

Operational Safety Assurance | BSD Blind Spot

Detection System

Real-time identification of nearby personnel, vehicles, and obstacle risks during excavator operation.

System Overview

The BSD Blind Spot Detection System is designed for complex construction machinery scenarios. Through cameras, perception algorithms, and an in-cab terminal, it monitors blind spots around the equipment in real time and identifies potential risks. Based on the position and distance of nearby personnel, vehicles, and obstacles, the system provides visual alerts and multi-level warnings, helping operators stay aware of the surrounding environment.

See the surroundings clearly. Work safer and more under control.



01

Real-Time Blind Spot Awareness
Real-time monitoring of rear, side, and blind spots via cameras and sensors.

A yellow excavator is shown with a worker in a yellow vest. The excavator's blind spots are highlighted with concentric circles in green, yellow, and red, indicating increasing risk levels.

02

Personnel and Obstacle Recognition
Detects people, vehicles, and obstacles with location and motion analysis.

A yellow excavator is shown with a worker in a yellow vest. The worker is highlighted with a red bounding box, indicating detection.

03

Multi-Level Warning Alerts
Provides screen and audio alerts when risks enter the danger zone.

A yellow excavator is shown with a worker in a yellow vest. The excavator's blind spots are highlighted with concentric circles in green, yellow, and red, indicating increasing risk levels.

04

Flexible Installation for Multiple Scenarios
Applicable to excavators, loaders, pavers, rollers, and mining equipment.

A yellow excavator and a yellow roller are shown, both equipped with the BSD system. The excavator's blind spots are highlighted with concentric circles in green, yellow, and red, indicating increasing risk levels.



Reduce Blind Spot Collision Risks and Improve Jobsite Safety



Suitable for municipal works, mining, road construction, industrial parks, and other complex machinery scenarios.



Reduce Collision Risks

Detect nearby people, vehicles, and obstacles to reduce blind spot hazards.



Improve Operation Safety

Provide visual prompts and graded alerts for faster risk response.



Reduce Manual Monitoring

Assist safety staff and operators with real-time surrounding risk monitoring.



From Precision Guidance to Safe Operation

X5 PRO provides real-time guidance for bucket position, design deviation, excavation depth, and slope. BSD detects nearby people, vehicles, and obstacles. Together, they improve precision, efficiency, and jobsite safety.



See More During Construction, Work Safer and Smarter.

SineLynx Intelligent Construction Machinery Solutions

BSD Blind Spot Detection System

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