

NEXPLORE
SAFETY

**AI proximity detection
solution designed for
the construction
industry**



Nexplore drives innovations that can be best described as the digitalization of the construction industry.

“We are solving tangible problems by combining extensive hands-on experience with the latest technologies to help our users achieve increased quality and efficiency”.

OUR PRODUCTS

Nexplore is creating innovative software and solutions designed to facilitate the day-to-day work across phases of construction projects:

NEXPLORE MINERVA

Manages and controls supply chain. Tracks all subcontractors and supplier data.

NEXPLORE ENERGY METERING

Digital solution to collect real-time sensor data.

NEXPLORE CONCRETE

Digital solution for concrete ordering, delivery, quality control and documentation.

NEXPLORE DELIVERIES

Manages and coordinates all deliveries to site.

NEXPLORE PRODUCTIVITY

Digital tool to track all status of construction progress in a single view.

NEXPLORE VARIATION MANAGER

Digital platform to manage construction project changes in a single view.



PRODUCT: NEXPLORE SAFETY

Nexplore Safety is the latest flexible and scalable vision proximity safety solution with AI technology to reduce accidents on construction sites.

- ✓ Proximity audible and visual warning system that reduces vehicle-personnel collisions with plant.
- ✓ Powered AI toolbox that uses a mounted camera on mobile plant to detect people and other vehicles.
- ✓ The system supports up to 8 ultra-wide (180°) HD cameras per unit to ensure zero blind spot coverage.
- ✓ Cameras work in various lights and weather conditions and support a range of vehicle types.

Real-time warning solution that ensures safety around mobile plant, helping to avoid:

- Mobile plant injuries and deaths in high-risk work activities.
- Administrative controls or basic hard controls such as movable barriers, meaning there is reliance on an individual's behavioral compliance.

NEXPLORE SAFETY



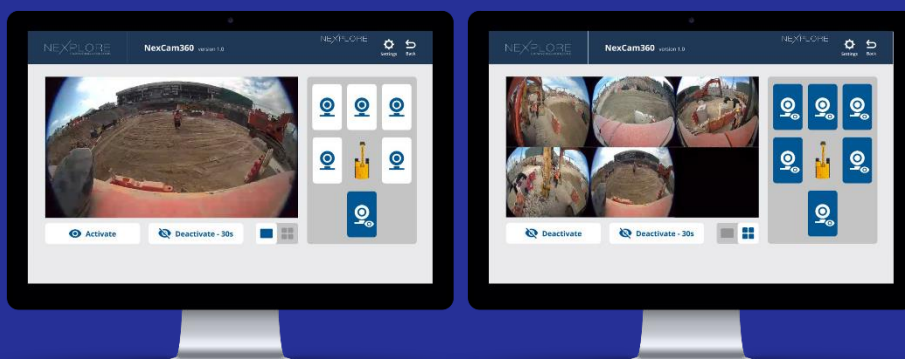
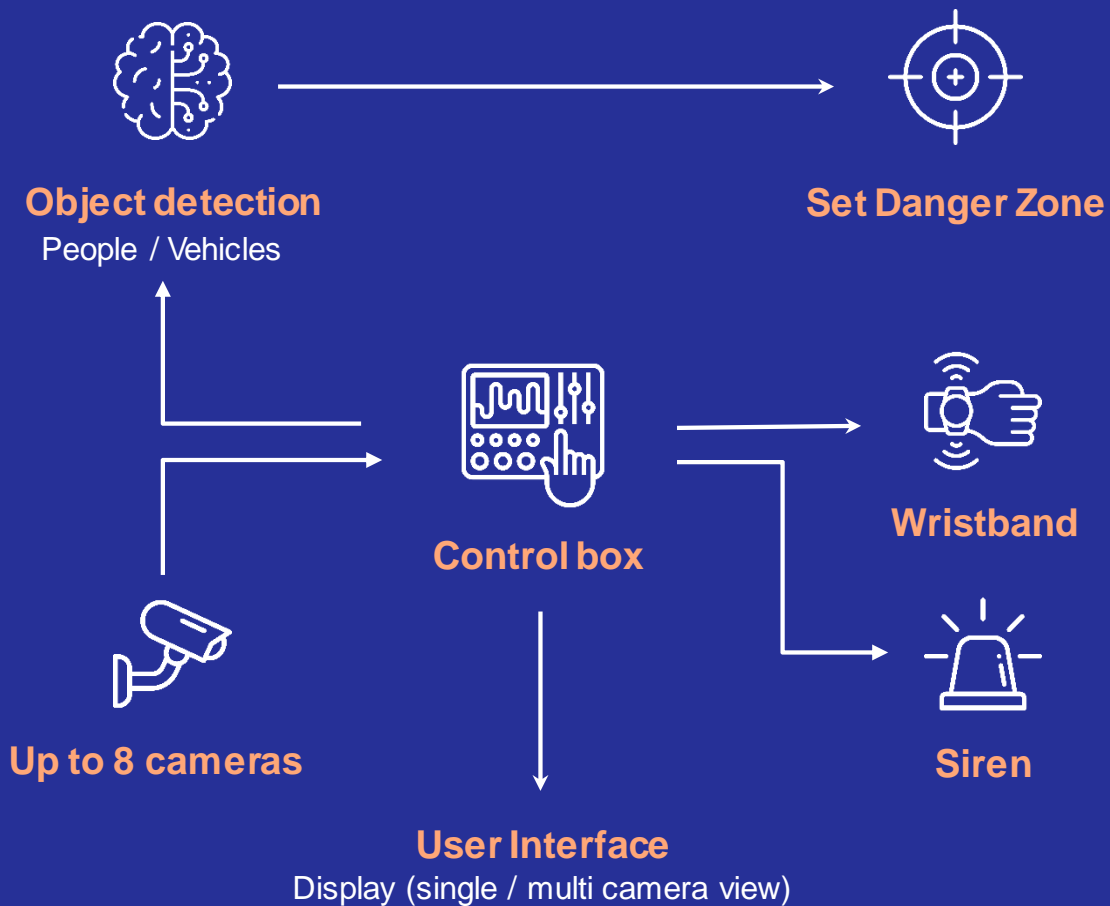
The Process

Why

To increase safety of high-risk work activity which historically has been the root cause of deaths and serious injuries across the construction industry and to avoid administrative controls.

How

Nexplore Safety offers a solution designed and trained for the construction industry which mitigates safety risks around mobile plant and reduces the reliance on human supervision.



How it works

01

Warning System

Scans, monitors and records the surrounding area of the mobile plant. When people or vehicles have breached the exclusion zone, the system:

- Sends a loud siren alert to passer-by.
- Triggers wristband vibration within 50 milliseconds.
- Displays alert to the operator on screen with 360° view.

02

Feedback Unit

Nexplore Safety supports multiple feedback systems including haptic wristband, visual and audible siren alerts and tablet display.

03

Cameras

Water and dust resistant, supports wide angles and works in low light and extreme weather conditions (daytime, nighttime, rainy and dusty). Switch on/off security control available.

04

Power

Nexplore Safety is powered by the mobile plant's auxiliary power supply. In cases where insufficient power is provided, a rechargeable power bank can be used to operate for up to 8 hours.

05

Detection

Nexplore Safety detects humans and vehicles when they breach the configurable exclusion zone. System alerts the operator to act accordingly.



08

Product Warranty

Nexplore Safety offers a standard 12-month manufacturers warranty from defects. Damage from the result of accident, wear and tear and not taking relevant care of the product will not be covered.

07

Mounting & Installation

System offers multiple damage free removable mounting options. It supports various types of vehicles: forklift, excavators, loaders and trucks. Easy installation within 15 minutes.

06

Records

Video recording capability available. Data can be used for on-going training and analysis purposes.

Benefits



Holistic

Proximity audible and visual warning solution that enables more control and safety around mobile plant and give greater confidence to cab driver in operating machinery.



Transparent

Nexplore Safety reduces administration efforts as everything is digitalized and recorded for on-going and future training, leading to higher productivity and better control and communication, saving cost and time.



Safety

This technology based on visual recognition using artificial intelligence helps prevent people from being involved in collisions with heavy machinery on construction plants.



Aligned

Easy installation and flexibility; installation and calibration can be completed in as fast as 15 minutes*, and supports the usage of Nexplore Safety on at least 3 different types of machinery.

*Depending on vehicle type.





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