Full-color Camera

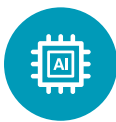## Colorful View Ever, Dark World Never

Full-Color

24/7 Color Monitoring

Up to 98% AI Accuracy at Night

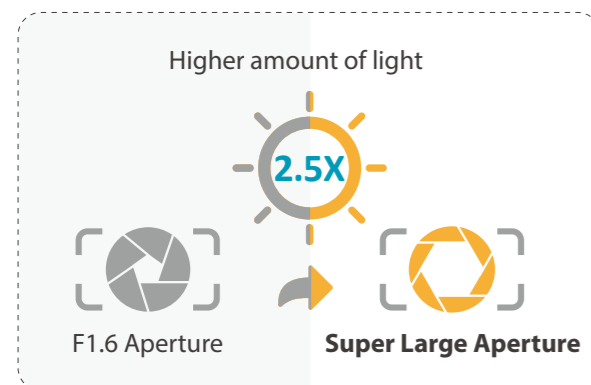**Excellent Video Quality in Darkness**

Full-Color

Overview

Dahua Technology's full-color camera captures vivid color information even in low-light conditions. It effectively extracts the color features of scenes – be it human, vehicle or details – in places with high crime rate such as a park at night or a dark alley, providing great help to police officers during the evidence obtaining procedure.

In addition, the full-color camera can also work with AI functions to further enhance the probability and accuracy of target recognition and feature extraction.
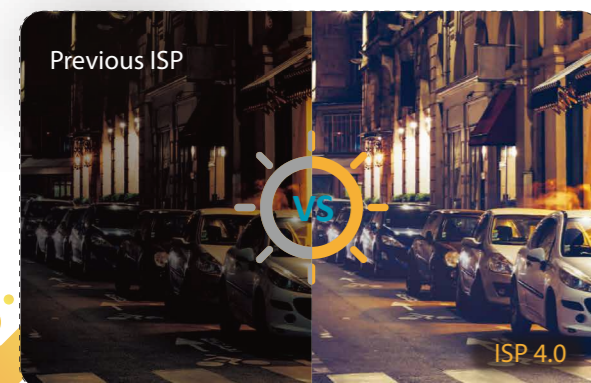
Full-color Key Technologies

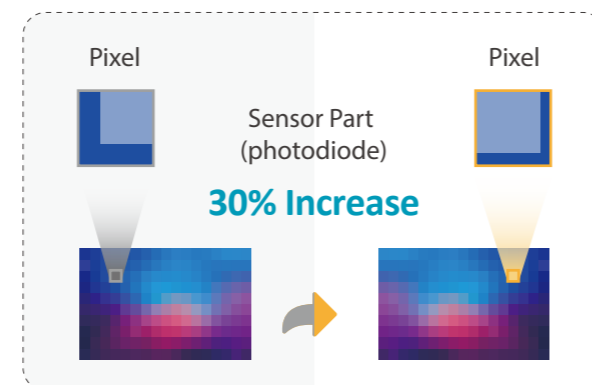### Large Aperture Lens
• Max. aperture **F1.0**, **2.5x** light v.s. F1.6

Higher amount of light

2.5X

F1.6 Aperture   **Super Large Aperture**

High Performance Sensor
• **30%** photosensitive capacity increase

Pixel   Pixel

Sensor Part
(photodiode)

30% Increase

Advanced ISP
• Dahua **ISP 4.0** greatly improves Signal to Noise Ratio and color reproduction

Previous ISP

VS

ISP 4.0

Warm Light
• Radiance **40%** below EU standards

Blue Light Weighted Radiance:

21000 W/(m²*sr) > 6000 W/(m²*sr)

White Light   Warm Light
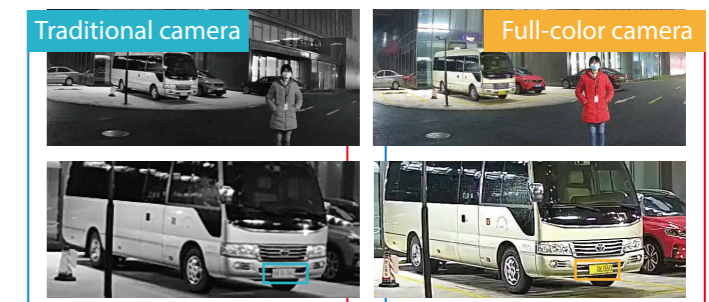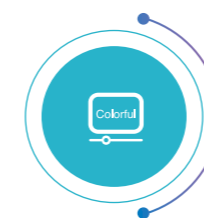
Full-color Effect Contrast

Dahua full-color camera present a more vivid, color image in the dark, thus capable of 24/7 color monitoring that can accurately identify vehicle and objects in low light conditions.

Traditional camera   Full-color camera

Features

24/7 Color Monitoring
Presents colored images and captures clear detail of human and vehicle in low light conditions
Significantly increases probability of collecting valid human, vehicle, and event evidence through brighter monitoring

Up to 98% AI Accuracy at Night
Supports integration with recorder to achieve AI search and improve retrieval efficiency
Filters false alarms and allows human and vehicle classification to focus only on target of interest

Excellent Video Quality in Darkness
Provides warm and smart auxiliary light to guarantee image clarity even in total darkness
Prevents rain reflection and does not attract insects

AI Function (Full-color + SMD)

False Alarm Filter Even at Night
- Filters out leaves, light and other disturbing objects
- AI accuracy rate is the same with daytime, up to 98%

Quick Target Search
- Human and vehicle search options
- Saves event retrieval time

AI Function (Full-color + AI Search)

AI Search
- Can be achieved through integration with recorder
- Human / vehicles / non-motor vehicles color
- Top color & bottom color / car color & plate color

Improve Retrieval Efficiency
- Improves efficiency to reduce labor cost

Application Scenario

Case: Road is dark at night

Value:
- 24/7 color monitoring with brighter image.
- Serves as a street lamp to reduce construction cost.
- Warm light deters law breakers – that can help reduce crimes and give a sense of security.

Case: When intrusion happens but there's no one in the house.

Value:
- 24/7 color monitoring to guard courtyard well.
- Extract color information of intruders to help the police solve the case.

Case: Dark environment in a parking lot.

Value:
- Focus on vehicle and human color feature.
- Vivid details are available.

Full-color Product Family

- HDCVI Camera

HAC 1239 Series

2MP Warm Light
HAC-HDW1239T-A-LED

2MP Warm Light
HAC-HDW1239TL-A-LED

2MP Warm Light
HAC-HFW1239T-A-LED

2MP Warm Light
HAC-HFW1239TLM-A-LED

HAC 1409 Series

4MP Warm Light
HAC-HDW1409T-A-LED

4MP Warm Light
HAC-HDW1409TL-A-LED

4MP Warm Light
HAC-HFW1409T-A-LED

4MP Warm Light
HAC-HFW1409TL-A-LED

HAC 1509 Series

5MP Warm Light
HAC-HDW1509T-A-LED

5MP Warm Light
HAC-HDW1509TL-A-LED

5MP Warm Light
HAC-HFW1509T-A-LED

5MP Warm Light
HAC-HFW1509TLM-A-LED

HAC 2249 Series

2MP Warm Light
HAC-HDW2249T-A-LED

2MP Warm Light
HAC-HFW2249T-I8-A-LED

2MP Warm Light
HAC-HFW2249E-A-LED

2MP No Light
HAC-HDW2249T-A

2MP No Light
HAC-HFW2249T-I8-A

2MP No Light
HAC-HFW2249E-A

- IP Camera

IPC WizMind 5 Series

2MP/4MP Warm Light
IPC-HDW5241TM-AS-LED
IPC-HDW5442TM-AS-LED

2MP/4MP No Light
IPC-HDBW5241R-ASE-NI
IPC-HDBW5442R-ASE-NI

2MP/4MP No Light
IPC-HFW5241T-ASE-NI
IPC-HFW5442T-ASE-NI

2MP/4MP Warm Light
IPC-HFW5241T-AS-LED
IPC-HFW5442T-AS-LED

IPC WizSense 3 Series

2MP /4M/5M Warm Light
IPC-HFW3249E-AS-LED
IPC-HFW3449E-AS-LED
IPC-HFW3549E-AS-LED

2MP /4M/5M Warm Light
IPC-HDW3249TM-AS-LED
IPC-HDW3449TM-AS-LED
IPC-HDW3549TM-AS-LED

2MP /4M No Light
IPC-HFW3249E-AS-NI
IPC-HFW3449E-AS-NI

2MP /4M No Light
IPC-HDBW3249E-AS-NI
IPC-HDBW3249E-AS-NI

2MP /4M No Light
IPC-HDBW3249E-AS-NI
IPC-HDBW3249E-AS-NI

IPC Lite Series

2MP/4M Warm Light
IPC-HFW2239S-SA-LED-S2

2MP/4M Warm Light
IPC-HFW2239M-AS-LED-B-S2

2MP/4M Warm Light
IPC-HDW2239T-AS-LED-S2