Digital Solutions

FX-Control Red Zone Supervision



Real-Time Risk Detection. Smarter Safety. Safer Operations.

Product range

fx CONTROL



Reduce Exposure. Prevent Incidents. Improve Safety Behavior.

FX-Control Red Zone Supervision is more than a traditional CCTV or standalone monitoring system, it's a portal to your rig.

The system uses AI-powered camera technology and operational machine data to monitor hazardous rig areas in real time. By automatically detecting unsafe red zone breaches and triggering visual and audible alarms before risks escalate, the system helps reduce personnel exposure, improve safety behavior and actively prevent injuries before they occur.

Applications

- Oil & gas
- Land rigs
- Offshore rigs
- Industrial machinery & heavy equipment operations

Proven **41%** reduction in red zone breaches

- AI-powered hazard detection
- Real-time visual and audible alerts
- Remote visibility and reporting
- Data analytics and statistics

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Bold Engineering+Technology

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Personnel working around moving machinery on rig floors and catwalk areas remain exposed to high-risk operational hazards.

Operators and drilling contractors are under increasing pressure to:
- Reduce injuries and near misses
- Improve HSE performance and safety behavior
- Reduce personnel exposure within hazardous zones
- Improve operational awareness and compliance

Without intelligent real-time supervision systems:
- Red zone breaches can go unnoticed until incidents occur
- Personnel remain exposed to moving machinery hazards
- Safety performance becomes reactive rather than preventive
- Visibility into unsafe behaviors and operational trends is limited
- Contractors increase the risk of failing luckily, instead of failing safely

Why BENTEC?

Faster reaction. Safer operations. In depth data.

FX-Control Red Zone Supervision combines AI-enabled camera technology with machine and operational data to monitor hazardous rig areas in real time. When personnel enter a monitored red zone during hazardous operations, the system immediately triggers clear visual and audible alarms, enabling people to exit the area before risks escalate.

It delivers real-time operational awareness directly to personnel at risk while also providing remote visibility, advanced analytics and behavioral trend monitoring for HSE and operations teams.
- AI-powered real-time hazard detection
- Integrated machine and operational data monitoring
- Visual traffic-light safety indication system
- Audible alarm for red zone infringements
- Remote visibility and cloud-based statistics reporting
- Designed for harsh drilling and industrial environments
- Customizable / multi camera installations

Designed to deliver

- ✓ **Reduced personnel exposure**
  Helps to keep personnel out of hazardous red zone areas during active operations
- ✓ **Improved rig floor safety**
  Real-time alerts enable immediate reaction before risks escalate into incidents
- ✓ **Behavioral safety improvement**
  Trend monitoring and visibility support long-term improvements in safety culture and operational behavior
- ✓ **Enhanced operational awareness**
  Provides crews and supervisors with clear visibility into hazardous area status and activity
- ✓ **Future-ready safety technology**
  Combines AI, computer vision and operational data to deliver next-generation rig floor safety supervision
- ✓ **Remote visibility & analytics**
  Enables office-based HSE and operational teams to monitor trends, statistics and safety performance remotely



- ✓ **Reduced red zone breaches and exposure**
- ✓ **Fewer incidents and near misses**
- ✓ **Improved HSE compliance and operational awareness**
- ✓ **Safer behavior around hazardous equipment**
- ✓ **Greater confidence in rig floor safety management**

Proven performance

- ✓ **Proven 41% reduction in red zone breaches**
- ✓ **Detection response time under 2 seconds**
- ✓ **Detection accuracy down to 10 cm / 4 inches**
- ✓ **Field-proven across active, harsh environment drilling operations**

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Ready to improve rig floor safety and reduce red zone exposure?
Speak to a BENTEC expert

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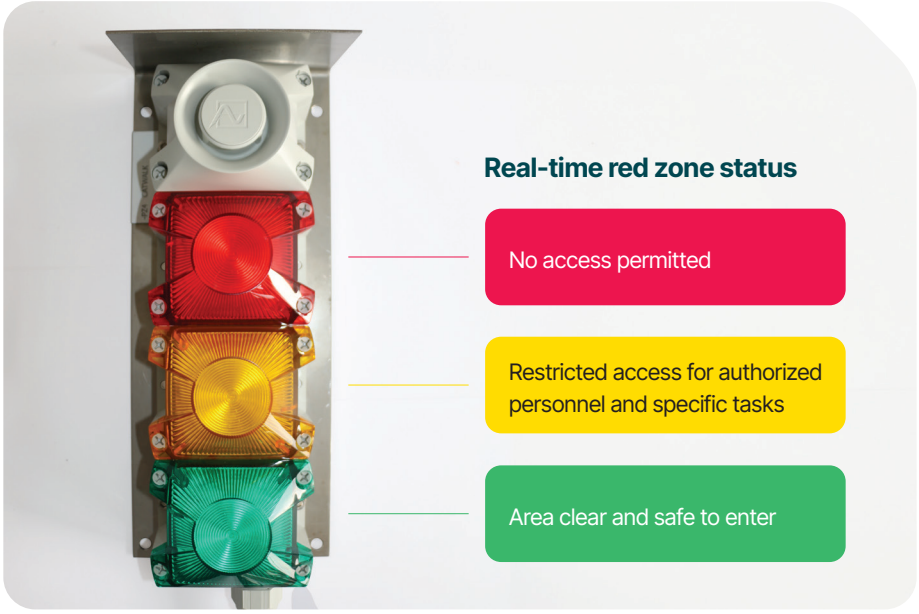
Key features

AI-powered real-time hazard detection for drilling operations

- AI-enabled edge-based camera technology
- Real-time visual and audible alarm system
- Supports up to 4 cameras per monitored zone
- Supports up to 6 traffic light indicators
- Remote web-based visibility and reporting
- Integrated OT / IT security and encrypted communication
- Designed for harsh offshore and onshore environments

FX-Control can be expanded with additional operational data monitoring, low-bandwidth CCTV streaming, energy and carbon emissions monitoring, advanced reporting dashboards, remote visibility tools, and project-specific camera, traffic light or integration configurations to support broader operational and HSE objectives.

- **Transmit / visualize real-time data.** Connectivity to / from third party systems (WITSL0 protocol)
- **Strong cybersecurity.** Peer to peer encryption. OT & IT Firewall
- **CCTV video transmission.** Enables rig site POB reduction (FX-CCTV, optional)
- Analytics for performance improvements / machine learning (FX-CBM, optional)
- Carbon emission monitoring (FX-CEM, optional)



Customer-specific configurations

FX-Control Red Zone Supervision is a fully configurable safety solution designed for both onshore drilling rigs and offshore assets.

The system can be tailored to individual operational requirements, allowing customers to monitor up to four cameras across critical red zone areas. Integrated visual traffic light indicators and audible alarms provide clear, real-time status updates to personnel, helping improve situational awareness and reduce exposure to hazardous areas.

The combination of real-time monitoring, automated status control and historical reporting helps improve safety compliance, enhance operational visibility and support data-driven decision-making.



Advanced monitoring and reporting

- Historical trend analysis enables users to review red zone activity over selected time periods
- Statistical reporting provides insights into personnel movements, zone access events and status changes
- Drilling and machine data can be integrated and recorded to influence zone status automatically, including parameters such as standpipe pressure