Carving a colorful world

Colorhunter Technology Introduction & Product Family

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UN̂V

olorHunter
Carving a colorful world

Technology Introduction + Product Family

Challenges

Most crimes occur at night, which provides more convenient conditions for criminals. In video security, color-related information is crucial to identify events details especially at night. But in the low light, people, vehicles can easily hide in the background, which makes it difficult to distinguish critical elements.

What's ColorHunter 2.0

Uniview is committed to enhancing users' image experience in dark environments, ensuring they can obtain a 24/7 colorful and sharp image. Building upon the success of ColorHunter low-light imaging technology, Uniview has now introduced the more inclusive and powerful ColorHunter 2.0 technology. This technology is designed to capture deeper, wider, and finer colors in various dark environments, delivering vivid and detailed videos for everyone and providing a more flexible user experience.

Wise-ISP

Smart Dual Light

Warm Light

ColorHunter with Wise-ISP

5th Gen NightView Tech First in Industry

The hardware has reached the upper limit of image enhancement

StarLight
1-Gen

IR Light
2-Gen

LightHunter
3-Gen

ColorHunter
4-Gen

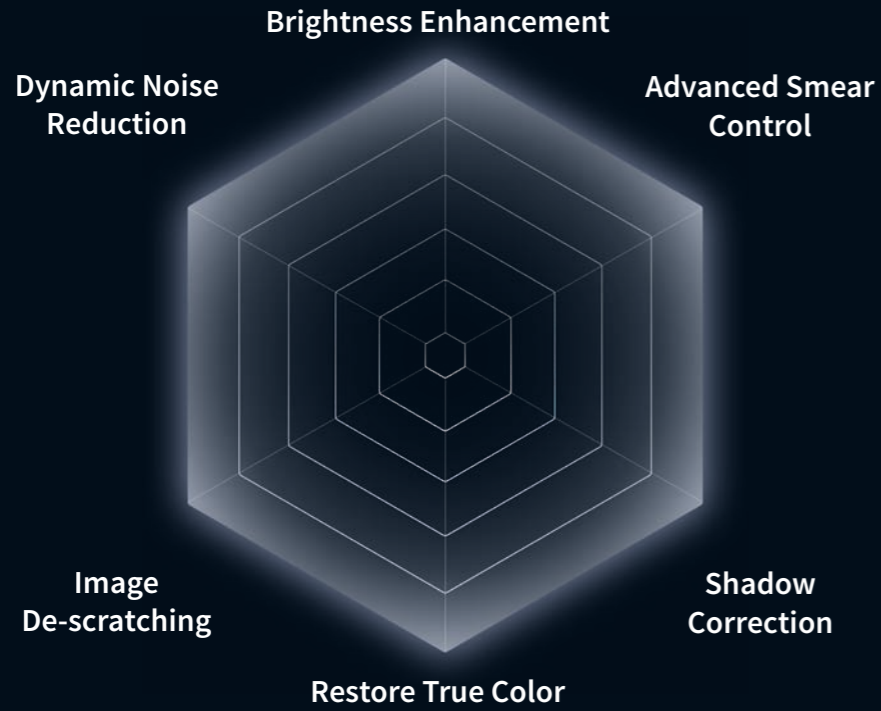| FSI	BSI	BSI	1/1.8 BSI
F2.0	F1.6	F1.2	F1.0

Here comes
5th-Gen
Nightview Tech

ColorHunter
Wise-ISP   *First & Exclusive in Industry*

Great Image Improvement Through Software

- Brightness Enhancement
- Advanced Smear Control
- Dynamic Noise Reduction
- Shadow Correction
- Image De-scratching
- Restore True Color

Wise-ISP For Extreme Image Enhancement

Brightness Enhancement

Noise Reduction

Adavanced Smear Control

*Compared to 4th-gen nightview

Restore True Color
Image De-scratching

Shadow Correction
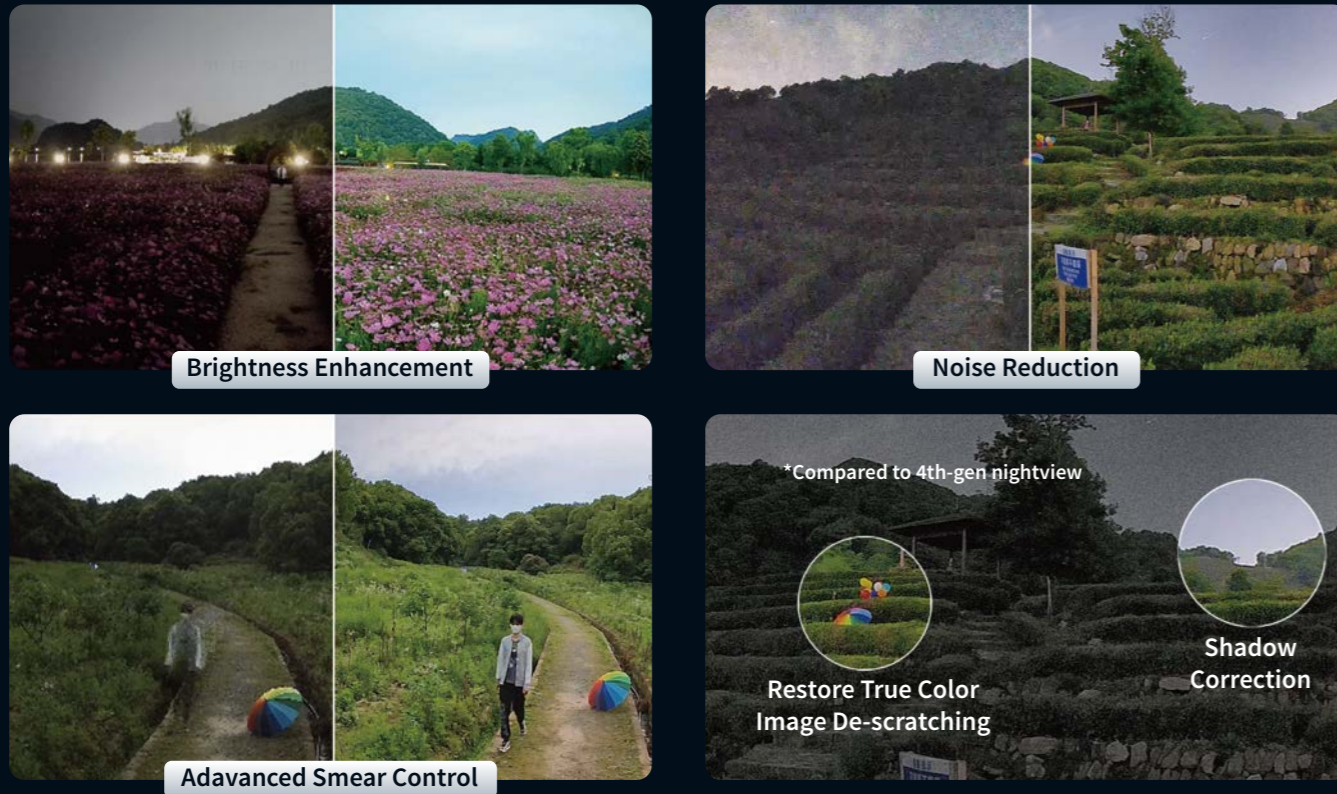
Compared to the full-color technology of fourth-generation night vision in the industry, Wise-ISP technology delivers brightness images, move vivid colors, and significantly less noise and smearing, even in extremely low light conditions without activating LED lights.

Secrets behind Wise-ISP

UNV Self-developed Large Model Engine

First & only in industry to apply model engine for image processing

200+
industrial scenarios covered
Billions of image training data

Nightview
main pain points
Solved main pain points of nightview images

15↑
times
Faster training speed
Rapid algorithm upgrade

Value

Full-Screen Full-Color at Night
Supplemental lighting can cause a loss of color information at a distance. With Wise-ISP, every detail remains vividly colored, even from afar.

Traditional Full-colorCamera with LED on

OwlView Camera with Wise-ISP tech

Colorful Image Without LED on
Wise-ISP technology minimizes the sense of being monitored, and still get colorful image.

Camera with Wise-ISP

Environment

Old Full-color Cameras
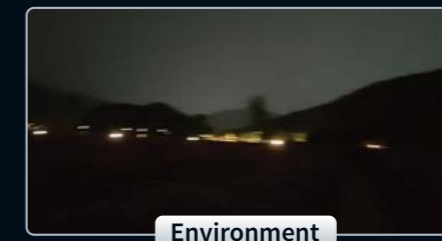
Application Scenarios

Park

Farm (Rural areas)

Community

Alley/Streets (no lights)

Product Family

wlView

F1.0 Aperture
Increase 4X more light input than F2.0

Up to 1/1.8" Big Sensor
Sense 180% more light than 1/2.8" sensor

SIP Lite
Intrusion & crossline powered by human & vehicle detection

Affordable Price

IPC3522LE-ADF28(40)K-WP

· 1/2.7" CMOS sensor
· 2MP 1920 × 1080 30 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67 & IK10
· Wise-ISP night vision

IPC3524LE-ADF28(40)K-WP

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 25 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67 & IK10
· Wise-ISP night vision

IPC3528LE-ADF28(40)K-WP

· 1/1.8" CMOS sensor
· 8MP 3840 × 2160 20 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67 & IK10
· Wise-ISP night vision

IPC3622LE-ADF28(40)K-WL

· 1/2.7" CMOS sensor
· 2MP 1920 × 1080 30 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67
· Wise-ISP night vision

IPC3624LE-ADF28(40)K-WP

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 25 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67
· Wise-ISP night vision

IPC3628LE-ADF28(40)K-WP

· 1/1.8" CMOS sensor
· 8MP 3840 × 2160 20 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67
· Wise-ISP night vision

IPC2312LE-ADF28(40)KM-WP

· 1/2.7" CMOS sensor
· 2MP 1920 × 1080 30 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67
· Wise-ISP night vision

IPC2314LE-ADF28(40)KM-WP

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 25 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67
· Wise-ISP night vision

IPC2318LE-ADF28(40)KM-WP

· 1/1.8" CMOS sensor
· 8MP 3840 × 2160 20 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic & SD card slot
· Warm light up to 30m (98ft)
· SIP Lite
· IP67
· Wise-ISP night vision

IPC245LP-ADF40(60)KC-WP

· 1/1.8" CMOS sensor
· 5MP 2880 × 1620 25 fps
· Color: 0.0003 lux @ F1.0
· 120dB true WDR
· Built-in mic &SD card slot
· Built-in speaker for Active Deterrence
· Warm light up to 50m (98ft)
· Audio/Alarm I/O
· SIP Lite
· IP67
· Wise-ISP night vision

Product Family

wlView Plus

Better 4K Night Vision

SIP with Color Retrieval

Auto Scene Match

130dB WDR

People Counting

Obeject Left / Remove Detection

More Professional Full Metal Housing(IK10)

Full Tail-line

wlView Ultra

License Plate Detection

8-32mm Longer Range VF Lens

4K 60fps High Frame Rate

Built-in 2 Mics

140dB WDR

IPC2B14SE-ADF28(40)K-WP-I1

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 30 fps
· F1.0 aperture
· 130dB true WDR
· Built-in mic & SD card slot
· Warm light up to 40m (131ft)

· Audio/Alarm I/O
· SIP with color retrieval
· Auto Scene Match
· People counting
· IP67 & IK10
· Wise-ISP night vision

IPC2B18SE-ADF28(40)K-WP-I1

· 1/1.2" CMOS sensor
· 8MP 3840 × 2160 30 fps
· F1.0 aperture
· 130dB true WDR
· Built-in mic & SD card slot
· Warm light up to 40m (131ft)

· Audio/Alarm I/O
· SIP with color retrieval
· Auto Scene Match
· People counting
· IP67 & IK10
· Wise-ISP night vision

IPC264EA-AHDZ(X4)K-I1

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 60 fps
· P-Iris with aperture F1.6 Max
· 2.8-12mm/8-32mm VF lens
· 140dB true WDR
· Built-in 2 mics & SD card slot

· IR up to 120m (393.7ft)
· Audio/Alarm I/O
· Video metadata
· License plate capture
· IP67 & IK10
· Wise-ISP night vision

IPC268EA-AHDZ(X4)K-I1

· 1/1.8" CMOS sensor
· 8MP 3840 × 2160 60 fps
· P-Iris with aperture F1.6 Max
· 2.8-12mm/8-32mm VF lens
· 140dB true WDR
· Built-in 2 mics & SD card slot

· IR up to 120m (393.7ft)
· Audio/Alarm I/O
· Video metadata
· License plate capture
· IP67 & IK10
· Wise-ISP night vision

IPC3634SE-ADF28(40)K-WP-I1

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 30 fps
· F1.0 aperture
· 130dB true WDR
· Built-in mic & SD card slot
· Warm light up to 40m (131ft)

· Audio/Alarm I/O
· SIP with color retrieval
· Auto Scene Match
· People counting
· IP67 & IK10
· Wise-ISP night vision

IPC3638SE-ADF28(40)K-WP-I1

· 1/1.2" CMOS sensor
· 8MP 3840 × 2160 30 fps
· F1.0 aperture
· 130dB true WDR
· Built-in mic & SD card slot
· Warm light up to 40m (131ft)

· Audio/Alarm I/O
· SIP with color retrieval
· Auto Scene Match
· People counting
· IP67 & IK10
· Wise-ISP night vision

IPC3234EA-AHDZ(X4)K-I1

· 1/1.8" CMOS sensor
· 4MP 2688 × 1520 60 fps
· P-Iris with aperture F1.6 Max
· 2.8-12mm/8-32mm VF lens
· 140dB true WDR
· Built-in 2 mics & SD card slot

· IR up to 40m (131ft)
· Audio/Alarm I/O
· Video metadata
· License plate capture
· IP67 & IK10
· Wise-ISP night vision

IPC3238EA-AHDZ(X4)K-I1

· 1/1.8" CMOS sensor
· 8MP 3840 × 2160 60 fps
· P-Iris with aperture F1.6 Max
· 2.8-12mm/8-32mm VF lens
· 140dB true WDR
· Built-in 2 mics & SD card slot

· IR up to 40m (131ft)
· Audio/Alarm I/O
· Video metadata
· License plate capture
· IP67 & IK10
· Wise-ISP night vision

ColorHunter with Smart Dual Light

Smart IR & Warm Light Switching, Adaptable to Various Scenarios

At night, when images are dark, most traditional IP cameras rely on IR lighting to capture images in low-light conditions. However, this only produces monotonous black-and-white images, making it difficult to capture clear details. While warm lighting provides color images, it increases power consumption and contributes to light pollution.

Users urgently need IP cameras that deliver colorful, energy-efficient, and environmentally friendly solutions. UNV ColorHunter with Smart Dual Light Technology, addresses these needs by intelligently and flexibly adjusting lighting according to the scene.
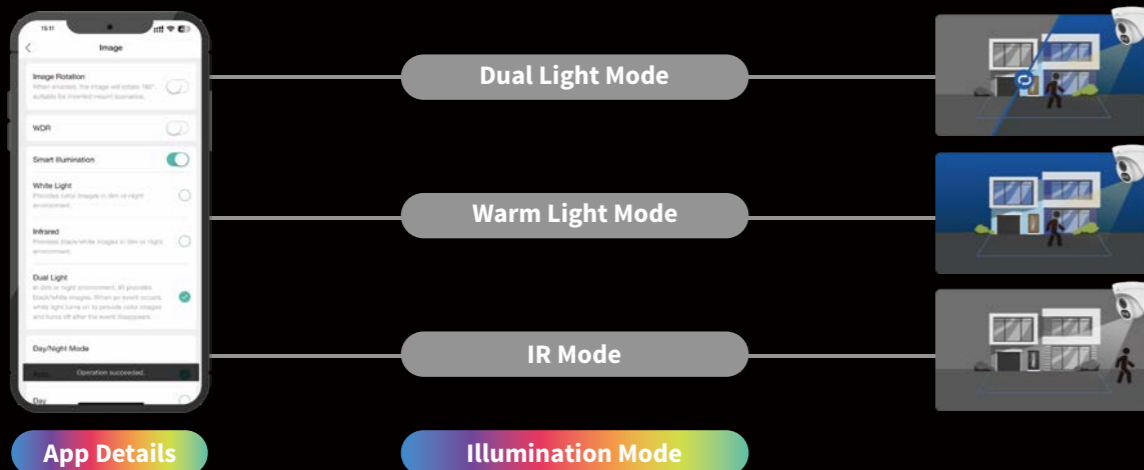
Smart Illumination

Use Ultra Motion Detection technology for precise Human/Vehicle detection, enjoy color recording when target is detected, and invisible guardianship when no events.

No events
IR on

Human/Vehicle(Events) detected
Warm light on, provide colorful images with more details

Human/Vehicle(Events) leaves
Back to IR on

App

Remotely manage camera illumination anywhere, anytime.

Dual Light Mode

Warm Light Mode

IR Mode

App Details

Illumination Mode

Ultra Motion Detection

Ultra Motion Detection can accurately detect people and motor vehicles within 20 meters, with a detection rate of over 90%, and can filter other objects, effectively reducing false alarm.
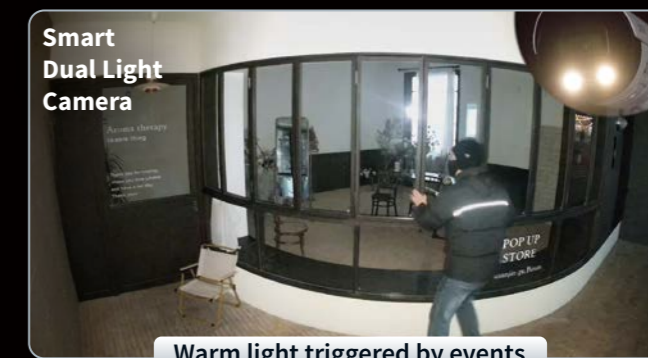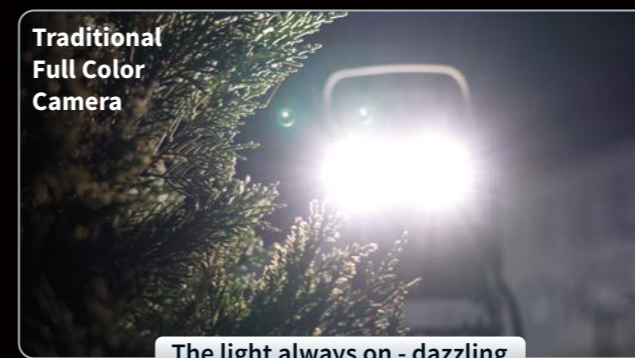
Full screen configuration

20m＋
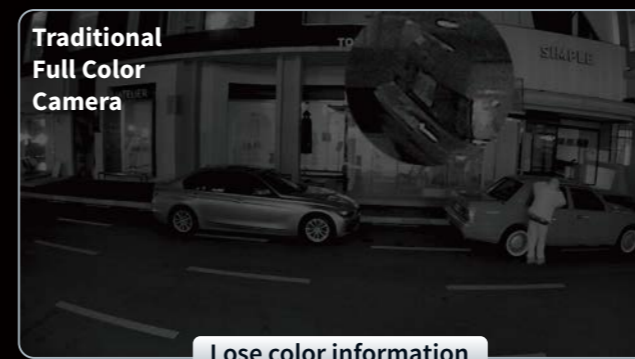Detection distance

90%＋
Detection rate

Value

Reduce light pollution
Reduce light pollution caused by constant illumination from IPC at night.

Traditional
Full Color
Camera

The light always on - dazzling

Smart
Dual Light
Camera

Warm light triggered by events

Never miss colorful details of human & vehicle

Traditional
Full Color
Camera

Lose color information

Smart
Dual Light
Camera

Get color information

Detect intruders in real time

Traditional
Full Color
Camera

No deterrence

Smart
Dual Light
Camera

When an event is detected, warm lights
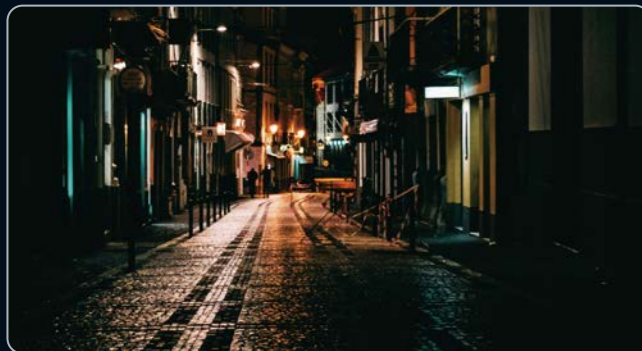turn on to deter the intruder

Application Scenarios

Villa
In poorly light villas, it can also serve as a
streetlight

Warehouse
In poorly lit warehouses, it can also function as
a lighting fixture

Alley
Excellent color performance in low-light envi-
ronments

Store
After the store closes, it can effectively warn
potential thieves

Product Family

EASY *Basic*

SD Card
Slot

Built-in
Mic

IPC2122LB-AF28(40)K-DL

· 1/2.9" CMOS sensor
· 2MP 1920 × 1080 30 fps
· Color: 0.005 lux @ F1.6
· Built-in mic & SD card slot
· IR & warm light up to 30m (98ft)
· Human body detection
· IP67

IPC2124LB-AF28(40)K-DL

· 1/3.0" CMOS sensor
· 4MP 2560 × 1440 25 fps
· Color: 0.005 lux @ F1.6
· Built-in mic & SD card sot
· IR & warm light up to 30m (98ft)
· Ultra motion detection
· IP67

IPC3612LB-AF28K-DL

· 1/2.9" CMOS sensor
· 2MP 1920 × 1080 30 fps
· Color: 0.005 lux @ F1.6
· Built-in mic & SD card slot
· IR & warm light up to 30m (98ft)
· Human body detection
· IP67

IPC3614LB-AF28K-DL

· 1/3.0" CMOS sensor
· 4MP 2560 × 1440 25 fps
· Color: 0.005 lux @ F1.6
· Built-in mic & SD card slot
· IR & warm light up to 30m (98ft)
· Ultra motion detection
· IP67

滚滚长江东逝水

Product Family

Ultra Motion Detection

Dual Way Talk

120dB WDR

IPC2122LE-ADF28(40)KMC-DL

- 1/2.8" CMOS sensor
- 2MP 1920 × 1080 30 fps
- Color: 0.003 lux @ F1.6
- 120dB true WDR
- Built-in mic, speaker & SD card slot
- IR & warm light up to 30m (98ft)
- Ultra motion detection
- Cross line & intrusion detection
- IP67

IPC2124LE-ADF28(40)KMC-DL

- 1/3.0" CMOS sensor
- 4MP 2688 × 1520 25 fps
- Color: 0.003 lux @ F1.6
- 120dB true WDR
- Built-in mic, speaker & SD card slot
- IR & warm light up to 30m (98ft)
- Ultra motion detection
- Cross line & intrusion detection
- IP67

IPC2128LE-ADF28(40)KMC-DL

- 1/2.8" CMOS sensor
- 8MP 3840 × 2160 20 fps
- Color: 0.005 lux @ F1.6
- 120dB true WDR
- Built-in mic, speaker & SD card slot
- IR & warm light up to 30m (98ft)
- Ultra motion detection
- Cross line & intrusion detection
- IP67

IPC3612LE-ADF28(40)KC-DL

- 1/2.8" CMOS sensor
- 2MP 1920 × 1080 30 fps
- Color: 0.003 lux @ F1.6
- 120dB true WDR
- Built-in mic, speaker & SD card slot
- IR & warm light up to 30m (98ft)
- Ultra motion detection
- Cross line & intrusion detection
- IP67

IPC3614LE-ADF28(40)KC-DL

- 1/3.0" CMOS sensor
- 4MP 2688 × 1520 25 fps
- Color: 0.003 lux @ F1.6
- 120dB true WDR
- Built-in mic, speaker & SD card slot
- IR & warm light up to 30m (98ft)
- Ultra motion detection
- Cross line & intrusion detection
- IP67

IPC3618LE-ADF28(40)KC-DL

- 1/2.8" CMOS sensor
- 8MP 3840 × 2160 20 fps
- Color: 0.005 lux @ F1.6
- 120dB true WDR
- Built-in mic, speaker & SD card slot
- IR & warm light up to 30m (98ft)
- Ultra motion detection
- Cross line & intrusion detection
- IP67

ColorHunter with Warm Light

Enjoy 24/7 Clear & Colorful World with Cozy & Warm Light

Friendly Lighting LEDs

Warm light LEDs provide a soft glow that's easy on the eyes and minimizes light pollution, enhancing the ambiance with a natural, soothing light. These warm light LEDs preserve colors faithfully, even in dim settings, making them ideal for a comfortable and authentic lighting experience.

Smart Illumination

During the night, when no event, the IP camera's warm light provides a minimal level of illumination. When events detected, the illumination is instantly enhanced, thus improving visibility and offering clear details. As soon as the object departs from the monitored zone, the light elegantly dims back to its prior soft level.

Product Family

IPC2122LB-AF28(40)K-WL

- 1/2.9" CMOS sensor
- 2MP 1920 × 1080 30 fps
- Color: 0.005 lux @ F1.6
- Built-in mic & SD card slot
- Warm light up to 30m (98ft)
- Motion detection, audio detection
- IP67

IPC3612LB-AF28K-WL

- 1/2.9" CMOS sensor
- 2MP 1920 × 1080 30 fps
- Color: 0.005 lux @ F1.6
- Built-in mic & SD card slot
- Warm light up to 30m (98ft)
- Motion detection, audio detection
- IP67