

OpenBlue



Ensure worker safety at scale with AI

OpenBlue Worker Safety Advisor

Workplace safety is a complex challenge

Ensuring the safety of your workforce is paramount. However, for large or dispersed worksites, it is often impractical to complete manual inspections within a single day. The time constraints make it challenging to cover an entire site and manage the extensive paperwork involved. This limited visibility for safety teams can lead to ambiguity and human error, ultimately resulting in more incidents, accidents and injuries.

While accurate data can significantly enhance safety measures, many organizations lack sufficient records. This hinders the ability to review unsafe acts and near-miss incidents, identify patterns and implement corrective actions. Additionally, inadequate data can complicate the process of locating injured individuals during emergencies and lead to inconsistent incident reporting.



Safety incidents endanger employees, disrupt business operations and jeopardize your company's reputation.

Why it's time to deploy OpenBlue Worker Safety Advisor



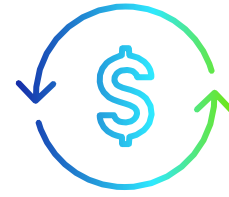
Reduce serious injuries or fatalities

- Significantly reduce incident rates
- Protect people by avoiding injuries and accidents
- Avoid damage to company reputation



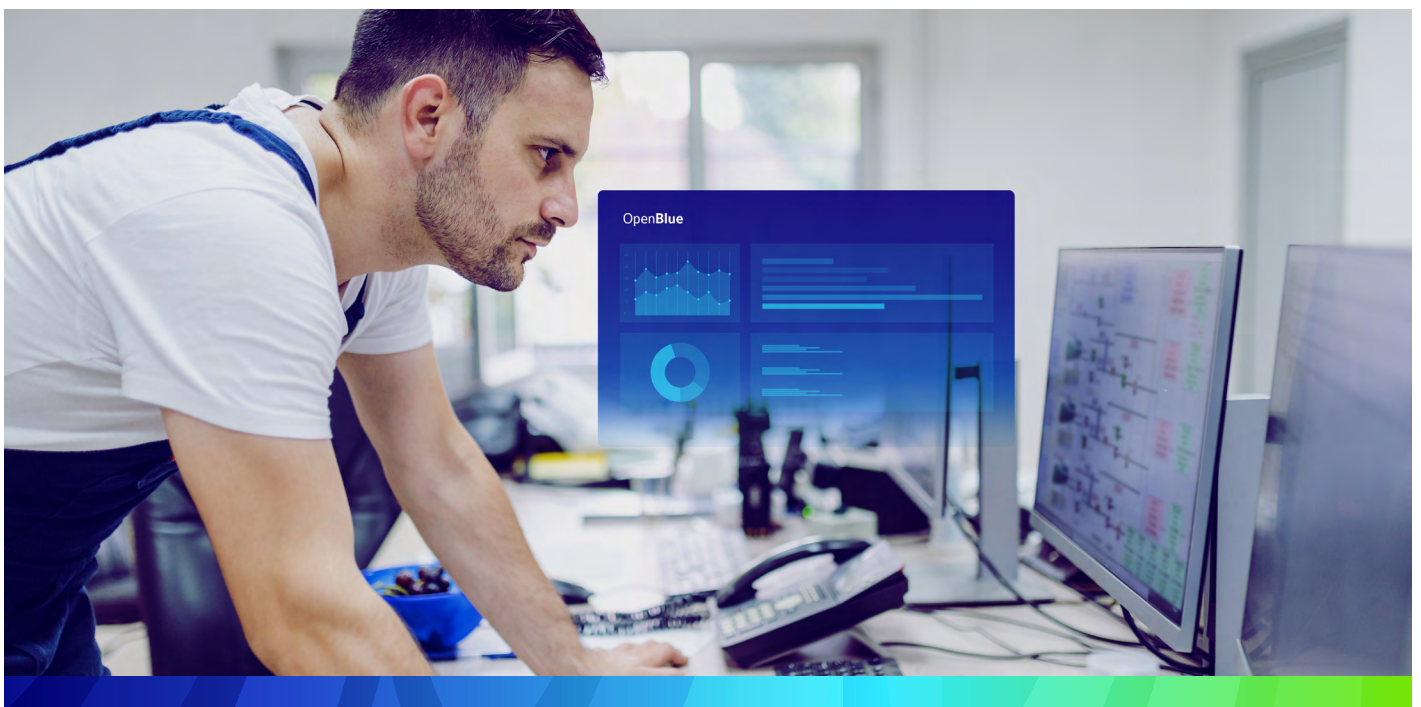
Improve safety performance and awareness

- Maintain consistent safety scores that align with business objectives
- Efficiently monitor safety compliance from contractors
- Consistent, non-biased incident reporting for regulatory bodies



Avoid unintended direct and indirect costs related to site accidents

- Centralized view of large-scale sites
- Proactive and consistent monitoring of site safety situation saves on both direct costs (insurance, medical bills, absenteeism, paperwork) and indirect costs (productivity of safety officers)



Avoid the most common safety incidents

OpenBlue Worker Safety Advisor is designed to drastically reduce safety incidents, quickly alerting you to violations across these four scenarios.



Safety gear compliance (PPE)

Hard hat, vest, harness, gloves, glasses



Exposure to heavy equipment

Crane, excavator, dumpers, forklift



Scaffolding safety monitoring

Person working at height without harness



Driving safety monitoring

No seat belt, use of cell phone while driving

How does this solution integrate with my existing environment?

OpenBlue Worker Safety Advisor is easy to deploy within your existing systems. It connects to your CCTV system and enhances it with real-time AI and Edge streaming analytics. There is minimal investment required for hardware and no need for additional infrastructure changes. The solution offers visibility and insights from multiple cameras on one central dashboard, with the ability to easily scale from one site to multiple sites.

Easy to deploy with existing systems

- Interface with standard CCTV camera systems already installed at sites
- Captures visual evidence based on use cases using AI technology
- AI inferencing and Edge streaming analytics from video data
- Secure on-premises deployment
- Easy to scale from one site to multiple sites
- Minimal investment in hardware
- No requirement for additional changes to infrastructure
- No dependency on worker to wear device that has sensors



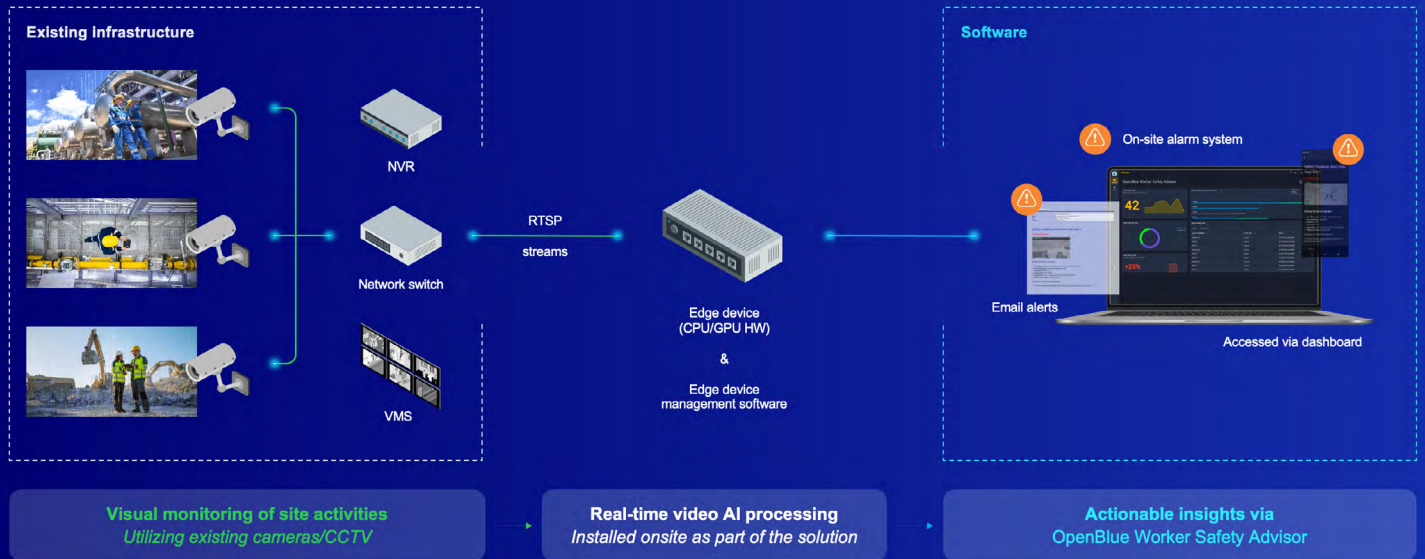
Avoid the most common incidents

- Safety gear compliance (personal protective equipment monitoring – hard hat, high visibility vest, harness)
- Heavy equipment hazard – heavy equipment to person distance
- Scaffolding hazard – work at height violations
- Safety while driving a vehicle – no seat belt and using a cell phone while driving

Real-time visibility into site safety

- View insights from multiple cameras on one central dashboard
- Metrics: Total violations; violations by type, location and camera; trend; alerts list; and image
- Easy data analysis and export reports in excel and PDF format or either one
- User configurable alert thresholds
- Email notifications

Spotlight: Deploy OpenBlue Worker Safety Advisor at your site

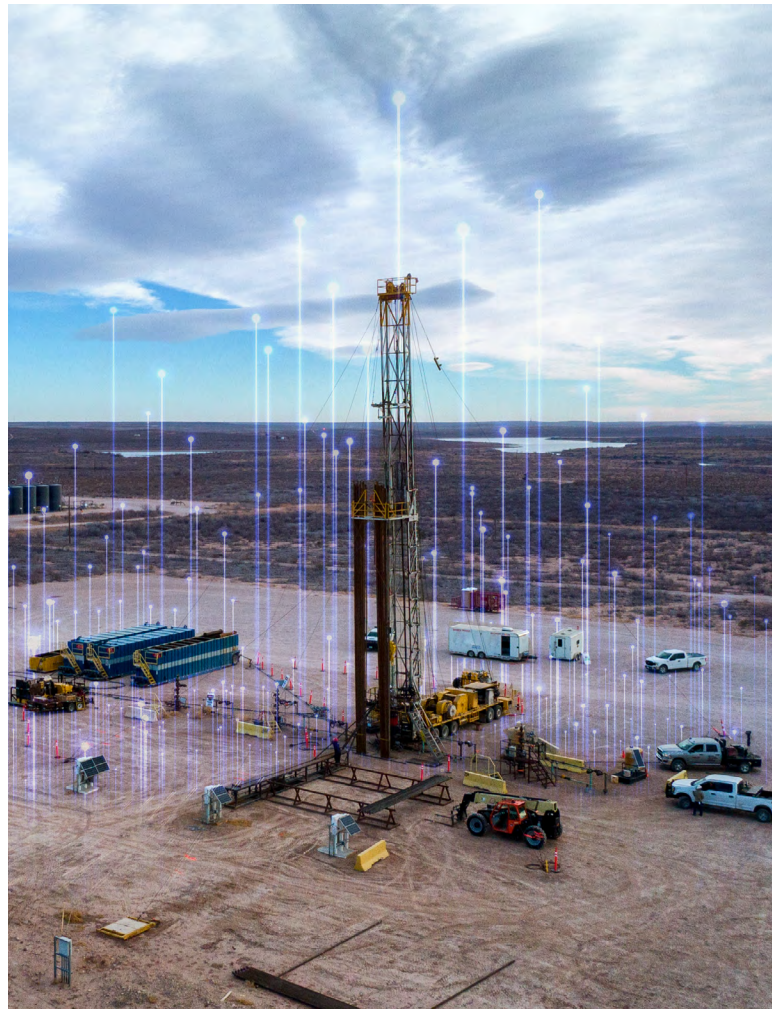


How it works

OpenBlue Worker Safety Advisor combines our award-winning software with your existing hardware.






Real-time cameras feed into a machine-learning model. The AI detects your workers and judges their safety based on contextual features/rules, such as if they are close to heavy machinery, not wearing a hard hat, etc. These rules can be customized to your specific safety code.

All safety violations are presented as instant notifications on your dashboard and sent via email.







Leverage detailed safety assessments and analysis to protect your workers

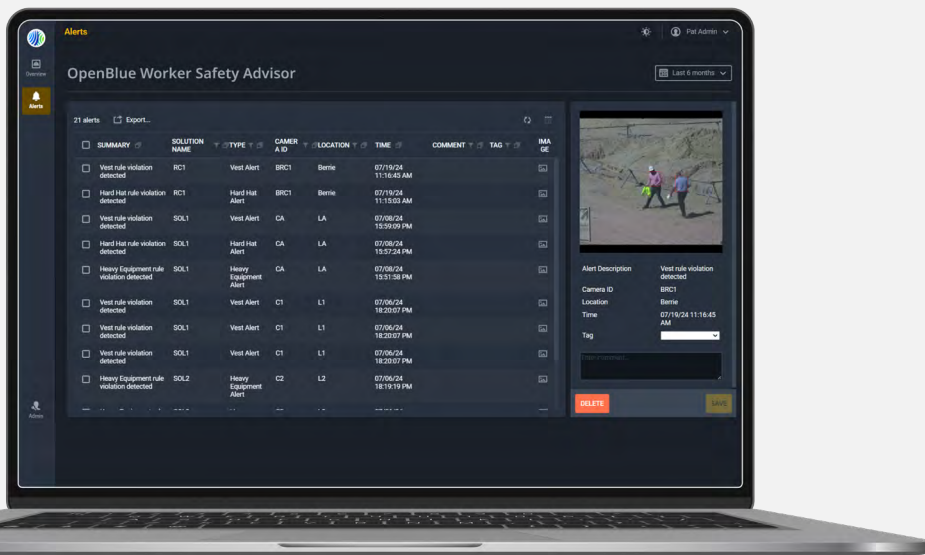
Safety assessment

-  Total safety violations
-  Safety violations by type
-  Safety violations by location/camera
-  Safety violations by historical trend
-  Comparative analysis



Analysis and investigation

-  Detailed log of unsafe acts and near-miss cases
-  Visual evidence in the form of an image
-  Add comments, tags or both for better filtering of data
-  Export to PDF/CSV file



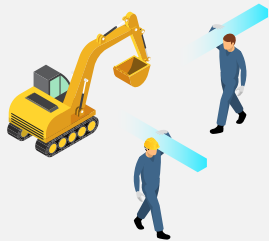
Worker Safety Advisor: A simple three step process

Safety on your site may be complex, but our solution is straightforward.
The steps below show how we detect a safety violation, inform you and help you fix it.



1

Unsafe actions
and conditions
are detected



No hard hat
Workers are exposed
to a heavy equipment

2

Instant alert
is generated and
event is recorded
by system



"Hard hat Violation
Detected"
"Heavy Equipment
Exposure Detected"

3

Safety Officer
reviews alerts
and acts



As a result, the immediate danger is addressed
and future violations become less likely.

Why choose Johnson Controls?

We're a trusted partner and industry leader in controls and smart building technology. We know exactly what it takes to make your building safer and more sustainable.

With solutions such as the award-winning OpenBlue, we're recognized in more than 40 leading sustainability awards and indexes.



Awards



Named a winner in the Machine Learning category by the Business Intelligence Group (BIG) in 2024



Named a global leader in providing Internet of Things platforms to connect building systems and devices by Verdantix (2022)



Nascom Award India. Winner in four categories: Sustainability, Engineering, Research & Development, Unified Operations Centre and AI Game Changer



WiredScore accreditation for our OpenBlue suite of solutions (2022)

About Johnson Controls:

At Johnson Controls, we transform the environments where people live, work, learn and play. As the global leader in smart, healthy and sustainable buildings, our mission is to reimagine the performance of buildings to serve people, places and the planet.

Building on a proud history of nearly 140 years of innovation, we deliver the blueprint of the future for industries such as healthcare, schools, data centres, airports, stadiums, manufacturing and beyond through OpenBlue, our comprehensive digital offering.

Today, with a global team of 100,000 experts in more than 150 countries, Johnson Controls offers the world's largest portfolio of building technology and software as well as service solutions from some of the most trusted names in the industry.