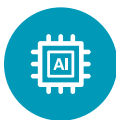# Full-colour Camera

View Dark in Colour

Full-Colour

24/7 Colour Monitoring   Up to 98% AI Accuracy at Night   Excellent Video Quality in Darkness
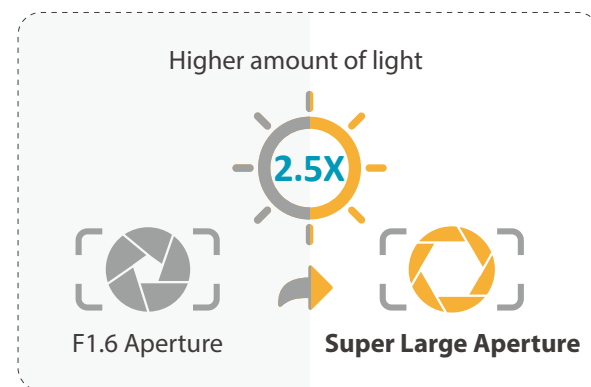
Full-colour

Overview

Dahua Technology's full-colour camera captures vivid colour information even in low-light conditions. It effectively extracts the colour 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-colour camera can also work with AI functions to further enhance the probability and accuracy of target recognition and feature extraction.
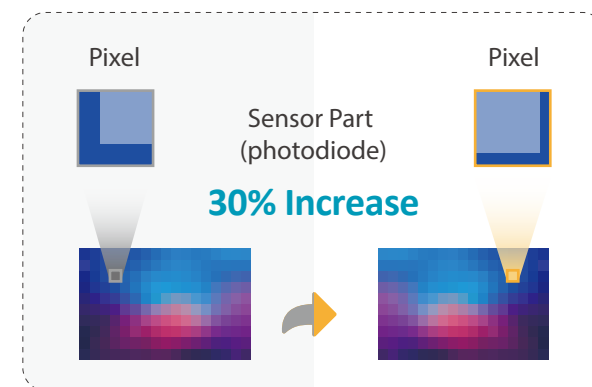
Full-colour Key Technologies

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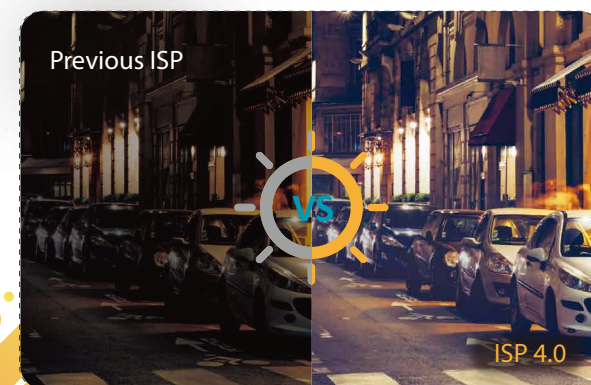• Max. aperture **F1.0**, **2.5x** light v.s. F1.6

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 colour 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
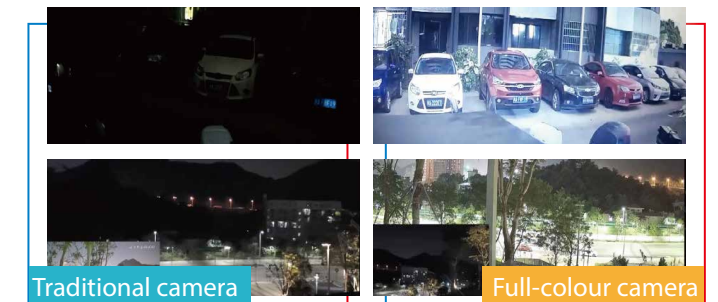
Full-colour Effect Contrast

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

Traditional camera   Full-colour camera

Features

24/7 Colour Monitoring
Dahua Key technologies make your world colour all the time.

Up to 98% AI Accuracy at Night
Full-colour enabled stable performance even at night.

Excellent Video Quality in Darkness
Enables accurate people and objects identification even in low light conditions.

AI Function (Full-colour + 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-colour + AI Search)

Colour Smart Search
• Can be achieved through integration with recorder

Multidimensional Search
• Human / vehicles / non-motor vehicles.
• Top colour & bottom colour / car colour & plate colour

Improve Retrieval Efficiency
• Improves efficiency to reduce labor cost

Application Scenario

Case: Road is dark at night

Value:
• 24/7 colour monitoring with brighter image.
• Serves as a street lamp to reduce construction cost.
• Warm light gives a sense of security.

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

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

Case: Dark environment during film screening.
It is necessary to ensure security when so many people get together.

Value:
• Perfect image that helps see clearly in a more detailed way.
• Provides colour information to help the police solve the case quickly.

Case: Dark environment in a parking lot.

Value:
• Focus on vehicle and human colour feature.
• Vivid details are available.

Full-colour Product Family

- IP Camera

IPC 5 Series(WizMind)

2MP Warm Light	**2MP Warm Light**	**2MP No Light**	**2MP No Light**
DH-IPC-HFW5241TP-AS-LED	DH-IPC-HDW5241TMP-AS-LED	DH-IPC-HFW5241TP-ASE-NI	DH-IPC-HDBW5241RP-ASE-NI

4MP Warm Light	**4MP Warm Light**	**4MP No Light**	**4MP No Light**
DH-IPC-HFW5442TP-AS-LED	DH-IPC-HDW5442TMP-AS-LED	DH-IPC-HFW5442TP-ASE-NI	DH-IPC-HDBW5442RP-ASE-NI

IPC 3 Series(WizSense)

2MP Warm Light	**2MP Warm Light**	**2MP No Light**
DH-IPC-HFW3249EP-AS-LED	DH-IPC-HDW3249TM-AS-LED	DH-IPC-HDBW3249EP-AS-NI

5MP Warm Light	**5MP Warm Light**	**5MP No Light**
DH-IPC-HFW3549EP-AS-LED	DH-IPC-HFW3549EP-AS-LED	DH-IPC-HDBW3549EP-AS-NI

IPC 2 Series

2MP Warm Light

DH-IPC-HFW2239SP-SA-LED-S2

2MP Warm Light

DH-IPC-HDW2239TP-AS-LED-S2

4MP Warm Light

DH-IPC-HFW2439SP-SA-LED-S2

4MP Warm Light

DH-IPC-HDW2439TP-AS-LED-S2

- ## HDCVI Camera

HAC 1239 Series

2MP Warm Light

DH-HAC-HFW1239TP-A-LED

2MP Warm Light

DH-HAC-HDW1239TP-A-LED

HAC 1509 Series

5MP Warm Light

DH-HAC-HFW1509TLMP-A-LED

5MP Warm Light

DH-HAC-HDW1509TP-A-LED