

AI & BI Assist Retail Transformation And Upgrade

Dahua smart retail solution





Loss Prevention



Better Experience



Operation Management

RETAIL CHALLENGES AND SOLUTIONS

The retail sector has felt the disruptive impact of the internet more than most industries. Some have reacted to online competition by closing physical stores, while others are attempting to reinvent them for the digital age.

Traditional retail lacks tools for effective data collection and visualization, making it unable to provide basis for decision-making in the store.

Dahua Smart Retail solutions help retailers to digitally transform and respond to increased industry competition through the use of innovative retail technology. Let's take a look at the advanced retail technology that helps retailers gain a competitive advantage.







STORE LAYOUT



Store Room • Cardless Access Control Office • Custor • Custor • Merch • Resour



Store Floor

- Al Heat Map
- Regional People Counting
- Smart Advertising Signage



Checkout Counter • Queue Management • POS Integration



Customer Flow Analysis
Customer Demographics
Merchandise Insight
Resource Management



VIP & Thief Recognition
Customer Demographics

APPLICATION AREA

---- Entrance



backgrounds to ensure high accuracy of data.

Compared to e-commerce, the traditional retail industry faces many challenges in accurately calculating the flow of visitors and efficiently adjusting business operations according to flow analysis and conversion rates.

• People Counting

Shows exactly the number of customers entering and leaving the store in order to optimize staff schedules accordingly. 3D People Counting Cameras can distinguish people from objects and



• VIP & Thief Recognition

Notify your staff to provide VIP service when members enter the store, improving shopping experience;

Or alert them to pay attention to suspicious individuals when they enter the store to prevent any losses.

• Customer Demographics

Understand customer base composition and traffic analysis of different customer segments. Know your customer better to create more sales opportunities.



Store Floor



When paired with a fisheye camera, shelf areas are fully covered and advanced analysis can provide a visitor flow distribution heat map.

Increased surveillance coverage provides a safe shopping environment by reducing theft on customers' belongings and retail goods.

• Al Heat Map

Understand which area attracts more customers and which products draw more customers' attention through AI Heat Map. AI fisheye camera generates a heat map according to the number of people and dwell time in the area.





• Regional People Counting

Know the number of people and the average dwell time in specific areas in order to determine whether marketing strategy needs to be adjusted.



• Smart Advertising Signage

Promote products to your customers according to their attributes such as age, gender, and mood to intelligently draw their attention and to increase the efficiency of your marketing campaigns.





Checkout Counter



Customer disputes and cashier fraud frequently occur at the checkout counter.

HD video, audio, and POS overlay can identify problems and provide evidence of wrongdoing.

Long waiting time affects the shopping experience.

Queue management helps managers in adjusting the number of checkout counters through real-time queue data in order to reduce customer waiting time.

• Queue Management

Alert the manager to open another checkout counter in time if the queue length and dwell time exceeds the threshold to create better shopping experience.



• POS Integration

Video and corresponding POS information can be shown simultaneously in both live and playback mode. The system also supports text search to find bills and their associated video recordings.





POS Integration at NVR

Office



• Customer Flow Analysis

Entry rate

Understand whether the store attracts customers using the entry rate data that shows how many people enter the store and how many people pass by.

Customer flow

It shows the total number of customers in the store at different times, as well as the number of customers from each entrance. The report can be filtered by day, month or year.

• Customer Demographics

Traffic by age

The relationship between age distribution and time. It is useful in searching the data flow based on age.

Traffic by gender

The relationship between gender and weather. It shows the impact of weather on customers of different genders.

Customer segments analysis

The relationship between weather and customer segments. It presents the analysis between weather and customer segments using a river-like chart.





• Store management

Manage your retail chain

anytime, anywhere.

Merchandise Insight

Discover which products draw more attention based on how many customers visited specific areas and how much time customers spend in those areas.

• Resource Management

- ▼ 🖬 Stores
 - 🔻 📅 Al Tester
 - 🏛 Mall Artha Gadin
 - 🏛 Mall Taman Ang
 - 🏛 Kuningan City M
 - 🏛 Lippo Mall Kema
 - 🏛 Aeon Mall



• System management Real-time monitoring and maintainance of the system and the devices.

Storeroom



Cardless Access Control

The facial access control can remarkably prevent losses by only authorizing the right personnel to enter the area.

Parking Lot



• No Ticket and No Stop

Vehicle access is controlled by ANPR Camera, without any tickets. It improves traffic flow with no delays.

• Vehicles Record

Quickly search specific vehicles based on relevant information such as plate number, color, etc.



For a 260 meters x 70 meters parking lot ,Conventional IP System need more than 60 IP Cameras 3 Panoramic + PTZ Cameras can replace more than 60 Conventional IP Cameras in this parking lot

• Super Panoramic 4X2MP

Saves construction costs and wiring Supports 360-degree panoramic view Supports Auto-tracking and Tripwire, Intrusion

SYSTEM STRUCTURE





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PRODUCT SELECTION



PRODUCT SELECTION

ASI7214Y



- 7 inch LCD, touchscreen, resolution 1024 (H) × 600 (V)
- Human face images, fingerprints, cards and passowrds can be recorded
- Face recognition distance is 0.3m–2m, human height range is 1.1m–2.4m
- Face verification accuracy>99%; face comparison speed ≤0.5s per person; false recognition rate<0.1%
- Supports 30, 000 users, 30, 000 cards, 30, 000 passwords, and 50 administrators.
- Supports liveness detection

DH-LDV49-SAI200



- High quality panel, industrial-grade design, full metal casing, 5mm tempered protective glass
- Dahua MPS platform provides unified remote management for system integrators and media operators
- Strong 4 core processor provides powerful decoding capabilities
- Built-in media player software and USB player provide multiple methods to play contents.

DHI-IVSS7016DR-4I



- Intel quad-core processor
- Max 512Mbps incoming bandwidth
- 256 Channel IP video access
- Up to 16 Channel video stream face recognition
- Up to 40 Channel picture stream face recognition
- Regular/stranger mode/ search by image
- Face database management
- Supports RAID 0/1/5/6/10
- 3HDMI/1VGA video output



- H.264 dual-stream video compression
- Up to 25fps@1080P resolution recording
- Supports "one-key" to start record, take photos, alarm
- HD LCD, Support touch screen

MPT310

- Supports hot-swap SD card storage
- Wireless access: Bluetooth, Wi-Fi ,2G,3G, 4G
- Supports GPS and GLONASS
- Supports Bluetooth, fingerprint identification, license

DH-NVR5208/16/32-4KS2



- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Max 160 Mbps Incoming Bandwidth
- Max 320Mbps Outgoing Bandwidth
- Up to 12MP Resolution for Preview and Playback
- HDMI/VGA simultaneous video output
- 3D intelligent positioning with Dahua PTZ camera

DSS Pro



- Easy function upgrade via add-ons
- Backup and restore database
- Supports hot standby for master server
- Dahua's devices included: network camera, network speed dome, decoder, NVR, DVR, ANPR, etc.
- Connects third-party devices via standard ONVIF protocol
- DSS Pro SDK for third-party platform or mobile development

PRODUCT OVERVIEW

Product		Entrance	Store Floor	Checkout Counter	Storeroom	Office	Parking Lot
DH-IPC-EBW81242			٠	٠			
DH-IPC-HF7442F-FR		•					
DH-IPC-HDW8341X-3D	atar	٠		٠			
DH-IPC-HDBW4431E-AS				٠	•		
DH-SD12203T-GN	Y		•				
DH-IPC-HDBW4231F-E2			•				
DH-IPC-PFW8802-A180							•
DH-PSDW81642M-A360	The second se						•
ITC215-PW4I-LZF27135							•
DH-ASI7214Y					•		
DH-ASI1212A(V2) /-D(V2)	23:45				•		
MPT310	atopa		•				
DH-LDV49-SAI200	86					٠	
DH-NVR5208/16/32-4KS2						•	
DHI-IVSS7016DR-4I						•	
PFM885-I	ater		•				
PFS4228-24P-370							
DSS Pro						•	

SUCCESS STORIES

With more than 16,000 employees and over 50% engaged in R&D, Dahua solutions, products, and services are applied in over 180 countries and regions.

We have cooperated with more than 8000 retailers worldwide. We are comitted to help our customers achieve digital transformation with AI and BI technology. It will significantly enhance customers' shopping experience and will enable smart operation of the store to generate more revenue.



ENABLING A SAFER SOCIETY AND SMARTER LIVING

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