

DotNetix
making machines see

SAFEYE

MAKING
MACHINES
SEE



ZERO HARM.
STAY SAFE, STAY COMPLIANT.
SAFETY FIRST! GET IT HOME SAFELY!
ENGINEERED FOR SAFETY, DESIGNED FOR RELIABILITY.
SAVING LIVES THROUGH AI.

**Collision Prevention Systems
for Mobile Machines**

Pedestrian and Machine Safety

SAFEYE is an advanced stereoscopic machine vision system that detects and differentiates between pedestrians, industrial machines like dump trucks, excavators, forklifts, cars, and other machines typically found on industrial sites.


With the most advanced artificial intelligence (AI) built into **SAFEYE**, operational safety is improved while employees and stakeholders acknowledges safety as a valued and important priority.


Designed to operate in most harsh environments.

SAFEYE only generates alerts to operators when absolutely required. Thus avoiding distraction alerts which are not relevant.

Environmental











 Wide temperature specification
-40°C to +70°C.

 Waterproof and dustproof
(IP69K sensor, IP65 Display and Controller).

 Compatible with all types and brands of industrial vehicles (stacker and reclaimers, forklifts, wheel loaders, excavators, dumpers and front-end loaders).

Features

No RFID tag required for pedestrians, reducing cost.

-  Low light sensitive machine vision sensors with wide field of view.
-  Ultra-rugged design for tough environments.
-  Improved operator awareness.
-  Improves safety around industrial machines.
-  Multiple machine vision sensor configurations and options for any type of machine installation.
-  Customizable detection zones and three distance configuration zones.
-  Compliance to DMR regulation 8.8(2)(d), 20.9.2, 20.9.1, 8.8(2)(c), 8.10.2.1, 8.10(8), 20.7.3, Section 10 MHSA.
-  Level-9 Compliant according to EMESRT and MOSH requirements
-  ISO 21815 Compliant
-  Fail to safe

Accurate pedestrian detection.

Suitable for surface and underground applications.

Void and berm detection with warning included.

Features

- 100 Hours of video recording and event logs.
- Remote access and configuration through **CLEARVIEW**.
- Video monitoring via **CLEARVIEW**.
- **CLEARVIEW** offers remote tracking and near-miss monitoring.
- Accurate machine detections including ADTs, rigid dump trucks, excavators, dozers etc.

Applications

MINING OPERATIONS

- Detecting and alerting operators about the presence of workers near heavy machinery.
- Preventing collisions between vehicles and equipment in mining sites.
- Enhancing safety in underground mining by detecting personnel and machinery in low-visibility conditions.

CONSTRUCTION SITES

- Monitoring construction zones to prevent accidents involving cranes, bulldozers, and other heavy equipment.
- Ensuring safety during excavation and demolition activities by detecting nearby workers.
- Enhancing safety in high-traffic areas where multiple machines operate simultaneously.

INDUSTRIAL MANUFACTURING

- Preventing accidents in warehouses and manufacturing plants by detecting workers around automated guided vehicles (AGVs) and forklifts.
- Monitoring assembly lines to ensure the safety of workers operating in close proximity to robotic arms and other machinery.
- Enhancing safety in material handling and logistics operations.

PORT AND SHIPPING YARDS

- Detecting personnel around container handling equipment, such as gantry cranes and straddle carriers.
- Preventing collisions between vehicles and workers in busy port environments.
- Enhancing safety during loading and unloading operations.

AGRICULTURE AND FORESTRY

- Detecting people around tractors, harvesters, and other agricultural machinery.
- Preventing accidents in forestry operations by monitoring the presence of workers near logging equipment.
- Enhancing safety during planting and harvesting activities.

OIL AND GAS INDUSTRY

- Monitoring drilling sites to prevent collisions between vehicles and machinery.
- Ensuring safety in refineries and processing plants by detecting personnel near hazardous equipment.
- Enhancing safety during transportation and logistics operations within oil and gas facilities.

RAILWAY AND TRANSPORTATION

- Preventing accidents by detecting personnel on or near railway tracks.
- Monitoring train yards to ensure safety during shunting and maintenance activities.
- Enhancing safety in bus depots and maintenance facilities by detecting workers near vehicles.

WASTE MANAGEMENT AND RECYCLING

- Detecting workers around waste collection trucks and recycling machinery.
- Preventing accidents in waste sorting and processing facilities.
- Enhancing safety during waste collection and transportation operations.

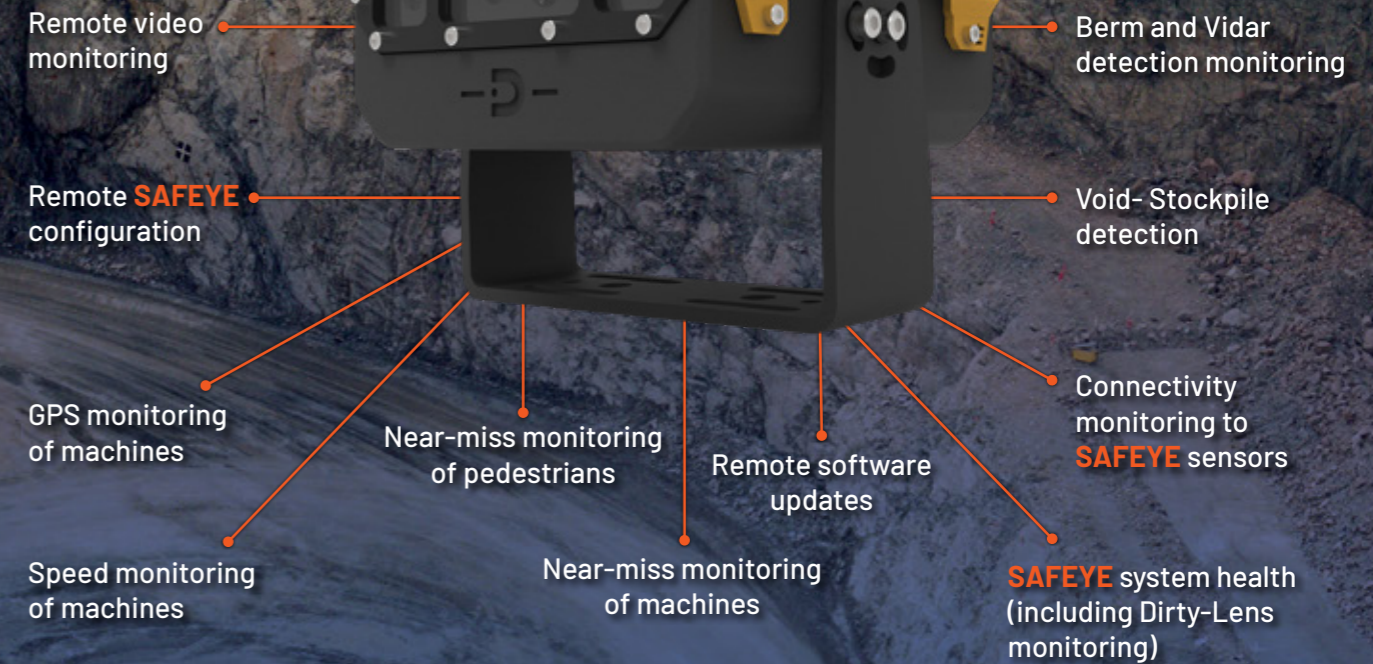
UTILITIES AND POWER PLANTS

- Monitoring power plants and utility facilities to prevent collisions between workers and machinery.
- Ensuring safety during maintenance activities in high-risk areas.
- Enhancing safety in substations and transmission line sites.

AVIATION AND AEROSPACE

- Detecting personnel and equipment around aircraft during ground operations.
- Preventing accidents in hangars and maintenance facilities.
- Enhancing safety during aircraft towing and parking activities.
- These applications highlight the versatility and importance of the **SAFEYE** collision avoidance system in improving safety across various industries.

Features



CLEARVIEW

- **CLEARVIEW** is a remote analytics dashboard for tracking the position of machines, measuring interactions between pedestrians, machines and objects.
- **CLEARVIEW** provides an easy and intuitive dashboard that allows you to monitor a complete fleet of industrial machines.
- **CLEARVIEW** offers a valuable online tool to improve safety and traffic management on an industrial site.
- **CLEARVIEW** supports a complete alarm terminal to keep track of safety problems.



SAFEYE



NCXEYE



**ARGOS
MOBILE**



ARGOS



CLEARVIEW

Contact Us:

+27 (0) 82 314 8116
info@dotnetix.co.za
www.dotnetix.ai
DotNetix (Pty) Ltd
1 Viceroy Link, Route 21
Corporate Park, Irene,
Pretoria, 0178
South Africa

SAVING LIVES
THROUGH

AI

Cutting edge technology
meets **unmatched safety**
for a secure tomorrow.