



# PlantShield 360

A Human Form Recognition System

# What is PlantShield 360?

PlantShield 360 is a Human Form Recognition System using AI Cameras (HFR Camera System) to help reduce the risk of collisions between plant machinery and pedestrians. It detects people around the vehicle and gives clear, in-cab warnings so operators can react quickly.



## Where it's used

Ideal for high-risk, mixed-traffic environments such as:



Construction sites



Quarries



Waste & Recycling  
Facilities



Logistics Yards &  
Industrial Sites

## How it works

- AI Cameras monitor around the machine for pedestrians.
- A person is detected, and detection zones trigger warnings.
- The operator receives visual and/or audible alerts depending on movement status.
- An in-cab LED display shows where the pedestrian is and how close they are.



## Key Features

- Up to **4 AI cameras** for 360° coverage
- Configurable **detection zones** (set to match your site and vehicle):
  - Outer “Yellow Zone”: early warning
  - Inner “Red Zone”: urgent warning
- Escalating **audio-visual alerts** for clearer operator response
- In-cab LED proximity display shows **pedestrian position** and distance
- Smart alert logic using a **G-sensor**:
  - When moving: audible + visual alerts
  - When stationary: visual-only alerts



## Upgrade: “Thumbs Up” Safe-Approach System

### What it is

The Thumbs Up system adds a clear “safe-to-approach” confirmation step between the operator and a pedestrian (banksman/spotter/site worker). It helps prevent someone from walking into a danger zone without the operator knowing.



### How it works

1. The pedestrian approaches and is detected by the AI camera system.
2. The operator receives an in-cab alert and sees where the person is on the display.
3. The operator only gives the “Thumbs Up” confirmation when it’s genuinely safe.
4. The pedestrian gets a clear visual signal that the operator has seen them and it’s safe to proceed.



# PlantShield 360

Part Number: PSS - 4



## Parts

- 4x External AI Camera (*PSS - EFC*)
- 2x 3m Cables for Camera (*PSS - CC3*)
- 2x 5m Cables for Camera (*PSS-CC5*)
- 1x In-cab Display (*PSS-DISP-F*)
- 1x Power Cable (*PSS-PC2*)
- 1x Display Cable (*PSS-DC2*)
- 1x Control Unit (*PSS-ECU-4*)
- 1x Camera Input Cable (*PSS-CAM-IN4*)
- 1x Camera Output Cable (*PSS-CAM-OUT4*)
- 4x Camera Brackets (*PSS-CMB*)
- 1x Display Loom 3m (*PSS-DISP-MC*)
- 1x Gyroscope /GPS (*PSS-GYRO*)

## Optional add-ons (upgrade as needed)

- DVR recording
- LiveDrive streaming (remote access to footage/data)
- Email/SMS alerts
- Driver-facing camera
- "Thumbs Up" safe-approach system (digital safe-to-approach confirmation workflow)



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