ePoE

dahua
TECHNOLOGY

800m

Reach The Unreachable

800m ePoE to reduce cabling & repeater costs

- Eco - Friendly
- Economic
- Extended
- EoC

ePoE IP System

Dahua ePoE IP systems support a range of up to 800 meters between the ePoE camera and the ePoE network switch or ePoE NVR. This surpasses traditional Ethernet and PoE limitations (both restrict cable distances to 100 meters (328 feet) between network ports) and eliminates the need for Ethernet extension devices or additional network switches. This significantly lowers costs as less cables and repeaters are required, and the system takes less time to install.

The Dahua ePoE IP System solution includes IP cameras, NVRs and network switches, and has the following features:
• 800m @ 10Mbps & 13W or 300m @ 100Mbps & 25.5W
• Automatic setup, plug & play
• Seamless analog to IP migration: IP video, audio, control & power (4 in 1) over coax cable with LR1002 EoC passive converter

How to efficiently construct a surveillance system in diverse scenarios?

In large area surveillance environments such as big warehouses, parks, and outdoor parking lots, cameras are dispersed and located far from the control center, usually at a distance greater than 100 meters, requiring lots of cabling and equipment. ePoE allows you to reuse your existing analog system to achieve an upgrade to high definition and smart functionality without need for an extra power supply.

Analog Upgrade

How to seamlessly upgrade to an IP system while saving time and money?

ePoE IP System

Analog System

Garden
How to use the smallest amount of cameras to meet monitoring demands for a garden with a large open area?

Warehouse
How can I easily manage a surveillance system with a large number of cameras dispersed around a big warehouse?

Parking lot
How to achieve long distance transmission between cameras and the control center over distances greater than 100m in a parking lot scenario?

Conventional Approaches

The conventional approach in PoE systems is to add repeater devices to extend transmission distance. However, this increases equipment and installation costs as a power supply and junction box is required for each repeater. This also makes the system harder to maintain and increases the risk of failures. Alternately, fiber optic transceivers can be used in long-distance scenarios. However, fiber cables have to be installed and a power supply is required on the camera side to power the fiber optical transceiver as well as the camera. This is quite a big problem if you have a few installation points over a large space.
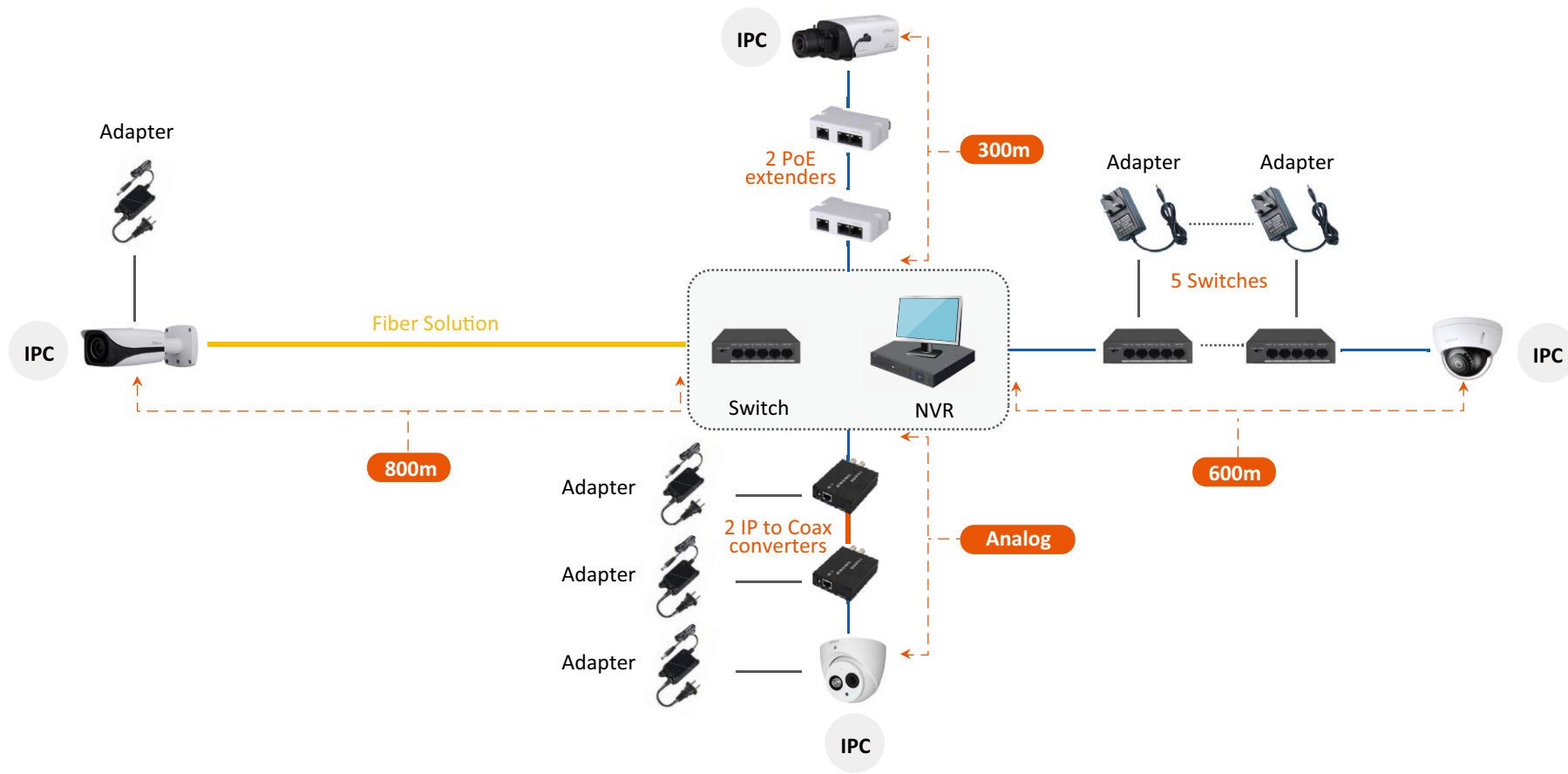
Innovative ePoE IP System

The Dahua ePoE IP system offers a very simple and effective solution which supports up to 800m long distance transmission via Cat5E Ethernet cable. It greatly simplifies network construction as only one cable is required to connect from the front-end to back-end devices, which results in higher reliability and lower installation and maintenance costs. Especially for analog system upgrades, the Dahua ePoE IP system makes it easy to reuse your existing coaxial cable network to run IP video cameras. The

EoC Passive Converter (LR1002) connects to the Ethernet port of an IP camera or network switch on one end and a coaxial cable on the other. This system supports a transmission distance of up to 1,000m over RG59 coaxial cable at 10Mbps, delivering PoE power to the IP camera. This simple and effective solution delivers seamless plug & play installation, greatly reducing the cost of migrating from analog to IP.
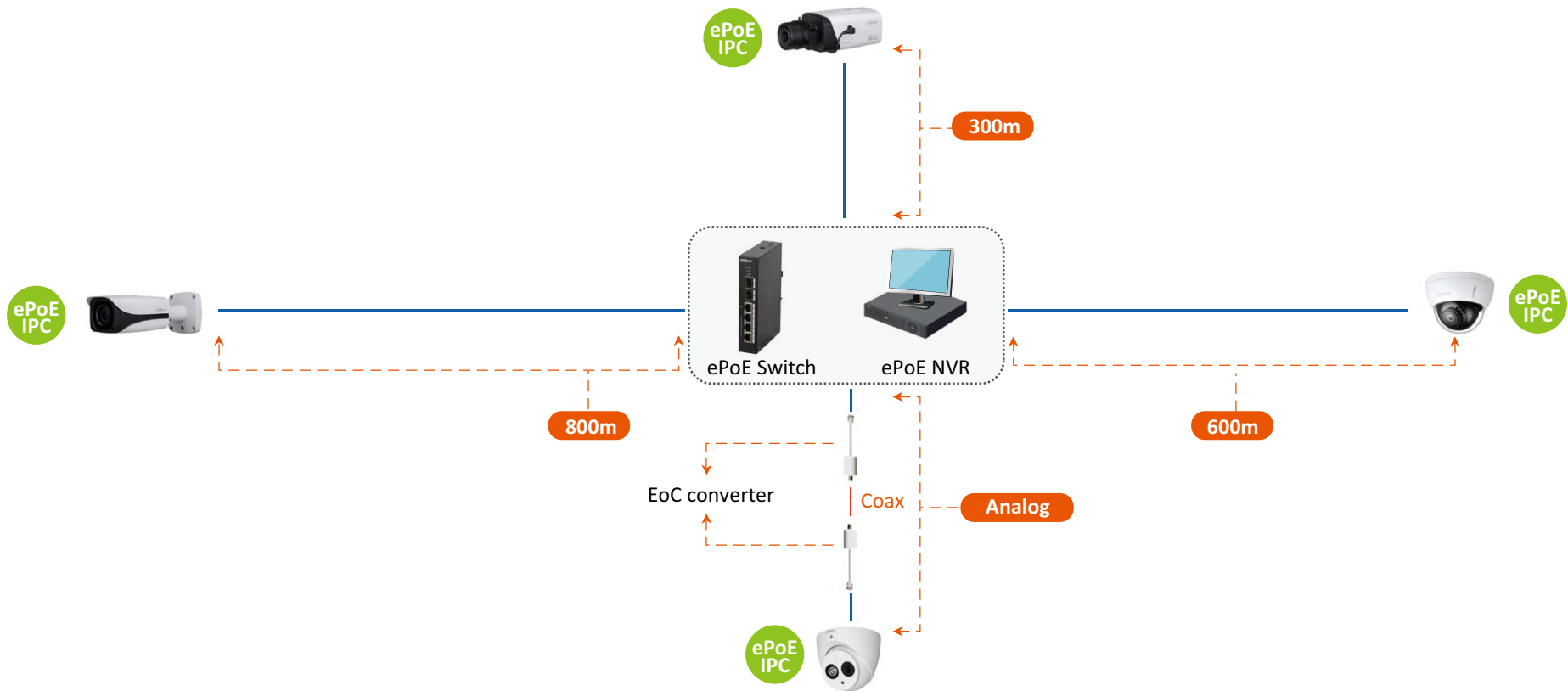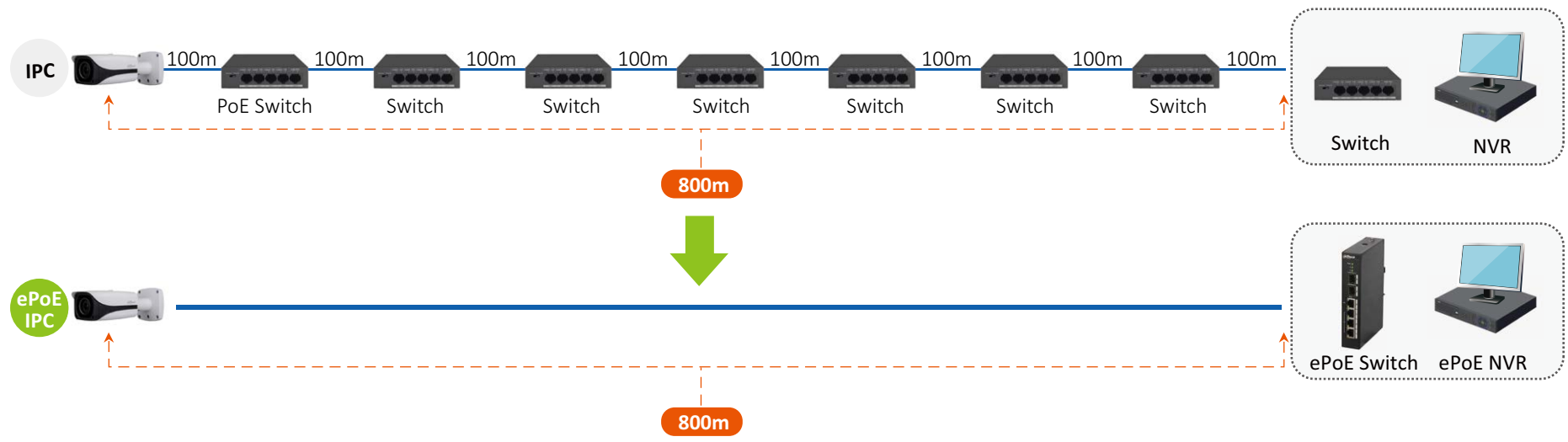
KEY FEATURES

Eco-Friendly
Less power consumption

Economic
Cost-effective

Extended
Long range transmission

EoC
Easy upgrade to IP

ePoE
Eco-Friendly

Dahua ePoE IP is an eco-friendly surveillance system which only needs one cable to connect from front-end to back-end devices. Assuming that in traditional systems, a camera requires 7 switches for 800m transmission and the power consumption per switch is 3W, ePoE saves up to 21W per camera, or 0.5kWh of energy per day, 15kWh per month, and 182.5kWh per year, which is equivalent to a 143kg reduction in carbon emissions!

IPC
100m — PoE Switch — 100m — Switch — 100m — Switch — 100m — Switch — 100m — Switch — 100m — Switch — 100m — Switch — 100m — Switch — NVR

800m

ePoE IPC — ePoE Switch — ePoE NVR

800m

Economic

By reducing the number of devices required to connect each front-end device to the back-end, users will see immediate cost-saving benefits. Here we have compared the overall costs for the construction of a system capable of 800m transmission distance using three different strategies. The Conventional Fiber System requires costly cables and devices. The Conventional IP System must add multiple repeaters in order to extend the transmission distance, resulting in high installation and device costs. Finally, the Dahua ePoE system uses only one network cable to complete the system, saving big on equipment and installation costs as Ethernet cables are significantly cheaper than fiber and less devices are required than in a conventional setup. In total, an ePoE IP system can save up to 30% over a conventional IP setup.

Conventional Fiber System	Qty	Est. Cost per Unit	Total
Camera with fiber port	1	$736	$736
Server	1	$2400	$2400
Cables 1000m	1	$2000	$2000
Switch with fiber port	1	$114	$114
Labor (2/switch)	2	$95	$190
30 Days Storage (2TB drives)	3	$300	$900
Total	--	Total System	$6340 *

Conventional IP System	Qty	Est. Cost per Unit	Total
Camera	1	$486	$486
Server	1	$2400	$2400
Cables 100m	8	$100	$800
Switch 4 port	8	$72	$576
Labor (2/switch)	16	$95	$1520
30 Days Storage (2TB drives)	3	$300	$900
Total	--	Total System	$6682 *

ePoE IP System	Qty	Est. Cost per Unit	Total
ePoE Camera	1	$496	$496
Server	1	$2400	$2400
Cables 800m	1	$600	$600
ePoE Switch 4 port	1	$114	$114
Labor (2/switch)	2	$95	$190
30 Days Storage (2TB drives)	3	$300	$900
Total	--	Total System	$4700 *

*The above figures are based on reference data form North America and may vary depending on different regions and market conditions.

Extended

ePoE

Dahua ePoE technology uses advanced 2D-PAM3 coding modulation on the physical layer to achieve full duplex transmission over 800m at 10Mbps and 13W, or 300m at 100Mbps and 25.5W via Cat5E cable. Dahua ePoE technology offers a new way to accomplish long distance transmission between an IP camera and network switch or recorder. It allows a more flexible surveillance system design and improves reliability while saving on construction and wiring costs.
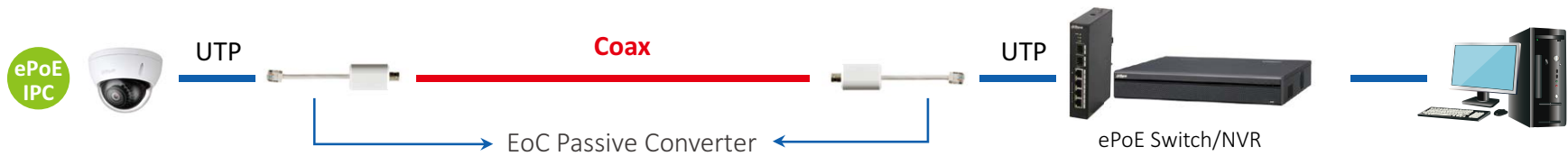
Conventional IP system — 100m

ePoE IP System — 800m

Test of 800m transmission over Cat5E cable

ePoE System (Network Cable)		
Cable (m)	Bandwidth (Mbps)	PoE Load Capability (W) (IEEE802.3af/at)
100	100	25.5
200	100	25.5
300	**100**	**25.5**
400	10	23
500	10	20
800	**10**	**13**

Ethernet over Coax

The Dahua ePoE system is an eco-friendly surveillance system that uses only one cable to connect from front-end to back-end devices. With an EoC Passive Converter (LR1002) which connects to the Ethernet port of an IP camera or network switch on one end and a coaxial cable on the other, analog systems can be easily upgraded to use IP devices while reusing existing coaxial cables. This is a simple and effective solution that delivers seamless plug and play installation, significantly reducing the cost of upgrading from analog to IP.

Test of 800m transmission over RG59 cable

ePoE System (RG-59)		
Cable (m)	Bandwidth (Mbps)	PoE Load Capability (W) (IEEE802.3af/at)
100	100	25.5
200	100	25.5
300	100	25.5
400	**100**	**20**
500	10	16
800	**10**	**10**
1000	10	8

OTHER FEATURES

4K	Starlight	Smart H.265+
WDR	IVS	ANR
Compatibility		

4K
Resolution creates Revolution

4K resolution is a revolutionary breakthrough in image processing technology. 4K delivers four times the resolution of standard HDTV 1080P cameras and offers superior picture quality and image details. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas.

2MP

4MP

6MP

8MP

Starlight
No Loss under No Lux

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.007Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments. We tested with a smartphone, normal camera, and ePoE Starlight camera in both indoor and outdoor scenes. The result was clear that the Starlight camera has better low-light perfomance compared to other cameras, and can still retain color details even under 0.007Lux light conditions.
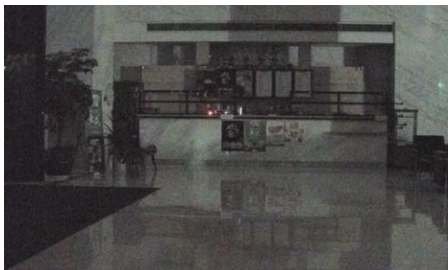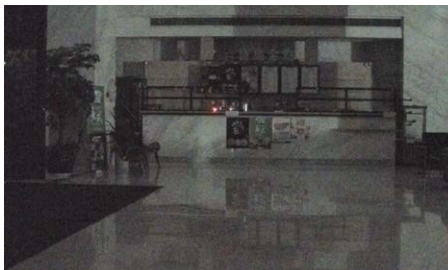
Outdoor Scene

Iphone 7 Plus

Normal Camera

ePoE Starlight Camera

ePoE Starlight Camera

Indoor Scene

0.06Lux,1/30s

Normal Camera

0.007Lux,1/3s

Normal Camera

0.06Lux,1/30s

ePoE Starlight Camera

0.007Lux,1/3s

ePoE Starlight Camera

Smart H.265+
Smart codec, Lower bit rate, Less storage

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure, and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

■ 24 Hour continue recording (1080P@25fps)

	H.264	H.265	Smart H.265+
Storage Size	43.5GB	22GB	4.94GB
Average Bitrate	4135Kbps	2092Kbps	470Kbps
Saving (VS. H.264)	--	49.4%	88.6%
Saving (VS. H.265)	--	--	77.5%

Outdoor

	H.264	H.265	Smart H.265+
Storage Size	36.8GB	20.7GB	0.97GB
Average Bitrate	3575Kbps	2011Kbps	94Kbps
Saving (VS. H.264)	--	43.75%	97.3%
Saving (VS. H.265)	--	--	95.3%

Darkroom Color

	H.264	H.265	Smart H.265+
Storage Size	43.8GB	21.46GB	4.38GB
Average Bitrate	4260Kbps	2087Kbps	426Kbps
Saving (VS. H.264)	--	51%	90%
Saving (VS. H.265)	--	--	79.6%

Indoor

	H.264	H.265	Smart H.265+
Storage Size	34.4GB	20.7GB	0.7GB
Average Bitrate	3342Kbps	2012Kbps	68Kbps
Saving (VS. H.264)	--	39.8%	98%
Saving (VS. H.265)	--	--	96.6%

Darkroom Black

■ How many days of full-HD footage can a **4TB HDD** store?

94 days	H.264 Encoding
188 days	H.265 Encoding
879day	Smart H.265+ Encoding
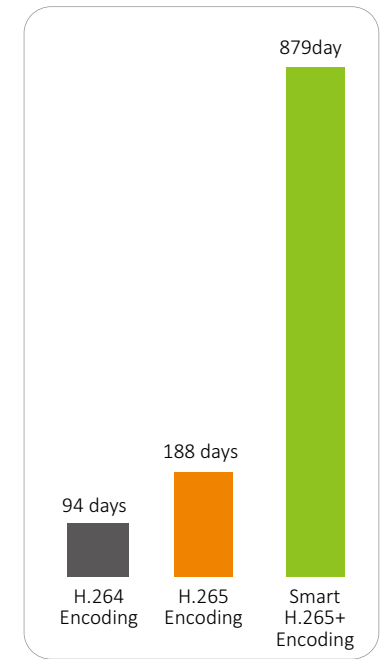
*The above figures are based on real test conditions and the bit rate reduction may vary depending on the light and movement conditions and details of the scene.
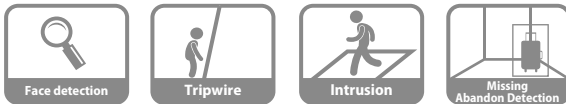
WDR/IVS/ANR/Compatibility

■ 120dB Wide Dynamic Range (WDR)

WDR Off

WDR On

■ Automatic Network Replenishment (ANR)

Record on SD Card

Network lost

Automatically transfers data
to NVR after network recovery

■ Intelligent Video System (IVS)

Face detection

Tripwire

Intrusion

Missing
Abandon Detection

■ Compatibility

The ePoE IP system is backwards compatible with normal IP systems. However, long distance PoE transmission can only be achieved with the use of ePoE IP cameras and an ePoE switch or ePoE NVR with embedded switch.

	IP Camera	ePoE IP Camera
NVR	100m, 100Mbps	100m, 100Mbps
ePoE NVR	100m, 100Mbps	800m, 10Mbps 300m, 100Mbps

Camera with NVR

	IP Camera	ePoE IP Camera
Normal Switch	100m, 100Mbps	100m, 100Mbps
ePoE Switch	100m, 100Mbps	800m, 10Mbps 300m, 100Mbps

Camera with Switch

Eco-Savvy 3.0 ePoE

- Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.5w
- Automatic setup, plug & play
- Rich selection of IP Cameras, NVRs and Network Switches
- Perfect for Analog to IP Migration: IP video, audio, control & power (4 in 1) over coax cable

Eco-Savvy 3.0 ePoE

	Box Camera		Vari-Focal Bullet	
Model	IPC-HF5431E-E	IPC-HF5231E-E	IPC-HFW5831E-ZE/Z5E	IPC-HFW5631E-ZE/Z5E
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS
Lens	CS	CS	2.7~12mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)
FOV-H	--	--	110°~40° 38°~14°(Z5E)	91°~27° 32°~10°(Z5E)
Min. Illumination	0.02Lux/F1.2(Color,1/3s,30IRE) 0.2Lux/F1.2(Color,1/30s,30IRE) 0.01Lux/F1.2(B/W,1/3s,30IRE) 0.1Lux/F1.2(B/W,1/30s,30IRE)	0.004Lux/F1.2(Color,1/3s,30IRE) 0.04Lux/F1.2(Color,1/30s,30IRE) 0.002Lux/F1.2(B/W,1/3s,30IRE) 0.02Lux/F1.2(B/W,1/30s,30IRE)	0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.03Lux/F1.4(Color,1/3s,30IRE) 0.3Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.6(IR on)
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	--	--	50m(164ft) 100m(328ft)(Z5E)	50m(164ft) 100m(328ft)(Z5E)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4M (2688×1520)	1080P (1920×1080))	4K (3840×2160)	6M (3072×2048)
Frame Rate	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	20fps@6M, 30fps@4M
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	--	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Intelligent Video	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, CGI	ONVIF profile S&G, CGI	ONVIF profile S&G, CGI	ONVIF profile S&G, CGI
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2(5V 5mA)/1(12V 300mA)	2(5V 5mA)/1(12V 300mA)	2(5V 5mA)/1(12V 300mA)	2(5V 5mA)/1(12V 300mA)
Ingress Protection	--	--	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V/AC24V PoE (802.3af)(Class 0) Max. 8W	DC12V/AC24V PoE (802.3af)(Class 0) Max. 8W	DC12V PoE (802.3af)(Class 0) Max. 12.95W	DC12V PoE (802.3af)(Class 0) Max. 12.95W

Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.5w

NETWORK CAMERA

Eco-Savvy 3.0 ePoE

	Vari-Focal Bullet		Vari-Focal Dome				
Model	IPC-HFW5431E-ZE/Z5E	IPC-HFW5231E-ZE/Z5E/Z12E	IPC-HDBW5831E-ZE/Z5E	IPC-HDBW5631E-ZE/Z5E	IPC-HDBW5431E-ZE/Z5E	IPC-HDBW5231E-ZE/Z5E	IPC-HDBW5831R-ZE
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP STARVIS CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS
Lens	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E) 5.3~64mm/F1.4, Motorized(Z12E)	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7~13.5mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7~12mm/F1.4 Motorized
FOV-H	106°~31° 33°~12°(Z5E)	101°~31° 35°~12°(Z5E) 59°~5°(Z12E)	110°~40° 38°~14°(Z5E)	91°~27° 32°~10°(Z5E)	106°~31° 33°~12°(Z5E)	101°~31° 35°~12°(Z5E)	110°~40°
Min. Illumination	0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.03Lux/F1.4(Color,1/3s,30IRE) 0.3Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	50m(164ft) 100m(328ft)(Z5E)	50m(164ft) 100m(328ft)(Z5E) 200m(656ft)(Z12E)	50m(164ft) 100m(328ft)(Z5E)	50m(164ft) 100m(328ft)(Z5E)	50m(164ft) 100m(328ft)(Z5E)	50m(164ft) 100m(328ft)(Z5E)	50m(164ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4M(2688×1520)	1080P(1920×1080)	4K(3840×2160)	6M(3072×2048)	4M(2688×1520)	1080P(1920×1080)	4K(3840×2160)
Frame Rate	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P	15fps@4K,30fps@3M
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°
Intelligent Video	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2(5V 5mA)/1(12V 300mA)	2(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	2(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V PoE (802.3af)(Class 0) Max. 12.95W	DC12V PoE (802.3af)(Class 0) Max. 12.95W	DC12V/AC24V PoE+(802.3at)(Class 4) Max. 15W	DC12V/AC24V PoE+ (802.3at)(Class 4) Max. 15W	DC12V/AC24V PoE+(802.3at)(Class 4) Max. 15W	DC12V/AC24V PoE+(802.3at)(Class 4) Max. 15W	DC12V PoE (802.3af)(Class 0) Max. 8.5W

ePoE Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.5w

Eco-Savvy 3.0 ePoE

	Vari-Focal Dome			Vari-Focal Eyeball			
Model	IPC-HDBW5631R-ZE	IPC-HDBW5431R-ZE	IPC-HDBW5231R-ZE	IPC-HDW5831R-ZE	IPC-HDW5631R-ZE	IPC-HDW5431R-ZE	IPC-HDW5231R-ZE
Image Sensor	1/2.9" 6MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.7~13.5mm/F1.4 Motorized	2.7~13.5mm/F1.4 Motorized	2.7~13.5mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.7~13.5mm/F1.4 Motorized	2.7~13.5mm/F1.4 Motorized	2.7~13.5mm/F1.4 Motorized
FOV-H	91°~27°	106°~31°	101°~31°	110°~40°	91°~27°	106°~31°	101°~31°
Min. Illumination	0.03Lux/F1.4(Color,1/3s,30IRE) 0.3Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.03Lux/F1.4(Color,1/3s,30IRE) 0.3Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.03Lux/F1.4 (Color,1/3s,30IRE) 0.3Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.006Lux/F1.4 (Color,1/3s,30IRE) 0.05Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	6M(3072×2048)	4M(2688×1520)	1080P(1920x1080)	4K(3840×2160)	6M(3072×2048)	4M(2688×1520)	1080P(1920x1080)
Frame Rate	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Intelligent Video	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	1/1	1/1	1/1	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	--	--	--	--
Ingress Protection	IP67, IK10	IP67,IK10	IP67,IK10	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V PoE (802.3af)(Class 0) Max. 8.5W	DC12V PoE (802.3af) Max. 8.5W	DC12V PoE (802.3af) Max. 8.5W	DC12V PoE (802.3af)(Class 0) Max. 8.5W	DC12V PoE (802.3af)(Class 0) Max. 8.5W	DC12V PoE (802.3af) Max. 8.5W	DC12V PoE (802.3af) Max. 8.5W

ePoE Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.5w

NETWORK CAMERA

Eco-Savvy 3.0 ePoE

	Fixed Mini-Bullet							
Model	IPC-HFW4831E-SE	IPC-HFW4631E-SE	IPC-HFW4431E-SE	IPC-HFW4231E-SE	IPC-HFW4831T-ASE	IPC-HFW4631T-ASE	IPC-HFW4431T-ASE	IPC-HFW4231T-ASE
Image Sensor	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.8mm/F1.6, 4mm/F1.6	2.8mm/F1.6, 3.6mm/F1.6	3.6mm/F1.6, 6mm/F1.6	3.6mm/F1.6, 6mm/F1.6	2.8mm/F1.6, 4mm/F1.6	3.6mm/F1.6, 6mm/F1.6	3.6mm/F1.6, 6mm/F1.6	3.6mm/F1.6, 6mm/F1.6
FOV-H	112°/88°	98°/69°	87°/55°	87°/51°	112°/88°	98°/69°	87°/55°	87°/51°
Min. Illumination	0.06Lux/F1.6 (Color,1/3s,30IRE) 0.3Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.04Lux/F1.6 (Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.06Lux/F1.6 (Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.007Lux/F1.6 (Color,1/3s,30IRE) 0.06Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.06Lux/F1.6 (Color,1/3s,30IRE) 0.3Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.04Lux/F1.6 (Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.06Lux/F1.6 (Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.007Lux/F1.6 (Color,1/3s,30IRE) 0.06Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	40m(131.2ft)	40m(131.2ft)	40m(131.2ft)	40m(131.2ft)	80m(262.5ft)	80m(262.5ft)	80m(262.5ft)	80m(262.5ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4K(3840×2160)	6M(3072×2048)	4M(2688×1520)	1080P(1920×1080)	4K(3840×2160)	6M(3072×2048)	4M(2688×1520)	1080P(1920×1080)
Frame Rate	15fps@4K,30fps@3M	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~87° Rotation: 0°~360°
Intelligent Video	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	--	--	--	--	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 128GB	Micro SD Max. 128GB	Micro SD Max. 128GB	Micro SD Max. 128GB	Micro SD Max. 128GB	Micro SD Max. 128GB	Micro SD Max. 128GB	Micro SD Max. 128GB
Alarm In/Out	--	--	--	--	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)
Ingress Protection	IP67	IP67	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V PoE (802.3af) Max. 6.5W	DC12V PoE (802.3af) Max. 6.5W	DC12V PoE (802.3af) Max. 6W	DC12V PoE (802.3af) Max. 6W	DC12V PoE (802.3af) Max. 6.5W	DC12V PoE (802.3af) Max. 6.5W	DC12V PoE (802.3af) Max. 6W	DC12V PoE (802.3af)(Class 0) Max. 6W

ePoE Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.5w

Eco-Savvy 3.0 ePoE

	Fixed Mini-Dome				Fixed Eyeball			
Model	IPC-HDBW4831E-ASE	IPC-HDBW4631E-ASE	IPC-HDBW4431E-ASE	IPC-HDBW4231E-ASE	IPC-HDW4831EM-ASE	IPC-HDW4631EM-ASE	IPC-HDW4431EM-ASE	IPC-HDW4231EM-ASE
Image Sensor	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/3"4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.8mm/F1.6 4mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6 6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6 6mm/F1.6	2.8mm/F1.6 4mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6 6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6 6mm/F1.6
FOV-H	112°/ 88°	98°/69°	104°/87°/55°	110°/ 87°/51°	112°/88°	98°/69°	104°/87°/55°	110°/ 87°/51°
Min. Illumination	0.06Lux/F1.6(Color,1/3s,30IRE) 0.3Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.04Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6(Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.06Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.007Lux/F1.6(Color,1/3s,30IRE) 0.06Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.06Lux/F1.6(Color,1/3s,30IRE) 0.3Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.04Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.06Lux/F1.6(Color,1/3s,30IRE) 0.4Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)	0.007Lux/F1.6(Color,1/3s,30IRE) 0.06Lux/F1.6 (Color,1/30s,30IRE) 0Lux/F1.6(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	30m(98ft)	30m(98ft)	30m(98ft)	30m(98ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4K(3840×2160)	6M(3072×2048)	4M(2688×1520)	1080P(1920×1080)	4K(3840×2160)	6M(3072×2048)	4M(2668×1520)	1080P(1920×1080)
Frame Rate	15fps@4K, 30fps@3M	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	20fps@6M, 30fps@4M	30fps@4M	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Intelligent Video	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	1/1	1/1	1/1	1/1	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 128GB	Micro SD Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	--	--	--	--
Ingress Protection	IP67,IK10	IP67,IK10	IP67, IK10	IP67,IK10	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F ~+140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~+140°F)	-30°C~+60°C (-22°F ~+140°F)	-30°C~+60°C (-22°F ~+140°F)	-30°C~+60°C (-22°F ~+140°F)	-30°C~+60°C (-22°F ~+140°F)	-30°C~+60°C (-22°F ~+140°F)
Power	DC12V PoE (802.3af)(Class 0) Max. 5.5W	DC12V PoE (802.3af) Max. 5.5W	DC12V PoE (802.3af)(Class 0) Max. 5W	DC12V PoE (802.3af)(Class 0) Max. 5W	DC12V PoE (802.3af)(Class 0) Max. 6W	DC12V PoE (802.3af) Max. 6W	DC12V PoE (802.3af)(Class 0) Max. 5.5W	DC12V PoE (802.3af)(Class 0) Max. 5.5W

ePoE Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.5w

NETWORK CAMERA

ePoE Switch

- Long distance PoE transmission up to 800 meters
- Self-adaptive transmission mode
- Non-blocking video transmission
- Wide temperature range
- High level lightning protection

ePoE Switch	
Model	PFL2106-4ET-96
Fast/Gigabit Ethernet	4FE PoE+1GE PoE
SFP Slots	1GE SFP
Switching Capacity	6.8Gbps
Packet Forwarding Rate	3.57Mpps
Packet Buffer Memory	1Mb
MAC Table Size	8K
PoE Standard	PoE (802.3af), PoE+ (802.3at), Hi-PoE
PoE Budget	96W
Long Distance PoE Transmission	Yes (800 meters)
VLAN	--
Link Aggregation	--
Flow Control	Support
Spanning Tree	--
Management	--
Lightning Protection	Common Mode 4KV, Differential Mode 2KV
Working Temperature	-30°C~+65°C (-22°F~+149°F)
Dimensions	150×100×30mm (5.9"×3.9"×1.2")

ePoE NVR

- Long distance PoE transmission up to 800 meters

- 1-8 PoE ports support ePoE & EoC

- Powerful processor: ARM Cortex A17 Quad Core CPU

- Advanced Smart H.265+ to save up to 70% bandwidth and storage

- Outstanding decoding capacity up to 4ch@4K/16ch@1080P

- Fisheye Dewarp, ANPR, POS, Easy4ip

- Advanced intelligent functions: IVS/Face Detection with smart IPC

ePoE NVR

	8HDD 4K & H.265 ePoE NVR		
Model	NVR5816-16P-4KS2E	NVR5832-16P-4KS2E	NVR5864-16P-4KS2E
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	16 channel	32 channel	64 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA
Max HDD	8×10TB	8×10TB	8×10TB
RAID	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-
Audio In/Out	1/2, 2-way	1/2, 2-way	1/2, 2-way
Alarm In/Out	16/6	16/6	16/6
Ethernet	1 Gigabit Ports	1 Gigabit Ports	1 Gigabit Port
PoE	16 Ports (IEEE802.3at/af), 150W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 150W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 150W 1-8 PoE Ports for ePoE & EoC
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V <17.5W(Without HDD)	AC100V~240V <17.5W(Without HDD)	AC100V~240V <17.5W(Without HDD)
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map
Star Features	Fisheye Dewarp, ANPR, POS Easy4ip, Plug & Play	Fisheye Dewarp, ANPR, POS Easy4ip, Plug & Play	Fisheye Dewarp, ANPR, POS Easy4ip, Plug & Play

NETWORK VIDEO RECORDER

ePoE NVR

Model	4HDD 4K & H.265 ePoE NVR			2HDD 4K & H.265 ePoE NVR		
	NVR5416-16P-4KS2E	NVR5432-16P-4KS2E	NVR5464-16P-4KS2E	NVR5216-16P-4KS2E	NVR5232-16P-4KS2E	NVR5264-16P-4KS2E
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	16 channel	32 channel	64 channel	16 channel	32 channel	64 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI, VGA	2HDMI, VGA	2HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	4×10TB	4×10TB	4×10TB	2×10TB	2×10TB	2×10TB
RAID	--	--	--	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-	--	--	--
Audio In/Out	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/6	16/6	16/6	4/2	4/2	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	16 Ports (IEEE802.3at/af), 150W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 150W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 150W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 130W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 130W 1-8 PoE Ports for ePoE & EoC	16 Ports (IEEE802.3at/af), 130W 1-8 PoE Ports for ePoE & EoC
USB	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	AC100V~240V <17.5W(Without HDD)	AC100V~240V <17.5W(Without HDD)	AC100V~240V <17.5W(Without HDD)	AC100V~240V <15.2W(Without HDD)	AC100V~240V <15.2W(Without HDD)	AC100V~240V <15.2W(Without HDD)
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map	Tripwire, Intrusion Abandoned/Missing Scene Change, Face Detection People Counting, Heat Map
Star Features	Fisheye Dewarp, ANPR, POS, Easy4ip Plug & Play	Fisheye Dewarp, ANPR, POS, Easy4ip Plug & Play	Fisheye Dewarp, ANPR, POS, Easy4ip Plug & Play	Fisheye Dewarp, ANPR, POS, Easy4ip Plug & Play	Fisheye Dewarp, ANPR, POS, Easy4ip Plug & Play	Fisheye Dewarp, ANPR, POS, Easy4ip Plug & Play

HFxxE Series

Model	PFB110W	PFB121W
Mount	Wall / ceiling / plane mount	Wall mount

HFWxxE, HFWxxE-Z Series

Model	PFA121	PFA121+PFA152-E
Mount	Junction box	Pole mount

HFWxxT Series

Model	PFA135	PFA135+PFA152-E
Mount	Junction box	Pole mount

HDWxxEM Series

Model	PFA139	PFB204W	PFB204W+PFA152-E
Mount	Junction box	Wall mount	Pole mount

HDBWxxE-Z Series

Model	PFA138	PFB210W	PFB210W+PFA152-E	PFA101+PFB300C	PFB201C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount	In-ceiling mount

ACCESSORIES

HDBWxxR-Z Series

Model	PFA137	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C	PFB200C	PFA200W
Mount	Junction box	Wall mount	Pole mount	Ceiling mount(extensible)	In-ceiling mount	Rain shade

HDWxxR-Z Series

Model	PFA137	PFB203W	PFB203W+PFA152-E
Mount	Junction box	Wall mount	Pole mount

HDBWxxE Series

Model	PFA136	PFB203W	PFB203W+PFA152-E	PFA200W
Mount	Junction box	Wall mount	Pole mount	Rain shade

	Converter	Cable		Lens		Tester		SD Card
Model	LR1002	PFM920I-5EUN	PFM930-59N	PLZ1040-D	PFL0550-E6D	PFM900-E	PFM906	PFM110/111/112/113
Appearance								
Description	1*10/100 Mbps Base-TX + 1*BNC RG59 Coaxial Cable: 400m/100 Mbps, 1000m/10 Mbps High Level Lightning protection Working Temperature: -40°C~+60°C	UTP CAT5E Cable Conductor: OFC Jacket: PVC, 4.7mm Color: orange/white Length: 305m (1000.7)	RG59 Coaxial Cable Conductor: OFC Jacket: PVC, 6.1mm Color: black Length: 200m(656.2ft)	Image size: 1/2.7" Aperture: F1.6 Focus length: 2.7-12mm Mount: CS Resolution: 4MP	Image size: 1/2.7" Aperture: F1.6 Focus length: 5-50mm Mount: CS Resolution: 6MP	For IPC, HDCVI, TVI, AHD analog camera TDR, analog video generator Digital multimeter data monitor PoE+, DC12V/2A output	For WiFi, IPC HDCVI, TVI, AHD analog SDI camera cable search, cable test TDR,analog video generator VFL, Digital mul meter, OPM data monitor PoE+, DC12V/2A, USB5V/2A output	Brand: Dahua Property/Speed: Class 10 (reading: 90MB/s, writing: 20MB/s) Storage capacity: 16/32/64/128GB

ENABLING A SAFER SOCIETY
AND SMARTER LIVING

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* Design and specifications are subject to change without notice.

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