

**dahua**  
TECHNOLOGY

# IP VIDEO PRODUCT SELECTION

2016 Ver. 3

Network Camera / PTZ / NVR / Display & Control / Transmission / Accessories / Video Software

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# TOTAL IP SOLUTION

Network Camera



PTZ



NVR



Wi-Fi Series



Transmission



Accessories



Video Software



Display & Control





# NETWORK CAMERA

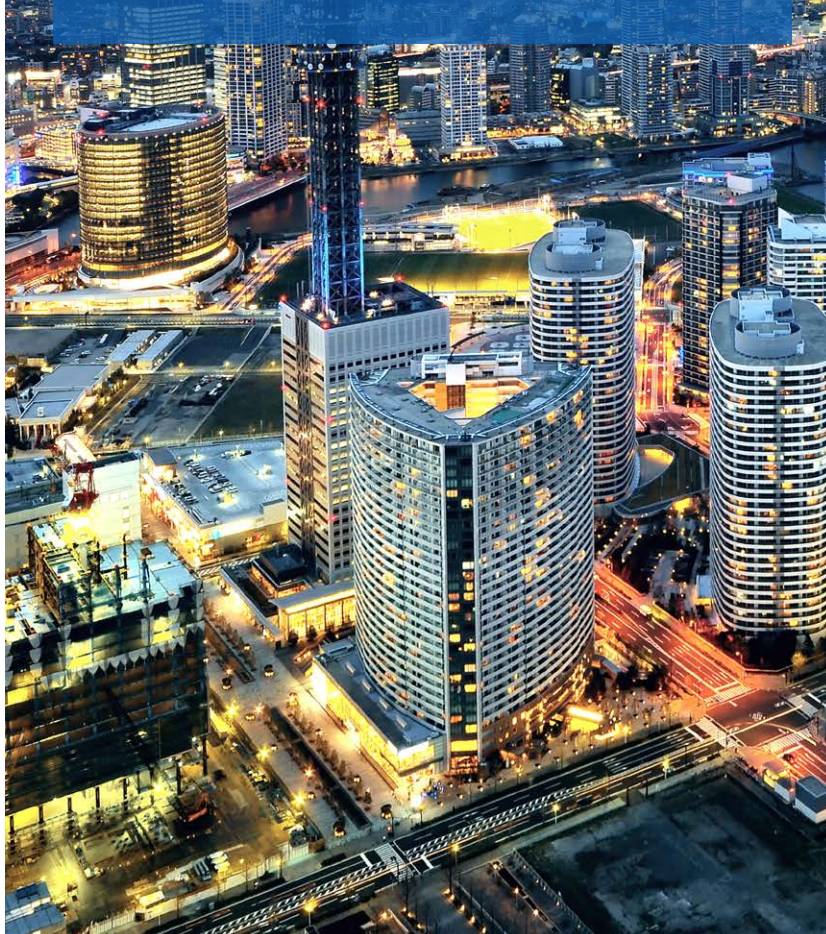




# NETWORK CAMERA

## Ultra-Smart Series

- High standard hardware: Sony Exmor sensor
- Superior image features: Starlight/Ultra WDR(140dB)
- Advanced H.265 encoding helps to save up to 50% bandwidth and storage
- Advanced intelligent functions: People counting, Heat map, SSA






















### Ultra-Smart Series

	Box Camera	Vari-Focal Bullet	Vari-Focal Dome
	IPC-HF81230E	IPC-HFW81230E-Z	IPC-HDBW81230E-Z
Model	 4K H.265	 4K H.265	 4K H.265
Image Sensor	1/1.7" 12Mp Exmor R CMOS	1/1.7" 12Mp Exmor R CMOS	1/1.7" 12Mp Exmor R CMOS
Lens	CS	4.1-16.4mm/F1.53(4x Optical zoom)	4.1-16.4mm/F1.53(4x Optical zoom)
FOV-H	--	86°~35°	112°~35°
Min. Illumination	0.01Lux/F1.2(Color) 0.001Lux/F1.2(B/W)	0.02Lux/F1.53(Color) 0Lux/F1.53(IR on)	0.02Lux/F1.53(Color) 0Lux/F1.53(IR on)
Day/Night	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR
Max. IR Distance	--	50m(164ft)	50m(164ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	12M(4000×3000)	12M(4000×3000)	12M(4000×3000)
Frame Rate	20fps@12M,30fps@4K	20fps@12M,30fps@4K	20fps@12M,30fps@4K
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°
IntelligentVideo(Optional)	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map
Compatibility	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	1/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2/1	2/1	1/1
Ingress Protection	--	IP67, IK10(optional)	IP67, IK10
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)
Power	DC12V/AC24V, PoE (802.3af) Max. 8W	DC12V, PoE+(802.3at) Max. 18W	DC12V/AC24V, PoE+(802.3at) Max. 18W

# NETWORK CAMERA







## Ultra-Smart Series

	Box Camera				Vari-Focal Bullet	
Model	IPC-HF8630F	IPC-HF8331E	IPC-HF8232F	IPC-HF8231E	IPC-HFW8630E-Z	IPC-HFW8331E-Z
	 	   	  	   	 	   
Image Sensor	1/1.8"6Mp Exmor R CMOS	1/2.8"3Mp Exmor R CMOS	1/1.9"2Mp Exmor CMOS	1/2.8"2Mp Exmor R CMOS	1/1.8"6Mp Exmor R CMOS	1/2.8"3Mp Exmor R CMOS
Lens	CS	CS	CS	CS	4.1-16.4mm/F1.53(4x Optical zoom)	2.7-12mm/F1.4, Motorized
FOV-H	--	--	--	--	81.2°-25.8°	94°-33°
Min. Illumination	0.01Lux/F1.2(Color) 0.001Lux/F1.2(B/W)	0.002Lux/F1.2(Color) 0.0002Lux/F1.2(B/W)	0.001Lux/F1.2(Color) 0.0001Lux/F1.2(B/W)	0.002Lux/F1.2(Color) 0.0002Lux/F1.2(B/W)	0.02Lux/F1.53( Color) 0Lux/F1.53(IR on)	0.005Lux/F1.4( Color) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	DWDR	140dB	120dB	140dB	DWDR	140dB
Max. IR Distance	--	--	--	--	50m(164ft)	50m(164ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	6M(3072×2048)	3M(2048×1536)	1080P(1920×1080)	1080P(1920×1080)	6M(3072×2048)	3M(2048×1536)
Frame Rate	30fps@6M	30fps@3M	60fps@1080P	30fps@1080P	30fps@6M	30fps@3M
Multi-streaming	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°
IntelligentVideo(Optional)	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map
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
Audio In/Out	1/1,Built-in Mic	1/1,Built-in Mic	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	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	--	--	--	--	IP67, IK10(optional)	IP67, IK10(optional)
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)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)
Power	DC12V/AC24V, PoE (802.3af) Max. 10W	DC12V/AC24V, PoE (802.3af) Max. 10W	DC12V/AC24V, PoE (802.3af) Max. 10W	DC12V/AC24V, PoE (802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 14W	DC12V, PoE (802.3af) Max. 14W



# NETWORK CAMERA

## Ultra-Smart Series

	Vari-Focal Bullet		Vari-Focal Dome			
Model	IPC-HFW8232E-Z	IPC-HFW8231E-Z	IPC-HDBW8630E-Z	IPC-HDBW8331E-Z	IPC-HDBW8232E-Z	IPC-HDBW8231E-Z
	 H.265 Starlight	 Ultra WDR H.265 Starlight	 H.265	 Ultra WDR H.265 Starlight	 H.265 Starlight	 Ultra WDR H.265 Starlight
Image Sensor	1/1.9"2Mp Exmor CMOS	1/2.8"2Mp Exmor R CMOS	1/1.8"6Mp Exmor R CMOS	1/2.8"3Mp Exmor R CMOS	1/1.9"2Mp Exmor CMOS	1/2.8"2Mp Exmor R CMOS
Lens	4.1-16.4mm/F1.53(4x Optical zoom)	2.7-12mm/F1.4, Motorized	4.1-16.4mm/F1.53(4x Optical zoom)	2.7-12mm/F1.4, Motorized	4.1-16.4mm/F1.53(4x Optical zoom)	2.7-12mm/F1.4, Motorized
FOV-H	90°~58°	99°~35°	81.2°~25.8°	87°~31°	90°~58°	87°~31°
Min. Illumination	0.002Lux/F1.53 (Color) 0Lux/F1.53(IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0.02Lux/F1.53 (Color) 0Lux/F1.53(IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0.002Lux/F1.53 (Color) 0Lux/F1.53(IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	140dB	DWDR	140dB	120dB	140dB
Max. IR Distance	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	6M(3072×2048)	3M(2048×1536)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	60fps@1080P	30fps@1080P	30fps@6M	30fps@3M	60fps@1080P	30fps@2M
Multi-streaming	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°
IntelligentVideo(Optional)	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map
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
Audio In/Out	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
Alarm In/Out	2/1	2/1	1/1	1/1	1/1	1/1
Ingress Protection	IP67, IK10(optional)	IP67, IK10(optional)	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)
Power	DC12V, PoE (802.3af) Max. 12.5W	DC12V, PoE (802.3af) Max. 12.5W	DC12V/AC24V, PoE (802.3af) Max. 14W	DC12V/AC24V, PoE(802.3af) Max. 13.5W	DC12V/AC24V, PoE(802.3af) Max. 12W	DC12V/AC24V, PoE(802.3af) Max. 13.5W

# NETWORK CAMERA

## Eco-Savvy 3.0

- Support H.265 encoding helps to save up to 50% bandwidth and storage
- Max Frame rate can reach up to 4MP@30fps/2MP@60fps
- Excellent starlight technology: 0.002Lux/F1.2
- Complete housing range












### Eco-Savvy 3.0 Series

	Box Camera		Vari-Focal Bullet	
	IPC-HF5431E	IPC-HF5231E	IPC-HFW5431E-Z	IPC-HFW5231E-Z
Model	 <span>H.265</span>	 <span>H.265</span> <span>Starlight</span>	 <span>H.265</span>	 <span>H.265</span> <span>Starlight</span>
Image Sensor	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS
Lens	CS	CS	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized
FOV-H	--	--	96~34°	97~34°
Min. Illumination	0.01Lux/F1.2 (Color) 0.001Lux/F1.2(B/W)	0.004Lux/F1.2(Color) 0.0004Lux/F1.2(B/W)	0.03Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.006Lux/F1.4(Color) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	--	--	50m(164ft)	50m(164ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	4M(2688x1520)	1080P(1920x1080)	4M(2688x1520)	1080P(1920x1080)
Frame Rate	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P
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(Optional)	Tripwire,Intrusion cene 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	2/1	2/1	1/1	1/1
Ingress Protection	--	--	IP67, IK10(optional)	IP67, IK10(optional)
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) Max. 7W	DC12V/AC24V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 11.5W	DC12V, PoE (802.3af) Max. 11.5W












# NETWORK CAMERA

## Eco-Savvy 3.0 Series

	Vari-Focal Dome				Vari-Focal Eyeball		Fixed Mini-Bullet		
Model	IPC-HDBW5431E-Z  H.265	IPC-HDBW5231E-Z  H.265 Starlight	IPC-HDBW5431R-Z  H.265	IPC-HDBW5231R-Z  H.265 Starlight	IPC-HDW5431R-Z  H.265	IPC-HDW5231R-Z  H.265 Starlight	IPC-HFW4830E-S  4K H.265	IPC-HFW4431E-S  H.265	IPC-HFW4231E-S  H.265 Starlight
Image Sensor	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.5" 8Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS
Lens	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	4mm/F1.6	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0
FOV-H	96°~34°	97°~34°	96°~34°	97°~34°	96°~34°	97°~34°	88°	87°/55°	87°/51°
Min. Illumination	0.03Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.006Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.03Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.006Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.03Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.006Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.6 (Color) 0Lux/F1.6(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	DWDR	120dB	120dB
Max. IR Distance	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	50m(164ft)	30m(98.4ft)	40m(131.2ft)	40m(131.2ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	4M(2688×1520)	1080P(1920×1080)	4M(2688×1520)	1080P(1920×1080)	4M(2688×1520)	1080P(1920×1080)	4K(3840×2160)	4M(2688×1520)	1080P(1920×1080)
Frame Rate	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	30fps@4M	60fps@1080P
Multi-streaming	3 streams	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°~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°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
IntelligentVideo(Optional)	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	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	ONVIF profile S&G,CGI
Audio In/Out	1/1	1/1	1/1	1/1	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	Micro SD Max. 128GB
Alarm In/Out	1/1	1/1	1/1	1/1	--	--	--	--	--
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67	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)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V/AC24V PoE+ (802.3at),Max.16W	DC12V/AC24V PoE+(802.3at),Max.16W	DC12V PoE (802.3af), Max.8.5W	DC12V PoE (802.3af), Max. 8.5W	DC12V PoE (802.3af), Max. 7.5W	DC12V PoE (802.3af),Max. 7.5W	DC12V PoE (802.3af), Max. 7.5W	DC12V PoE (802.3af), Max. 6W	DC12V PoE (802.3af), Max. 6.5W

# NETWORK CAMERA

## Eco-Savvy 3.0 Series

	Fixed Mini-Bullet		Fixed LXIR Bullet				Fixed Mini-Dome		
Model	IPC-HFW4431S	IPC-HFW4231S	IPC-HFW4431B-AS	IPC-HFW4231B-AS	IPC-HFW4431D-AS	IPC-HFW4231D-AS	IPC-HDBW4830E-AS	IPC-HDBW4431E-AS	IPC-HDBW4231E-AS
	 H.265	 H.265 Starlight	 H.265	 H.265 Starlight	 H.265	 H.265 Starlight	 4K H.265	 H.265	 H.265 Starlight
Image Sensor	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.5" 8Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS
Lens	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0l	3.6mm/F2.0 6mm/F2.0l	4mm/F1.6	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0
FOV-H	104°/83°/55°	87°/52°	83°/55°	87°/52°	83°/55°	87°/52°	88°	104°/83°/55°	110°/ 87°/52°
Min. Illumination	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.05Lux/F1.6 (Color) 0Lux/F1.6(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	DWDR	120dB	120dB
Max. IR Distance	30m(98.4ft)	30m(98.4ft)	50m(164ft)	50m(164ft)	80m(262.5ft)	80m(262.5ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	4M(2588x1520)	1080P(1920x1080)	4M(2688x1520)	1080P(1920x1080)	4M(2688x1520)	1080P(1920x1080)	4K(3840x2160)	4M(2688x1520)	1080P(1920x1080)
Frame Rate	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P	15fps@4K, 30fps@3M	30fps@4M	60fps@1080P
Multi-streaming	3 streams	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°~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°	Pan: 0°~355°; Tilt: 0°~64° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~64° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~64° Rotation: 0°~355°
IntelligentVideo(Optional)	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	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	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	--	--	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67,IK10	IP67, K10	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)	-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. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W



# NETWORK CAMERA

## Eco-Savvy 3.0 Series



	Wedge Dome		Fixed LXIR Bullet		Fixed Eyeball				
Model	IPC-HDBW4431F-AS	IPC-HDBW4231F-AS	IPC-HDB4431C-AS	IPC-HDB4231C-AS	IPC-HDW4830EM-AS	IPC-HDW4431EM-AS	IPC-HDW4231EM-AS	IPC-HDW4431M	IPC-HDW4231M
Image Sensor	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.5" 8Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS
Lens	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	4mm/F1.6	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0
FOV-H	106°/78°/57°	120°/88°/61°	106°/78°	120°/88°	88°	104°/83°/55°	110°/87°/52°	104°/83°/55°	86°/53°
Min. Illumination	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.05Lux/F1.6 (Color) 0Lux/F1.6(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.08Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.009Lux/F2.0(Color) 0Lux/F2.0(IR on)
Day/Night	ICR	ICR	Electronic	Electronic	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	DWDR	120dB	120dB	120dB	120dB
Max. IR Distance	20m(65.6ft)	20m(65.6ft)	--	--	50m(164ft)	50m(164ft)	50m(164ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	4M(2688×1520)	1080P(1920×1080)	4M(2688×1520)	1080P(1920×1080)	4K(3840×2160)	4M(2668×1520)	1080P(1920×1080)	4M(2688×1520)	1080P(1920×1080)
Frame Rate	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P	15fps@4K,30fps@3M	30fps@4M	60fps@1080P	30fps@4M	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° 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°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
IntelligentVideo(Optional)	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	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	ONVIF profile S&G,CGI
Audio In/Out	Built-in Mic	Built-in Mic	Built-in Mic	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	--	--	--	--	--	--	--	--	--
Ingress Protection	IP67,IK10	IP67,IK10	IP66	IP66	IP67	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)	-30°C~+60°C (-22°F ~+140°F)
Power	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 3W	DC12V, PoE (802.3af) Max. 2.5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 5.5W

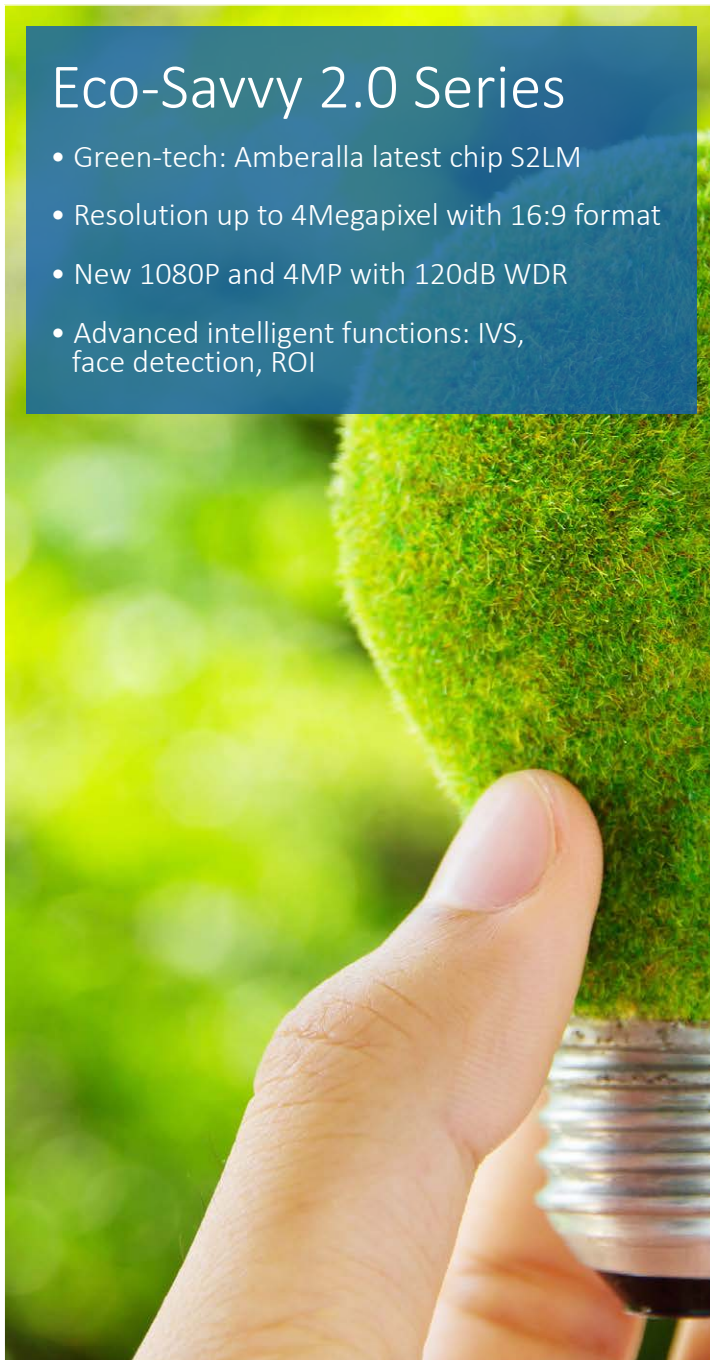
# NETWORK CAMERA

## Eco-Savvy 2.0 Series

- Green-tech: Amberalla latest chip S2LM
- Resolution up to 4Megapixel with 16:9 format
- New 1080P and 4MP with 120dB WDR
- Advanced intelligent functions: IVS, face detection, ROI

### Eco-Savvy 2.0 Series

	Box Camera		Vari-Focal Bullet	
	IPC-HF5421E	IPC-HF5221E	IPC-HFW5421E-Z	IPC-HFW5221E-Z
Model				
Image Sensor	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS
Lens	CS	CS	2.7~12mm/F1.4 Motorized	2.7~22mm/F1.4, Motorized (optional)
FOV-H	--	--	99°~34°	99°~34°/ 41°~17°(optional)
Min. Illumination	0.01Lux/F1.2 (Color) 0.001Lux/F1.2(B/W)	0.01Lux/F1.2(Color) 0.001Lux/F1.2(B/W)	0.01Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.01Lux/F1.4(Color) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	--	--	50m(164ft)	50m(164ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	4M(2688×1520)	1080P(1920×1080))	4M(2688×1520)	1080P(1920×1080)
Frame Rate	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P
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°
IntelligentVideo(Optional)	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	2/1	2/1	1/1	1/1
Ingress Protection	--	--	IP67, IK10(optional)	IP67, IK10(optional)
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), Max. 6.5W	DC12V/AC24V PoE (802.3af), Max. 10W	DC12V PoE (802.3af), Max. 10W	DC12V PoE (802.3af), Max. 10W



# NETWORK CAMERA







## Eco-Savvy 2.0 Series

	Vari-Focal Dome		Fixed Mini-Bullet		Fixed Mini-Bullet	
Model	IPC-HDBW5421E-Z	IPC-HDBW5221E-Z	IPC-HFW4421S	IPC-HFW4221S	IPC-HFW4421E	IPC-HFW4221E
						
Image Sensor	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS
Lens	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0
FOV-H	99°~34°	99°~34°	94°/84°/56°	93°/63°	84°/56°	93°/63°
Min. Illumination	0.01Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.01Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.01Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0(Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0(Color) 0Lux/F2.0(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	50m(164ft)	50m(164ft)	30m(98.4ft)	30m(98.4ft)	40m(131.2ft)	40m(131.2ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	4M(2560×1440)	1080P(1920×1080)	4M(2588×1520)	1080P(1920×1080)	4M(2688×1520)	1080P(1920×1080)
Frame Rate	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P
Multi-streaming	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°~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°
IntelligentVideo(Optional)	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
Audio In/Out	1/1	1/1	--	--	--	--
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	--	--	--	--
Alarm In/Out	1/1	1/1	--	--	--	--
Ingress Protection	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)
Power	DC12V/AC24V, PoE (802.3af) Max. 10W	DC12V/AC24V, PoE (802.3af) Max. 10W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 6W	DC12V, PoE (802.3af) Max. 6.5W



# NETWORK CAMERA

## Eco-Savvy 2.0 Series

	Fixed LXIR Bullet				Fixed Mini-Dome	
Model	IPC-HFW4421B(-AS)	IPC-HFW4221B(-AS)	IPC-HFW4421D(-AS)	IPC-HFW4221D(-AS)	IPC-HDBW4421E(-AS)	IPC-HDBW4221E(-AS)
						
Image Sensor	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS
Lens	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0
FOV-H	81°/55°	91°/63°	81°/55°	91°/63°	106°/83°/56°	120°/ 93°/63°
Min. Illumination	0.01Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	50m(164ft)	50m(164ft)	80m(262.5ft)	80m(262.5ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	4M(2688x1520)	1080P(1920x1080)	4M(2688x1520)	1080P(1920x1080)	4M(2688x1520)	1080P(1920x1080)
Frame Rate	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	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°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°
IntelligentVideo(Optional)	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
Audio In/Out	■ 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
Alarm In/Out	■ 1/1	■ 1/1	■ 1/1	■ 1/1	■ 1/1	■ 1/1
Ingress Protection	IP67	IP67	IP67	IP67	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)
Power	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W

■ Only for -As Series

# NETWORK CAMERA

## Eco-Savvy 2.0 Series

	Wedge Dome		Fixed LXIR Eyeball		Fixed Eyeball	
Model	IPC-HDBW4421F(-AS)	IPC-HDBW4221F(-AS)	IPC-HDW4421EM-AS	IPC-HDW4221EM-AS	IPC-HDW4421M	IPC-HDW4221M
Image Sensor	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS	1/3" 4Mp CMOS	1/2.7" 2Mp CMOS
Lens	2.8mm/F2.0 3.6mm/F1.8 6mm/F1.8	2.8mm/F2.0 3.6mm/F1.8 6mm/F1.8	3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0 6mm/F2.0	3.6mm/F2.0 6mm/F2.0
FOV-H	106°/83°/56°	120°/ 93°/63°	81°/55°	91°/63°	106°/83°/56°	93°/63°
Min. Illumination	0.01Lux/F2.0 (Color) 0Lux/F2.0 (IR on)	0.01lux/F2.0 (color) 0Lux/F2.0 (IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0 (IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0 (IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0 (IR on)	0.01Lux/F2.0 (Color) 0Lux/F2.0 (IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	20m(65.6ft)	20m(65.6ft)	50m(164ft)	50m(164ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	4M(2688x1520)	1080P(1920x1080)	4M(2668x1520)	1080P(1920x1080)	4M(2688x1520)	1080P(1920x1080)
Frame Rate	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P	20fps@4M, 30fps@3M	30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~60°; Tilt: 0°~80° 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°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
IntelligentVideo(Optional)	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
Audio In/Out	■ 1/1	■ 1/1	Built-in Mic	Built-in Mic	--	--
Memory Slot	■ Micro SD, Max. 128GB	■ Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	--	--
Alarm In/Out	■ 1/1	■ 1/1	--	--	--	--
Ingress Protection	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)
Power	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 5W

■ Only for -As Series

# NETWORK CAMERA

## Lite Series

- Affordable price
- Stable, Efficient, Easy-installation












Lite Series			
	Vari-Focal Bullet		
	IPC-HFW2320R-VFS/ZS	IPC-HFW2220R-VFS/ZS	IPC-HFW2120R-VFS/ZS
Model			
Image Sensor	1/3" 3Mp CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS
Lens	2.7~12mm/F1.4 Manual(-VFS), Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS), Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS), Motorized(-ZS)
FOV-H	92°~ 28°	98°~ 30°	92°~ 28°
Min. Illumination	0.1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0.1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0.1Lux/F1.4 (Color) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR
Max. IR Distance	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	3M(2048x1536)	1080P(1920x1080)	1.3M(1280x960)
Frame Rate	20fps@3M, 30fps@1080P	30fps@1080P	30fps@1.3M
Multi-streaming	2 streams	2 streams	2 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°
IntelligentVideo(Optional)	--	--	--
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	--	--	--
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	--	--	--
Ingress Protection	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)
Power	DC12V, PoE (802.3af) Max. 7.5W	DC12V, PoE (802.3af) Max. 8.5W	DC12V, PoE (802.3af) Max. 7.5W



# NETWORK CAMERA

Lite Series									
	Vari-Focal Bullet			Vari-Focal Dome			Vari-Focal Eyeball		
Model	IPC-HFW2320R-VFS/ZS-IRE6	IPC-HFW2220R-VFS/ZS-IRE6	IPC-HFW2120R-VFS/ZS-IRE6	IPC-HDBW2320R-VFS/ZS	IPC-HDBW2220R-VFS/ZS	IPC-HDBW2120R-VFS/ZS	IPC-HDW2320R-ZS	IPC-HDW2220R-ZS	IPC-HDW2120R-ZS
Image Sensor	1/3" 3Mp CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS	1/3" 3Mp CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS	1/3" 3Mp CMOS	1/3" 2Mp CMOS	1/3" 1.3Mp CMOS
Lens	2.7~12mm/F1.4 Manual(-VFS) Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS) Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS) Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS) Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS) Motorized(-ZS)	2.7~12mm/F1.4 Manual(-VFS) Motorized(-ZS)	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized	2.7~12mm/F1.4 Motorized
FOV-H	92°~ 28°	98°~ 30°	92°~ 28°	92°~28°	98°~30°	92°~28°	92°~28°	99°~37°	90°~29°
Min. Illumination	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)	0. 1Lux/F1.4 (Color) 0Lux/F1.4(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Max. IR Distance	60m(196.9ft)	60m(196.9ft)	60m(196.9ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	60m(196.9ft)	60m(196.9ft)	60m(196.9ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	3M(2048x1536)	1080P(1920x1080)	1.3M(1280x960)	3M(2048x1536)	1080P(1920x1080)	1.3M(1280x960)	3M(2048x1536)	1080P(1920x1080)	1.3M(1280x960)
Frame Rate	20fps@3M 30fps@1080P	30fps@1080P	30fps@1.3M	20fps@3M 30fps@1080P	30fps@1080P	30fps@1.3M	20fps@3M 30fps@1080P	30fps@1080P	30fps@1.3M
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~75° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~75° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~75° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~67° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~67° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~67° Rotation: 0°~360°
IntelligentVideo(Optional)	--	--	--	--	--	--	--	--	--
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	ONVIF profile S&G,CGI
Audio In/Out	--	--	--	--	--	--	--	--	--
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	Micro SD, Max. 128GB
Alarm In/Out	--	--	--	--	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67,IK10	IP67,IK10	IP67,IK10	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)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V, PoE (802.3af) Max. 8.5W	DC12V, PoE (802.3af) Max. 9.5W	DC12V, PoE (802.3af) Max. 8.5W	DC12V, PoE (802.3af) Max. 4.5W	DC12V, PoE (802.3af) Max. 4.5W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4.5W	DC12V, PoE (802.3af) Max. 7.5W	DC12V, PoE (802.3af) Max. 7.5W

# NETWORK CAMERA

Lite Series									
	Fixed Small-Bullet			Fixed Mini-Dome			Fixed Eyeball		
Model	IPC-HFW1320S	IPC-HFW1220S	IPC-HFW1120S	IPC-HDBW1320E	IPC-HDBW1220E	IPC-HDBW1120E	IPC-HDW1320S	IPC-HDW1220S	IPC-HDW1120S
									
Image Sensor	1/3" 3Mp CMOS	1/2.9" 2Mp CMOS	1/3" 1.3Mp CMOS	1/3" 3Mp CMOS	1/3" 2Mp CMOS	1/3" 1.3Mp CMOS	1/3" 3Mp CMOS	1/2.9" 2Mp CMOS	1/3" 1.3Mp CMOS
Lens	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0
FOV-H	92°/81°	110°/83°	95°/73°	92°/81°	115°/90°	89°/71°	92°/81°	110°/83°	95°/73°
Min. Illumination	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)	0.1Lux/F2.0 (Color) 0Lux/F2.0(IR on)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Max. IR Distance	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	3M(2048×1536)	1080P(1920×1080)	1.3M(1280×960)	3M(2048×1536)	1080P(1920×1080)	1.3M(1280×960)	3M(2048×1536)	1080P(1920×1080)	1.3M(1280×960)
Frame Rate	20fps@3M 30fps@1080P	30fps@1080P	30fps@1.3M	20fps@3M 30fps@1080P	30fps@1080P	30fps@1.3M	20fps@3M 30fps@1080P	30fps@1080P	30fps@1.3M
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~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°~90° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°
IntelligentVideo(Optional)	--	--	--	--	--	--	--	--	--
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	ONVIF profile S&G,CGI
Audio In/Out	--	--	--	--	--	--	--	--	--
Memory Slot	--	--	--	--	--	--	--	--	--
Alarm In/Out	--	--	--	--	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67,IK10	IP67,IK10	IP67,IK10	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)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 4W	DC12V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 5W	DC12V, PoE (802.3af) Max. 4W








# NETWORK CAMERA

## Panoramic Series

- 360° super wide view angle with up to 12Megapixel
- IR light works 24h/day
- Easy dewarping: NVR, Smart PSS, Smartphone APP supported



### Panoramic Series

	Panoramic					
	IPC-PFW8601-A180	IPC-EBW81200	IPC-EBW8600	IPC-EBW8600-IVC	IPC-EB5500	IPC-EB5400
Model		 4K		 		
Image Sensor	1/2.8" 2Mp CMOS	1/2.3" 12Mp Exmor R CMOS	1/1.8" 6Mp Exmor R CMOS	1/1.8" 6Mp Exmor R CMOS	1/3" 5Mp CMOS	1/3" 4Mp CMOS
Lens	3.6mm/F2.0	1.57mm/F2.2	1.55mm/F2.2	1.3mm/F2.8	1.42mm/F2.6	1.18mm/F2.2
FOV-H	180°	185°/185°/185°	185°/185°/185°	185°/185°/185°	185°/185°/185°	185°/185°/185°
Min. Illumination	0.006Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.01Lux/F2.2(Color) 0Lux/F2.2(IR on)	0.01Lux/F2.2(Color) 0Lux/F2.2(IR on)	0.01Lux/F2.8(Color) 0Lux/F2.8(IR on)	0.01Lux/F2.6(Color) 0Lux/F2.6(IR on)	0.01Lux/F2.2(Color) 0Lux/F2.2(IR on)
Max. IR Distance	30m(98.4ft)	10m(32.8ft)	10m(32.8ft)	10m(32.8ft)	--	--
Day/Night	ICR	ICR	ICR	ICR	Electronic	Electronic
WDR	120dB	DWDR	DWDR	DWDR	DWDR	DWDR
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Resolution	(4096x832)	12M(4000x3000)	6M(3072x2048)	6M(3072x2048)	4M(2592x1944)	4M(2592x1520)
Frame Rate	30fps@(4096x832)	15fps@12M, 30fps@3M	30fps@6M	30fps@6M	12fps@5M, 30fps@UXGA	15fps@4M, 30fps@UXGA
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	--	--	--	--	--
Intelligent Video(Optional)	Tripwire,Intrusion Scene Change Abandoned/Missing Face Detection People Counting,Heat Map	Tripwire, Intrusion Heat map	Tripwire, Intrusion Heat map	Tripwire, Intrusion Heat map	Heat map	Heat map
Correct Mode	--	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R
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
Audio In/Out	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. 64GB	Micro SD, Max. 64GB
Alarm In/Out	2/1	2/1	2/1	2/1	1/1	1/1
Ingress Protection	IP67,IK10	IP67,IK10	IP67,IK10	IP67,IK10	IK10	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)
Power	DC12V, PoE+ (802.3at) Max. 23W	DC12V, PoE (802.3af) Max. 13W	DC12V, PoE (802.3af) Max. 13W	DC12V, PoE (802.3af) Max. 13W	DC12V, PoE (802.3af) Max. 6W	DC12V, PoE (802.3af) Max. 6W



# NETWORK PTZ CAMERA





# NETWORK PTZ CAMERA

## Ultra Series

- High sensitivity and low noise with back-illuminated pixel technology
- 30x optical zoom 4K PTZ brings more benefits
- Intelligent auto-tracking PTZ can easily track objects
- Superior image features: Ultra starlight/WDR
- Powerful protection: IP67, IK10
- Long IR distance: Max.500m

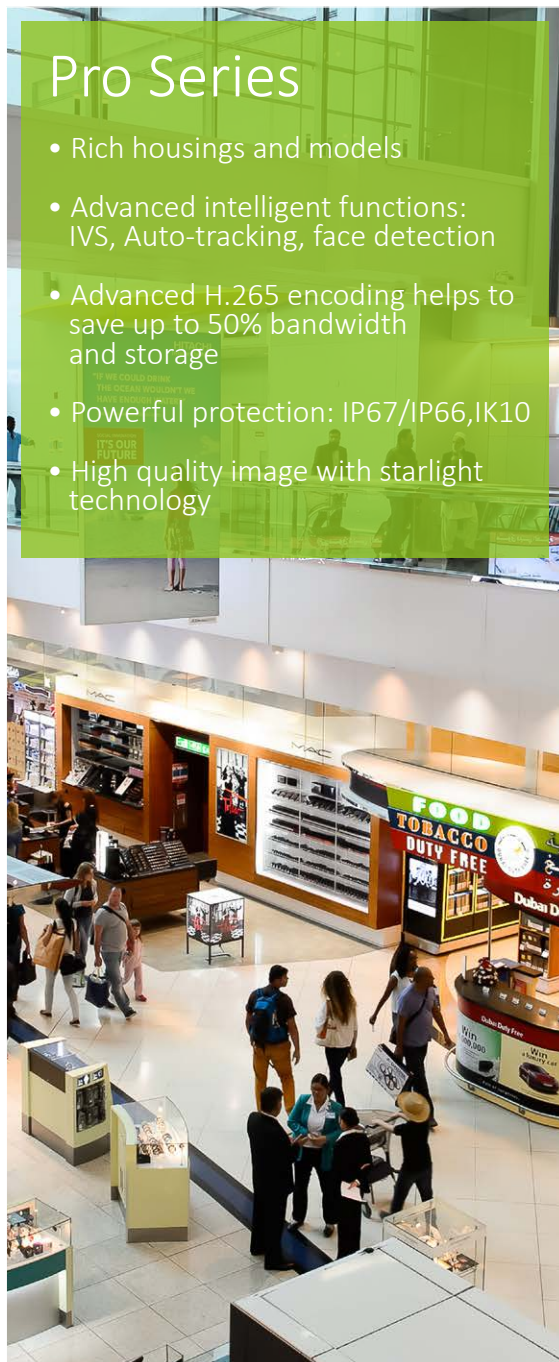


Ultra Series							
	Outdoor IR PTZ Camera		Outdoor PTZ Camera	Outdoor IR PTZ Camera		Outdoor PTZ Camera	Outdoor IR PTZ Camera
Model	SD6AE830V-HNI	SD6AL830V-HNI	SD65F830V-HNI	SD6AE230F-HNI	SD6AL230F-HNI	SD65F230F-HNI	SD6AL240-HNI
Image Sensor	1/1.7" 12Mp Exmor R CMOS	1/1.7" 12Mp Exmor R CMOS	1/1.7" 12Mp Exmor R CMOS	1/1.9" 2Mp Exmor CMOS	1/1.9" 2Mp Exmor CMOS	1/1.9" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS
Lens	6~180mm (30x Optical zoom)	6~180mm (30x Optical zoom)	6~180mm (30x Optical zoom)	6~180mm (30x Optical zoom)	6~180mm (30x Optical zoom)	6~180mm (30x Optical zoom)	7.9mm~316mm (40x Optical zoom)
FOV-H	H: 61.2°~2.1°	H: 61.2°~2.1°	H: 61.2°~2.1°	H: 61.2°~2.1°	H: 61.2°~2.1°	H: 61.2°~2.1°	H: 41.5°~1.1°
Min. Illumination	0.05Lux/F1.6(Color) 0Lux /F1.6(IR on)	0.05Lux/F1.6(Color) 0Lux /F1.6 (IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.002Lux/F1.6(Color) 0Lux /F1.6 (IR on)	0.002Lux/F1.6(Color) 0Lux /F1.6 (IR on)	0.002Lux/F1.6(Color) 0.0002Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	DWDR	DWDR	DWDR	120dB	120dB	120dB	DWDR
Max. IR Distance	200m(656ft)	500m(1640ft)	--	200m(656ft)	500m(1640ft)	--	500m(1640ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	4K(3840x2160)	4K(3840x2160)	4K(3840x2160)	1080P(1920x1080)	1080P(1920x1080)	1080P(1920x1080)	1080P(1920x1080)
Frame Rate	30fps@4K/3M 60fps@1080P	30fps@4K/3M 60fps@1080P	30fps@4K/3M 60fps@1080P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°
Preset Speed	Pan: 240° /s Tilt: 200° /s	Pan: 240° /s Tilt: 200° /s	Pan: 600° /s Tilt: 500° /s	Pan: 240° /s Tilt: 200° /s	Pan: 240° /s Tilt: 200° /s	Pan: 600° /s Tilt: 500° /s	Pan: 240° /s Tilt: 200° /s
Auto Tracking	Support	Support	Support	Support	Support	Support	Support
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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	7/2	7/2	7/2	7/2	7/2	7/2	7/2
Ingress Protection	IP67, IK10	IP67	IP67, IK10	IP67, IK10	IP67	IP67, IK10	IP67
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)
Power	AC24V, Hi-PoE Max. 43W	AC24V, Hi-PoE Max. 43W	AC24V, PoE+(802.3at) Max. 20W	AC24V, Hi-PoE Max. 43W	AC24V, Hi-PoE Max. 43W	AC24V, PoE+(802.3at) Max. 20W	AC24V, Hi-PoE Max. 43W







# NETWORK PTZ CAMERA

## Pro Series

- Rich housings and models
- Advanced intelligent functions: IVS, Auto-tracking, face detection
- Advanced H.265 encoding helps to save up to 50% bandwidth and storage
- Powerful protection: IP67/IP66,IK10
- High quality image with starlight technology




### Pro Series

	Outdoor IR PTZ Camera			Outdoor PTZ Camera		
	SD6C230T-HN	SD6C220T-HN	SD6C120T-HN	SD60230T-HN	SD60220T-HN	SD60120T-HN
Model						
Image Sensor	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS
Lens	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)
FOV-H	H: 67.8°~2.4°	H: 56.1°~3.1°	H: 56.1°~3.1°	H: 67.8°~2.4°	H: 56.1°~3.1°	H: 56.1°~3.1°
Min. Illumination	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4(B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4(B/W)
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Max. IR Distance	100m(328ft)	100m(328ft)	100m(328ft)	--	--	--
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	1080P(1920x1080)	1080P(1920x1080)	1.3M(1280x960)	1080P(1920x1080)	1080P(1920x1080)	1.3M(1280x960)
Frame Rate	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1.3M/720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1.3M/720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°
Preset Speed	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 600° /s; Tilt: 500° /s	Pan: 600° /s; Tilt: 500° /s	Pan: 600° /s; Tilt: 500° /s
Auto Tracking	--	--	--	--	--	--
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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
Audio In/Out	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
Alarm In/Out	2/1	2/1	2/1	7/2	7/2	7/2
Ingress Protection	IP66	IP66	IP66	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)
Power	AC24V Max. 26W	AC24V Max. 26W	AC24V Max. 26W	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 20W



# NETWORK PTZ CAMERA

Pro Series									
	Outdoor IR PTZ Camera			Outdoor PTZ Camera			Indoor PTZ Camera		
Model	SD59230T-HN	SD59220T-HN	SD59120T-HN	SD50230T-HN	SD50220T-HN	SD50120T-HN	SD52C230T-HN	SD52C220T-HN	SD52C120T-HN
									
Image Sensor	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/3" 1.3Mp Exmor CMOS
Lens	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)
FOV-H	H: 67.8°~2.4°	H: 56.1°~3.1°	H: 56.1°~3.1°	H: 67.8°~2.4°	H: 56.1°~3.1°	H: 56.1°~3.1°	H: 67.8°~2.4°	H: 56.1°~3.1°	H: 56.1°~3.1°
Min. Illumination	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4 (B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4(B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6 (B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4 (B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4(B/W)
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Max. IR Distance	100m(328ft)	100m(328ft)	100m(328ft)	--	--	--	--	--	--
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	1.3M(1280×960)	1080P(1920×1080)	1080P(1920×1080)	1.3M(1280×960)	1080P(1920×1080)	1080P(1920×1080)	1.3M(1280×960)
Frame Rate	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1.3M/720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1.3M/720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1.3M/720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°
Presets Speed	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s
Auto Tracking	--	--	--	--	--	--	--	--	--
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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	ONVIF profile S&G,CGI
Audio In/Out	1/1	1/1	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	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP66	IP66	IP67, IK10	IP67, IK10	IP67, IK10	IK10	IK10	IK10
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°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	AC24V,PoE+(802.3at) Max. 23W	AC24V,PoE+(802.3at) Max. 23W	AC24V,PoE+(802.3at) Max. 23W	AC24V,PoE+(802.3at) Max. 23W	AC24V,PoE+(802.3at) Max. 23W	AC24V,PoE+(802.3at) Max. 23W	AC24V,PoE(802.3af) Max. 13W	AC24V,PoE(802.3af) Max. 13W	AC24V,PoE(802.3af) Max. 13W

# NETWORK PTZ CAMERA

Pro Series						
	Outdoor IR PTZ Camera			Outdoor PTZ Camera		
Model	SD6CE230U-HNI	SD6CE225U-HNI	SD6CE131U-HNI	SD60230U-HNI	SD60225U-HNI	SD60131U-HNI
						
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" Exmor R CMOS
Lens	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.8~150mm(31x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.8~150mm(31x Optical zoom)
FOV-H	H: 67.8° ~ 2.7°	H: 59.2° ~ 2.4°	H: 58.3° ~ 1.9°	H: 67.8° ~ 2.7°	H: 59.2° ~ 2.4°	H: 58.3° ~ 1.9°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	150m(492ft)	150m(492ft)	150m(492ft)	--	--	--
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	720P(1280×720)	1080P(1920×1080)	1080P(1920×1080)	720P(1280×720)
Frame Rate	60fps@1080P	60fps@1080P	60fps@720P	60fps@1080P	60fps@1080P	60fps@720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°
Preset Speed	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 600° /s; Tilt: 500° /s	Pan: 600° /s; Tilt: 500° /s	Pan: 600° /s; Tilt: 500° /s
Auto Tracking	Support	Support	Support	Support	Support	Support
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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
Audio In/Out	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
Alarm In/Out	2/1	2/1	2/1	7/2	7/2	7/2
Ingress Protection	IP66	IP66	IP66	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)
Power	AC24V, PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 20W



# NETWORK PTZ CAMERA

Pro Series						
	Indoor PTZ Camera			Outdoor IR PTZ Camera	Outdoor PTZ Camera	Outdoor IR PTZ Camera
Model	SD52C230U-HNI	SD52C225U-HNI	SD52C131U-HNI	SD6CE430U-HNI	SD60430U-HNI	SD59430U-HNI
	 H.265 Starlight	 H.265 Starlight	 H.265 Starlight	 H.265	 H.265	 H.265
Image Sensor	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" Exmor R CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/3" 4Mp CMOS
Lens	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.8~150mm (31x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)
FOV-H	H: 67.8° ~ 2.7°	H: 59.2° ~ 2.4°	H: 58.3° ~ 1.9°	H: 60° ~ 2.2°	H: 60° ~ 2.2°	H: 60° ~ 2.2°
Min. Illumination	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	--	--	--	150m(492ft)	--	150m(492ft)
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
Max. Resolution	1080P(1920x1080)	1080P(1920x1080)	720P(1280x720)	4M(2592x1520)	4M(2592x1520)	4M(2592x1520)
Frame Rate	60fps@1080P	60fps@1080P	60fps@720P	30fps@4M/3M 60fps@1080P	30fps@4M/3M 60fps@1080P	30fps@4M/3M 60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°
Preset Speed	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 600° /s; Tilt: 500° /s	Pan: 400° /s; Tilt: 300° /s
Auto Tracking	Support	Support	Support	Support	Support	Support
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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
Audio In/Out	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
Alarm In/Out	2/1	2/1	2/1	2/1	7/2	2/1
Ingress Protection	IK10	IK10	IK10	IP66	IP67, IK10	IP66
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)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)
Power	AC24V,PoE(802.3af) Max. 13W	AC24V,PoE(802.3af) Max. 13W	AC24V,PoE(802.3af) Max. 13W	AC24V,PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 20W	AC24V,PoE+(802.3at) Max. 23W



# NETWORK PTZ CAMERA


Pro Series								
	Outdoor PTZ Camera	Indoor PTZ Camera	IR Housing Zoom Camera			Zoom Camera		
Model	SD50430U-HNI  H.265	SD52C430U-HNI  H.265	SDZW2030S-N  H.265 Starlight	SDZW2020S-N 	SDZW1020S-N 	SDZ2030S-N  H.265 Starlight	SDZ2020S-N 	SDZ1020S-N 
Image Sensor	1/3" 4Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor CMOS	1/1.3" 1.3Mp Exmor CMOS	1/2.8" 2Mp Exmor R CMOS	1/2.8" 2Mp Exmor CMOS	1/1.3" 1.3Mp Exmor CMOS
Lens	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)	4.5~135mm (30x Optical zoom)	4.7~94mm (20x Optical zoom)	4.7~94mm (20x Optical zoom)
FOV-H	H: 60° ~ 2.2°	H: 60° ~ 2.2°	H: 67.8°~2.4°	H: 56.1° ~ 3.1°	H: 56.1° ~ 3.1°	H: 67.8°~2.4°	H: 56.1° ~ 3.1°	H: 56.1° ~ 3.1°
Min. Illumination	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0Lux/1.6F (IR on)	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4(B/W)	0.05Lux/F1.4(Color) 0.005Lux/F1.4(B/W)
WDR	120dB	120dB	120dB	DWDR	DWDR	120dB	DWDR	DWDR
Max. IR Distance	--	--	100m(328ft)	100m(328ft)	100m(328ft)	--	--	--
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.264+/H.264	H.264+/H.264	H.265/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	4M(2592x1520)	4M(2592x1520)	1080P(1920x1080)	1080P(1920x1080)	1.3M(1280x960)	1080P(1920x1080)	1080P(1920x1080)	1.3M(1280x960)
Frame Rate	30fps@1080P, 60fps@720P	30fps@1080P, 60fps@720P	60fps@1080P	30fps@1080P, 60fps@720P	30fps@1080P, 60fps@720P	60fps@1080P	30fps@1080P, 60fps@720P	30fps@1.3M/720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	--	--	--	--	--	--
Preset Speed	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	--	--	--	--	--	--
Auto Tracking	Support	Support	--	--	--	--	--	--
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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	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	2/1	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP67, IK10	IK10	IP66	IP66	IP66	--	--	--
Working Temperature	-40°C ~ +60°C (-40°F ~ +158°F)	-30°C ~ +60°C (-22°F ~ +140°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)
Power	AC24V, PoE+(802.3at) Max. 23W	AC24V, PoE(802.3af) Max. 13W	DC12V Max. 50W	DC12V Max. 50W	DC12V Max. 50W	DC12V, PoE(802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 10W

# NETWORK PTZ CAMERA

## Lite Series

- Compact design
- Mini-IR PTZ camera
- Intelligent functions: IVS, Face detection
- Max. 20x optical zoom brings more benefits
- Affordable



Lite Series							
	Outdoor IR PTZ Camera	Outdoor PTZ Camera	Indoor PTZ Camera	Indoor PTZ Camera	Indoor PTZ Camera	Mini IR PTZ Camera	Mini PTZ Camera
Model	SD49220T-HN 	SD40212T-HN 	SD42212T-HN 	SD42C212T-HN 	SD32203S-HN 	SD29204T-GN  <small>reddot award 2015 winner</small>	SD22204T-GN 
Image Sensor	1/2.8" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.7" 2Mp CMOS	1/2.7" 2Mp CMOS	1/2.8" 2Mp Exmor CMOS	1/2.7" 2Mp CMOS	1/2.7" 2Mp CMOS
Lens	4.7~94mm (20x Optical zoom)	5.1~61.2mm (12x Optical zoom)	5.1~61.2mm (12x Optical zoom)	5.1~61.2mm (12x Optical zoom)	3~9mm (3x Optical zoom)	2.7~11mm (4x Optical zoom)	2.7~11mm (4x Optical zoom)
FOV-H	H: 56.1°~3.1°	H: 59.3°~5.2°	H: 59.3°~5.2°	H: 59.3°~5.2°	H: 98.4°~29.7°	H: 112.5°~30°	H: 112.5°~30°
Min. Illumination	0.05Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)
WDR	DWDR	120dB	120dB	120dB	DWDR	120dB	120dB
Max. IR Distance	100m(328ft)	--	--	--	--	30m(98ft)	--
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P	30fps@1080P 60fps@720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -2° ~ 90°	Pan: 0° ~ 360° endless Tilt: -2° ~ 90°	Pan: 0° ~ 360° endless Tilt: -2° ~ 90°	Pan: 0° ~ 360° endless Tilt: 0° ~ 90°	Pan: 0° ~ 360° limited Tilt: 0° ~ 90°	Pan: 0° ~ 355° Tilt: 0° ~ 90°
Preset Speed	Pan: 240° /s Tilt: 200° /s	Pan: 300° /s Tilt: 200° /s	Pan: 300° /s Tilt: 200° /s	Pan: 300° /s Tilt: 200° /s	Pan: 240° /s Tilt: 160° /s	Pan: 100° /s Tilt: 60° /s	Pan: 100° /s Tilt: 60° /s
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	--	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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	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	2/1	2/1	2/1	2/1	2/1	--	--
Ingress Protection	IP66	IP66, IK10	IP66, IK10	IK10	IP66, IK10	--	IP66, IK10
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +60°C (-40°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/3A, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 22W	AC24V, PoE(802.3af) Max. 12W	AC24V, PoE(802.3af) Max. 12W	DC12V, PoE(802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 13W	DC12V, PoE(802.3af) Max. 10W

# NETWORK PTZ CAMERA

## Positioning System

- Intelligent Auto-tracking PTZ can easily track objects
- Superior image features: Ultra starlight/WDR
- 30x/40x optical zoom PTZ brings more benefits
- Long IR distance: Max.800m
- Wide monitoring range



Positioning System				
	IR Positioning System		Laser Positioning System	
	PTZ12230F-IRB-N	PTZ12240-IRB-N	PTZ12230F-LR8-N	PTZ12240-LR8-N
Model				
Image Sensor	1/1.9" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS	1/1.9" 2Mp Exmor CMOS	1/2.8" 2Mp Exmor CMOS
Lens	6~180mm (30x Optical zoom)	7.9mm ~ 316mm (40x Optical zoom)	6~180mm (30x Optical zoom)	7.9mm ~ 316mm (40x Optical zoom)
FOV-H	H: 61.2°~2.1°	H: 41.5°~1.1°	H: 61.2°~2.1°	H: 41.5°~1.1°
Min. Illumination	0.002Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.05Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.002Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.05Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	120dB	DWDR	120dB	DWDR
Max. IR Distance	300m(984ft)	300m(984ft)	800m(2625ft)	800m(2625ft)
Video Compression	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@1080P, 60fps@720P	30fps@1080P, 60fps@720P	30fps@1080P, 60fps@720P	30fps@1080P, 60fps@720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -90° ~ 45°	Pan: 0° ~ 360° endless Tilt: -90° ~ 45°	Pan: 0° ~ 360° endless Tilt: -90° ~ 45°	Pan: 0° ~ 360° endless Tilt: -90° ~ 45°
Preset Speed	Pan: 160° /s; Tilt: 60° /s	Pan: 160° /s; Tilt: 60° /s	Pan: 160° /s; Tilt: 60° /s	Pan: 160° /s; Tilt: 60° /s
Auto Tracking	Support	Support	Support	Support
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion 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	1/1	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	7/2	7/2	7/2	7/2
Ingress Protection	IP66	IP66	IP66	IP66
Working Temperature	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)	-40°C ~ +70°C(-40°F ~ +158°F)
Power	AC24V Max. 90W	AC24V Max. 90W	AC24V Max. 90W	AC24V Max. 90W



# NETWORK VIDEO RECORDER





# NETWORK VIDEO RECORDER

## Ultra Series

- Powerful Intel Multi-core CPU features perfect processing capability
- High standard industrial structure design creates high reliable products
- Excellent redundant mechanism makes devices safer and more robust
- Fisheye Dewarp, POS(optional), N+M fail over
- Advanced intelligent functions: IVS/Face Detection(optional)

### Ultra Series

	24HDD Ultra NVR			
	NVR724DR-256	NVR724R-256	NVR724D-256	NVR724-256
Model				
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
IP Video Inputs	256 channel	256 channel	256 channel	256 channel
Max Input/Record	512Mbps/512Mbps	512Mbps/512Mbps	512Mbps/512Mbps	512Mbps/512Mbps
Max Decoding	20ch@1080P (Optional: 52ch@1080P)	20ch@1080P (Optional: 52ch@1080P)	20ch@1080P (Optional: 52ch@1080P)	20ch@1080P (Optional: 52ch@1080P)
Display	2HDMI(Optional: 10HDMI) VGA, LCD	2HDMI(Optional: 10HDMI) VGA	2HDMI(Optional: 10HDMI) VGA, LCD	2HDMI(Optional: 10HDMI) VGA
Max HDD	24x6TB	24x6TB	24x6TB	24x6TB
RAID	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60
eSATA/Mini SAS	1/2	1/2	1/2	1/2
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/4	4/4	4/4	4/4
Ethernet	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports
PoE	--	--	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V, Redundant <200W(Without HDD)	AC100V~240V, Redundant <200W(Without HDD)	AC100V~240V <200W(Without HDD)	AC100V~240V <200W(Without HDD)
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection
Star Features	Fisheye Dewarp, N+M	Fisheye Dewarp, N+M	Fisheye Dewarp, N+M	Fisheye Dewarp, N+M





# NETWORK VIDEO RECORDER




## Ultra Series

	8HDD Ultra 4K&H.265 NVR				
	NVR608R-128-4KS2	NVR608-128-4KS2	NVR608R-64-4KS2	NVR608-64-4KS2	NVR608-32-4KS2
Model	 <span>H.265</span>	 <span>H.265</span>	 <span>H.265</span>	 <span>H.265</span>	 <span>H.265</span>
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Dual Core CPU
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
IP Video Inputs	128 channel	128 channel	64 channel	64 channel	32 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	16ch@1080P
Display	2HDMI, VGA	2HDMI, VGA	2HDMI, VGA	2HDMI, VGA	2HDMI, VGA
Max HDD	8x6TB	8x6TB	8x6TB	8x6TB	8x6TB
RAID	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60
eSATA/Mini SAS	1/-	1/-	1/-	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/8	16/8	16/8	16/8	16/8
Ethernet	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports
PoE	--	--	--	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V, Redundant <20W(Without HDD)	AC100V~240V <20W(Without HDD)	AC100V~240V, Redundant <20W(Without HDD)	AC100V~240V <20W(Without HDD)	AC100V~240V <20W(Without HDD)
Intelligent Video(Optional)	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, Smart Track POS(Optional), N+M	Fisheye Dewarp, Smart Track POS(Optional), N+M	Fisheye Dewarp, Smart Track POS(Optional), N+M	Fisheye Dewarp, Smart Track POS(Optional), N+M	Fisheye Dewarp, Smart Track POS(Optional), N+M

# NETWORK VIDEO RECORDER

## Pro Series

















- Powerful processor: ARM Cortex A17 Quad Core CPU
- Advanced H.265 to save up to 50% bandwidth and storage
- Outstanding decode capacity up to 4ch@4K/16ch@1080P
- Fisheye Dewarp, POS(optional), P2P
- Advanced intelligent functions: IVS/Face Detection(optional) with smart IPC

Pro Series			
8HDD Professional 4K&H.265 NVR			
	NVR5832-4KS2	NVR5816-4KS2	NVR5816-16P-4KS2
Model	 <span>H.265</span>	 <span>H.265</span>	 <span>H.265</span>
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
IP Video Inputs	32 channel	16 channel	16 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, VGA	2HDMI, VGA	2HDMI, VGA
Max HDD	8x6TB	8x6TB	8x6TB
RAID	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10
eSATA/Mini SAS	1/-	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/6	16/6	16/6
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port
PoE	--	--	16 Ports (IEEE802.3at/af), 150W
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V <16.7W(Without HDD)	AC100V~240V <16.7W(Without HDD)	AC100V~240V <17.5W(Without HDD)
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection
Star Features	Fisheye Dewarp, Smart Add POS(Optional), P2P, N+M	Fisheye Dewarp, Smart Add POS(Optional), P2P, N+M	Fisheye Dewarp, Plug & Play, POS(Optional), P2P, N+M





# NETWORK VIDEO RECORDER




Pro Series								
	4HDD Professional 4K&H.265 NVR			2HDD Professional 4K&H.265 NVR				
Model	NVR5432-4KS2	NVR5416-4KS2	NVR5416-16P-4KS2	NVR5232-4KS2	NVR5216-4KS2	NVR5208-4KS2	NVR5216-16P-4KS2	NVR5208-8P-4KS2
	 	 	 	 	 	 	 	 
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	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
IP Video Inputs	32 channel	16 channel	16 channel	32 channel	16 channel	8 channel	16 channel	8 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	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	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI, VGA	2HDMI, VGA	2HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	4x6TB	4x6TB	4x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB
RAID	--	--	--	--	--	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 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	4/2	4/2
Ethernet	2 Gigabit Ports	2 Gigabit Ports	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	--	--	--	16 Ports (IEEE802.3at/af) 130W	8 Ports (IEEE802.3at/af) 80W
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	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	AC100V~240V <16.7W(Without HDD)	AC100V~240V <16.7W(Without HDD)	AC100V~240V <17.5W(Without HDD)	DC12V/4A <9.5W(Without HDD)	DC12V/4A <9.5W(Without HDD)	DC12V/4A <9.5W(Without HDD)	AC100V~240V <15.2W(Without HDD)	AC100V~240V <14.5W(Without HDD)
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection
Star Features	Fisheye Dewarp, Smart Add POS(Optional), P2P	Fisheye Dewarp, Smart Add POS(Optional), P2P	Fisheye Dewarp, Plug & Play, POS(Optional), P2P	Fisheye Dewarp, Smart Add POS(Optional), P2P	Fisheye Dewarp, Smart Add POS(Optional), P2P	Fisheye Dewarp, Smart Add POS(Optional), P2P	Fisheye Dewarp, Plug & Play, POS(Optional), P2P	Fisheye Dewarp, Plug & Play, POS(Optional), P2P

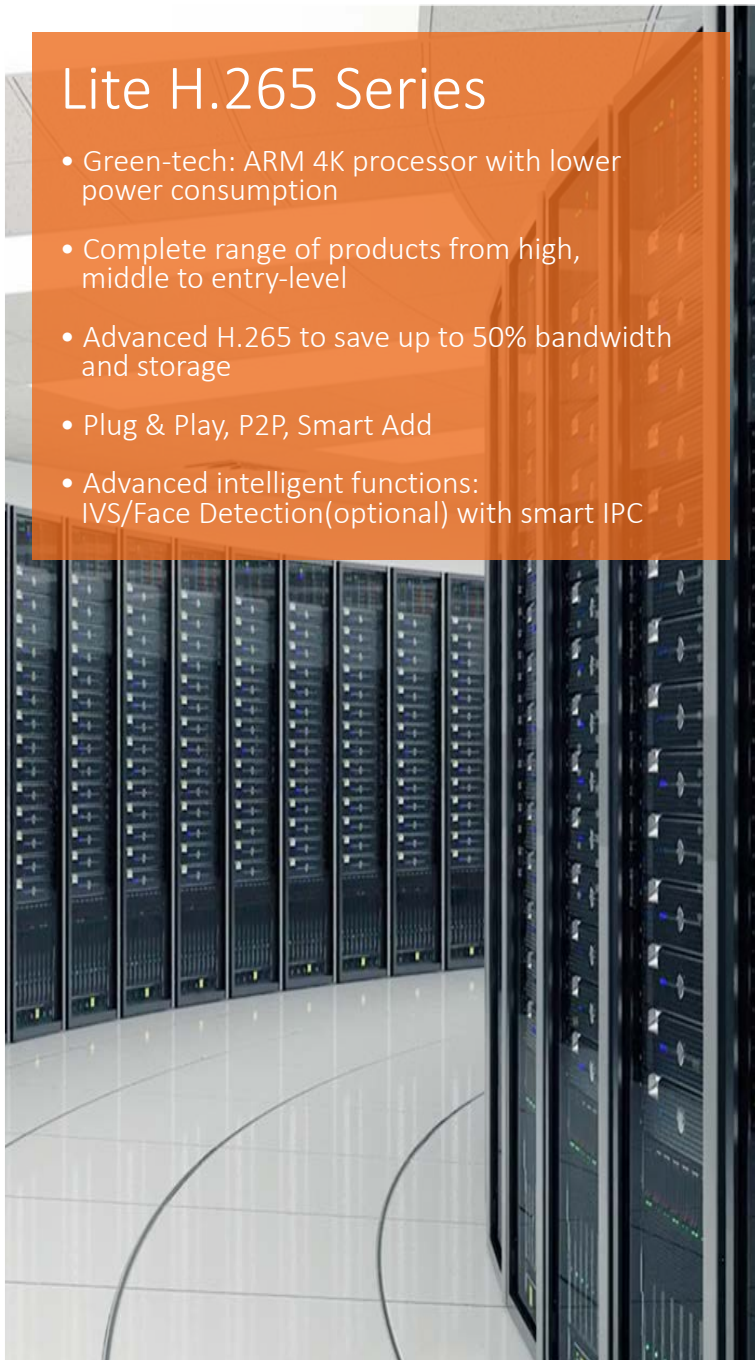
# NETWORK VIDEO RECORDER

## Lite H.265 Series

- Green-tech: ARM 4K processor with lower power consumption
- Complete range of products from high, middle to entry-level
- Advanced H.265 to save up to 50% bandwidth and storage
- Plug & Play, P2P, Smart Add
- Advanced intelligent functions: IVS/Face Detection(optional) with smart IPC

















### Lite H.265 Series

	8HDD Lite 4K&H.265 NVR		
	NVR4832-4KS2	NVR4816-4KS2	NVR4816-16P-4KS2
Model	 <span>H.265</span>	 <span>H.265</span>	 <span>H.265</span>
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264
IP Video Inputs	32 channel	16 channel	16 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P
Display	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	8x6TB	8x6TB	8x6TB
RAID	--	--	--
eSATA/Mini SAS	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	16/4	16/4
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port
PoE	--	--	16 Ports (IEEE802.3at/af) 150W
USB	1 USB3.0, 2 USB2.0	1 USB3.0, 2 USB2.0	1 USB3.0, 2 USB2.0
Power	AC100V~240V <18.8W(Without HDD)	AC100V~240V <18.8W(Without HDD)	AC100V~240V <27.9W(Without HDD)
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection
Star Features	Smart Add, P2P	Smart Add, P2P	Plug & Play, P2P



















# NETWORK VIDEO RECORDER

## Lite H.265 Series

	4HDD Lite 4K&H.265 NVR			2HDD Lite 4K&H.265 NVR				
	NVR4432-4KS2	NVR4416-4KS2	NVR4416-16P-4KS2	NVR4232-4KS2	NVR4216-4KS2	NVR4208-4KS2	NVR4216-16P-4KS2	NVR4208-8P-4KS2
Model	 	 	 	 	 	 	 	 
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	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
IP Video Inputs	32 channel	16 channel	16 channel	32 channel	16 channel	8 channel	16 channel	8 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P
Display	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	4x6TB	4x6TB	4x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB
RAID	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	16/4	16/4	4/2	4/2	4/2	4/2	4/2
Ethernet	2 Gigabit Ports	2 Gigabit Ports	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	--	--	--	16 Ports (IEEE802.3at/af) 130W	8 Ports (IEEE802.3at/af) 80W
USB	1 USB3.0, 2 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 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 <17W(Without HDD)	AC100V~240V <17W(Without HDD)	AC100V~240V <26.5W(Without HDD)	DC12V/4A <8.7W(Without HDD)	DC12V/4A <8.7W(Without HDD)	DC12V/4A <8.7W(Without HDD)	AC100V~240V <26.5W(Without HDD)	AC100V~240V <15.2W(Without HDD)
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection
Star Features	Smart Add, P2P	Smart Add, P2P	Plug & Play, P2P	Smart Add, P2P	Smart Add, P2P	Smart Add, P2P	Plug & Play, P2P	Plug & Play, P2P

# NETWORK VIDEO RECORDER

## Lite H.265 Series







	1HDD Compact 1U Lite 4K&H.265 NVR				1HDD Smart 1U Lite 4K&H.265 NVR			
	NVR4108HS-4KS2	NVR4104HS-4KS2	NVR4108HS-8P-4KS2	NVR4104HS-P-4KS2	NVR4108-4KS2	NVR4104-4KS2	NVR4108-8P-4KS2	NVR4104-P-4KS2
Model	 	 	 	 	 	 	 	 
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	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264	H.265/H.264
IP Video Inputs	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/4ch@1080P	2ch@4K/8ch@1080P	2ch@4K/4ch@1080P	2ch@4K/8ch@1080P	2ch@4K/4ch@1080P	2ch@4K/8ch@1080P	2ch@4K/4ch@1080P
Display	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB
RAID	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	-- (2/1 optional)	-- (2/1 optional)	-- (2/1 optional)	-- (2/1 optional)	-- (2/1 optional)	-- (2/1 optional)	--	-- (2/1 optional)
Ethernet	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port
PoE	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/2A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC48V/2A <10W(Without HDD)	DC48V/1.5A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC48V/2A <10W(Without HDD)	DC48V/1.5A <10W(Without HDD)
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection	Tripwire, Intrusion Abandoned/Missing Scene Change Face Detection
Star Features	Smart Add, P2P	Smart Add, P2P	Plug & Play, P2P	Plug & Play, P2P	Smart Add, P2P	Smart Add, P2P	Plug & Play, P2P	Plug & Play, P2P



# NETWORK VIDEO RECORDER









## Lite Series

- Complete product range from high, middle to entry-level
- Easy4ip cloud technology makes the configuration and connection much easier
- Plug & Play, P2P, Smart Add

Lite Series						
	8HDD Lite NVR			4HDD Lite NVR		
	NVR4832	NVR4816	NVR4816-16P	NVR4432	NVR4416	NVR4416-16P
Model						
Processor	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
IP Video Inputs	32 channel	16 channel	16 channel	32 channel	16 channel	16 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	4ch@4MP/8ch@1080P	4ch@4MP/8ch@1080P	4ch@4MP/8ch@1080P	4ch@4MP/8ch@1080P	4ch@4MP/8ch@1080P	4ch@4MP/8ch@1080P
Display	HDMI, VGA, TV	HDMI, VGA, TV	HDMI, VGA, TV	HDMI, VGA, TV	HDMI, VGA, TV	HDMI, VGA, TV
Max HDD	8x6TB	8x6TB	8x6TB	4x6TB	4x6TB	4x6TB
RAID	--	--	--	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-	1/-	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	16/4	16/4	16/4	16/4	16/4
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	--	16 Ports (IEEE802.3at/af) 150W	--	--	16 Ports (IEEE802.3at/af) 150W
USB	1 USB3.0, 2 USB2.0	1 USB3.0, 2 USB2.0	1 USB3.0, 2 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	AC100V~240V <40W(Without HDD)	AC100V~240V <40W(Without HDD)	AC100V~240V <40W(Without HDD)	AC100V~240V <40W(Without HDD)	AC100V~240V <40W(Without HDD)	AC100V~240V <40W(Without HDD)
Intelligent Video(Optional)	--	--	--	--	--	--
Star Features	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Plug & Play POS(Optional), P2P	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Plug & Play POS(Optional), P2P









# NETWORK VIDEO RECORDER

## Lite Series

2HDD Lite NVR										
	NVR4232	NVR4216	NVR4208	NVR4216-16P	NVR4208-8P	NVR4204-P	NVR2208-S2	NVR2204-S2	NVR2208-8P-S2	NVR2204-P-S2
Model										
Processor	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
IP Video Inputs	32 channel	16 channel	8 channel	16 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	4ch@4MP 8ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 4ch@1080P	2ch@4MP 8ch@720P	2ch@4MP 4ch@1080P	2ch@4MP 8ch@720P	2ch@4MP 4ch@1080P
Display	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB
RAID	--	--	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	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	1x100M Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	--	--	16 Ports (IEEE802.3at/af) 130W	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/4A <20W(Without HDD)	DC12V/4A <20W(Without HDD)	DC12V/4A <20W(Without HDD)	AC100V~240V <20W(Without HDD)	AC100V~240V <20W(Without HDD)	DC12V/4A for NVR DC48V/1.05A for PoE <20W(Without HDD)	DC12V/4A <3W(Without HDD)	DC12V/4A <3W(Without HDD)	DC53V/2.3A <4.5W(Without HDD)	DC48V/1.5A <4W(Without HDD)
Intelligent Video(Optional)	--	--	--	--	--	--	--	--	--	--
Star Features	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Plug & Play POS(Optional), P2P	Plug & Play POS(Optional), P2P	Plug & Play POS(Optional), P2P	Smart Add, Easy4ip	Smart Add, Easy4ip	Plug & Play, Easy4ip	Plug & Play, Easy4ip














# NETWORK VIDEO RECORDER

## Lite Series

	Vertical NVR	1HDD Mini 1U Lite NVR					1HDD Compact 1U Lite NVR			
Model	NVR4208V-8P	NVR4116H	NVR4108H	NVR4104H	NVR4108H-8P	NVR4104H-P	NVR2108HS-S2	NVR2104HS-S2	NVR2108HS-8P-S2	NVR2104HS-P-S2
										
Processor	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
IP Video Inputs	8 channel	16 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel
Max Input/Record	200Mbps/200Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	4ch@4MP 8ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 4ch@1080P	4ch@4MP 8ch@1080P	4ch@4MP 4ch@1080P	2ch@4MP 8ch@720P	2ch@4MP 4ch@1080P	2ch@4MP 8ch@720P	2ch@4MP 4ch@1080P
Display	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	2x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB
RAID	--	--	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	2/1	--	--	--	2/1	--	--	--	--	--
Ethernet	1 Gigabit Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port
PoE	8 Ports (IEEE802.3at/af) 80W	--	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W
USB	1 USB3.0, 2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC53V/2.3A <20W(Without HDD)	DC12V/2A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC48V/2A <10W(Without HDD)	DC48V/1.5A <10W(Without HDD)	DC12V/2A <3W(Without HDD)	DC12V/2A <3W(Without HDD)	DC48V/2A <4.5W(Without HDD)	DC48V/1.25A <4W(Without HDD)
Intelligent Video(Optional)	--	--	--	--	--	--	--	--	--	--
Star Features	Plug & Play POS(Optional), P2P	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Plug & Play POS(Optional), P2P	Plug & Play POS(Optional), P2P	Smart Add, Easy4ip	Smart Add, Easy4ip	Plug & Play, Easy4ip	Plug & Play, Easy4ip

# NETWORK VIDEO RECORDER

## Lite Series

	1HDD Smart 1U Lite NVR								
	NVR4116	NVR4108	NVR4104	NVR4108-8P	NVR4104-P	NVR2108-S2	NVR2104-S2	NVR2108-8P-S2	NVR2104-P-S2
Model						 	 	 	 
Processor	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU	ARM Dual Core CPU
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
IP Video Inputs	16 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	4ch@4MP/8ch@1080P	4ch@4MP/8ch@1080P	4ch@4MP/4ch@1080P	4ch@4MP/8ch@1080P	4ch@4MP/4ch@1080P	2ch@4MP/8ch@720P	2ch@4MP/4ch@1080P	2ch@4MP/8ch@720P	2ch@4MP/4ch@1080P
Display	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA	HDMI, VGA
Max HDD	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB
RAID	--	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--	--	--	--	--
Ethernet	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port
PoE	--	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W	--	--	8 Ports (IEEE802.3at/af) 80W	4 Ports (IEEE802.3at/af) 50W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/2A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC12V/2A <10W(Without HDD)	DC48V/2A <10W(Without HDD)	DC48V/1.5A <10W(Without HDD)	DC12V/2A <3W(Without HDD)	DC12V/2A <3W(Without HDD)	DC48V/2A <4.5W(Without HDD)	DC48V/1.25A <4W(Without HDD)
Intelligent Video(Optional)	--	--	--	--	--	--	--	--	--
Star Features	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Smart Add POS(Optional), P2P	Plug & Play POS(Optional), P2P	Plug & Play POS(Optional), P2P	Smart Add, Easy4ip	Smart Add, Easy4ip	Plug & Play, Easy4ip	Plug & Play, Easy4ip







# Wi-Fi CAMERA / PTZ / NVR

## Wi-Fi Series

- 2.4GHz Wi-Fi technology brings easy installation without cable
- Easy configuration and connection powered by Easy4ip cloud
- Plug & Play with Wi-Fi NVR
- Two-way audio







### Wi-Fi Camera

	Wi-Fi Cube			
	IPC-K35	IPC-K15	IPC-C35	IPC-C15
Model				
Image Sensor	1/3" 3Mp CMOS	1/3" 1.3Mp CMOS	1/3" 3Mp CMOS	1/3" 1.3Mp CMOS
Focal Length	2.8mm/F2.0	2.8mm/F2.0	2.3mm/F2.2	2.3mm/F2.2
FOV-H	100°	92°	120°	125°
Day/Night	ICR	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR	DWDR
Max..IR Distance	10m(32.8ft)	10m(32.8ft)	10m(32.8ft)	10m(32.8ft)
Video Compression	H.264	H.264	H.264	H.264
Max..Resolution	3M(2304x1296)	1.3M(1280x960)	3M(2304x1296)	1.3M(1280x960)
Frame Rate	20fps@3M, 30fps@1080P	30fps@1.3M	20fps@3M, 30fps@1080P	30fps@1.3M
Multi-streaming	2 streams	2 streams	2 streams	2 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°	Pan: 0°~360°; Tilt: 0°~90°
Intelligent Video(Optional)	--	--	--	--
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	Built-in Mic/ Speaker	Built-in Mic/ Speaker	Built-in Mic/ Speaker	Built-in Mic/ Speaker
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	1/1	1/1	--	--
Wi-Fi	Wi-Fi (IEEE802.11b/g/n) 50m(open field)	Wi-Fi (IEEE802.11b/g/n) 50m(open field)	Wi-Fi (IEEE802.11b/g/n) 50m(open field)	Wi-Fi (IEEE802.11b/g/n) 50m(open field)
Wi-Fi Smart Config	Support	Support	Support	Support
Ingress Protection	--	--	--	--
Working Temperature	-10°C~+45°C(14°F ~ +113°F)	-10°C~+45°C(14°F ~ +113°F)	-10°C~+45°C(14°F ~ +113°F)	-10°C~+45°C(14°F ~ +113°F)
Power	DC12V Max. 7W	DC12V Max. 7W	DC5V Max. 4.6W	DC5V Max. 4.5W


# Wi-Fi CAMERA / PTZ / NVR


Wi-Fi Camera						
	Wi-Fi PT Camera		Wi-Fi Fixed Mini-Bullet		Wi-Fi Fixed Mini-Dome	
Model	IPC-A35	IPC-A15	IPC-HFW1320S-W	IPC-HFW1120S-W	IPC-HDBW1320E-W	IPC-HDBW1120E-W
						
Image Sensor	1/3" 3Mp CMOS	1/3" 1.3Mp CMOS	1/3" 3Mp CMOS	1/3" 1.3Mp CMOS	1/3" 3Mp CMOS	1/3" 1.3MP CMOS
Lens	3.6mm/F2.0	3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0
FOV-H	77°	72°	100°/77°	92°/72°	100°/77°	92°/72°
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR	DWDR	DWDR	DWDR
Max. IR Distance	10m(32.8ft)	10m(32.8ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)	30m(98.4ft)
Video Compression	H.264	H.264	H.264	H.264	H.264	H.264
Max. Resolution	3M(2304x1296)	1.3M(1280x960)	3M(2304x1296)	1.3M(1280x960)	3M(2304x1296)	1.3M(1280x960)
Frame Rate	20fps@3M 30fps@1080P	30fps@1.3M	20fps@3M 30fps@1080P	30fps@1.3M	20fps@3M 30fps@1080P	30fps@1.3M
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~90°	Pan: 0°~335°; Tilt: 0°~90°	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°
Intelligent Video(Optional)	--	--	--	--	--	--
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
Audio In/Out	Built-in Mic/ Speaker	Built-in Mic/ Speaker	--	--	--	--
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
Alarm In/Out	1/1	1/1	--	--	--	--
Wi-Fi	Wi-Fi (IEEE802.11b/g/n) 50m(open field)	Wi-Fi (IEEE802.11b/g/n) 50m(open field)	Wi-Fi (IEEE802.11b/g/n) 50m(open field)	Wi-Fi(IEEE802.11b/g/n) 50m(open field)	Wi-Fi(IEEE802.11b/g/n) 50m(open field)	Wi-Fi(IEEE802.11b/g/n) 50m(open field)
Wi-Fi Smart Config	Support	Support	Support	Support	Support	Support
Ingress Protection	--	--	IP67	IP67	IP67, IK10	IP67, IK10
Working Temperature	-10°C~+45°C(-22°F ~ +113°F)	-10°C~+45°C(-22°F ~ +113°F)	-10°C~+45°C(-22°F ~ +113°F)	-30°C~+50°C(-22°F ~ +113°F)	-30°C~+50°C(-22°F ~ +113°F)	-30°C~+50°C(-22°F ~ +113°F)
Power	DC5V Max. 8.5W	DC5V Max. 8.2W	DC12V Max. 7W	DC12V Max. 6.5W	DC12V Max. 4.5W	DC12V Max. 4W

Wi-Fi PTZ Camera		
	Mini PTZ Camera	
	SD22204T-GN-W	SD29204T-GN-W
Model		 
Image Sensor	1/2.7" 2Mp CMOS	1/2.7" 2Mp CMOS
Lens	2.7~11mm (4x Optical zoom)	2.7~11mm (4x Optical zoom)
FOV-H	H: 112.5°~30°	H: 112.5° ~ 30°
Min. Illumination	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB
Max. IR Distance	--	30m(98ft)
Video Compression	H.264+/H.264	H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@1080P, 60fps@720P	30fps@1080P, 60fps@720P
Multi-streaming	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 355°; Tilt: 0° ~ 90°	Pan: 0° ~ 360°; Tilt: 0° ~ 90°
Preset Speed	Pan: 100° /s; Tilt: 60° /s	Pan: 100° /s; Tilt: 60° /s
Intelligent Video(Optional)	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G,CGI	ONVIF profile S&G,CGI
Audio In/Out	--	Built-in Mic
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	--	--
Wi-Fi	Wi-Fi(IEEE802.11b/g/n) 50m(open field)	Wi-Fi(IEEE802.11b/g/n) 50m(open field)
Ingress Protection	IP66, IK10	--
Working Temperature	-30°C ~ +60°C(-22°F~ +140°F)	-30°C ~ +60°C (-22°F~ +140°F)
Power	DC12V, PoE(802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 13W








Wi-Fi Network Video Recorder	
	Wi-Fi NVR
	NVR4104HS-W-S2
Model	
Processor	ARM Dual Core CPU
Video Compression	H.264/MJPEG
IP Video Inputs	4 channel
Max Input/Record	80Mbps/80Mbps
Max Decoding	4ch@4MP/4ch@1080P
Display	HDMI, VGA
Max HDD	1×6TB
RAID	--
eSATA/Mini SAS	--
Audio In/Out	1/1, 2-way
Alarm In/Out	--
Ethernet	1×100M port
PoE	--
USB	2 USB2.0
Power	DC12V/2A <10W(Without HDD)
Intelligent Video(Optional)	--
Star Features	Smart Add, P2P, MIMO

Monitor		
	DHL22-F600	DHL32-F600
Model		
Diagonal	20.7"(16:9)	31.5"(16:9)
Resolution	1920x1080	1920x1080
Luminance	250cd/m2	300cd/m2
Contrast	1000:1	1200:1
Viewing Angle	H 178°, V 130°	H 178°, V 178°
Response Time	5ms	5ms
Gamut	0.72(CIE1931)	0.72(CIE1931)
Display Color	16.7M/8bit	16.7M/8bit
Input	VGA×1, HDMI×1, Audio×1	VGA×1, HDMI×2, Audio×1
Output	Speaker×1	Speaker×1
Control	Physical Button	Physical Button
Working Temperature	0~+40°C (+32~+104°F)	0~+40°C (+32~+104°F)
Working Humidity	10~90%	10~90%
Power	AC100~240V(+/-10%), 23W	AC100~240V(+/-10%), 50W
Dimensions (without base)	490×292.3×48.3mm (19.3"×11.5"×1.9")	731.2×435.6×79.2mm (28.8"×17.2"×3.1")
Weight	2.5kg (5.5lb)	5.4kg (11.9lb)


Decoder	
	NVD0405DH-4K
Model	
Support Screen	4 Screens
Splicing Control	Zoom/Merge/Roam/Overlay
Split Mode	1/4/9/16
Max Decoding	4CH@12M/4CH@4K/16CH@1080P/ 36CH@720P/64CH@D1
Local Video Input	1CH HDMI
Network Video Input	IPC/DVR/NVR, etc.
Video Output	HDMI/VGA/BNC
Audio Out	HDMI, 4 BNC(200-3000 mV, 5KΩ)
Alarm In/Out	4/4(30V DC 1A, 125V AC 0.5A Relay output)
Intercom	1 Pair BNC
Processor	Intel x86 processor
Case	1U 19" standard industry box
Ethernet	1 RJ-45 port(10/100/1000M)
USB	2 USB2.0
Power Supply	DC12V, 3.3A
Control Mode	WEB/ PC client-end/ Network keyboard
Highlights	4K & H.265 decoding Fisheye adjustment

Keyboard	
	NKB1000
Model	
Control Mode	Direct mode, Network mode USB mode
Control Interface	1 RJ-45 port (10/100/1000M) RS232, RS485, RS422, USB
DVR/NVR Protocol	DH2
Dome Protocol	DH-SD/PELCO-D/PELCO-P/PELCO-D1/ PELCO-P1 etc.
Max Remote Users	20(Each can manage up to 2048 unit devices)
Screen	Monochrome LCD screen (128×64)
Local Split Display Mode	--
Video Output	--
Local Decoding	--
Intercom	--
Joystick	4-axis(zoom, focus, iris)
Main Processor	Industrial embedded microprocessor
Operation System	Embedded LINUX
USB	1 USB2.0
Power	DC12V, 1A
Highlights	Multi-user access control Control DVR, NVR, EVS, Decoder Matrix Work with SmartPSS or DSSClient via USB port






PoE Switch							PoE Midspan	PoE Extender
	PFS3005-4P-58	PFS3106-4P-60	PFS3110-8P-96	PFS4220 -16P-250	PFS4228-24P-370		PFT1200	PFT1300
Model						Model		
Fast/Gigabit Ethernet	4FE PoE+1FE	4FE PoE+1GE	8FE PoE+1GE	16FE PoE+2GE	24FE PoE+2GE	Fast/Gigabit Ethernet	2GE	3FE
SFP Slots	--	1GE SFP	1GE SFP	2GE SFP	2GE SFP	SFP Slots	--	--
Switching Capacity	1G	6.8G	7.6G	24.8G	24.8G	Switching Capacity	--	1.4G
Packet Forwarding Rate	744Kpps	3.57Mpps	4.17Mpps	8.33Mpps	9.52Mpps	Packet forwarding rate	--	0.47Mpps
Packet Buffer Memory	448Kb	1Mb	1Mb	8Mb	8Mb	Packet Buffer Memory	--	512Kb
MAC Table Size	1K	8K	8K	16K	16K	MAC Table Size	--	1K
PoE Standard	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at)	PoE Standard	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at)
PoE Budget	58W	60W	96W	250W	370W	PoE Budget	60W	--
PoE PIN Assignment	1,2,4,5(V+),3,6,7,8(V-)	4,5(V+), 7, 8(V-)	4,5(V+), 7, 8(V-)	1,2(V+),3,6(V-)	1,2(V+),3,6(V-)	PoE PIN Assignment	1, 2, 4, 5(V+), 3, 6, 7, 8(V-)	4, 5(V+), 7, 8(V-)
VLAN	--	--	--	Support	Support	Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Link Aggregation	--	--	--	Support	Support	Working Temperature	-30°C~-65°C (-22°F~+149°F)	-30°C~-65°C (-22°F~+149°F)
Flow Control	Support	Support	Support	Support	Support	Dimensions	150×70×39mm (5.9"×2.8"×1.5")	79×52×23mm (3.1"×2.0"×0.9")
Spanning Tree	--	--	--	Support	Support			
Management	--	--	--	Support	Support			
Lightning Protection	Common Mode 2KV Differential Mode 1KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV			
Working Temperature	-10°C~+50°C (14°F~+122°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)			
Dimensions	100×100×26mm (3.9"×3.9"×1.0")	150×100×30mm (5.9"×3.9"×1.2")	150×100×42mm (5.9"×3.9"×1.7")	442×263×44.5mm (17.4"×10.4"×1.8")	442×263×44.5mm (17.4"×10.4"×1.8")			

# TRANSMISSION

L2+ Full Gigabit Switch		L3 Full Gigabit Switch		Optical Module				
Model	PFS5424-24T	PFS5924-24X	PFS6428-24T	Model	PFT3910	PFT3920	PFT3960	PFT3970
								
Fast/Gigabit Ethernet	20GE+4GE (Combo)	8GE (Combo)	24GE	Data Rate	155Mbps	155Mbps	1.25Gbps	1.25Gbps
SFP Slots	4GE SFP(Combo)	16GE SFP+8GE SFP(Combo)	4 GE SFP/10GE SFP+	Interface	LC	LC	LC	LC
Switching Capacity	350G	350G	392G	Transmission Distance	20km	20km	20km	20km
Packet Forwarding Rate	36Mpps	36Mpps	96Mpps	Transmission Medium	Single-mode	Single-mode	Single-mode	Single-mode
Packet Buffer Memory	32Mb	32Mb	12Mb	Wavelength	1310nm/1550nm	1550nm/1310nm	1310nm/1550nm	1550nm/1310nm
VLAN	Support	Support	Support	Sensitivity	≤-32dBm	≤-32dBm	≤-23dBm	≤-23dBm
Link Aggregation	Support	Support	Support	Operating Voltage	3.3V	3.3V	3.3V	3.3V
Port Management	Flow Control ,Speed Limit Port Mirroring	Flow Control ,Speed Limit Port Mirroring	Flow Control ,Speed Limit Port Mirroring	Output Power	-14dBm~-8dBm	-14dBm~-8dBm	-9dBm~-2dBm	-9dBm~-2dBm
Ring Network Protocol	STP/RSTP,ERPS	STP/RSTP,ERPS	STP/RSTP,ERPS	Working Temperature	-40°C~-85°C (-40°F~+185°F)	-40°C~-85°C (-40°F~+185°F)	-40°C~-85°C (-40°F~+185°F)	-40°C~-85°C (-40°F~+185°F)
IGMP Snooping	Support	Support	Support	Dimensions	13.7×56.5×8.95mm (0.5"×2.2"×0.4")	13.7×56.5×8.95mm (0.5"×2.2"×0.4")	13.7×56.5×8.95mm (0.5"×2.2"×0.4")	13.7×56.5×8.95mm (0.5"×2.2"×0.4")
Static IP Routing	Support	Support	Support					
Dynamic Routing	--	--	OSPF, RIP, BGP					
VRRP	--	--	Support					
Management	Web,CLI	Web,CLI	Web,CLI					
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)					
Dimensions	440×285×44.5mm (17.3"×11.2"×1.8")	440×285×44.5mm (17.3"×11.2"×1.8")	440×285×44.5mm (17.3"×11.2"×1.8")					

# ACCESSORIES

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

HFWxxE Series		
		
Model	PFA121	PFA121+PFA152
Mount	Junction box	Pole mount

HFWxxR-Z/VF, HFWxxB, HFWxxD Series		
		
Model	PFA135	PFA135+PFA150
Mount	Junction box	Pole mount

HFWxxS Series		
		
Model	PFA134	PFA134+PFA150
Mount	Junction box	Pole mount

HDBWxxR-Z/VF Series				
				
Model	PFA137	PFB203W	PFB203W+PFA152	PFB200C
Mount	Junction box	Wall mount	Pole mount	In-ceiling mount

HDBWxxE, HDWxxS Series			
			
Model	PFA136	PFB203W	PFB203W+PFA152
Mount	Junction box	Wall mount	Pole mount

HDBWxxE-Z Series					
					
Model	PFA138	PFA101+PFB302S	PFA101+PFB302S+PFA152	PFA101+PFB300C	PFB201C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount	In-ceiling mount

# ACCESSORIES

HDWxxR-Z Series			
			
<b>Model</b>	PFA137	PFB203W	PFB203W+PFA152
<b>Mount</b>	Junction box	Wall mount	Pole mount

HDWxxEM, HDBWxxF Series			
			
<b>Model</b>	PFA139	PFB204W	PFB204W+PFA152
<b>Mount</b>	Junction box	Wall mount	Pole mount

HDWxxM Series			
			
<b>Model</b>	PFA13A	PFB204W	PFB204W+PFA152
<b>Mount</b>	Junction box	Wall mount	Pole mount

HDBxxC, EB Series		
		
<b>Model</b>	PFB203W	PFB203W+PFA152
<b>Mount</b>	Wall mount	Pole mount

EBW Series				
				
<b>Model</b>	PFA132	PFA100+PFB302S	PFA100+PFB302S+PFA152	PFA100+PFB300C
<b>Mount</b>	Junction box	Wall mount	Pole mount	Ceiling mount

SD65F/60/6AE/6AL Series							
							
<b>Model</b>	PFA111+PFB303W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
<b>Mount</b>	Wall mount	Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount



# ACCESSORIES

SD6CE Series							
							
<b>Model</b>	PFA114+PFB303W	PFA114+PFB303W+PFA120	PFA114+PFB300C	PFA150	PFA151	PFA140	PFA114+PFB303S
<b>Mount</b>	Wall mount	Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

SD6C Series							
							
<b>Model</b>	64FB	PFA114+PFB300C	PFA150	PFA151	PFA140	PFA114+PFB303S	
<b>Mount</b>	Wall mount	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount	

SD59/50/40 Series							
							
<b>Model</b>	PFA110+PFB300S	PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA150	PFA151	PFA140	PFA110+PFB303S
<b>Mount</b>	Wall mount	Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

SD49 Series							
							
<b>Model</b>	PFB305W	PFB305W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
<b>Mount</b>	Wall mount	Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

# ACCESSORIES

SD42 Series				
				
Model	PFA102+PFB302S	PFA102+PFB302S+PFA150	PFA102+PFB302S+PFA151	PFA102+PFB300C
Mount	Wall mount	Pole mount	Corner Mount	Ceiling mount

SD32 Series				
				
Model	PFA101+PFB302S	PFA101+PFB302S+PFA150	PFA101+PFB302S+PFA151	PFA101+PFB300C
Mount	Wall mount	Pole mount	Corner Mount	Ceiling mount

SD29 Series				
 				
Model	PFA103+PFB302S	PFA103+PFB302S+PFA150	PFA103+PFB302S+PFA151	PFA103+PFB300C
Mount	Wall mount	Pole mount	Corner Mount	Ceiling mount

SD22 Series				
				
Model	PFA137	PFB202W	PFB202W+PFA152	PFB200C
Mount	Junction box	Wall mount	Pole mount	In-ceiling mount

# ACCESSORIES

Housing						
Model	PFH610N/V/A	PFH610N/V/A-H	PFH610N/V/A-H-POE	PFH610N/V/A-IR	PFH610N-W	PFH610N-IR-W
Appearance						
Description	Aluminum & PC N/A IP67/ IP67&IK10/ IP67&IK10&NEMA 4X DC12V/ AC24V in 404.0×163.8×132.1mm (15.9"×6.45"×5.2")	Aluminum & PC Heater, cooler IP67/ IP67&IK10/ IP67&IK10&NEMA 4X AC24V, 3A in 404.0×163.8×132.1mm (15.9"×6.45"×5.2")	Aluminum & PC Heater, cooler, POE IP67/ IP67&IK10/ IP67&IK10&NEMA 4X PoE+ in 404.0×163.8×132.1mm (15.9"×6.45"×5.2")	Aluminum & PC Heater, cooler, IR IP67/ IP67&IK10/ IP67&IK10&NEMA 4X AC24V, 5A in 404.0×163.8×132.1mm (15.9"×6.45"×5.2")	Aluminum & PC Heater, cooler, wiper IP66 AC24V, 3A in 404.0×163.8×174.7mm (15.9"×6.45"×6.88")	Aluminum & PC Heater, cooler, wiper, IR IP66 AC24V, 5A in 404.0×163.8×174.7mm (15.9"×6.45"×6.88")

Lens					Power Supply			Pickup		
Model	PLZ1040-D	PLZ1140-D	PLZ20C0-D	PLZ21C0-D	PLZ20C0-L	AC Power			PFM140	PFM141
Appearance										
Description	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: 4MP	Image size: 1/1.7" Aperture: F1.5 Focus length: 3.7-16mm Mount: CS Resolution: 12MP	Image size: 1/1.7" Aperture: F1.5 Focus length: 10.5-42mm Mount: CS Resolution: 12MP	Image size: 1/1.7" Aperture: F0.9 Focus length: 7-34mm Mount: CS Resolution: 12MP	AC24V, 1.5A 106×70×56.5mm (4.17"×2.76"×2.22")	AC24V, 3A 120×80×63.5mm (4.72"×3.15"×2.15")	AC24V, 5A 120×102×80mm (4.72"×4.0"×3.15")	Pinhole Pickup Input DC12V Scope: 5-40m <sup>2</sup> Sensitivity:-40dB 63×30×22mm (2.48"×1.18"×0.87")	Hi-fidelity Pickup Input DC12V Scope: 5-100m <sup>2</sup> Sensitivity:-32dB φ78×26mm (3.1"×3.1"×1.0")

Wireless						Tool	SD Card
Model	PFM880	PFM881	PFM886-10/20	PFM885-I	PFM889-I/IM	PFM900	PFM110/111/112/113
Appearance							
Description	5.8G Wireless AP IEEE802.11 a/n/ac, TDMA Transmission distance: 0-3Km(0-9.8Kft) Horizontal: 90° Vertical: 12°	5.8G Wireless CPE IEEE802.11 a/n, TDMA Transmission distance: 0-5Km(0-16.4Kft) Horizontal: 40° Vertical: 15°	5.8G Wireless Backhaul IEEE802.11 a/n/ac, TDMA Transmission distance: 0-10Km(0-32.8Kft)/ 0-20Km(0-65.6Kft) Horizontal: 11°/6° Vertical: 11°/6°	5.8G Wireless AP for Elevator IEEE802.11 b/g/n, TDMA Transmission distance: 0-500m(0-1640ft) Horizontal: 65° Vertical: 60°	2.4G&5.8G Wireless Ceiling AP IEEE802.11 b/g/n, IEEE802.11 a/n/ac, TDMA Transmission distance: 0-150m(0-492ft) Omnidirectional	Integrated Mount Tester For IPC, HDCVI, Analog camera TDR, record, playback, etc.	Brand: Dahua Property/Speed: Class 10 (reading: 90MB/s, writing: 20MB/s) Storage capacity: 16/32/64/128GB

## Smart PSS

### Smart Professional Surveillance System

Dahua Security Management Platform



Fish-eye image Correction



People Counting



Video Intercom



Access Control System

Supported OS	Windows / Mac OSX
Supported Devices	CCTV/VDP/ACS
Number of Devices	256
Number of Channels	2000
Number of Screens	4
Recording Channels	32
Languages	18
Supported VTO	100
Supported VTH	50000
Supported Access Controllers	200
Supported Doors	1000
Basic Functions	Preview, Record, Playback, Export, Snapshot, Instant Playback
Smart Features	Fisheye Correction, People Counting, Smart Search, E-Map, E-PTZ
Smart Building	Video Intercom, Access Control

## DMSS

### Digital Mobile Surveillance System

Monitor Anything with Your SmartPhone or Tablet Anytime, Anywhere



	Supported Devices	DVR, NVR, IPC, VTO
Devices	Add Device Method	IP/domain, SN, Import from cloud
	Features	Remote config, Alarm config, HDD info, Share device list
	Compression Format	H.265/H.264/MPEG-4/JPEG
Video	Display Resolution	Up to 1920 x 1080
	Max. Channels Can Be Opened at The Same Time	256
Live Preview	Features	Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
	Time Period of Video Playback	72 hours
Playback	Features	Snapshot, Record, Faster/slower play, Play next frame, Cut
	Alarm Type	Motion detect, Camera masking, Local alarm, Disk alarm(no disk, Low space, disk Error), Face detection, Ivs alarm
Alarm Push	Push Type	Video, Preview, Image



## Easy4ip Cloud

- Global server coverage, based on Amazon
- Encryption to secure your personal data
- Push alarm, monitor your home or store in real time
- Easy device upgrade from cloud

## Easy4ip Cloud

The most user-friendly surveillance cloud platform

Make your video surveillance mobile



Devices	Supported Devices	DVR, NVR, IPC
	Add Device Method	SN, Wi-Fi config
	Features	Search, Sort, Favorites, Cloud upgrade, Modify password, Device Share
Video	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 1920 x 1080
Live	Video Display Split	1/4/9/16 split
	Max. Channels Can Be Opened at The Same Time	256
	Features	Snapshot, Record, PTZ, Stream control, Talk, Audio, Alarm, Favorites
Playback	Storage Media	HDD/SD/Cloud
	Time Period of Video Playback	24 hours
	Features	Snapshot, Record, Faster/Slower play, Play next frame
Alarm Push	Alarm Type	Motion detect, Camera masking, Local alarm, Disk alarm(no disk, low space, disk Error) Face detection, Ivs alarm
	Push Type	Video, Live, Image

Easy4ip APP





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...MAKE YOUR LIFE SAFER

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\* Design and specifications are subject to change without notice.

IP Video Product Selection - 03, July 2016

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