

Intellicrane Vision AI for Cranes

Smart Cameras and Edge AI for Safer & Smarter Crane Operations

Intellicrane gives crane operators and automated crane systems a clearer view of the working area. It helps cranes detect key objects, identify risks, understand process conditions and make safer decisions in real time.

What We Help You Achieve

Intellicrane helps cranes see risks, guide operations, and turn site events into actionable data for smarter crane operations.



Clearer operator visibility

Help operators see the hook, load, lifting point and working area more clearly.



Safer Lifting Decisions

Identify hook status, lifting alignment and off-centre lifting risks before hoisting.



Timely Risk Alerts

Detect personnel, vehicles and obstacles in crane working zones.



Reliable Crane Automation

Recognise material type, position, shape and grabbing points for automated operation.



Actionable Operational Data

Turn crane operation events into structured data for management and process improvement.

How it works



Smart Cameras



Edge AI Box



PLC



Driver Display



Management Platform

The system processes visual data locally and delivers real-time alerts, positioning data and operation records to the right users or systems.

Applications

Steel plants

EOT cranes

Copper smelters

Gantry cranes

Aluminium plants

Scrap handling

Shipyards

Bulk material handling

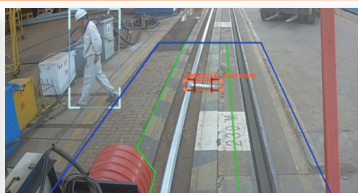
Our Solutions

Copilot — AI Driver Assistance

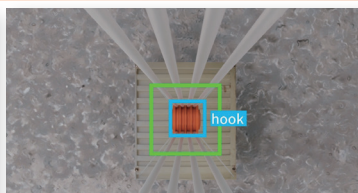
Reduces blind spots and alerts operators to lifting risks.



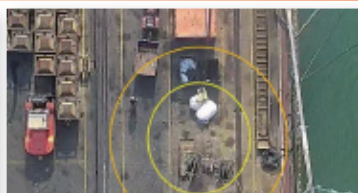
Crane hook tracking



Gantry crane anti-collision



Off-Centre Lifting Prevention



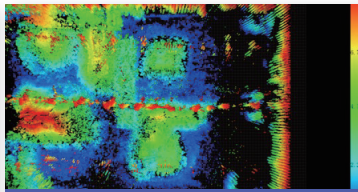
Crane Lifting Zone Safety

Autopilot — Vision for Automated Crane Operation

Process-aware vision that identifies key objects and guides cranes through automated operations.



Material Type & ID Recognition



3D Bulk Material Profiling



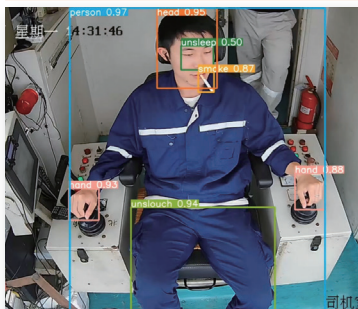
Material Boundary Detection



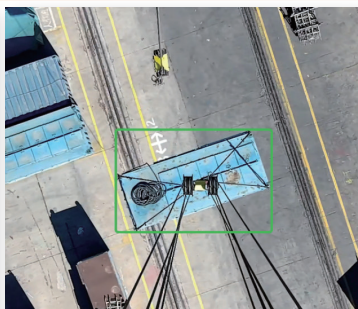
Truck Positioning

Insights Hub — Operational Data Intelligence

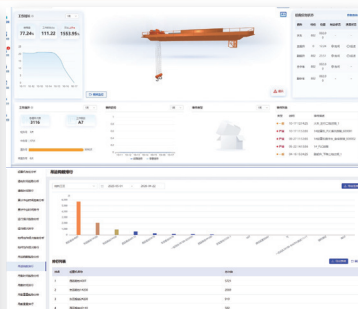
Turns crane operation events into structured data for management decisions and continuous process improvement.



Unsafe Operation Detection



Loading Recognition



Lifting Record Analytics



Alarm Event Logging & Analytics

Key Value



Reduce collision risks



Improve operator visibility



Support crane automation



Reduce manual intervention



Enable safer lifting operations

AI Vision Solutions for Safer Lifting

Tell us your crane type, site layout and operation scenario, we will recommend the right AI vision configuration for your project.



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