



# Solving for safer manufacturing

Manufacturers are increasingly leveraging technology to drive smart manufacturing and embrace the principles of Industry 4.0. Through the integration of IoT sensors and data analytics, modern factories can further optimise production processes, enhance efficiency and ensure product quality. This digital transformation welcomes integrated safety and security systems where real-time insights empower decision-making, drive innovation and future-proof your plant. Embracing Industry 4.0 not only revolutionises manufacturing processes but also yields a competitive advantage in a rapidly evolving industry.



**MOTOROLA** SOLUTIONS



# Deliver safety, efficiency and productivity through a connected plant

## From raw materials to finished goods

The Motorola Solutions safety and security ecosystem works together so your plant can better respond to and recognise patterns, anticipate actions and prevent situations before they escalate into emergencies. From the moment a delivery truck enters your perimeter to when an employee clocks out of their late night shift, prepare your employees for any challenge by connecting your critical communications, video security, access control, data and analytics with the Motorola Solutions safety and security ecosystem.

IF YOU NEED HELP WITH	OUR ECOSYSTEM PROVIDES
Digital insights	Real-time data and analytics to gather situational awareness and get to the root of an issue, quicker.
Plant efficiency	Automated workflows to keep employees in the areas where they are needed most.
Enhancing safety protocols	Connected devices for safer, more productive shifts.
Connectivity	Efficient and seamless communication tools all under one connected platform.
Securing areas of your facility	Full visibility of your facility and ground's perimeter at all times.







# Discover the technology that takes on challenges your plant faces

## Site awareness and enhanced insights

- Number plate recognition to identify when a disgruntled former employee enters your facility
- Alerts automatically sent to security personnel (SOC) to notify them of unwanted individuals on your property
- Number plate recognition to identify when repeat deliveries arrive onsite, allowing docks and relevant teams to be notified in advance
- Body cameras to monitor use of heavy machinery during sophisticated or complex jobs, sending notifications to management when activated

## Operational efficiencies and workflows

- Video cameras and analytics monitor high traffic areas inside your plant to better optimise areas of congestion
- Thorough, automated incident management and reporting to assist with factory compliance and risk assessments
- Automatic detection of floor spills triggers mass alerts to inform pre-selected groups when requiring hazmat assistance
- Body cameras capture and share live video of a machine repair on the plant floor
- Automatically secure entry points and send alerts when a restricted area is accessed

## Safer plant floors, safer workers

- Fall alert and lone worker features automatically alert selected groups in the event of a fall or an at-risk isolated worker
- Video security provides visibility across vast areas and identify abnormal presence or movements
- AI-powered video analytics to detect former employees, banned number plates and weapons
- Chemical and air detection that instantly notifies employees of unhealthy air quality levels including ammonia and carbon monoxide
- Spoken word alerting to detect a distress call and automatically notify security teams of a critical situation
- Temperature detection video cameras or sensors that notify operators of a machine malfunction

## Collaboration and connectivity

- Two-way radios so employees hear loud and clear, even with extremely loud background noise from heavy machinery
- Two-way radios for rapid, reliable communications that work with fixed video and access control for alerting, allowing full site coverage and seamless situational awareness
- Targeted mass notifications to inform pre-selected groups when needing machine repairs resulting in production line disruptions
- Broadband PTT to expand the team's communication outside of the factory perimeter and instantly connect across different devices, networks, and locations.



# Revolutionary safety for your plant

The Motorola Solutions Safer Manufacturing ecosystem unifies mission-critical technologies to improve safety and security across your facility while also helping your plant be smarter and more efficient. By bringing together the integrated and innovative technology you need to detect, analyse, communicate and manage, we're helping to reduce operational downtime while maintaining production efficiency and most importantly, keeping your employees safe.

## Key ecosystem components we recommend for safer manufacturing



### Avigilon Video Security & Access Control

Strengthen safety and improve plant productivity with integrated site video security and access control systems built to secure high-risk areas and provide frictionless access.

- Complete situational awareness
- Cloud versatility
- Driven by AI
- Manage from anywhere



### VT100 & VB400 Body Cameras

Having an objective, unbiased witness matters. Our body cameras can capture evidence-grade video of any situation, from security personnel to machine operators.

- Maintain evidential integrity
- Rugged and intuitive design
- Pre and post recording
- Immediate footage offload



### MOTOTRBO

The MOTOTRBO two-way radio portfolio offers you a wide choice of devices, from simple voice-only models to feature-rich voice and data radios. All devices work together seamlessly to deliver advanced features to enhance your workers safety, productivity and efficiency. With exceptional voice quality and outstanding usability, MOTOTRBO keeps your workforce connected.

- Enhanced audio quality
- Durable and rugged
- Dedicated emergency button



### Halo Smart Sensor

The HALO3C smart sensor can help with Vape and THC Detection, Air Quality Monitoring, and more. Utilising the latest in smart technology, HALO3C has been designed with privacy in mind, as it adds a layer of security in places that are not covered by video security.

- Real-time alerts
- Easy to install
- Air quality monitoring
- Discreet and compliant



### WAVE PTX Carrier Independent Broadband PTT

Connect your team with greater speed and efficiency with a push to talk over cellular service without boundaries. With heavy-duty traditional and lightweight, wearable communications options that work together, your employees can have a device to meet their needs.

- Instant PTT communication
- Nationwide service
- Multimedia messaging

Learn how Motorola Solutions can help your factory or plant with our safety and security ecosystem. [motorolasolutions.com/manufacturing](https://motorolasolutions.com/manufacturing)



**MOTOROLA SOLUTIONS**



**Automate with Orchestrate**