CAS, the equipment can be autonomously controlled to disconnect the throttle and apply brakes to avoid a collision. Detection of a person in the programmable Red Zone can allow the CAS to take over control should the operator fail to react.

Contact PROVIX to learn more about the benefits of AI and 360° aerial view cameras and CAS systems for stopping equipment before accidents occur.



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