



Dahua technology

IPC Product Overview

Pro series

High quality, powerful performance Design for the SMB market.

Lite series

High cost performance, high definition.

Design for the distribution market.







Special series

Pinhole camera, mobile camera.

Design for the industry market.



Ultra series

High end products
Project oriented, for the safe city.



Panoramic

All in one design, multi-sensor camera, fisheye. Design for the industry market.

IPC Product Overview

Ultra-AI

Target market: government, enterprise industry project

Product strategy: high end project, some algorithms can be used simultaneously

High lights: 8 AI algorithms, 30 metadata







IPC7 Series

Pro-AI

Target market: SMB market

Product strategy: Design for SI and installer, support 4 AI functions

High lights: 4 AI algorithms, 6 metadata

(face capture/people counting/metadata/perimeter protection)



IPC5 Series

Value-AI

Target market : distribution market

• Product strategy: Enter level choice for AI solution popularization

• High lights: 2 AI algorithms

(human/vehicle classification, perimeter protection)



IPC3 Series

Pro series | Product family

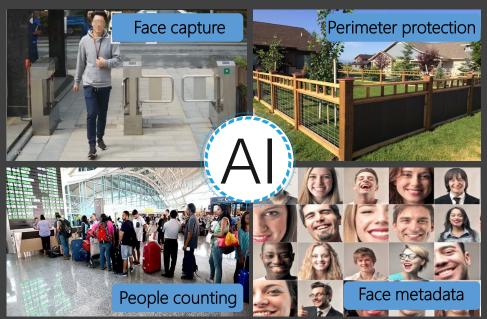




120dB WDR / Starlight+ Technology (4Mp) / Smart IR Technology / ePOE (-E,-ASE,ZE,ZHE)
SSA Technology / H.265+ Smart Codec / 7~35mm long-focus Lens(F1.3)/ IP67 Waterproof / IK10 Vandal proof /

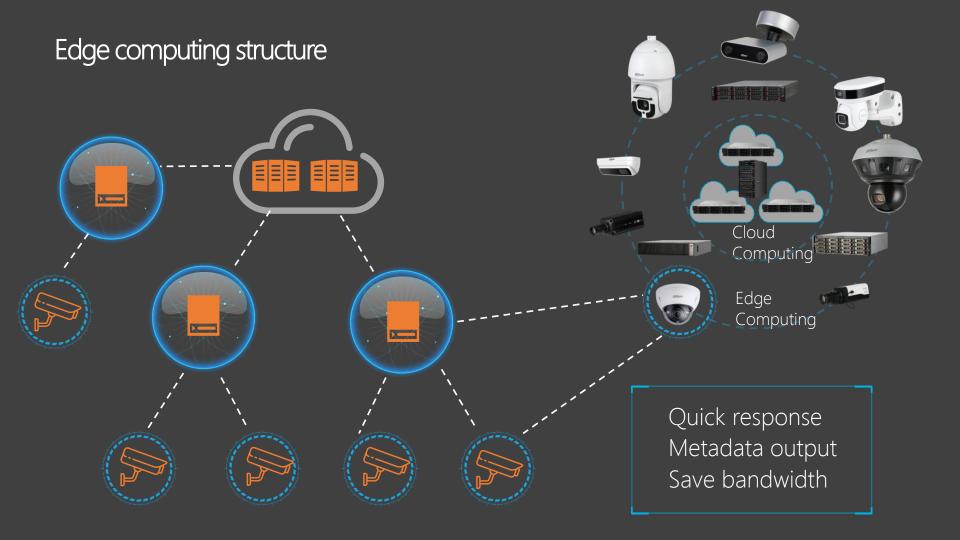
Pro Series | More functions create more value











Surging power for SMB market

Design for SMB market

AI series products adopt the most advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users.

This enables the Dahua AI series to offer various advanced applications such as face recognition, metadata, people counting, perimeter protection, etc.



Active deterrence

Active deterrence is to warn off intruders actively with white light and siren

Full color

Full-color starlight cameras are prefect for applications of low-light conditions

Perimeter protection

Perimeter Protection reduces false alarms and decreases pixel count requirements for object detection.

People counting

The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

Face capture (Metadata)

Dahua cameras use advanced deep learning algorithms, enabling the camera to locate faces quickly and accurately from the video source and capture facial images.

Advantages of face capture

Customer business



control



Blacklist

alarm





Application









4 FR cameras

AI by NVR





16 FD cameras

NVR5216-8P-I

Typical application



Safe city



Barrier



Airport



Casino



Railway station



Industry park

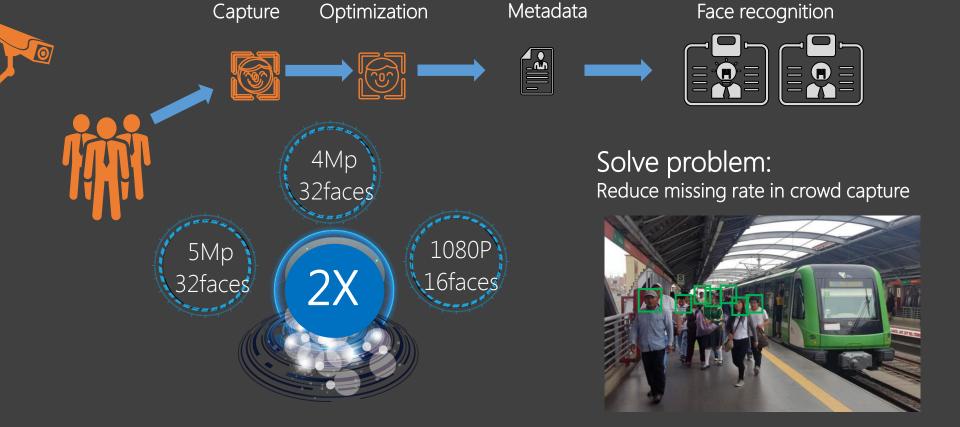






Reduce cost per channel

Detection improvement: 2X



Large area face capture

Open square





Long and narrow corridor





Aspect ratio 4:3
Cover long distance, ensure capture all faces

Unrestraint application | all day, all scenes

4Mp Starlight+ Capture clear face in poor light



Powerful face detection

Max. 32 faces per picture, suitable



SSA
Capture clear face even in backlight



Different housing, different lens, suitable for different scenes



Unrestraint application | all day, all scenes



large aperture when zoom in and zoom out





Suitable for the open and low light scene

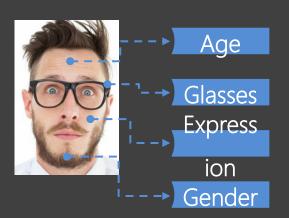


Cover distance for face capture



Note: camera height > 2.5m, people height 1.7m, face pixel size: 80*80

Metadata: quick search and commercial freemium



Quick search, instant response



Commercial freemium



Security application





Client portrait





Practical application of face capture



Application value

Blacklist alarm
Ensure the plane safe
Offer advice for the airline

Application background

There are some unwelcome passengers in airline's database: like fighting or criminal record. Even though they have passed the airport safety check, the airline also can refuse them to board, especially when the tickets are overbooked.

Application value

Arrest the crime
Ensure the stadium safe
Provide the fair booking
environment

Application background

For the famous sports event, there are some ticket scalpers, they will resell the tickets by the more expensive price, and earning the Price spread. It harts both the fans and organizers.





Application value

Blacklist alarm
Ensure the pub safe
Reduce the pub's loss

Application background

There are some unwelcome customers in operator's database: like **fighting or criminal record**. When they arrive the pub, the system can **push a notification** to the staff, to make a **close notice** about the target.

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People counting- Performance improvement





Ensure Surveillance & People Counting



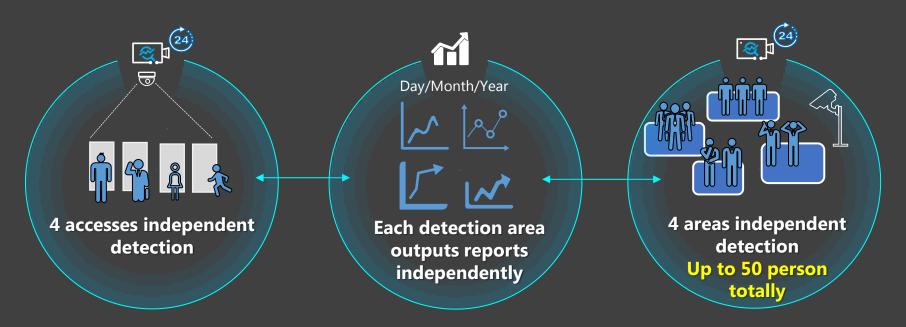






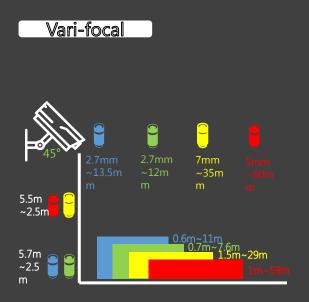


People Counting – Upgrade of algorithm



4x Efficient

People Counting – Cover distance





People Counting – Typical scenario



- Measure the number of customers or visitors
- Evaluate and improve marketing and promotional activities
- · Analyze relevant footfall statistics



- Optimize staffing schedules and daily operations
- Security monitoring



- Measure the number of customers or visitors
- Optimize staffing schedules and daily operations
- Analyze and share relevant footfall statistics
- · Security monitoring



- Measure the number of visitors
- Analyze and share relevant footfall statistics
- Security monitoring

Mall

People counting

Output reports

Bank

- Multi-area people counting
- Long time detention alarm
- Output reports

Retail

- Multi-area people counting
- Long time detention alarm
- Output reports

Museum

- Multi-access people counting
- Output reports

Access Counting

Queuing Management

Regional Hotspot Analysis

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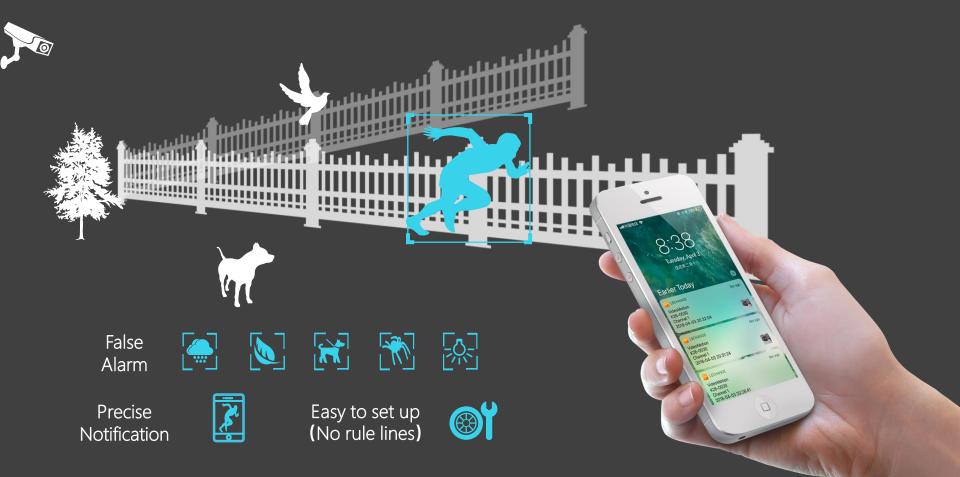
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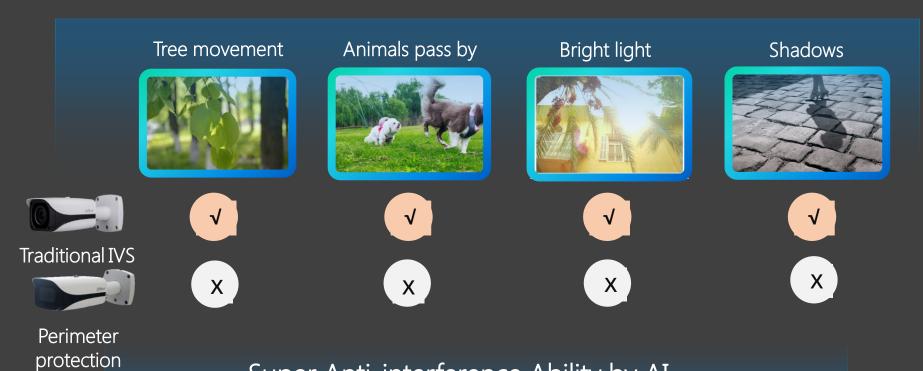
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SMD(Smart motion detection)

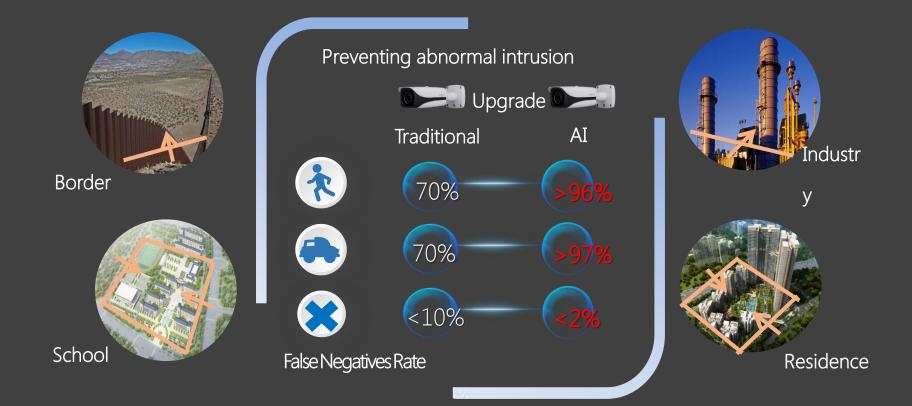


False alarm filter



Super Anti-interference Ability by AI

High accuracy

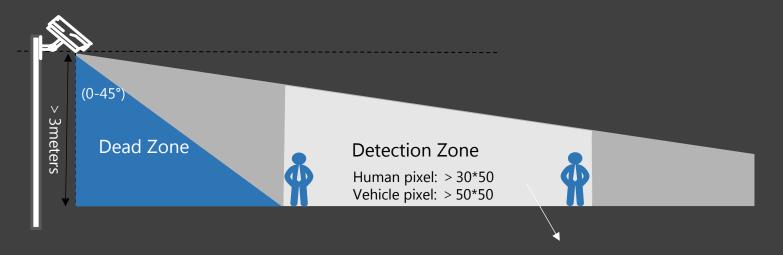


Target classification retrieval

Search by human or vehicle which can greatly reduce video search time.



Installation Guide – mounting height



Resolution		2MP				4M	Р	5MP				
Vari-focal Lens		2.7- 13.5mm		7-35mm	5-60mm	2.7-12mm		2.7-13.5mm		7-	7-35mm	
Detection Distance /m		3-25		12-60	25-100	2-23		4-37		10-80		5MP
Fixed Lens	2.8	mm	3.6mm	6mm	8mm	12mm	2.8	3mm	3.6mi	m	6mm	12mm
Detection Distance /m	1-6		1-7/8	2-12/13	3-17/18	4-25		L-4	2-6		2-9	3-27

Typical Applications of Active Deterrence

Requirement background:

- 1. Pay long time to play back the recording to check what has happened after the incident.
- 2. Can not prevent incident timely before it happened.

Monitoring Area

Private land, no entry! Valuables! Don't touch!





Limited Access Area

No parking here! Warning zone, keep off!





Danger Area

Dangerous zone, keep away! Deep water, be cautious!



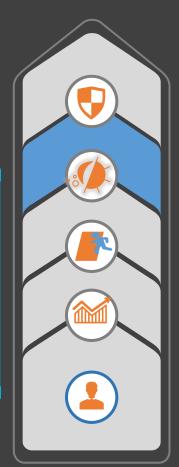


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Full color – 7/24 colorful image





Normal camera



Starlight camera



Full-color camera

All day full-color image

HDW5241T-AS-LED HDW5442T-AS-LED HFW5241T-AS-LED HFW5442T-AS-LED

Full color – Strong adaptability

Color image can provide more face attributes



Better AI experience by full color

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ePOE | Eco-friendly

Power consumption per switch is 3W, saves 21W in total



EoC | Ethernet over coax

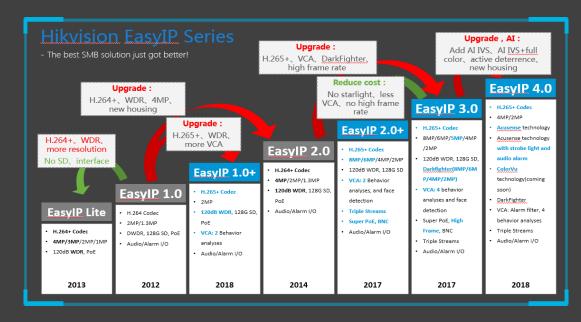
Easy upgrade from analog to P system



Competition | EasyIP 4.0 series

HIKVISION









2.7mm-13.5mm



Face capture (Metadata)



High resolution (5Mp)



People counting (8 rules)













Upgrade relation

