



DAHUA SMB SOLUTION

Focus On Customer Challenges With Leading AIoT Technology

CEEN H1 2025

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 **NO.2***
Global Market Share
[NO.1 Global market share of
private listed companies]

 **69**
Overseas subsidiaries, branches
and representative offices

 **180⁺**
Distribution Coverage
(Number of Countries & Regions)

 **23,000⁺**
Employees

 **9,700⁺**
Patent Applications

 **800⁺**
International Patent Applications

 **200⁺**
China Offices

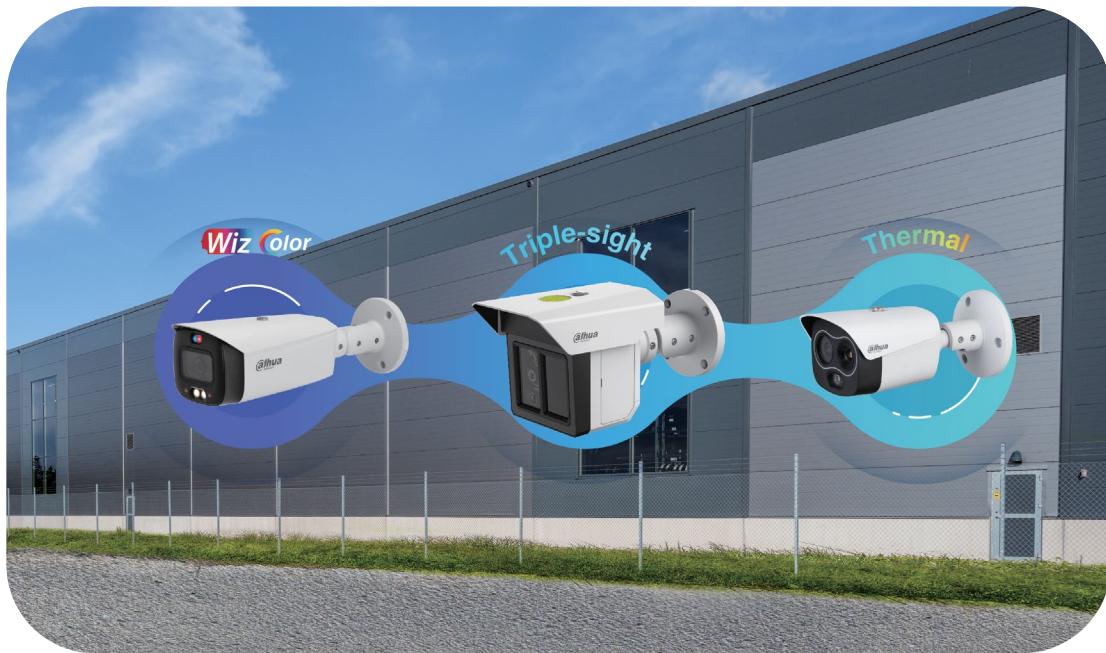
* Source: Omdia 2023 Video Surveillance &
Analytics Market Share Database

About Dahua

Dahua Technology is a world-leading video-centric AIoT solution and service provider. To facilitate the digital-intelligent innovation and transformation of cities and enterprises, the company has upgraded its Dahua Think# 2.0 corporate strategy from "Intelligence" to "Integrated Intelligence", committed to enabling a smarter society and better living. For city business, Dahua continues to promote the transition from improved urban management to efficient urban governance, from orderly operation to operational autonomy, from enhanced public safety to upgraded security systems, and from ecological environment monitoring to collaborative environmental governance. Additionally, for enterprise business, Dahua has shifted from optimizing security systems to building a comprehensive security system, from improving production efficiency to constructing digital-intelligent manufacturing capacity, and from assisting in management to enhancing decision-making capabilities.



-  **7 Continents (Operation Coverage)**
Asia / Europe / Africa / North America / South America / Oceania / Antarctica
-  **3 Manufacturing and Supply Centers**
Hangzhou, China / Changsha, China / Vietnam
-  **5 R&D Centers**
Hangzhou, China / Xi'an, China / Chengdu, China / Poland / Mexico
-  **160+ Global Service Stations**
Hangzhou, China / Hong Kong, China / Poland / Dubai / India / Indonesia / South Africa / Brazil / Mexico, and more



PERIMETER PROTECTION

SMB Solution

Safeguard Perimeter with AI, Protect Your Property

CHALLENGES

The Perimeter, acting as the frontline of defense for an industrial park, often faces challenges of property loss caused by intrusions and theft. Traditional security methods rely on manual surveillance, leaving property owners vulnerable to significant losses.

1 Property Loss

Lacking of 24/7 surveillance leads to theft, property damage, and trespassing, resulting in security breaches and financial losses.

2 Delayed responses

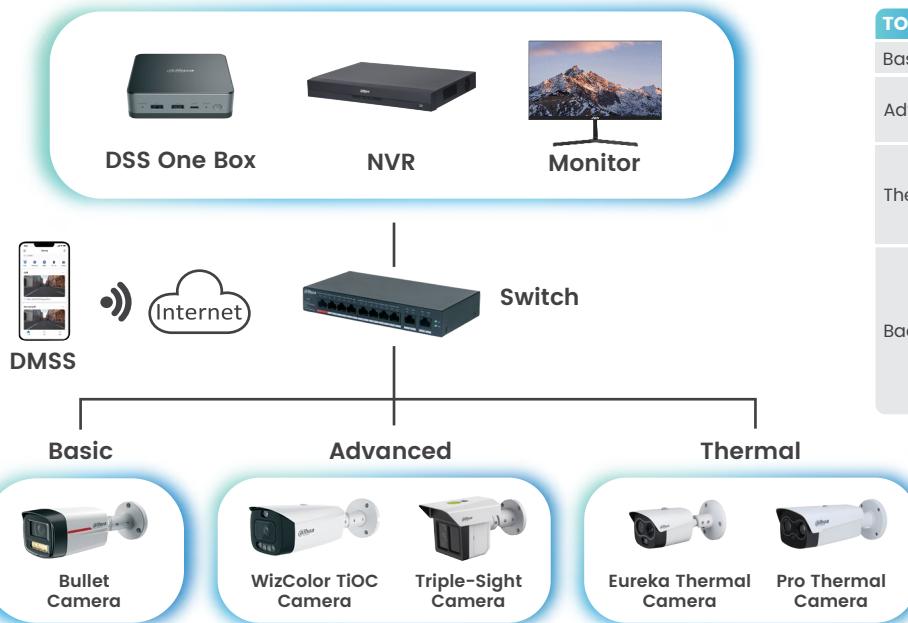
Distant or physically limited security guards allow threats to escalate and blind spots to hide incidents, hindering prompt handling of situations.

3 Lack of recorded evidence

No recorded evidence of an intrusion makes it difficult to file insurance claims, as there are no records to support it.

TOPOLOGY

Management Center



TOPOLOGY	PRODUCT MODEL
Basic Camera	IPC-HFW2449TL-S-PRO
Advanced Camera	IPC-HFW3649T1-AS-PV-PRO
	IPC-MFW5241T2-E3-ASE
Thermal Camera	TPC-BFI241-B3F4-DW-S8
	TPC-BFI241-B7F8-DW-S8
	TPC-BF5441
	NVR4208-EI
	NVR5216-EI
	CS4010-8GT-110
Back-end Device	DMSS
	DSS One Box

BENEFITS & VALUE



24/7 Comprehensive Coverage

Continuous 24/7 video recording provides detailed and comprehensive coverage. The system also boasts 99% accuracy in detecting intruders, minimizing false alarms.



Quick Response to Intrusions

When the AI camera detects an intrusion, it triggers local active deterrence measures in real-time and notifies security guards to take appropriate action.



Sufficient Evidence Investigation

HD video recordings of detected intrusions are crucial for further investigations and insurance claims.

APPLICATION SCENARIOS



Factory



Apartment



Construction Site



School



Hotel



PERSONNEL ENTRANCE & EXIT MANAGEMENT

SMB Solution

Prevent Unauthorized Persons, Touch-free Fast Passing

CHALLENGES

Manual personnel entry registration in industrial parks and buildings is ineffective at verifying individuals. It relies heavily on human judgment, which is neither effective nor accurate.

1 Low-efficiency & accuracy

Manual inefficient identity verification can lead to theft, property loss, or security incidents.

2 Poor user experience

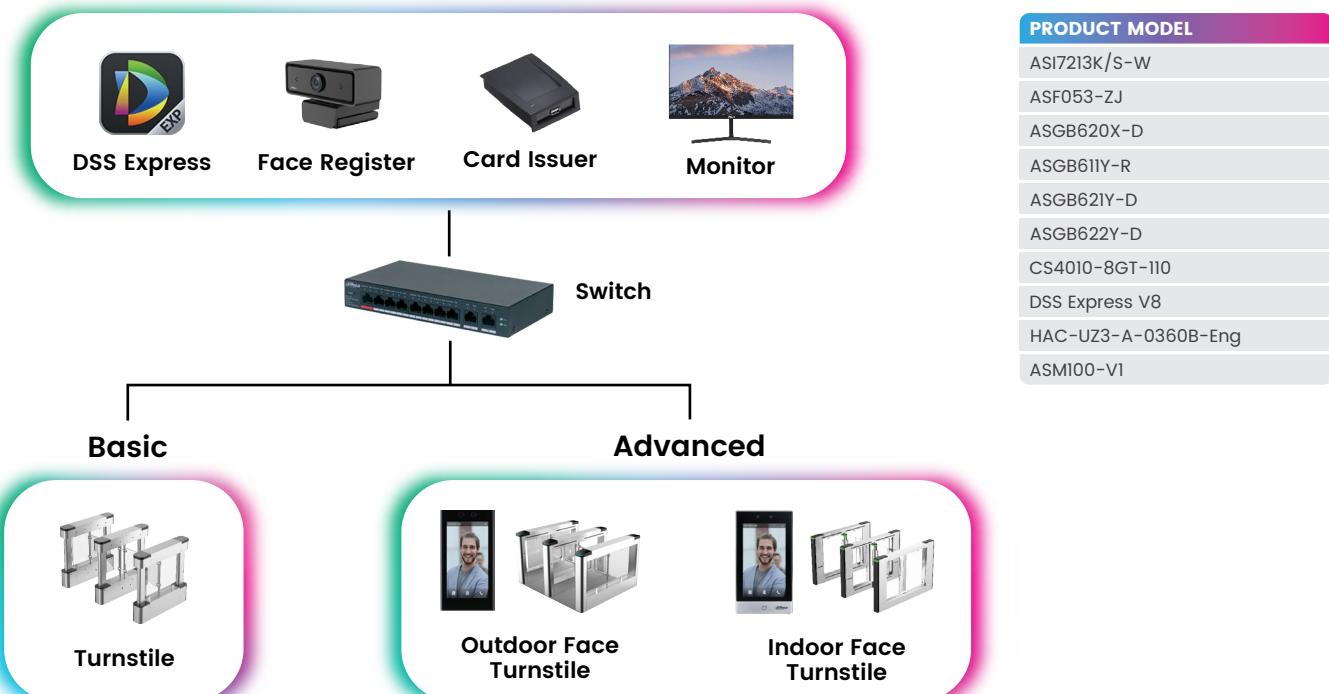
Long queues for manual access checks are a frustrating experience, especially during peak hours.

3 Outdated manual recording

It's very challenging to track a person's entry and exit records.

TOPOLOGY

Management Center



BENEFITS & VALUE



Efficient Verification

Face/Card authentication prevents unauthorized personnel from entering the premises.



Hands-free Entry Experience

The barrier controlled by biometric verification technology ensures accurate and efficient access, improving entry experience.



Visual Record & Search

Visual verification of alarm events and efficient monitoring of people's access ensure secure entry and simplify record searches.

APPLICATION SCENARIOS



Factory



Office



Construction Site



School



VEHICLE ENTRANCE & EXIT MANAGEMENT

SMB Solution

Prevent Unauthorized Vehicles, Non-stop Driving Through

CHALLENGES

Traditional manual management of vehicle entrances relies heavily on human judgment, which is neither effective nor accurate.

1 Low efficiency & Accuracy

Manually identifying registered and visitor vehicles is inefficient, which might lead to theft, property loss or security incidents.

2 Poor user experience

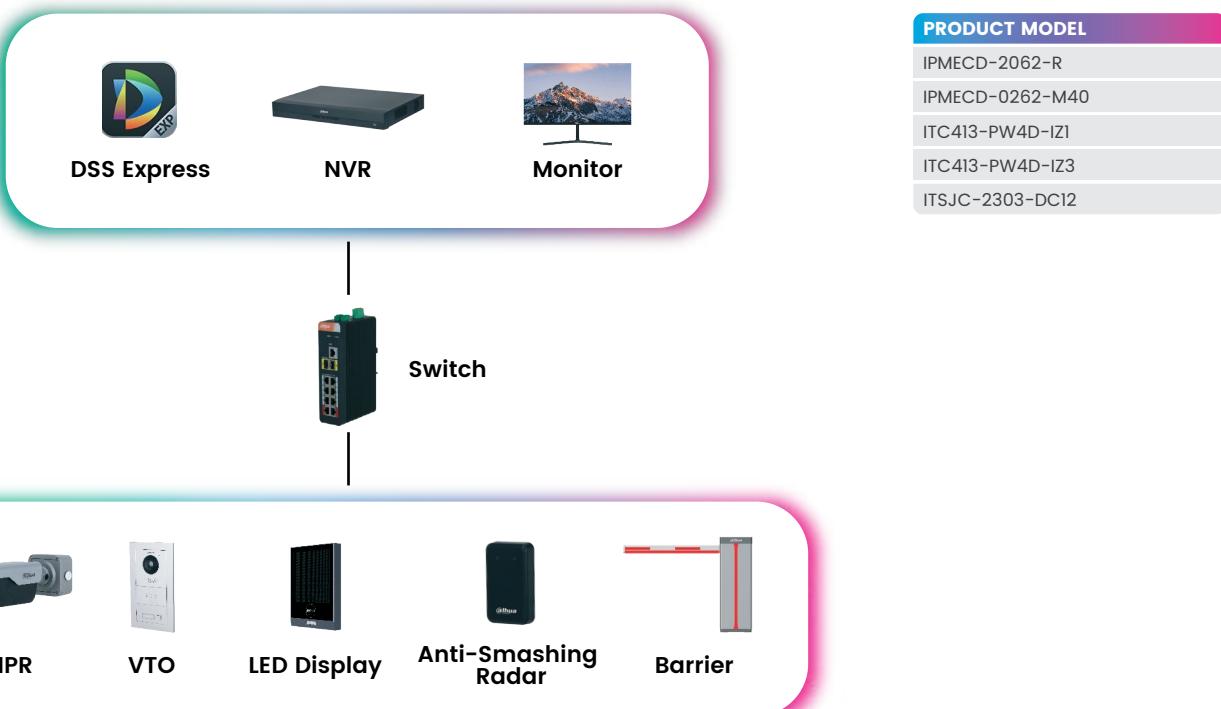
Long queues for manual access verification and recording processes has significantly contributed to a deterioration in the overall user experience.

3 Outdated manual recording

It is extremely challenging to track entry and exit records of vehicles through manual documentation.

TOPOLOGY

Management Center



BENEFITS & VALUE



Efficient Verification

Automatic license plate recognition can help prevent entry of unauthorized vehicles.



Non-stop Access Experience

The barrier, integrated with ANPR technology that recognizes license plates in just 0.8 seconds, enables accurate and efficient vehicle access, ensuring a smooth driving experience.



Visual Record & Search

Visual verification of alarmed events and efficient monitoring of vehicle access enable safe passage and simplify record-keeping and searches.

APPLICATION SCENARIOS



Apartment



Hotel



Factory



Office



FIRE LANE PARKING DETECTION

SMB Solution

Prevent Fire-lane Blocked, Keep Life Safer

CHALLENGES

The fire lane is a crucial pathway that significantly impacts the safety of people and their properties. However, it is often blocked by vehicles, leading to irreparable loss. Conventional manual inspections of fire lanes cannot provide constant 24/7 monitoring, and illegal vehicle parking cannot be discovered promptly. Additionally, the lack of sufficient evidence makes it difficult to address violations after they occur.

1 Irreparable loss

Obstruction of fire lanes can cause severe loss and damage.

2 Unable to response promptly

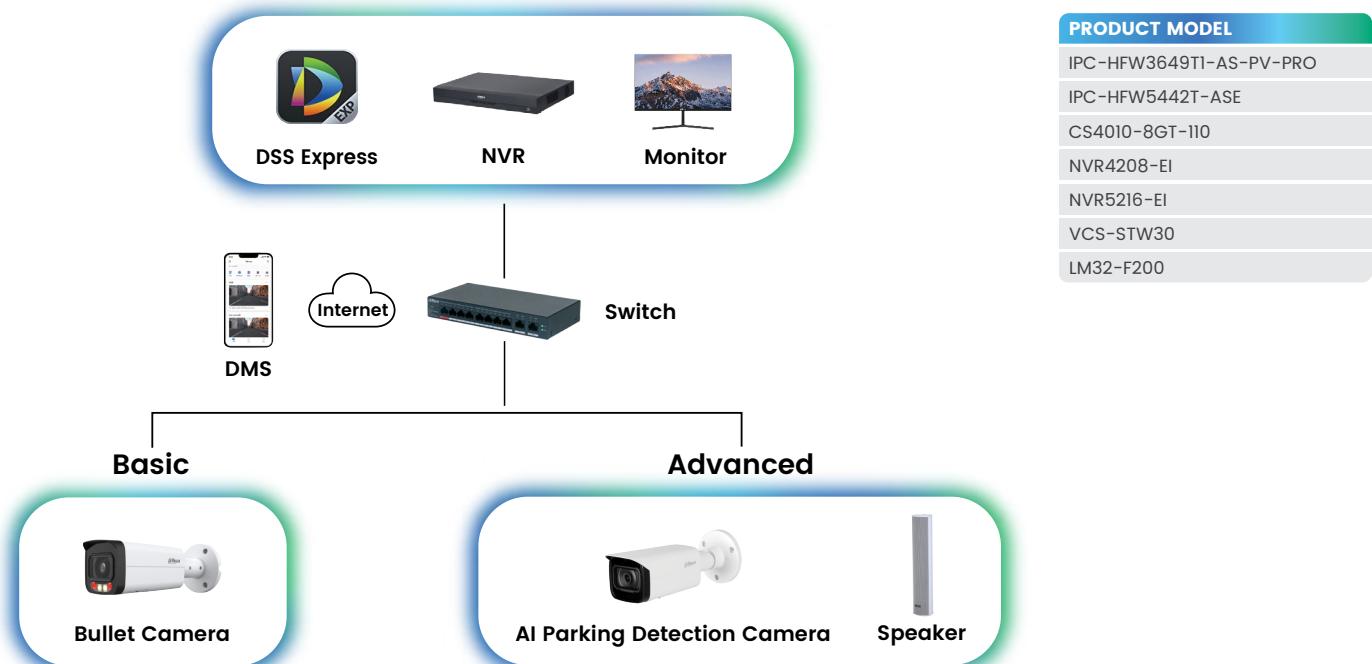
Conventional manual inspections cannot provide constant 24/7 monitoring, making it difficult to detect fire lane obstruction in time.

3 Lack of evidence

The lack of evidence makes it difficult to track back violations after they occur.

TOPOLOGY

Management Center



BENEFITS & VALUE



Round-the-Clock Accurate Detection

Our system offers continuous 24/7 monitoring, using advanced AI algorithms to detect vehicle parking in fire lanes.



Instant Security Notifications

The system generates immediate notifications for security personnel to respond promptly.



Clear Video Recordings

Clear video recordings of fire lane obstruction can serve as evidence for investigation.

APPLICATION SCENARIOS



Apartment



Factory



Industrial Park



School



OVER SPEED DETECTION

SMB Solution

Safe Driving Reminder, Reduce Road Accident

CHALLENGES

Overspeeding in gated areas such as industrial parks and school campuses can result in casualties and property damages. Despite intensified efforts, various challenges still remain in regulating driver behavior and collecting adequate evidence for law enforcement.

1 **Casualty & property damage**

Fast vehicles in gated areas can cause severe property damages and accidents.

2 **Ineffective warning sign**

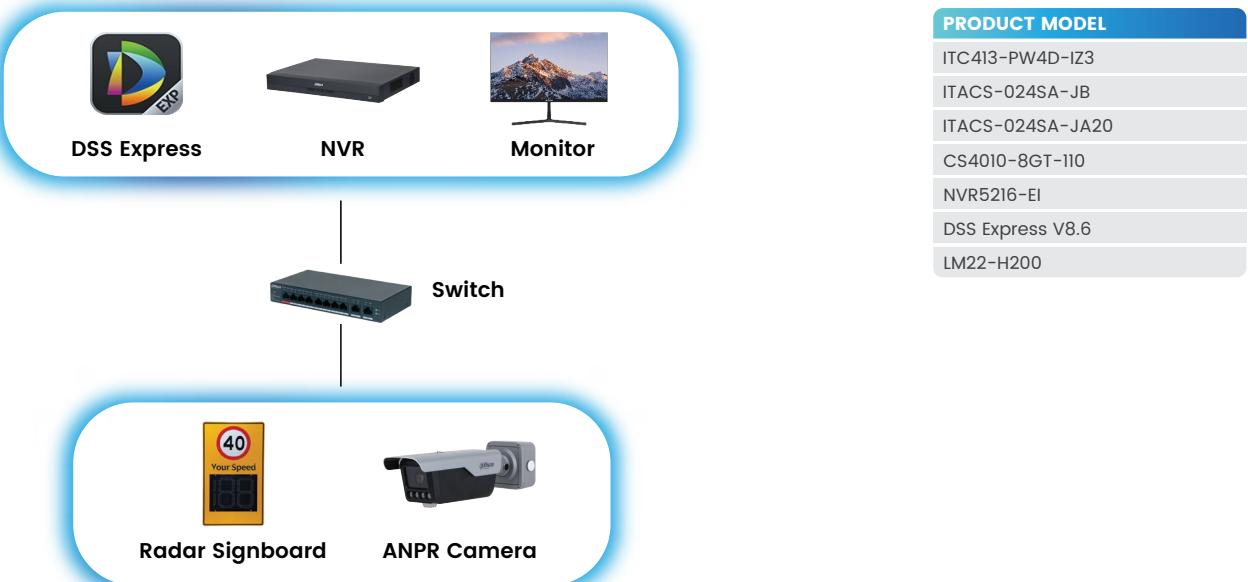
Traditional signage is not effective in alerting drivers and regulating their driving behavior.

3 **Lack of adequate evidence**

Fast vehicles in gated areas can cause severe property damages and accidents.

TOPOLOGY

Management Center



BENEFITS & VALUE



24/7 Speed Monitoring and Detection System

The 24/7 high-precision all-weather vehicle speed monitoring system enhances safety by ensuring continuous monitoring, accurate data collection and reduced response time.



Real-time Speed Display with Audio Alerts

Real-time speed display with audio alerts enhances safety by providing immediate feedback, increasing driver awareness, and promoting compliance with speed limits.



Streamlined Video Evidence Retrieval

Streamlined video evidence retrieval improves time efficiency, information accuracy, and case management for law enforcement.

APPLICATION SCENARIOS



Villa District



School



Industrial Park



AI-POWERED SURVEILLANCE

SMB Solution

Real-time Intrusion Detection, Efficient Event Processing

CHALLENGES

An industrial park integrates personnel, assets, equipment, and machinery. Conventional personnel surveillance cannot provide 24/7 comprehensive coverage without blind spots. When an intrusion occurs, security often fails to detect or respond promptly. When a security incident is reported, the delay in retrieving video footage makes timely responses difficult. As a result, even with significant investments in security personnel, there are always potential risks of property loss within the park.

1 Property loss

The absence of 24/7 manual surveillance and comprehensive coverage results in theft, property damage, and loss.

2 Delayed detection

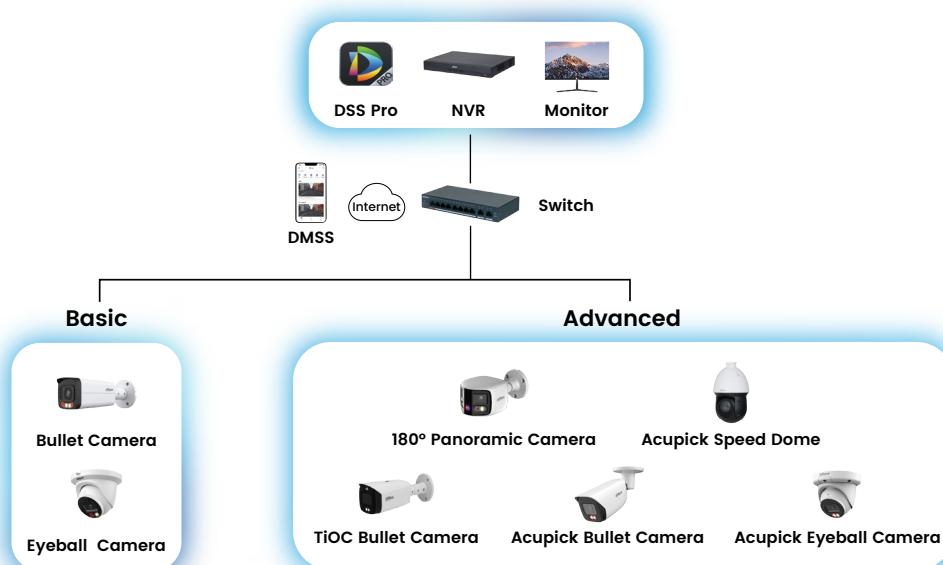
Security personnel often miss intrusions and fail to respond in a timely manner.

3 Prolonged response time

Slow and ineffective responses to unusual activities occurring in the park.

TOPOLOGY

Management Center



TOPOLOGY	PRODUCT MODEL
Basic Camera	IPC-HFW2449T-AS-IL IPC-HFW3649E-AS-IL IPC-HDW3649QM-S-IL IPC-HDW3649H-AS-PV-PRO IPC-HFW3649TI-AS-PV-PRO IPC-PFW3849S-A180-AS-PV SD49425GB-HNR
Advanced Camera	CS4010-8ET-110 NVR5216-EI NVR4208-EI
Back-end Device	DMSS DSS Agile 8

BENEFITS & VALUE



24/7 Complete Monitoring

Continuous 24/7 video recording offers detailed, complete coverage of corridors, lobbies, production areas, etc.



Real-time Detection & Alarm

When the AI camera identifies an intrusion into the warehouse or unauthorized access to restricted areas, security personnel receive real-time notifications to take necessary action.



Instant Retrieval for Quick Action

Acupick technology enables efficient video retrieval for swift investigations and immediate action.

APPLICATION SCENARIOS



Industrial Park



Hotel



Mall



Factory



ELEVATOR CONTROL

SMB Solution

Personal Floor Management, Enhanced Resident Security

CHALLENGES

Elevator control is essential in facilities such as apartments, hotels, and offices, but it often encounters challenges related to security, flexibility, and efficiency. Elevators may struggle to restrict unauthorized visitors from accessing certain floors or areas. The absence of floor visit records complicates investigations after incidents. Furthermore, controlling access to specific floors according to roles and schedules can be challenging.

1 Property loss

The lack of 24/7 floor access control leads to unauthorized access and potential property loss.

2 Investigation difficulties

When property loss occurs, there are no records available for retrieval or investigation.

3 Complicated management

Custom floor access permissions and schedules are needed for different roles, complicating management.

TOPOLOGY

Management Center



DSS Pro



Monitor



Card Register



Fingerprint Reader



Switch



Controller



Control Module



Card Reader



Fingerprint Reader

PRODUCT MODEL

ECC02
ECC-VTM416
ASR2101A
ASMI01A
ASI6214J-MFW-V1
VTO652IK-S2
VTOB103
VTM57R
VTH2621GW-WP
HAC-UZ3-A-0360B-Eng
ASMI00-V1

BENEFITS & VALUE



Floor Access Control

Continuous 24/7 elevator access control effectively prevents unauthorized entry and helps mitigate property loss.



Evidence for Investigation

Floor access records aid investigations during incidents of property loss.



Customizable Management

Access to specific floors can be easily assigned according to roles and schedules.

APPLICATION SCENARIOS



Office Building



Hotel



Apartment



EFFICIENT MEETING ROOM

SMB Solution

Better Meeting Experience, Efficient Team Collaboration

CHALLENGES

Conventional meeting rooms often face difficulties in user experience and efficiency. Setting up the whole meeting system requires multiple independent subsystems for audio, screen projection, and meeting software, which increases costs and compromises a seamless experience. Users frequently struggle with unstable connections between these subsystems and inadequate display quality. During remote meetings, time is often wasted due to poor communication and the absence of effective online collaboration tools.

1 High multisystem cost

Conventional meeting systems come with high costs because they require multiple separate components, such as projectors, whiteboards, audio systems, video cameras, and online conferencing software.

2 Unsatisfactory meeting experience

Meeting projections suffer from unreliable connections and subpar display performance.

3 Inefficient collaboration

The absence of effective collaboration tools leads to decreased productivity, particularly in remote online meetings.

TOPOLOGY



Interactive Whiteboard



DeepHub Meeting Software

PRODUCT MODEL

LPH75-MC480

PKC-MSOA

PKP-WPIB

PKC-WMIA

PKP-PIA

PKC-WMIA



Digital Microphone



Screen Sharing Type-C Dongle



Screen Sharing USB Dongle



Interactive Pencil

BENEFITS & VALUE



Economic All-in-One Design

DeepHub's all-in-one design includes a whiteboard, microphone, projector, camera, speakers, and online meeting software.



Seamless Experience

One-click screen projection with reliable performance guarantees a smooth and seamless experience.



Efficient Collaboration

Equipped with AI-assisted tools for local discussions and remote collaboration, significantly boosting efficiency.

APPLICATION SCENARIOS



Office



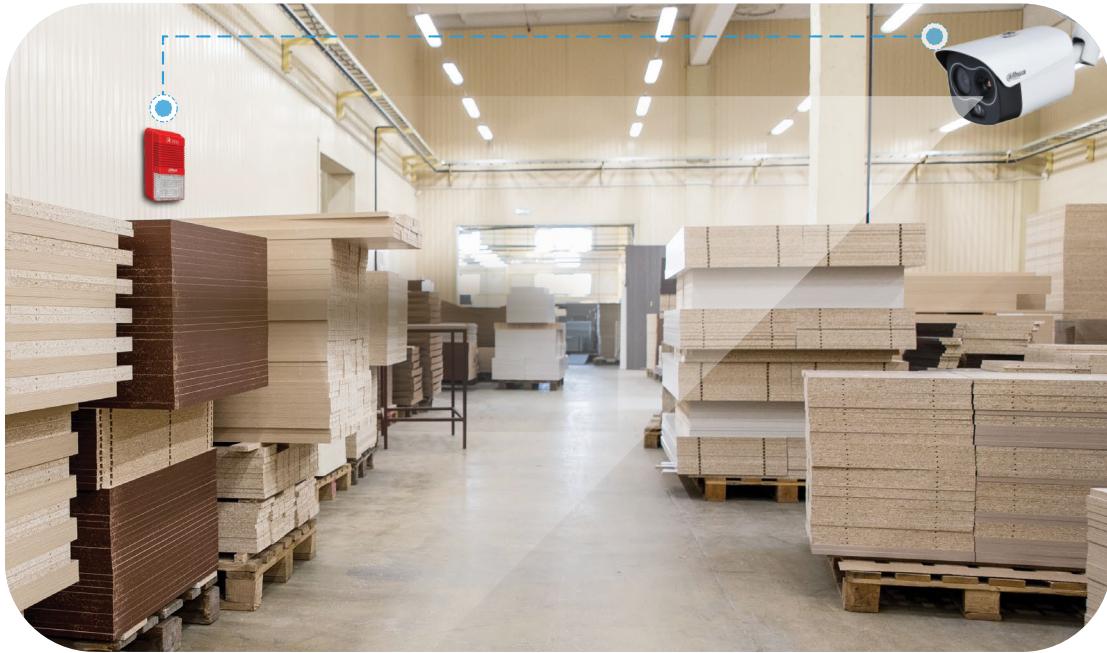
Factory



School



Hotel



PRECAUTIONARY FIRE PREVENTION

SMB Solution

Temperature Anomaly Warning, Fire Damage Prevention

CHALLENGES

A warehouse is a crucial component of a factory supply chain. Warehouse owners often face fire risks. It is difficult to prevent and detect potential fire hazards, provide early notifications, manage proper handling of these risks, and gather sufficient evidence to determine the cause of fire.

1 Difficulty in identifying fire risks

The lack of a fire detection system makes it difficult to identify potential fire hazards.

2 Delayed response to fire emergencies

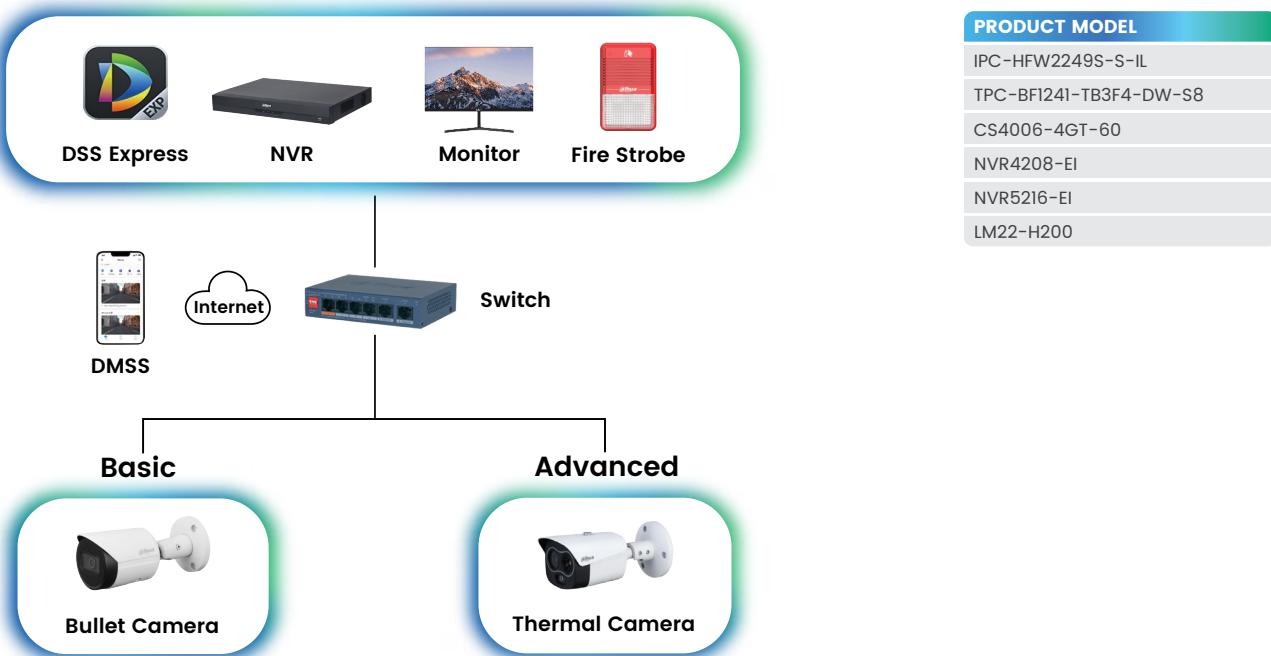
Delay in fire notification can lead to a consequent delay in fire response, amplifying the spread of fire and causing severe property damage.

3 Insufficient evidence

Determining the cause of the fire is challenging due to insufficient evidence, resulting in an unreliable conclusion.

TOPOLOGY

Management Center



BENEFITS & VALUE



AI Detection of Temperature Abnormalities

Advanced AI-powered system continuously monitors temperature fluctuations and abnormalities in real-time.



Immediate Fire Alerts

Early fire alerts enable rapid response, enhance safety, protect property, reduce financial losses, and improve emergency response coordination.



Clear Video Recordings

High-quality video footages aid thorough investigations regarding the cause of fire.

APPLICATION SCENARIOS



Warehouse



Granary



Power Plant



EAS LOSS PREVENTION

SMB Solution

Timely Shoplifting Deterring, Avoid Property Loss

CHALLENGES

In today's shopping industry, store owners are trying to reduce losses from shoplifting, but are faced with a multitude of challenges. These challenges range from a lack of accurate theft detection at entrances and exits to untimely event notifications resulting in inefficient security responses, as well as difficulties in retrieving evidence for further investigation.

1 Lack of accurate theft detection

The accuracy of shoplifting detection is critical. Any alarm failure can lead to significant losses in the store.

2 Untimely alerts of incidents

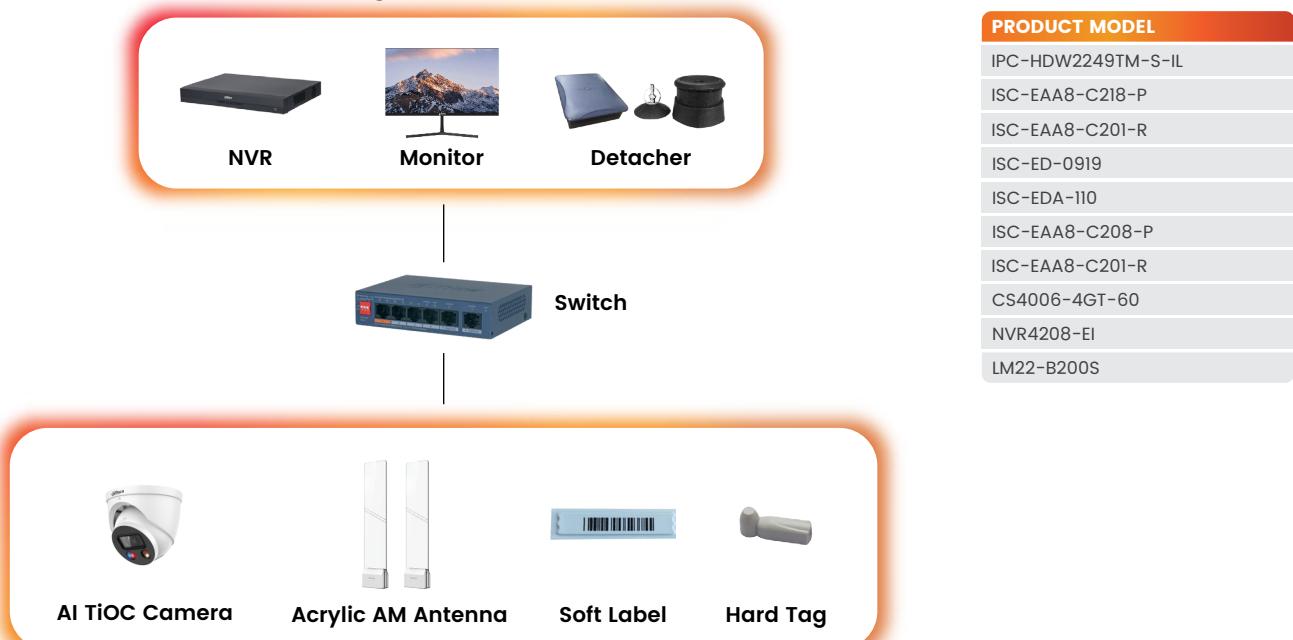
Delayed alarms can hamper the efficiency of security personnel, which can lead to irreparable damage.

3 Difficulties in gathering evidence

The lack of sufficient evidence often hinders effective law enforcement and resolution of incidents.

TOPOLOGY

Management Center



BENEFITS & VALUE



Accurate Shoplifting Detection

Accurate shoplifting detection ensures precise detection of shoplifted items, significantly reducing false alarms and missed incidents.



Prompt Notifications and Alerts

Timely notifications and alerts enable quick response, enhance security, reduce losses, improve staff's awareness, and aid accurate evidence collection.



Efficient Video Evidence Retrieval

Efficient video evidence can be retrieved, thus improving the responding speed, streamlining investigations, and optimizing resource use.

APPLICATION SCENARIOS



Grocery Shop



Retail Store



Clothing Shop



ADVERTISING OPTIMIZATION

SMB Solution

Improve Customer Experience, Enhance Operation Efficiency

CHALLENGES

Conventional stores mainly depend on printed materials to communicate promotional messages and advertising information, leading to restricted content formats and inefficient update processes. Furthermore, store owners find it challenging to effectively analyze customer traffic and advertising performance. Although some luxury retailers strive to improve customer experiences by managing foot traffic, manual crowd management techniques are inefficient and susceptible to errors.

1 Inefficient content display

Traditional ad stickers and posters are difficult to replace and offer limited information.

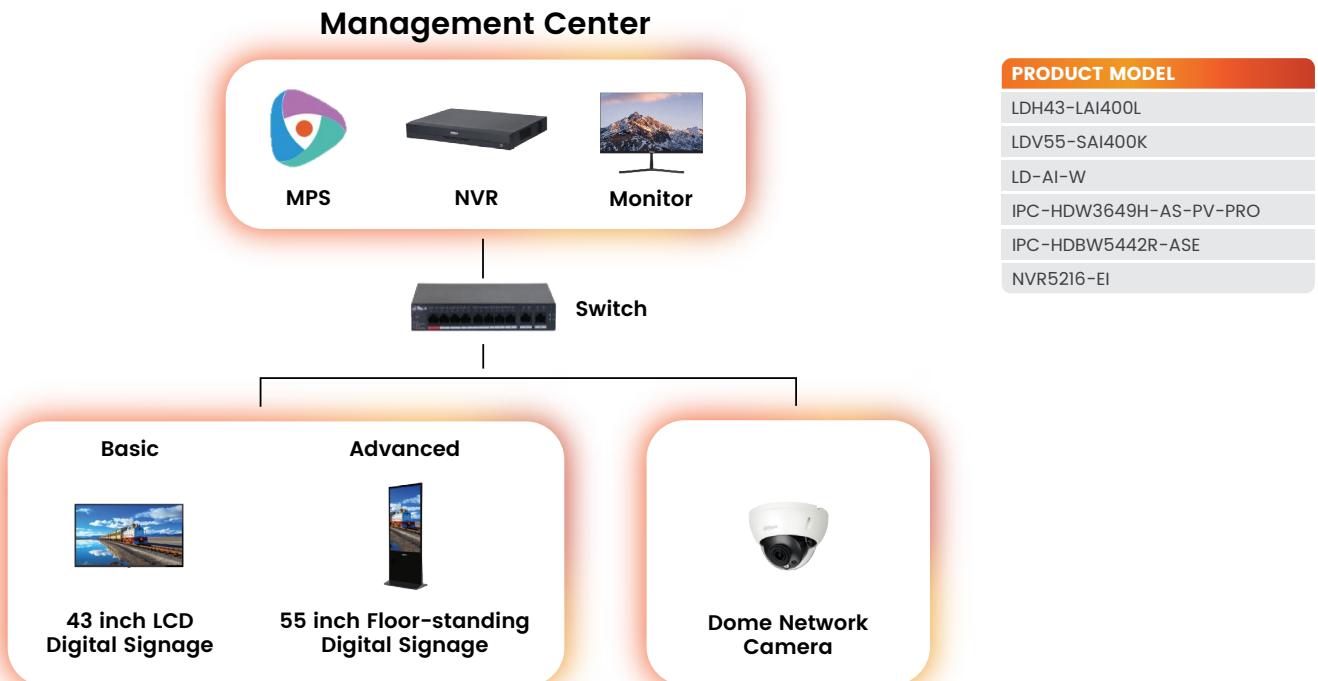
2 Inability to assess effectiveness

It is not possible to analyze how advertising impacts customer flow.

3 Ineffective crowd management

Manual crowd management can result in ineffectiveness and create a poor experience for both staff and customers.

TOPOLOGY



BENEFITS & VALUE



Multimedia Fast Setup

A variety of multimedia content is supported and can be easily configured for quick advertisement changes.



Effectiveness Analysis

By leveraging Dahua's AI Visitor Analytics algorithm, businesses can evaluate the effectiveness of their advertising and make necessary adjustments.



Effective Crowd Management

By presenting real-time statistics on store occupancy, it effectively controls crowd limits and improves the customer experience.

APPLICATION SCENARIOS



Grocery Shop



Duty-free Shop



Luxury Shop



INTEGRATED SOLAR-POWERED SECURITY

SMB Solution

Cable-free Surveillance, Unlimited Security Protection

CHALLENGES

Monitoring agricultural lands presents significant challenges. Property owners often need to dispatch personnel for regular inspections or bear the high cost of installing a camera system.

1 Loss of assets

Landowners are vulnerable to land damage and crop theft due to the lack of a comprehensive security camera system.

2 High installation cost

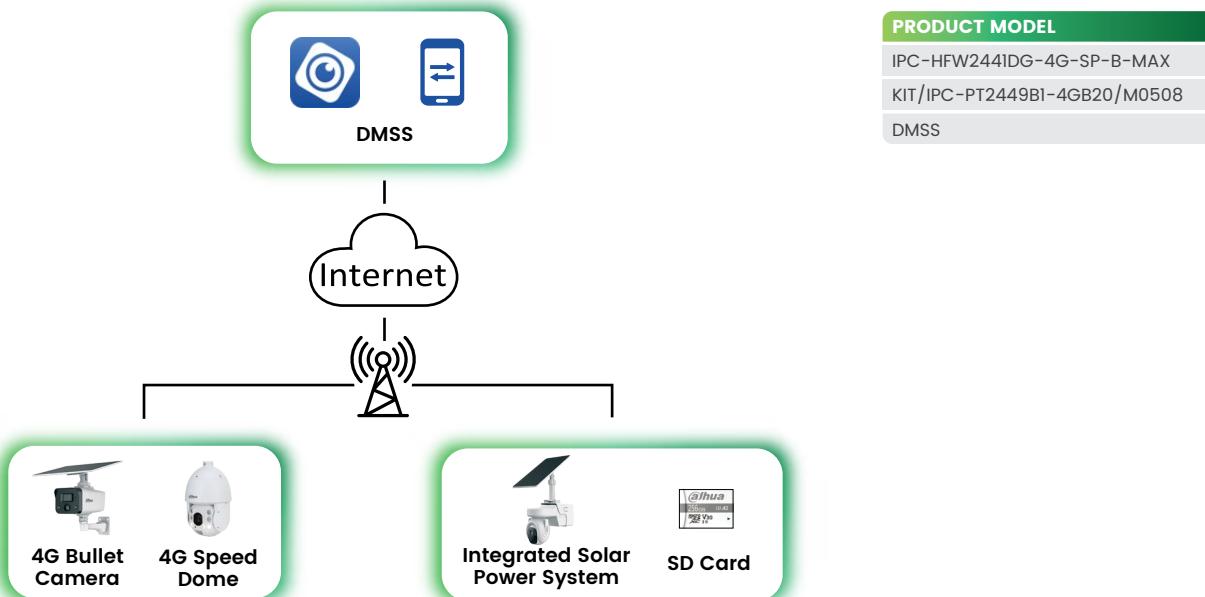
Deploying network and power supplies around agricultural lands is always complicated and expensive.

3 Lack of timely intervention

Delays in response time hinder real-time detection and management of intrusion events, compromising the security of video evidence essential for loss claims.

TOPOLOGY

Management Center



BENEFITS & VALUE



24/7 Comprehensive Coverage

Continuous 24/7 video recording provides detailed and comprehensive coverage. The system also boasts 99% accuracy in detecting intruders, minimizing property loss.



Low-cost Deployment

The all-in-one design provides a low-cost deployment with full installation within 20 minutes, significantly reducing the expenses compared to traditional cabled power and network construction.



Real-time Intrusion Alert

AI-powered detection and instant pop-up alerts are sent to the owner's devices, helping to minimize loss and damage.

APPLICATION SCENARIOS



Orchard



Fish Farm



Pasture Land



Construction Site



CONTROL CENTER

SMB Solution

Unified Efficient Management, Reliable Storage Display

CHALLENGES

The control center typically manages various subsystems and equipments, including CCTV, access control, and alarms.

1 Increased workload

Lack of cross-application visibility and control substantially increases the workload of security staff.

2 Fragmented and inefficient viewing experience

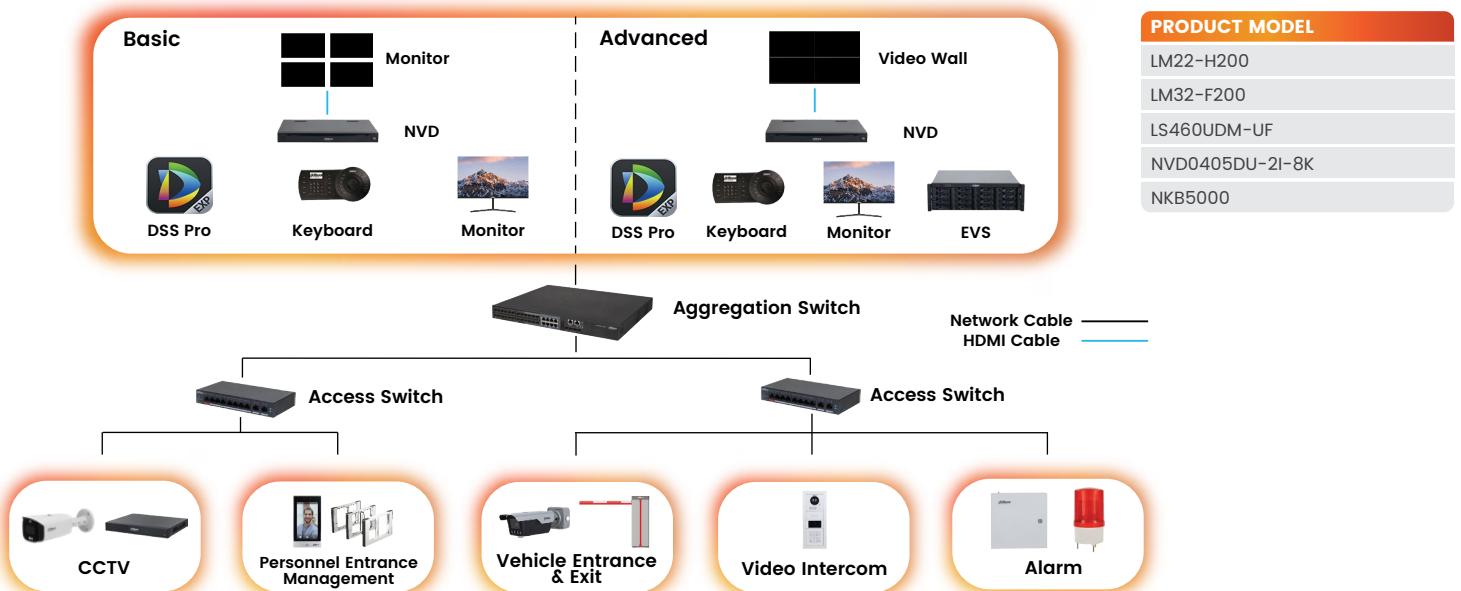
The inability to highlight important security information on multiple separate monitors leads to a fragmented and inefficient viewing experience.

3 Loss of recordings

Insurance claims could be complicated when there is a loss of recordings during event investigation.

TOPOLOGY

Management Center



BENEFITS & VALUE



Integrated Operation Platform

DSS serves as an integrated operation platform to manage all subsystems, boosting the work efficiency of security personnel.



Multi Display Cross-screen Operation

An integrated display system enhances visibility, efficiency, and decision making by consolidating diverse information sources with flexible content arrangement.



Dual Storage Protection

Dual storage with NVR and EVS enhances reliability, protects data, improves security, and prevents evidence loss for event investigation and insurance claim.

APPLICATION SCENARIOS



Factory



Construction Site



Hotel



School



OFFICE INTEGRATED MANAGEMENT

SMB Solution

Safe Office Environment, Efficient Personnel Management

CHALLENGES

In the offices of small and medium-sized companies, challenges often arise related to security, efficiency, and user experience. Outdated office setups struggle to effectively identify authorized and unauthorized personnel, potentially leading to losses of company property. Additionally, manual attendance check-ins are inefficient and prone to errors. Furthermore, receptionists may not be promptly aware of visitors waiting outside, resulting in long wait times for guests and a poor overall experience.

1 Property loss

Experience challenges in effectively detecting authorized and unauthorized personnel.

2 Ineffective manual attendance

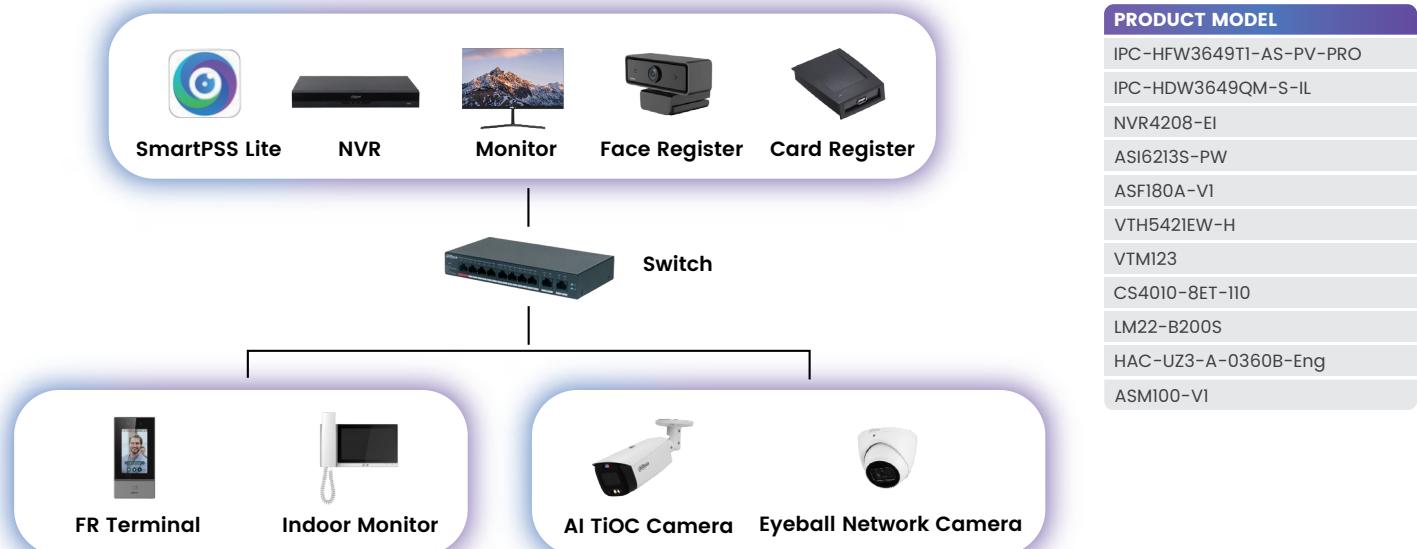
Manual tracking of employee attendance is both ineffective and susceptible to errors.

3 Unsatisfactory visitor experience

Incoming visitors can sometimes go unnoticed, resulting in longer wait times.

TOPOLOGY

Management Center



BENEFITS & VALUE



Prevent Unauthorized Entry

Face/card authentication effectively prevent unauthorized entry.



Effective Attendance Management

Digital attendance statistics enhance management efficiency.



Improved Visitor Experience

Immediately notify the front desk upon a visitor's arrival.

APPLICATION SCENARIOS



Office Building



Industrial Park



School



VILLA INTERCONNECTION SECURITY

SMB Solution

Residential Security Protection, Better Interactive Experience

CHALLENGES

Residents often use alarm systems, video surveillance, and intercom systems in their villas for security management and visitor control. However, when these systems are from different brands and operate independently, users face challenges such as a poor experience due to the lack of integration. For instance, the IPC AI cannot be armed by the alarm system, or video may not be linked when an alarm is triggered.

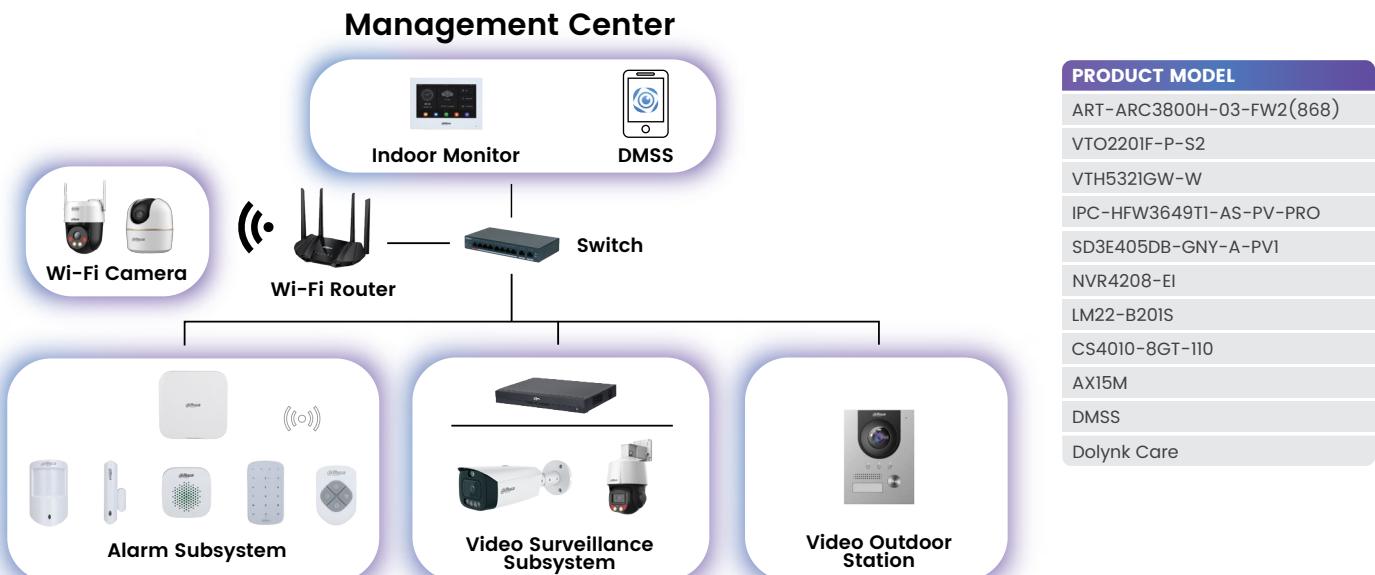
1 Separate systems

The IPC AI functions cannot be activated by the alarm system, video feeds cannot be linked when an alarm is triggered, and outdoor video stations cannot be recorded on the NVR.

2 No unified management and integration

Alarm system arming and disarming, message checking with video, CCTV live view and playback, and intercom receiving cannot be operated from a unified panel or app.

TOPOLOGY



BENEFITS & VALUE

Comprehensive System Integration

- Comprehensive line of integrated indoor and outdoor detectors.
- Authenticate every alarm with clear visual evidence.
- Integrate the video's AI capabilities to enhance the alarm system's multi-sensing detection.
- Live sound alerts to deter potential intruders.

Integrated Operations

- Arm and disarm status by using your phone or tablet.
- Receive instant alarm notifications through siren alerts, app notifications, and tablet message pop-ups.
- Access live CCTV video on your phone or tablet.
- Connect with guests and control gate access from anywhere.

APPLICATION SCENARIOS



Villa



Luxury Resort



Smart Community

ENABLING A SAFER SOCIETY AND SMARTER LIVING

*) Design and specifications are subject to change without notice.

Ver. 1 (CEEN), Apr. 2025



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TECHNOLOGY

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