HIKVISION®

MANUFACTURING A SAFER AND SMARTER FUTURE

Hikvision Manufacturing Solution

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Digital transformation in the manufacturing industries calls for a mix of emerging technologies that tackle age-old industrial objectives: boosting productivity, improving quality, and reducing equipment downtime.

As a leading global provider in IoT innovation, Hikvision's solution helps ensure safe, dependable, and efficient manufacturing plant operations throughout the day and at night. Our solutions empower situational awareness for security, production, and management teams, minimizing unexpected downtime, optimizing operational efficiency, and ensuring production continuity with comprehensive solutions.

Upgrading Stereoscopic Security

Shifting crowds, commuting vehicles, precious goods, and delicate instruments all intertwine at a manufacturing site. Hikvision offers stereoscopic security to safeguard your busy site and your costly materials, integrating a variety of cameras, access control products, and unified management platforms for comprehensive protections, providing multi-dimensional situational awareness to enhance security levels.

❶ Perimeter Protection

Manufacturing plants often have very large perimeters, posing risks like unauthorized intrusion and vandalism. 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.

❷ Personnel & Vehicle Access Management

Complex foot- and vehicle traffic cover manufacturing plant grounds daily. Here, Hikvision offers precise access management via the MinMoe face recognition terminal, with turnstiles and license plate recognition. Additionally, the security staff can dispatch vehicles for access using the Dock Map or video, boosting efficiency and ensuring security for the whole site.

❸ AR Protection

Industrial parks and manufacturing plants often cover a wide area and quickly become difficult to management. Hikvision's AR 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.

Ensuring Production Continuity

How to improve production continuity and reduce downtime is always the conundrum for operators. Hikvision can assist production management via conducting onsite and remote patrols, enhancing production continuity and improving the traceability of manufacturing.

❶ Protection of Materials

Material storage and logistics are vital elements in manufacturing production. Hikvison assists the inbound and outbound flow of materials with the deployment of multiple types of cameras, greatly enhancing material accessibility and production efficiency.

Record inbound and outbound operations at the loading docks with video monitoring, and get real-time visual displays of each one on the Dock Map, increasing efficiency and visibility for management.

Hikvision offers reliable video security for the whole material storage process, including precise access control for warehouse, fire prevention, and environment deviation detection for material storage.

❷ Optical Process Monitoring

The production process highly influences the productivity and profitability of manufacturing plants. Hikvision helps minimize process downtime in manufacturing, while increasing process visibility and operation performance. We bring a more complete picture of the manufacturing process into focus.


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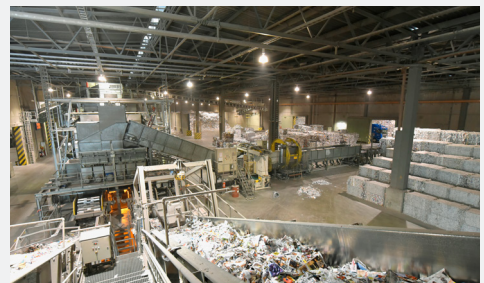
For manufacturing environments with flammable materials, Hikvision offers explosion-proof cameras and thermal cameras to prevent potential risks and ensure personnel safety.

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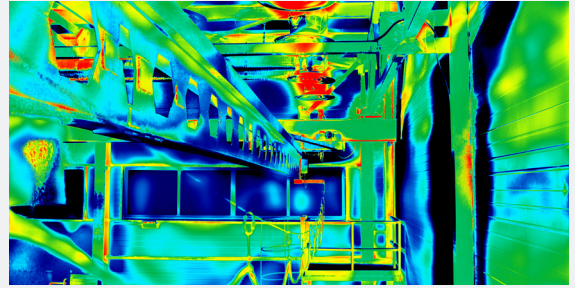
With industrial thermography, Hikvision helps operators identify problems earlier with less equipment downtime in applications including pipeline damage, temperature deviations, and more. By integrating with digitalization systems, operators gain more insights to improve process continuity and productivity.

Guaranteeing Safety for Personnel

Safety matters in manufacturing. With AI-powered technologies, Hikvision creates high-efficiency safeguards for qualified access in key areas, protecting production, and enforcing PPE compliance. All of this helps boost compliance with HSE regulations.

❶ PPE Management

Personal Protective Equipment (PPE) – the protective wear that ensures worker safety – is a must in key manufacturing positions. With Hikvision's AI-powered PPE detection devices, we can detect compliance remotely, ensuring employees are wearing helmets and other PPE and improving safety for personnel.

❷ Abnormal Activity Detection

Operational safety and efficiency are critical for manufacturing productivity. Hikvision leverages AI-powered imaging analytics, such as staff fall detection, safety appliance placement, and smoke detection, among others. The system actively reduces potential risks in operations.

❸ Forklift Risk Prevention

Forklifts and persons in nearby areas pose another, very common safety hazard. Forklifts equipped with cameras and monitors help eliminate blind spots for drivers. Additionally, UWB positioning systems can pre-warn when approaching a safe distance between persons and forklifts, providing reliable protection for manufacturing and industrial environments.

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.

Learn more about
Hikvision's manufacturing solutions

WITH HIKVISION AS YOUR PARTNER,
YOU WILL STAND ON A SOLID FOUNDATION.

Hikvision is committed to serving various industries through its cutting-edge technologies of machine perception, artificial intelligence, and big data, leading the future of AIoT: through comprehensive machine perception technologies, we aim to help people better connect with the world around them; with a wealth of intelligent products, we strive to identify diverse demands by delivering intelligence at your fingertips; through innovative AIoT applications, we are dedicated to empowering every individual to enjoy a better future by building an intelligent world that is more convenient, efficient and secure.

Total revenue in 2021 **$12.62B**   Annual growth rate from 2020 to 2021 **28.21%**   **2001** Year founded

66
Subsidiaries and branch offices globally

32.76% Compound annual growth rate from 2010 to 2021

10.13% ($1.28B) of annual revenue invested in R&D

100,000+
Partners globally

1/2 of 52,000+ worldwide employees are **R&D Engineers**

Our products are used in
150+ countries and regions

5,700+ Patents

HIKVISION

Hikvision advances the core technologies of Multi-dimensional perception, artificial intelligence, and big data, as well as imaging technologies, cloud computing and video codec. Over the past several years, Hikvision deepened its knowledge and experience in meeting customer needs in various vertical markets, including education, oil&gas, logistics, retail, safe city, traffic and others.

Accordingly, the company provides professional and customized solutions to meet diverse market requirements. In addition to the video security industry, Hikvision extended its business to smart home tech, robotics, automotive electronics, intelligent storage, fire security, infrared sensing, X-Ray detection, and medical imaging to explore channels for sustaining long-term development.

PRODUCT SHOWCASE

DS-2SF8C442MXS-DLW
TandemVu Camera

- Captures a large area and great details at the same time
- High quality imaging with 4 MP resolution for both bullet channel and PTZ channel
- 24/7 colorful imaging and excellent low-light performance with DarkFighter technology
- Bullet channel tilt adjustable from 7° to 17°
- Secures an expansive area with 25 × optical zoom and 16 × digital zoom

DS-2TD4167
Thermal Camera

- Behavior analysis function, based on deep learning algorithm: line crossing, intrusion, region entrance, and exit
- Fire detection algorithm
- Temperature exception alarm for fire prevention
- Smart tracking linkage: thermal view and optical view
- Thermal channel supports EIS, conflicted with intelligent function

DS-2XE6242F-IS/316L(D)
Explosion-Proof Network Camera

- Explosion-proof design: the camera has passedinternational ATEX & IECEx certifications, and can be used in gas and dust hazardous scenarios
- 316L stainless steel enclosure and anti-corrosion spray treatment, protecting the camera from damage caused by sparks or corrosive materials
- IP68/IK08 water resistant and vandal proof, preventing water ingress for outdoor use
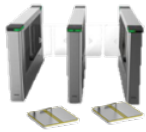
DS-K3B501SX/ESD
EPA Access Control Turnstile

- Detection type configuration, set ESD detection types such as hand inspection, foot inspection, full inspection, and inspection-free
- The test results are more detailed, and can independently display the static detection values of hand inspection, left foot, and right foot
- The detection standard is adjustable, and the threshold range of the electrostatic detection test standard can be set

DS-K6300X-T/MFG
Touchless Canteen Payment Terninal

- Supports payment via face or face/card
- Supports Fixed Amount and Time Count payment mode
- Supports setting limited amount for payment under Fixed Amount mode. Max. amount can be set for every payment
- Supports offline-record mode
- Supports viewing payment statistics
- Supports management via device menu and web client

DS-K1T673DX
MinMoe Touchless Access Control

- 7-inch LCD touch screen, 2 Mega pixel wide-angle lens
- Recognition distance: 0.3 to 3 m
- Face recognition duration < 0.2 s/User
- Face recognition accuracy rate ≥ 99%
- Face mask detection
- Supports single person and multiple people (Up to 5 people) recognition

iDS-2CD7146G0-IZS(2.8-12mm)(AIOP)
AIOP Camera

- Detection type configuration, set ESD detection types such as hand inspection, foot inspection, full inspection, and inspection-free
- The test results are more detailed, and can independently display the static detection values of hand inspection, left foot, and right foot
- The detection standard is adjustable, and the threshold range of the electrostatic detection test standard can be set

DS-A82024D
Central storage

- Economical and stable hardware platform
- HDD detection and repair/RAID optimization
- Surveillance-specialized direct storage (Direct Streaming mode+IP SAN mode)
- Advanced data protection (synchronous backup of key information in system disks)
- Energy efficient and user-friendly UI

HikCentral Professional
All in one platform

- Flexible Offer integrated security management
- Varisou application realize the protection, regulation and process mornitoring in plant;
- one stop access control canteen payment service for staff and visitors;
- AR application for immersive surveillance;
- Openness structure enable integrated with 3rd party system.

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