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TECHNOLOGY

Full-color



LED



IR



Overseas Business Center
2022/06

Taking You Into A New Full-color Era with
Smart Dual Illuminators Technology

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 - SMD Plus
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- IPC
 - HDCVI
 - PTZ

Current Pain Points

Light Pollution



In order to release colorful monitoring at night, it is often necessary to turn on warm light, resulting in light pollution

Complicated Product Selection



Application scenarios are diverse, some require IR and LED illumination, making product selection difficult

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Key Features



**Smart Dual
Illuminators**



Mobile APP



Smart Codec



SMD Plus



Perimeter Protection




**Illumination By
Schedule**

Key Feature: Smart Dual Illuminators



Camera defaults to infrared light, it turns on warm LED light when detecting human. Camera switches back to infrared light after human leave.

 Recording colorful video and information of key events.

 Minimize light pollution because warm LED do not need to be turned on continuously

Human is out of Monitoring Area



- Infrared Light Turns on
- Video is Black/White

Human is Detected by Camera



- Warm LED Turns on
- Full-color Monitoring

Human Leave Monitoring Area



- Infrared Light Turns on
- Video is Black/White

◆ for HAC camera, it links with Perimeter Protection or SMD Plus of AI XVR to switch between IR illuminator and warm light.

Key Features: Smart Dual Illuminators



Dahua Smart Dual Illuminators technology adopts Deep Learning Algorithm to detect targets.

This can ensure that the illuminators switch more accurate, avoid false triggering.

Outdoor Video



AI algorithm, intelligent switching
Colorful event video, less light pollution

Indoor Video



AI algorithm, intelligent switching
Colorful event video, less light pollution

Key Features: Smart Dual Illuminators



The camera built-in infrared light and LED warm light, it can not only release Smart Dual Illuminators Mode, but also can turn on IR light/Warm LED light to output B/W or Full-color video.

IR Mode



IR illuminator throughout the whole process
Environment friendly, and reduces light pollution

Warm Light Mode



Warm illuminator throughout the whole process
Records full-color video and captures event details

Different Illumination methods to meet the needs of various application scenarios

Key Feature: Mobile APP

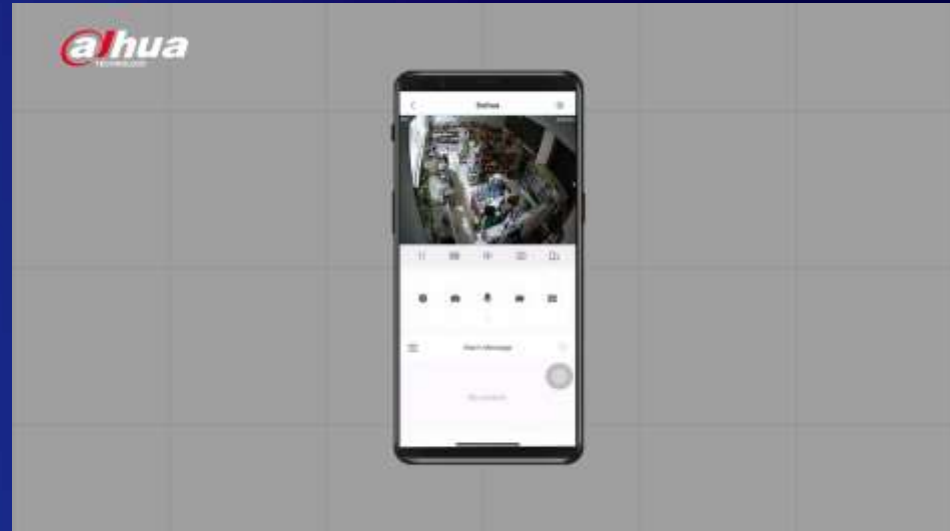


The illumination mode of the smart dual illuminators camera can also be adjusted remotely through the mobile APP, which is convenient for users to operate at anywhere anytime.

APP Details



Operation Video

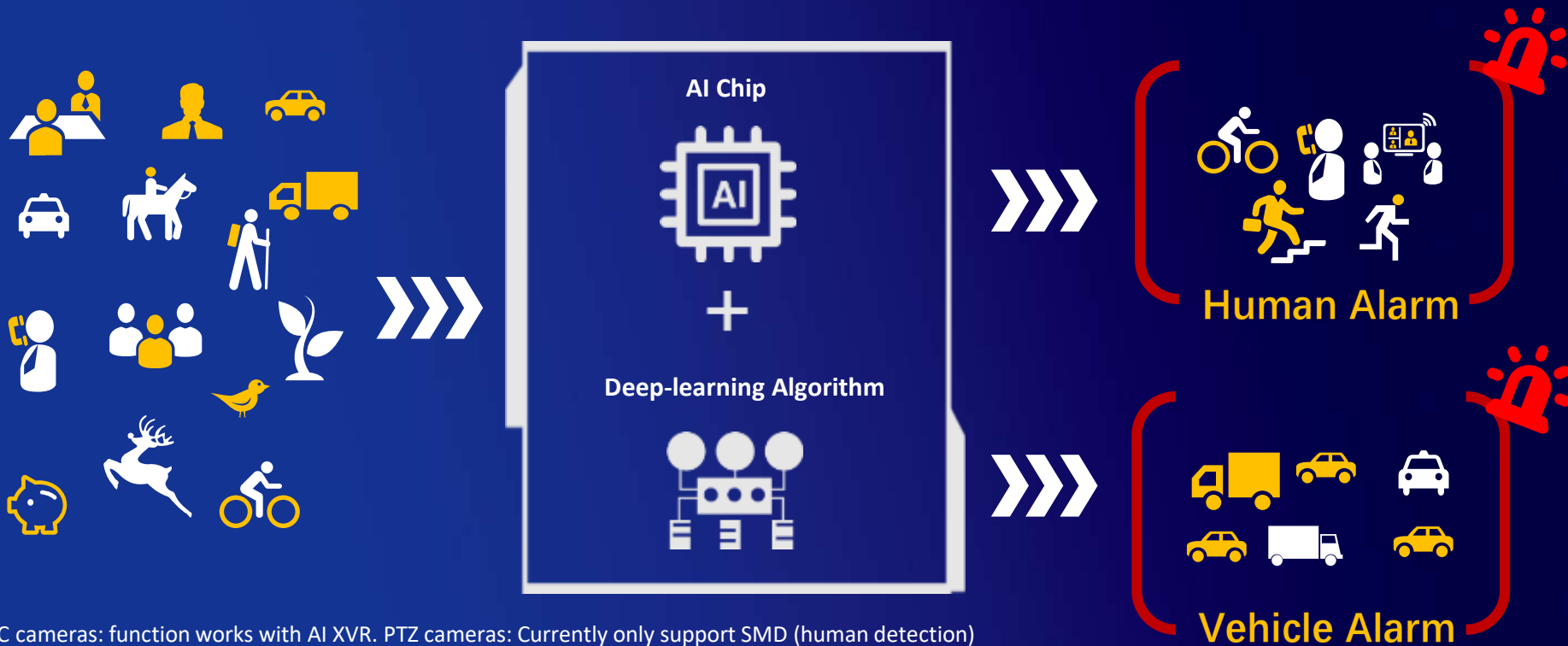


Key Feature: SMD Plus



SMD Plus, referred to as **S**mart **M**otion **D**etection Plus.

With Deep-Learning Algorithm, Dahua SMD Plus filters the motion detection alarm triggered by non-concerned target and recognize **human** and **vehicle** effectively, sending alarms when human and vehicle intrudes.



HAC cameras: function works with AI XVR. PTZ cameras: Currently only support SMD (human detection)

Key Feature: Perimeter Protection



With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced



- Traditional
IVS
- 1 Serious false and missed alarm.
 - 2 Inefficient to inquire video recording
 - 3 Poor adaptability

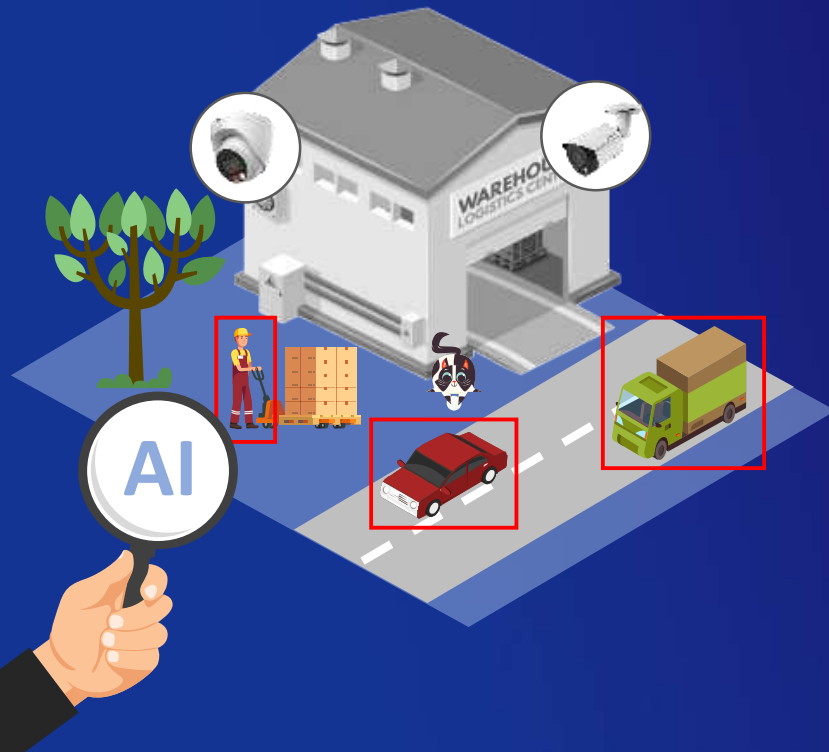
- Perimeter
Protection
- 1 Human and Vehicle classification.
 - 2 Quick search
 - 3 Meet a variety of scenes

PTZ and HAC cameras: this function works with AI back-end products.

Key Feature: Quick Search



Extract and classify human and vehicles from massive video data, easy for end users to trace historical information and analyze. Human & Vehicle optional for playback to achieve quick target search, saving event retrieval time.



PTZ & HAC cameras: this function works with AI back-end products.

Key Feature: Smart Codec



Adopting advanced algorithm of auto stream control according to the environment, The Dahua smart codec technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.



General Camera HDD Requirement



Low Bit-rate Camera HDD Requirement

With the same scenario, the storage cost of 1080P low bit-rate scheme is more than **90%** lower than that of H.264

17GB saved
per day,
510GB saved
per month



Camera
Free

Key Feature: Illumination By Schedule



Camera illumination can be set according to different time period, which improves the configure efficiency and suits for more scenario applications.

Illumination Plan

Smart Dual Illuminators  IR Mode  Warm Light Mode 



Illumination Mode

- Smart Dual Illumination
- Warm Light Mode
- IR Mode

Time Period

- 7 days, Sunday – Saturday
- 24-hour cycle

◆ This feature will be implemented on IPC and is expected to be released in August.

Key Feature: Illumination By Schedule



Take retail stores as an example, the IR mode is turned on during the night business period, and the smart dual illuminators is turned on after the closure of the store to minimize warm light pollution. Users can customize the illumination mode according to requirements, covering various scenarios.



Monday – Friday
6:00 pm – 9:00 pm



IR Mode

The store is in the state of business, camera turns on IR Mode, both can monitor and do not cause interference to guests.



Monday – Friday
9:00 pm – 6:00 am



Smart Dual Illuminators

The store is in a resting state, enabling the smart dual illuminators mode can not only record full-color video when events happen, but also minimize light pollution.

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Application Scenarios: Villa



Pain point

Most crimes happen at night, we want to be able to record the color of the intruder so we can track event back, but we don't want the camera's warm light to bother the neighbors. It is often difficult to do both.



Benefit

- Smart Dual Illuminators camera not only provides colorful image when events happened but also sends alarm information by DMSS APP in time.
- Minimize warm light pollution and reduce interference to neighbors

Application Scenarios: Park



Pain point

At night, some application scenarios cannot visibly recognize people and vehicles due to lack of sufficient light, such as courtyards, parks, etc. Warm light is used to capture target's details in these scenarios. However, constant usage of supplementary warm light can contribute to the light pollution in the monitored area.

Benefit

- There are normally no people or vehicles in parks or other similar scenarios late at night. During this idle time, the warm light can be turned off, and will only turn back on when a target is detected. When the target leaves the monitoring area, the warm light will turn off and the IR illuminator will turn back on, which can significantly help reduce light pollution while ensuring effective monitoring at night.

Application Scenarios: Supermarket Shelves



Pain point

The position of goods is flexible and changeable, and the monitoring from fixed perspective cannot meet the demand. Unable to cover all angles of monitoring, it is easy to miss key events and cause property damage.

Benefit

When the position of the shelves in the supermarket changes, the ptz camera monitoring area can be adjusted to the optimal viewing angle at anytime. During non-business hours, when the anomalous target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. And when the target is out of the monitoring area, the warm light is off and the IR illuminator is on.

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IPC

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PTZ

Product Family



IPC



IPC-HDW2449T-S-IL
IPC-HFW2449S-S-IL

4-MP 1/3" CMOS image sensor

Smart Dual Illuminators

SMD Plus

Perimeter Protection

Built-in MIC.

HDCVI



HAC-HDW1509T-IL-A
HAC-HFW1509TM-IL-A

Max 25 fps@5MP (16:9 video output).

120 dB true WDR, 3D NR.

Smart Dual Illuminators.

Super Adapt.

Built-in MIC.

PTZ



DH-SD2A500-GN-A(W)-PV
DH-SD2A200-GN-A(W)-PV
SD3A200-GN-A-PV
SD3A400-GN-A-PV

2&4&5Megapixel STARVIS™ CMOS

Smart Dual Illuminators

(Wi-Fi)

Two-way audio

Sound and light alarm

Human detection

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Thank you!!

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