



Hikvision Manufacturing Solution

Manufacturing a Safer and Smarter Future

HIKVISION®



Solution Overview

Digitalization is transforming global manufacturing industries with powerful technologies. Today, the primary concerns of manufacturers hover around how to ensure production continuity, enhance plant security, and boost operational efficiency.

Hikvision's Manufacturing Solution brings safety, efficiency and visibility to the whole manufacturing process and daily operations. By design, this solution empowers situational awareness for security, production, and operation management, helping manufacturers accelerate industry-wide transformation.

Read on to learn how this solution can work for you.



Upgrading Stereoscopic Security

- Perimeter Protection
- Whole-site Access Management
- AR Live Interaction

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Enhancing Production Continuity

- Dock Management
- Warehouse Management
- Optical Process Monitoring

Strengthening Personal Safety Protections

- PPE Management
- Abnormal Activity Detection

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Optimizing Operations

- One-stop, Whole-system Experience
- Visualized Operations & Maintenance
- Upgraded Plant Environment





Upgrading Stereoscopic Security

Keep plants safe

– From perimeters to critical internal areas

Perimeter protection: The first line of manufacturing plants

Manufacturing plants often have very large perimeters with risks like unauthorized intrusion and vandalism. Here, Hikvision products detect intrusions, fire, and other hazards via thermal and high-clarity cameras, warding off would-be offenders with IP speakers to establish the first line of protection for manufacturing plants.



1. Fix-mounted Thermal Camera
2. Solar-powered Thermal Camera
3. IP Speaker

Whole-site access management

Complex foot- and vehicle traffic move across manufacturing plant grounds daily. Here, Hikvision offers precise access management via the MinMoe face recognition terminal, with turnstiles and license plate recognition. The security staff can dispatch vehicles for access using the Dock Map or video; additionally, multiple security cameras with diverse functionality help protect public areas of manufacturing plants, boosting efficiency and ensuring security for the whole site.



1. Face Recognition Terminal
2. Swing Barrier: DS-K3B601SX
3. ANPR camera: DS-TCG405-E
4. Barrier Gate: DS-TMG4B0



1. TandemVu Camera

2. 3. PanoVu Series Cameras

AR live interaction: One step further toward ultimate protection

Industrial parks and manufacturing plants often cover a wide area and quickly become difficult to manage. Hikvision's augmented reality application can combine the big picture and the details in one view with the help of TandemVu and other panoramic cameras. Along with interactive management systems, operators can check and dispatch real-time on-site issues. AR protection takes users one step further towards ultimate protection.



Enhancing Production Continuity

Improve management efficiency and minimize downtime

Dock management: Assisting the inbound and outbound flow of materials

Material logistics are vital elements in manufacturing production. With the help of Hikvision video security, operators can record inbound and outbound operations at loading docks, and get real-time visual displays of each one on the Dock Map. Visualized and quantified records help dock managers and carriers improve vehicle and resource allocations, and achieve maximum efficiency and minimal loss.



1. LED Screen
2. Dock Camera
3. LED Light



1. Face Recognition Terminal
2. Walk-through Metal Detector
3. Fisheye Camera
4. Thermal Camera

Warehouse management: Safe storage for materials and products

Material and product storage is also vital in the manufacturing production process. Site operators must protect goods from trespassers or fire to minimize loss and ensure production continuity. Hikvision offers reliable video security for warehouse management, including precise access control, fire prevention, and environmental anomaly detections for material storage – functions that greatly enhance material accessibility and production efficiency.



Optical process monitoring: Visualizing the production process

Explosion-proof protection

For manufacturing environments with flammable materials, Hikvision offers explosion-proof cameras and thermal cameras to prevent potential risks and ensure personnel safety.



Explosion-Proof Cameras



Boost productivity using thermal technology

Using industrial thermography, Hikvision helps operators identify problems earlier with less equipment downtime in applications including pipeline damage, temperature deviations, and more. By integrating with digitalization systems, operators gain more insights to improve process continuity and productivity.



Thermal Cameras



Compliant, regulated production

Hikvision helps operators consolidate production compliance regulations with online records and remote verifications, adding an extra layer of control on safety production, personnel compliance regulation, and ESD protection.



1. Turnstile
2. Face Recognition Module For Turnstile



Augmented reality applications

An "AR digital factory" application enhances full awareness at production plants, integrating system data with related video for better production visibility. Combined with AR patrols for virtual tours in the plants, the production process gets safer and smarter.



1. TandemVu Camera
2. PanoVu Series Camera

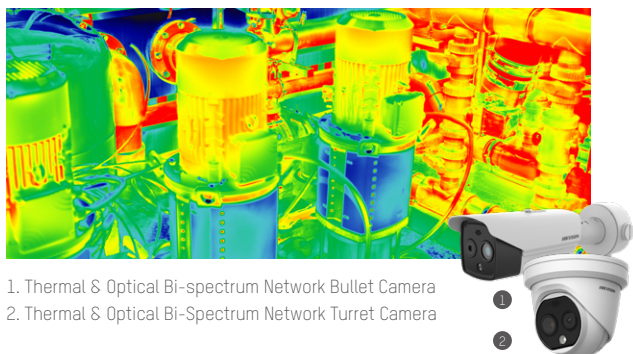


Thermography in Manufacturing Production

Proactive maintenance ensures production continuity and decreases downtime

Production equipment

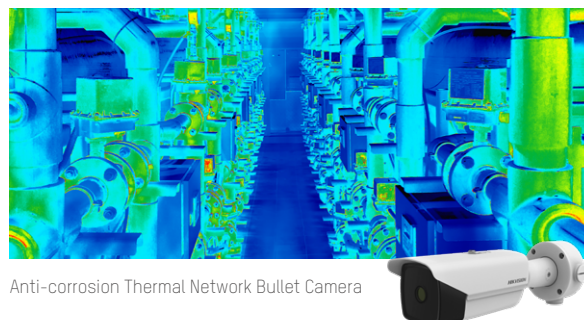
Security cameras with thermal imaging can detect overheating when a component becomes worn or less efficient, ensuring production continuity and reducing manual maintenance costs.



1. Thermal & Optical Bi-spectrum Network Bullet Camera
2. Thermal & Optical Bi-Spectrum Network Turret Camera

Pipelines

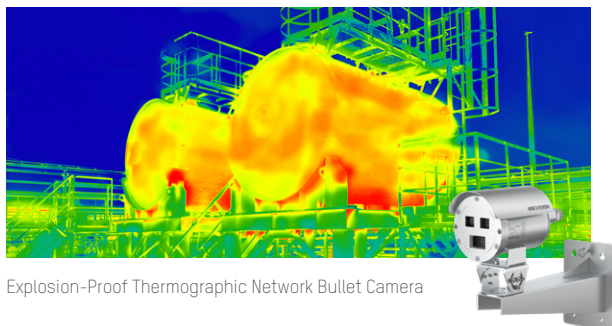
Thermal imaging cameras can endure harsh environments and detect leaks, corrosion, blockages and other faults in a pipeline. This prevents harm to workers and to the environment while minimizing downtime.



Anti-corrosion Thermal Network Bullet Camera

Storage tanks

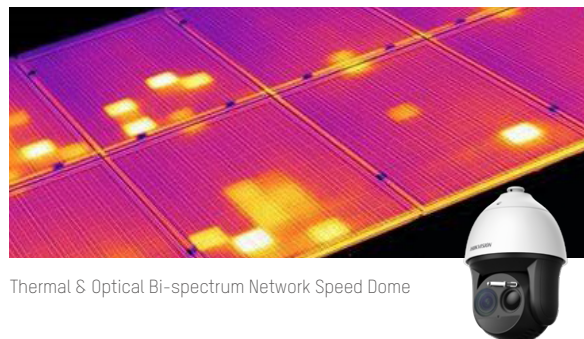
Thermographic cameras provide monitoring and non-contact measurement for storage tanks up to 24 hours a day, helping detect the liquid level line and prevent potential risks.



Explosion-Proof Thermographic Network Bullet Camera

Solar panels

Thermal imaging technology makes it easy to target a point of failure on a solar panel and enable further diagnosis, making sure power keeps flowing and machines keep working.



Thermal & Optical Bi-spectrum Network Speed Dome

Learn about Hikvision thermography cameras

- **Clear imaging**

With advanced features such as automatic gain control, digital detail enhancement, and 3D digital noise reduction, Hikvision thermography cameras offer crisp and clear thermal imaging unparalleled in the industry

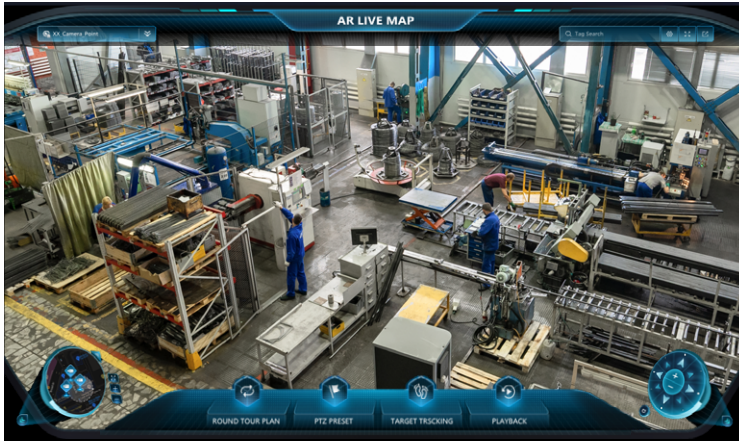
- **Accurate temperature measurement**

Through strict calibration and standardized testing procedures, Hikvision has established a temperature measurement model that offers high accuracy – up to $\pm 2^{\circ}\text{C}$ or $\pm 2\%$.

- **Advanced intelligence**

Based on deep learning algorithms, Hikvision's thermal products deliver powerful and accurate behavior analyses for virtually any application

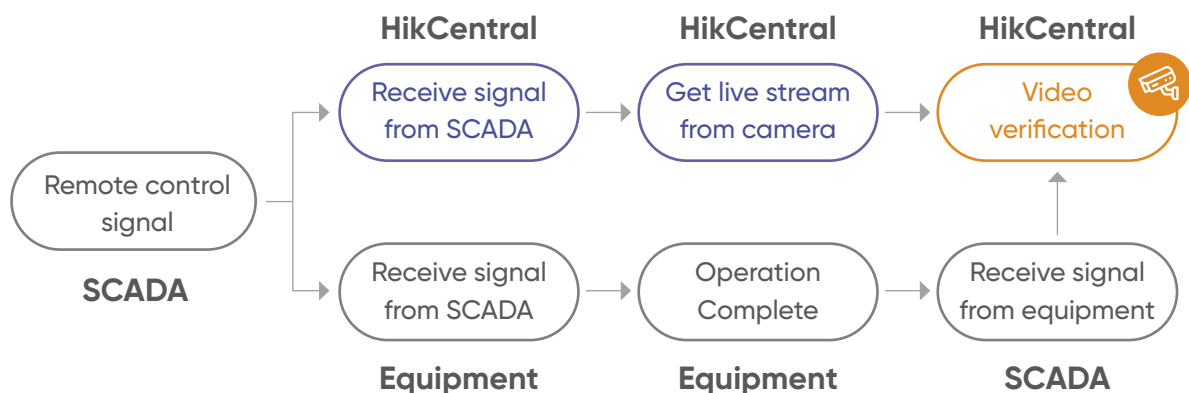
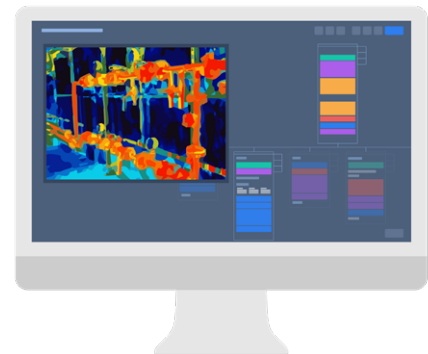
AR Production Board Facilitates Production Process Monitoring



A live AR map in split among four screens lets operators see the on-site situation in real time so they can spot failures and take recovery actions to decrease equipment downtime. This application enhances situational awareness via video monitoring and integrated systems, taking operators one step further toward ultimate protection.

System Integration Facilitates the Construction of Digital Manufacturing Plants

Hikvision systems can integrate with existing industrial control systems seamlessly, such as SCADA, MES, PDS, and QMS, adding an extra layer of visibility that makes it possible to gain awareness of assets and production processes remotely while enhancing production continuity.





Strengthening Personal Safety Protections

Complete protection of personnel

PPE management

Protect personnel with AI-enabled health & safety management

Requirements for Personal Protective Equipment (PPE) – the protective-wear that ensures worker safety – is a must in manufacturing industries. But enforcement can be a challenge across the worksite. Remote PPE checks intelligently use video imaging to help managers ensure employees are wearing helmets and other PPE, which could mean the difference between life and death in hazardous environments.



Abnormal activity detection

Operational safety and efficiency are critical for manufacturing productivity. Hikvision leverages AI-powered imaging analytics to detect abnormal activities, such as staff fall detection, safety appliance placement, and unauthorized intrusion in production zones, among others. The system actively reduces potential risks throughout operations.



Fall protection



Intrusion in production zones



Safety appliance placement



Real-time detection

Monitors and detects non-compliance of HSE guidelines



Notifications & alerts

Immediate notifications on any type of safety violations



Intuitive dashboards

An overview of the key metrics of safety compliance



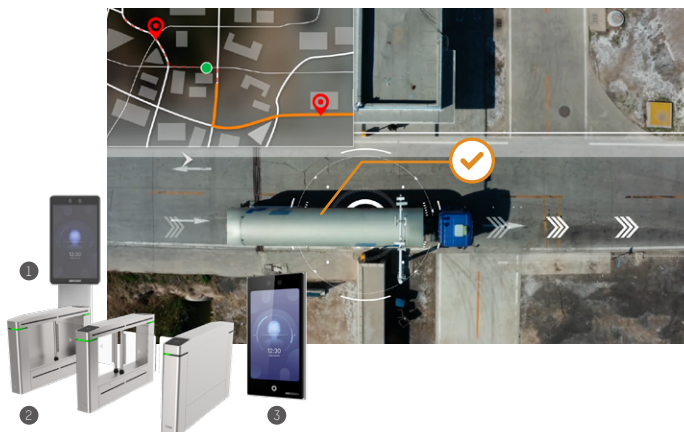
Optimizing Operations

Upgrading every corner of a manufacturing plant

One-stop, whole-system experience

At expansive industrial parks, fluid personnel and vehicle traffic affects every operation. As a way to elevate the experience here, Hikvision provides a holistic system that covers attendance, access, consumption, and so on, providing critical assistance for work and well-being.

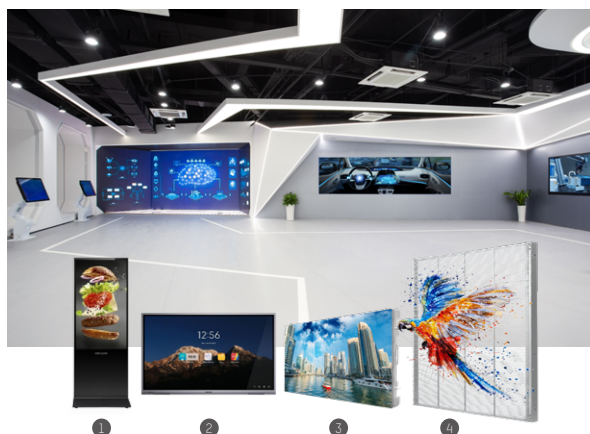
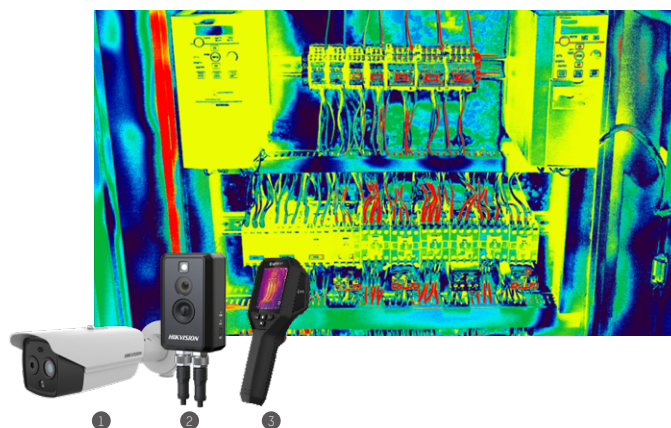
1. Payment Terminal
2. Swing Barrier
3. Face Recognition Terminal



Visualized operations & maintenance

Frequently, the operations and maintenance of a manufacturing plant affect production efficiency. Hikvision combines visible light technology, thermal technology, and augmented reality to add an extra layer of visibility to optimize operations, especially in high-risk areas like data centers, power distribution rooms, EV charging spaces, and more.

1. Thermal Camera
2. Thermographic Cube Camera
3. Handheld Thermography Camera



Upgraded plant environment

Commercial displays from Hikvision can help businesses and their employees communicate without interruptions and collaborate more effectively. Advanced professional displays demonstrate a high-profile company image with cutting-edge technologies, which can capture the attention of potential customers and partners to expand marketing and success.

1. Digital Signage
2. Interactive Flat Panel
3. LED
4. Transparent LED



Intuitive Dashboard

Visualized Management for Better Insight

A digitized command center displays all the perceived data in an intuitive and visualized way, providing multi-dimensional analytics to aid decision-making. All data are unified and centrally managed via the HikCentral platform, boosting management efficiency for persons, events, and vehicles at manufacturing plants.

Hikvision's solution for the manufacturing industry also features an all-inclusive dashboard to present perceived data in an intuitive, visualized way.



AR Live Interaction

"AR digital factory" and industrial park AR monitoring views can quickly enable the linkage from system to physical, giving users a more immersive experience, facilitating on-site updates and dispatching, improving situational awareness at production plants.

Enhance Production Visibility

Hikvision systems can integrate with existing industrial control systems seamlessly, such as SCADA or MES systems, adding an extra layer of visibility that makes it possible to gain awareness of assets and production processes remotely, enhancing production continuity and productivity.



Success Stories

Hikvision assists state-of-the-art vehicle production at SGMW Motors in Indonesia

Specified to provide a comprehensive security, health & safety and production management tool, SAIC General Motors Wuling (SGMW), is now operating a Hikvision based HD security system at one of the world's newest vehicle manufacturing plants.

"Using Hikvision Smart camera VCA alarm functionality, the system has been configured to provide the highest level of protection and safety for factory personnel, assets and site facilities. Any unauthorized access attempt to the site's perimeter or internal restricted areas are all covered by the system, offering advanced protection whilst reducing the number of security guards needed."



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