

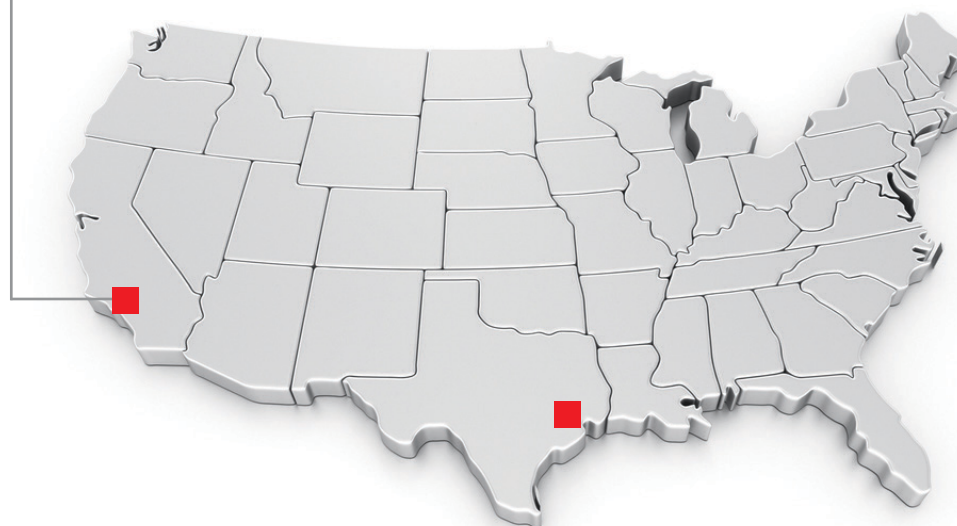
Full Product Catalog

Summer 2019

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Dahua Technology USA brings high-value, total security solutions to the North American market by focusing on leading technology and world class support. We're working hard to make Dahua the first name that comes to mind when you think of innovative video surveillance solutions



Authorized Distributors

To protect our customers' rights and interests, Dahua Technology USA only sells products through authorized distributors and not via e-commerce platforms. Dahua's official website in North America is us.dahuasecurity.com. Any products purchased through unauthorized channels will not be eligible for Dahua's warranty and technical support. To verify whether a distributor is authorized please or if you are interested in becoming an authorized distributor or partner, please email sales.usa@dahuatech.com or call 949-679-7777.

All-Star Partner Program



Dahua is committed to providing our partners with comprehensive resources that will help them gain a competitive advantage and win more business. The three different All-Star tiers provide an array of opportunities and support.

Contact us now to learn more:
dealers.usa@dahuatech.com.



5-Year
Warranty



Project
Registration



Lead
Generation



Partner
Care Program



Technical
Consultant



Advanced
Replacement



Future-Proof
Credit



Online
Training



Partner
Summit

	Up to 44% Off MSRP	Up to 48% off MSRP	Up to 52% off MSRP
On-Board Package	✓	✓	✓
5-Year Warranty	✓	✓	✓
Adv. Replacement thru Distributor	✓	✓	✓
Project Registration	✓	✓	✓
Demo Purchase Program	up to \$5K	up to \$10K	up to \$15K
Co-Marketing	✓	✓	✓
Online Training	✓	✓	✓
Partner Training	✓	✓	✓
Dealer Portal	✓	✓	✓
Partner Certification	—	✓	✓
Tech Support	General Line	General Line	Priority Line
Partner Care Program	—	✓	✓
Lead Generation	—	✓	✓
Star Reward Points COMING SOON!	—	✓	✓
Future-Proof Credit	—	Starting at \$50K	Starting at \$50K
Technical Consultant	—	—	✓
All-Star Partner Summit*	—	—	Eligible

*Subject to change without prior notice.

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Dahua Product Tiers

There's a Dahua product for every solution! Dahua offers three series of products to suit simple through advanced applications. From basic products to the latest in cutting-edge video surveillance technology, Dahua provides feature-rich, reliable cameras, recorders, and accessories at a competitive price. The three tiers of offerings range from good, economical products to competitively priced, feature-rich products.



Dahua's Ultra Series offers network and HDCVI specialty cameras for niche, medium to large applications. Options include, 360° fisheye, multi-sensors, Starlight and long-range PTZ cameras.

Storage devices typically feature 32-, 64-, 128- or 256-channel RAID options with 4K recording.



Dahua's Pro Series offers network and HDCVI cameras for main stream professional, small to medium-size applications. Options include, dual-sensor, Starlight, Night Color and mid-range PTZ cameras.

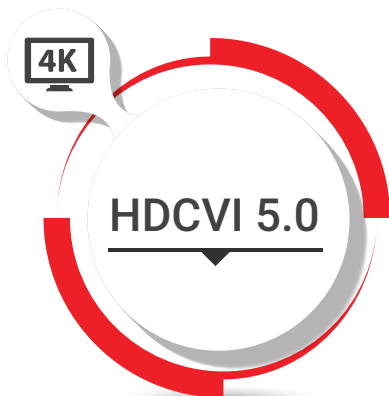
Storage devices typically feature 8-, 16-, 24-, or 32-channel options with 4K recording.



Dahua's Lite Series offers network and HDCVI cameras for small to medium-size applications. This Series is best for users with basic, uncomplicated scenes. Options include, 4MP IP and 2MP HDCVI fixed and vari-focal cameras and short-range PTZ cameras.

Storage devices typically feature 4-, 8-, or 16-channel options.

Dahua leads not only as a manufacturer but as an innovator. Dahua pioneered HDCVI technology, which produces high-definition images over coax cable. HDCVI has been an industry game-changer, resulting in more than 100 global partners. Dahua also engineered the Smart H.265+ codec, an optimized version of H.265. Smart H.265+ improves bandwidth and storage capabilities up to 80% over standard H.264.



HDCVI is an open platform standard developed by Dahua Technology. HDCVI 5.0 extends the life of legacy infrastructure with up to 4K resolution and intelligent features. Penta-brid recorders with M-N technology allows lower cost DVR's to be compatible with 4MP/5MP analog cameras, with overall subjective detail close to the original image.



Dahua's line of Smart H.265+ cameras offer backwards compatibility with H.264 and H.265, allowing greater flexibility to configure different encoding options in a video surveillance system. Pair with a Dahua recorder for a full solution that is cost-effective and doesn't put strain on the network.



Specifying a security camera for low-light environments isn't a one size fits all solution. Each application has its own set of challenges and lighting constraints. Dahua understands this dilemma. With four-levels of low-light technology, it's easy to find the right camera to fit your customer's needs and budget requirements.

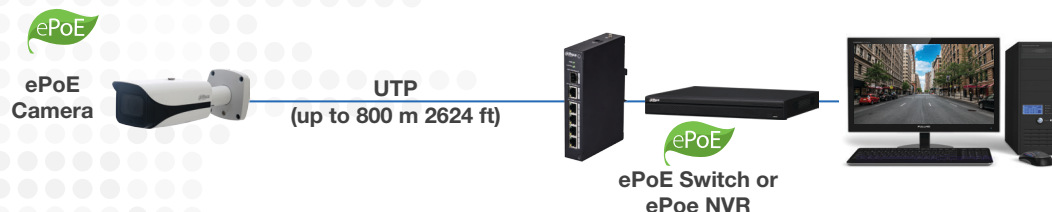


ePoE technology offers a plug-and-play solution to transmit power and data over long distances via Ethernet or coaxial cables. ePoE technology is a viable, cost-effective solution for extending transmission distances and for converting existing, coax-based analog systems into IP systems.

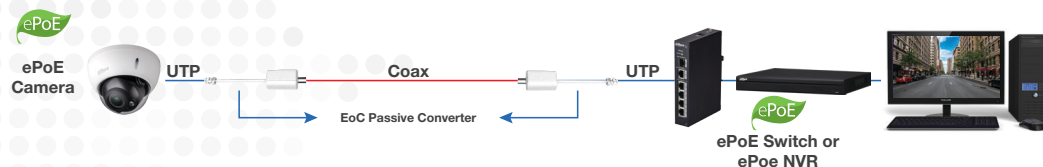
Enhanced Power over Ethernet (ePoE) Technology

Dahua's innovative Enhanced Power over Ethernet (ePoE) technology offers a plug-and-play solution to transmit power and data over long distances via Ethernet or coaxial cables, reducing installation time and saving money. ePoE cameras and NVRs create a versatile system for the following applications:

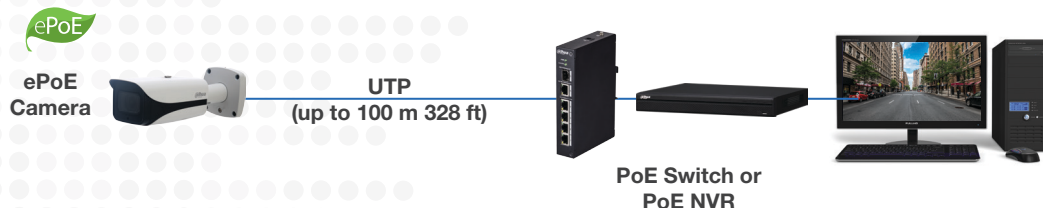
- New applications that require extended CAT5E/CAT6 cable runs of up to 2624 ft (800 m).
- Legacy systems where ePoE Ethernet over Coax technology offers the latest IP technology over an RG59 cable.
- Existing standard ONVIF systems where the limited cable run of traditional PoE is acceptable.



ePoE System: Dahua's ePoE IP system supports a transmission range of up to 800 m (2624 ft) between the ePoE camera and the ePoE network switch or ePoE NVR.



EoC System: Dahua's Ethernet over Coax system easily upgrades a coaxial infrastructure to the latest IP solution by delivering control signals, data and power transmission up to 1000 m (3281 ft) over standard RG59 cable.



PoE System: Dahua's ePoE cameras, NVRs, and switches seamlessly incorporate into a standard ONVIF PoE system offering the latest IP technology with the potential to extend transmission distances.

Eco-Friendly
Less power consumption

Economic
Cost-effective

Extended
Long range transmission

EoC
Easy upgrade to IP

Model	Network Box Cameras				Network Bullet Cameras	
	NK8BA4  UltraSeries	DH-IPC-HF8835FN  4K UltraSeries STARLIGHT	N45BA5  ProSeries PoE	DH-IPC-HF8242FN-FR  UltraSeries STARLIGHT	NK8BB7Z  UltraSeries 4K	N84CB34  ProSeries PoE
Image Sensor	1/1.7" 12MP CMOS	4/3" 4K (8MP) CMOS	1/3" 4MP CMOS	1/1.9" 2MP CMOS	1/1.7" 12MP CMOS	1/2.5" 8MP STARVIS™ CMOS
Lens	Sold Separately	Sold Separately	Sold Separately	Sold Separately	4.1mm - 16.4mm Motorized	4mm/F1.6
Horizontal Field of View	—	—	—	—	85° to 35°	88°
Minimum Illumination	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Starlight+ Color: 0.0005 lux/F0.95 B/W: 0.0003 lux/F0.95	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Starlight+ Color: 0.001 lux/F1.2 B/W: 0.0005 lux/F1.2	Color: 0.02 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	Ultra WDR (140 dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)
Maximum IR Distance	—	—	—	—	164ft (50m)	131ft (40m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	12MP (4000 x 3000)	4K (8MP) (3840 x 2160)	4MP (2688 x 1520)	1080p (1920 x 1080)	12MP (4000 x 3000)	4K (8MP) (3840x2160)
Frame Rate	20fps@12MP	30fps@8MP	30fps@4MP	60fps@1080p	20fps@12MP	15fps@4K 30fps@3MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Facial Recognition - Facial Feature Extraction, Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1, Built-in Microphone	2/1 plus Built-in Microphone	1/1, Built-in Microphone	2/1 plus Built-in Microphone	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	2/2	2/1	2/2	2/1	—
Environmental Protection	—	—	—	—	IP67, IK10	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-30° C to +60° C (-22° F to +140° F)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, AC24V, PoE (802.3af Class 0) Max <8W	DC12V, AC24V, PoE (802.3af Class 0) Max <10.5W	DC12V, AC24V, PoE (802.3af Class 0) Max <5W	DC12V, AC24, or PoE (802.3af Class 0) Max < 10 W	DC12V or PoE+ (802.3af Class 4) Max < 13 W	DC12V or PoE (802.3af Class 0) Max < 6.5W

Network Products

Model	Network Bullet Cameras													
	N85CB5Z  ProSeries		N52BF3Z  ProSeries		N51BD22  ProSeries		NEW N45DL7Z  ProSeries		N45CB5Z  LiteSeries		N28BB7Z  UltraSeries			
Image Sensor	1/2.5" 8MP STARVIS™ CMOS			1/2.7" 5MP CMOS		1/2.7" 5MP CMOS		1/1.8" 4MP CMOS		1/3" 4MP CMOS		1/1.9" 2MP CMOS		
Lens	2.7mm - 12mm, Motorized		7mm - 35mm, Motorized		2.7mm - 13.5mm, Motorized		2.8mm/F1.6		2.7 mm - 12 mm Motorized		2.7mm - 13.5mm Motorized		4.1mm - 16.4mm, Motorized	
Horizontal Field of View	110° to 40°		38° to 14°		95° to 27°		96°		114° to 47°		106° to 31°		80° to 32°	
Minimum Illumination	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)			Basic Starlight Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)		Basic Starlight Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)		Starlight+ Color: 0.0024 lux/F1.8 0 lux/F1.8 (IR on)		Color: 0.03 lux/F1.4 0 lux/F1.4 (IR on)		Starlight+ Color: 0.002 lux/F1.53 0 lux/F1.53 (IR on)		
Day/Night	True Day/Night			True Day/Night		True Day/Night		True Day/Night		True Day/Night		True Day/Night		
Wide Dynamic Range (WDR)	True WDR (120dB)			True WDR (120dB)		True WDR (120dB)		True WDR (120dB)		True WDR (120dB)		True WDR (120dB)		
Maximum IR Distance	164ft (50m)		328ft (100m)		197ft (60m)		98ft (30m)		164ft (50m)		164ft (50m)		164ft (50m)	
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		H.265, H.264		
Maximum Resolution	4K (8MP) (3840x2160)			5MP (2592 x 1944)		5MP (2592 x 1944)		4MP (2688 x 1520)		4MP (2688 x 1520)		1080p (1920 x 1080p)		
Frame Rate	15fps@4K 30fps@3MP			20fps@5MP		20fps@5MP		30fps@4MP		30fps@4MP		60fps@1080p		
Multi-streaming	3 streams			2 streams		2 streams		3 streams		3 streams		3 streams		
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object			Tripwire, Intrusion		Tripwire, Intrusion		Premium IVS, Analytics+ Functions — Face Capture, Metadata Extraction, Perimeter Protection, and People Counting with Loitering		Tripwire, Intrusion, Scene Change, Abandoned/Missing Object		Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map		
Compatibility	ONVIF, PSIA, CGI			ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, 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	2/1			—		—		2/1		2/1		2/1		
Environmental Protection	IP67, IK10			IP67		IP67		IP67, IK10		IP67, IK10		IP67, IK10		
Working Temperature	-22°F to 140°F (-30°C to 60°C)			-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)		-40°F to 140°F (-40°C to 60°C)		-22°F to 140°F (-30°C to 60°C)		-40°F to 140°F (-40°C to 60°C)		
Power	DC12V, PoE (802.3af Class 0) Max < 12.95 W			DC12V, PoE (802.3af Class 0) Max < 12.6 W		DC12V, PoE (802.3af Class 0) Max < 4.85 W		12 VDC or PoE+ (IEEE 802.3at, Class 4) Max <15.2W		DC12V (±25%), PoE (802.3af Class 0) Max <11.5W		DC12V, PoE+ (802.3at Class 4) < 13 W		

Model	 ProSeries STARLIGHT	 ProSeries STARLIGHT ePoE	 ProSeries NIGHT COLOR ePoE	 ProSeries ePoE	 ProSeries ePoE	 ProSeries ePoE	 LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	
Lens	2.7mm - 13.5mm, Motorized	3.6mm/F1.6	3.6mm/F1.0	3.6mm/F1.2	3.6mm/1.6	2.8mm/F2.0	
Horizontal Field of View	97° to 34°	87°	87°	93°	87°	104°	106°
Minimum Illumination	Enhanced Starlight Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)	Basic Starlight Color: 0.007 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.001 lux/ F1.0 Night Color: Scene requires a minimum of 1 lux illumination	Color: 0.00022 lux /F1.2	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.53 lux/F2.0 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	Color (default) Electronic Day/Night		True Day/Night	True Day/Night	
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)		True WDR (120dB)	True WDR (120dB)	DWDR
Maximum IR Distance	164ft (50m)	131ft (40m)	—		131ft (40m)	98ft (30m)	
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (Sub Stream)		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	
Maximum Resolution	1080p (1920 x 1080p)	1080p (1920 x 1080p)	1080p (1920 x 1080p)	4MP (2688 x 1520)	4MP (2560 x 1440)	4 MP (2560 x 1440)	
Frame Rate	60fps@1080p	60fps@1080p	30fps@1080p	30fps@4MP	30fps@4MP	20fps@4MP	
Multi-streaming	3 streams	3 streams	3 streams		3 streams	2 streams	
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object N45E includes: Perimeter Protection, People Counting with Loitering		Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	—	
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S/G, API		ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	
Audio In/Out	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
Alarm In/Out	2/1	—	1/1		—	—	
Environmental Protection	IP67, IK10	IP67	IP67, IK10		IP67	IP67	
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	14°F to 122°F (-10°C to 50°C)
Power	DC12V (±25%), PoE (802.3af Class 0) Max <11.5W	DC12V (±25%), PoE (802.3af Class 0) Max <6W	DC12V, PoE (802.3af Class 0) Max <4W	12 VDC, 2.7 W ±30% or PoE, 3.5 W	DC12V (±25%), PoE (802.3af Class 0) Max <6W	DC12V, PoE (802.3af Class 0) Max <5.5W	2.4 GHz WiFi (IEEE802.11a/b/g/n/ac) DC12V Max <6.5W

Network Products

Model	Network Dome Cameras								
	NK8BL7Z  UltraSeries	N85CL5Z  ProSeries	DH-IPC-HDBW-5831EN-Z5E  ePoE	N84CL52  ProSeries	N84CL54  ePoE	N52BM3Z  ProSeries	N51BL22  ProSeries	NEW N45DL7Z  ProSeries	NEW N45DM62  ProSeries
Image Sensor	1/1.7" 12MP CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS		1/2.5" 4K (8MP) STARVIS™ CMOS		1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	4.1mm - 16.4mm, Motorized	2.7mm - 12mm, Motorized	7mm - 35mm, Motorized	2.8mm/F1.6	4mm/F1.6	2.7mm - 13.5mm, Motorized	2.8mm/F1.6	2.7 mm - 12 mm Motorized	2.8mm/F1.6
Horizontal Field of View	105° to 35°	110° to 40°	38° to 14°	110°	88°	95° to 27°	96°	114° to 47°	113°
Minimum Illumination	Color: 0.02 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)		Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)		Basic Starlight Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)	Basic Starlight Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)	Starlight+ Color: 0.0024 lux/F1.8 0 lux/F1.8 (IR on)	Starlight+ Color: 0.0016 lux at F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night		True Day/Night		True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)		True WDR (120dB)		True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	164ft (50m)	164ft (50m)	328ft (100m)	98ft (30m)		98ft (30m)	98ft (30m)	148ft (45m)	85ft (26m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)
Maximum Resolution	12MP (4000 x 3000)	4K (8MP) (3840x2160)		4K (8MP) (3840 x 2160)		5MP (2592 x 1944)	5MP (2592 x 1944)	4MP (2688 x 1520)	4MP (2688 x 1520)
Frame Rate	20fps@12MP	15fps@4K 30fps@3MP		15fps@4K 30fps@3MP		20fps@5MP	20fps@5MP	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams		3 streams		2 streams	2 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object		Tripwire, Intrusion, Scene Change, Abandoned/Missing Object		Tripwire, Intrusion	Tripwire, Intrusion	Premium IVS, Analytics+ Functions — Face Capture, Metadata Extraction, Perimeter Protection, and People Counting with Loitering	Premium IVS, Analytics+ Functions — Perimeter Protection and People Counting with Loitering
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, CGI	ONVIF, CGI
Audio In/Out	1/1	1/1		1/1		—	—	1/1	1/1
Memory Slot	Micro SD card, Max 128GB	Micro SD, Max 128GB		Micro SD, Max 128GB		—	—	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	1/1		1/1		—	—	1/1	1/1
Environmental Protection	IP67, IK10	IP67, IK10		IP67, IK10		IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, AC24V, PoE+ (802.3at Class 4) < 18 W	DC12V, AC24V, PoE+ (802.3at Class 4) < 15 W		DC12V, PoE (802.3af Class 0) < 5.5 W	DC12V, PoE (802.3af Class 0) < 5 W	DC12V, PoE (802.3af Class 0), < 6.2 W	DC12V, PoE (802.3af Class 0), < 4.2 W	12 VDC, 24 VAC, or PoE+ (IEEE 802.3at, Class 4) Max <18.7W	DC12V, PoE (802.3af Class 0), < 4.2 W

Model	Network Dome Cameras																			
	N45CL5Z  LiteSeries		N45CL5Z-B  ePoE		N44CL52  LiteSeries		N44CL53  ePoE		N44BN52  LiteSeries		N41BL12-W  LiteSeries		N25CL5Z  ProSeries		N24CL52  ProSeries					
Image Sensor	1/3" 4MP CMOS White Housing		1/3" 4MP CMOS Black Housing		1/3" 4MP CMOS		1/3" 4MP CMOS		1/3" 4MP CMOS		1/3" 4MP CMOS		1/2.8" 2MP STARVIS™ CMOS		1/2.8" 2MP STARVIS™ CMOS					
Lens	2.7mm - 13.5mm, Motorized			2.8mm/F1.6 (N44CL52)		3.6mm/F1.6 (N44CL53)		2.8mm/F2.0			2.8mm/F2.0			2.7mm - 13.5mm, Motorized			2.8mm/F1.6			
Horizontal Field of View	106° to 31°			104°		87°		104°			106°			101° to 31°			110°			
Minimum Illumination	Color: 0.03 lux/F1.4 0 lux/F1.4 (IR on)			Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)			Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)			Color: 0.53 lux/F2.0 0 lux/F2.0 (IR on)			Enhanced Starlight Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)			Basic Starlight Color: 0.007 lux/F1.6 0 lux/F1.6 (IR on)				
Day/Night	True Day/Night			True Day/Night			True Day/Night			True Day/Night			True Day/Night			True Day/Night				
Wide Dynamic Range (WDR)	True WDR (120dB)			True WDR (120dB)			True WDR (120dB)			True WDR (120dB)			DWDR			True WDR (120dB)			True WDR (120dB)	
Maximum IR Distance	164ft (50m)			98ft (30m)			65ft (20m)			98ft (30m)			164ft (50m)			98ft (30m)				
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG				
Maximum Resolution	4MP (2688 x 1520)			4MP (2688 x 1520)			4MP (2688 x 1520)			4 MP (2560 x 1440)			1080p (1920 x 1080)			1080p (1920 x 1080)				
Frame Rate	30fps@4MP			30fps@4MP			30fps@4MP			20fps@4MP			60fps@1080p			60fps@1080p				
Multi-streaming	3 streams			3 streams			3 streams			3 streams			2 streams			3 streams			3 streams	
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Objec			Tripwire, Intrusion, Scene Change, Abandoned/Missing Object			Tripwire, Intrusion, Scene Change, Abandoned/Missing Object			—			Tripwire, Intrusion, Scene Change, Abandoned/Missing Object			Tripwire, Intrusion, Scene Change, Abandoned/Missing Object				
Compatibility	ONVIF, PSIA, CGI			ONVIF, PSIA, CGI			ONVIF, PSIA, CGI			ONVIF, PSIA, CGI			ONVIF, PSIA, CGI			ONVIF, PSIA, CGI			ONVIF, PSIA, CGI	
Audio In/Out	1/1			1/1			1/1, Built-in Microphone			—			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				
Environmental Protection	IP67, IK10			IP67, IK10			IP67, IK10			IP67			IP67, IK10			IP67, IK10				
Working Temperature	-22°F to 140°F (-30°C to 60°C)			-22°F to 140°F (-30°C to 60°C)			-22°F to 140°F (-30°C to 60°C)			-22°F to 140°F (-30°C to 60°C)			14°F to 122°F (-10°C to 50°C)			-22°F to 140°F (-30°C to 60°C)			-22°F to 140°F (-30°C to 60°C)	
Power	DC12V, AC24V, PoE (802.3af Class 0) Max <12.5W			DC12V (±25%), PoE (802.3af Class 0) Max <7.5W			DC12V (±25%), PoE (802.3af Class 0) Max <4.5W			2.4 GHz WiFi (IEEE802.11a/b/g/n/ac) , DC12V Max <6.5W			DC12V, AC24V, PoE (802.3af Class 0) Max <12.5W			DC12V (±25%), PoE (802.3af Class 0) <5W				

Network Products

Model	Network Dome Cameras				Network Eyeball Cameras			
	DH-IPC-HDB-W4239RN-ASE  ProSeries NIGHT COLOR ePoE	N45EM63  ProSeries STARLIGHT	N24BN52  ProSeries STARLIGHT	N28BL7Z  UltraSeries STARLIGHT	N85CM5Z  ProSeries 4K ePoE	N84CG52  ProSeries 4K ePoE	N84CG54  ProSeries 4K ePoE	N51BI22  ProSeries STARLIGHT
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/1.9" 2MP STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS		1/2.7" 5MP CMOS
Lens	3.6mm/F1.0	3.6mm/F1.2	2.8mm/ F2.0	4.1mm - 16.4mm, Motorized	2.7mm - 12mm, Motorized	2.8mm/F1.6	4mm/F1.6	2.8mm/F1.6
Horizontal Field of View	87°	93°	110°	92° to 32°	110° to 40°	112°	88°	96°
Minimum Illumination	Color: 0.001 lux/ F1.0 Night Color: Scene requires a minimum of 1 lux illumination	Color: 0.00022 lux /F1.2	Basic Starlight Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Starlight+ Color: 0.002 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)		Basic Starlight Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	Color (default) Electronic Day/Night		True Day/Night	True Day/Night	True Day/Night	True Day/Night		True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)		True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)		True WDR (120dB)
Maximum IR Distance	—		65ft (20m)	164ft (50m)	164ft (50m)	164ft (50m)		98ft (30m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	1080p (1920 x 1080)	4MP (2688 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)	4K (8MP) (3840 x 2160)	4K (8MP) (3840 x 2160)		5MP (2592 x 1944)
Frame Rate	30fps@1080p	30fps@4MP	60fps@1080p	60fps@1080p	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP		20fps@5MP
Multi-streaming	3 streams		3 streams	3 streams	3 streams	3 streams		2 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, N45E includes: Perimeter Protection, People Counting with Loitering		Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection*, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object		Tripwire, Intrusion
Compatibility	ONVIF Profile S/G, API		ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI		ONVIF, PSIA, CGI
Audio In/Out	1/1		1/1, Built-in Microphone	1/1	1/1, Built-in Microphone	Built-in Microphone		—
Memory Slot	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	2/1	1/1	—		—
Environmental Protection	IP67, IK10		IP67, IK10	IP67, IK10	IP67	IP67		IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)
Power	DC12V, PoE (802.3af Class 0) Max <4W	12 VDC, 2.7 W ±30% or PoE, 3.5 W	DC12V (±25%), PoE (802.3af Class 0) <4.5W	DC12V, AC24V, PoE+ (802.3af Class 4) <18W	DC12V, PoE (802.3af Class 0) < 8.5 W	DC12V, PoE (802.3af Class 0) < 6 W		DC12V, PoE (802.3af Class 0), < 4 W

	Network Eyeball Cameras			Network Fisheye Cameras			
	N41BK22  LiteSeries	N44CG52 / N44CG53  LiteSeries ePoE	N24CG52  LiteSeries STARLIGHT ePoE	NK8BR4  UltraSeries	N68BR4V  UltraSeries	N55BS5  ProSeries	 NEW N55BT5 ProSeries
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.7" 12MP CMOS	1/1.8" 6MP CMOS	1/2.5" 5MP CMOS	1/2.7-in. 5MP STARVIS™ CMOS
Lens	2.8mm/F2.0	2.8mm/F1.6 (N44CG52 white, N44CG52-B black)	3.6mm/ F1.6 (N44CG53 white)	2.8mm/ F1.6	1.98mm/F2.8	1.3mm/F2.8	1.4mm/F2.0
Horizontal Field of View	104°	104° 83°	110°	360° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures	360° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures, ImmerVision Enables guarantees compatibility with any VMS. Provides 360° immersive navigation within live or recorded 360° videos	180° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures	180° / Original, Panoramic, Double Panoramic,
Minimum Illumination	Color: 0.08 lux/F2.0 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Basic Starlight Color: 0.007 lux/F1.6 0 lux/F1.6 (IR on)	0.001 lux/F2.8 0 lux/F2.8 (IR on)	Color: 0.002 lux/F2.8 0 lux/F2.8 (IR on)	Color: 0.02 lux/F1.6 B/W: 0.05 lux/F1.6	Color: 0.006 lux at F2.0 Color: 0.02 lux at F2.0 0 lux at F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	Electronic Day Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	98ft (30m)	164ft (50m)	164ft (50m)	33ft (10m)	33ft (10m)	—	33ft (10m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)
Maximum Resolution	4MP (2688 x 1520)	4MP (2688 x 1520)	1080p (1920 x 1080)	12MP (4000 x 3000)	6MP (3072 x 2048)	5MP (2560 x 1920)	5MP (2592 x 1944)
Frame Rate	20fps@4MP	30fps@4MP	60fps@1080p	25fps@12MP 30fps@8MP	30fps@6MP	25fps@5MP	25fps@5MP
Multi-streaming	2 streams	3 streams	3 streams	3 streams	3 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, Heat Map
Compatibility	ONVIF S & G, API	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	—	Built-in Microphone	Built-in Microphone	1/1	1/1	Built-in Microphone	Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128 GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	—	—	—	2/2	2/2	—	1/1
Environmental Protection	IP67	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK08	—
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	14°F to 122°F (-10°C to 50°C)
Power	DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W	DC12V (±25%), PoE (802.3af Class 0) <5W	DC12V (±25%), PoE (802.3af Class 0) <5W	DC12V, PoE (802.3af Class 0) <12W	DC12V, PoE (802.3af Class 0) <12W	DC12V, 1A, PoE (802.3af Class 0) < 3.4 W	DC12V, PoE (802.3af Class 0) 12 VDC: 8.2 W with IR On PoE: 10.1 W with IR On

Network Products

	Network Multi-sensor Cameras					
	DH-PSD81602N-A360  UltraSeries STARLIGHT	DH-IPC-PFW8800N-A180  UltraSeries STARLIGHT	DH-IPC-PFW8601N-H-A180  UltraSeries STARLIGHT	DH-IPC-PDBW8800N-A180  UltraSeries STARLIGHT	NEW DH-IPC-PDBW5831N-B360  UltraSeries STARLIGHT	DH-IPC-HDBW4231FN-E2-Mxxx  ProSeries STARLIGHT
Image Sensor	Panoramic: 1/1.9" 2MP CMOS per Sensor (8 sensors total) PTZ: 1/1.9" 2MP CMOS	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/2.8" 2MP CMOS per Sensor (3 sensors total)	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/2.8" 2MP STARVIS™ CMOS per sensor (4 independent sensors)	1/2.8" 2MP STARVIS™ CMOS per sensor (2 independent sensors)
Lens	Panoramic: 5mm/F2.2, Manual PTZ: 5.5mm - 206mm/F1.5, Motorized	3.0mm/F2.0	3.6mm/F1.8	3.0mm/F2.0	2.7mm - 12mm/F1.8 Motorized	2.8mm/ FJ45 2.8mm/ M12 3.6mm/ M12
Horizontal Field of View	Panoramic: 360° PTZ: 65.8° to 2.0°	180°	180°	180°	105° to 44°	110°
Minimum Illumination	Starlight+ Panoramic: 0.002 lux/F2.2 (Color) PTZ: 0.002 lux/F1.5 (Color)	Enhanced Starlight Color: 0.007 lux/F2.0 (1/3 s, 30 IRE) Color: 0.05 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.007 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.007 lux/F2.0 (1/3 s, 30 IRE) Color: 0.05 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.005 lux at F1.8 (1/3 s, 30 IRE) Color: 0.06 lux at F1.8 (1/30 s, 30 IRE) 0 lux at F1.8 (IR on)	Basic Starlight Color: 0.009 lux/F2.0 (1/3 s, 30 IRE) Color: 0.07 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	DWDR	True WDR (120dB)	DWDR	Ultra WDR (140dB, Channel 1) DWDR remaining channels	True WDR (120dB)
Maximum IR Distance	—	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m) 2 LEDs per sensor	66ft (20m) per sensor
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H MJPEG (sub stream)	H.265, H.264H MJPEG (sub stream)
Maximum Resolution	Panoramic: 2 x 4096 x 1800 PTZ: 1080p (1920 x 1080)	2MP per Sensor (4 sensors total)	2MP per Sensor (3 sensors total)	2MP per Sensor (4 sensors total)	2MP per sensor (4 sensors total)	2MP per sensor
Frame Rate	Panoramic: 30fps@2 x 4096 x 1800 PTZ: 30fps@1080p	25fps@4096 x 1800 total output	30fps@4096 x 832 total output	25fps@4096 x 1800 total output	25fps@1080p per sensor	30fps@1080p per sensor
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams per sensor	2 streams per sensor
Pan/Tilt/Zoom	Pan: 0° to 360°, endless Tilt: -20° to 90° Auto flip: 180°	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°	Pan: 0° to 355° Tilt: 0° to 75° Rotation: ± 20°	Pan: 0° to 360° Tilt: 0° to 80° Rotation: 0° to 355°	Pan: ±90° Tilt: 0° to 65° Rotation: 0° to 360°
Preset Speed	Pan: 0.1°/s to 240°/s Tilt: 0.1°/s to 120°/s	—	—	—	—	—
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map, E-PTZ	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S/G, PSIA, CGI	ONVIF Profile S/G, PSIA, CGI	ONVIF, CGI	ONVIF Profile S/G, PSIA, CGI
Audio In/Out	2/1	1/1	1/1	1/1	1/1	Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 128GB
Alarm In/Out	7/2	2/2	1/1	2/2	1/1	—
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10, EN50155 Vibration
Working Temperature	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC36V < 120W	AC24V, PoE+ (802.3at Class 4) Max 25.5W	AC24V, PoE+ (802.3at Class 4) Max 24W	AC24V, PoE+ (802.3at Class 4) < 25.5W	24 VAC, PoE+ (802.3at Class 4) 24 VAC: 9.9 W, 31.2 W with IR on PoE: 10.6 W, 23.8 W with IR on	DC12V, PoE (802.3af Class 0) < 6.5W

Model	Network PTZ Cameras					
	DH-IPC-HDW8341XN-3D  UltraSeries	6AE530UNI  UltraSeries	6AE240VNI  UltraSeries STARLIGHT	DH-PTZ19240VN-IRB-N  UltraSeries STARLIGHT	6AL245UNI  UltraSeries STARLIGHT	6CE230UNI  ProSeries STARLIGHT
Image Sensor	Two (2) 1/2.8-in. 3 MP CMOS Sensors	1/1.9" 5MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.8 mm/F1.8, each lens	6mm - 180mm (30x Optical Zoom)	4.5mm - 180mm (40x Optical Zoom)	4.5mm - 180mm (40x Optical Zoom)	3.95mm - 177.7mm (45x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)
Horizontal Field of View	137°	61.2° to 2.1°	67.5° to 1.7°	67.5° to 1.7°	70.3° to 1.8°	67.8° to 2.4°
Minimum Illumination	Color: 0.009 lux at F1.8 0 lux at F1.8 (IR on)	Color: 0.01 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.2 0 lux/F1.2 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.2 0 lux/F1.2 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	DWDR	Ultra WDR (140dB)	Ultra WDR (140dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	33ft (10m)	656ft (200m)	656ft (200m)	984ft (300m)	1804ft (550m)	656ft (200m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	3MP (2048 x 1536)	5MP (2560 x 1920)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	25fps@3MP	30fps@5MP 60fps@1080p	60fps@1080p	60fps@1080p	60fps@1080p	60fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	—	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: 0° – 360° endless, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°
Preset Speed	—	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 120° /s; Tilt: 60° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s
Intelligent Video	Analytics+: People Counting via Line Crossing/Regional, Loitering, Heat Map, Premium: Motion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking
Compatibility	ONVIF Profile S/G, API	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	2/1, Built-in Microphone	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	2/2	7/2	7/2	7/2	7/2	7/2
Environmental Protection	IP67	IP67, IK10	IP67, IK10	IP68	IP67	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	AC24V: -58°F to +158°F (-50°C to 70°C) Hi-PoE: -40°F to +158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)
Power	12 VDC, 1 A or PoE (802.3af, Class 0), <12W	AC24V, 3A (±25%), Hi-PoE 24W, 38W with IR on	AC24V, 3A (±25%), Hi-PoE 24W, 38W with IR on	AC24V, 5A (±25%), Hi-PoE 35W, 60W with IR and Heater on	AC24V, 3A (±25%), Hi-PoE Max 24W, 38W with IR on	AC24V, 3A (±25%), PoE+ (802.3at Class 4) 17W, 26W with IR and heater on

Network Products

Model	Network PTZ Cameras					
	6C430UNI  ProSeries	59430UNI  ProSeries	59230UNI  ProSeries STARLIGHT	49225TNI  ProSeries STARLIGHT	DH-SD40A212TN-HNI  ProSeries	40212TNI  LiteSeries STARLIGHT
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1.28" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.8mm - 120mm (25x Optical Zoom)	5.1mm - 61.2mm (12x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)
Horizontal Field of View	60° to 2.2°	60° to 2.2°	67.8° to 2.4°	59.2° to 2.4°	59.3° to 5.2°	58.2° to 4.8°
Minimum Illumination	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	328ft (100m)	328ft (100m)	492ft (150m)	328ft (100m)	—	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.264+, H.264	H.265, H.264
Maximum Resolution	4MP (2592 x 1520)	4MP (2592 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@4MP, 3MP 60fps@1080p, 1.3MP, 720p	30fps@4MP, 3MP 60fps@1080p, 1.3MP, 720p	60fps@1080p 60fps@720p	30fps@1080p 30fps@720p	30fps@1080p 60fps@720p	30fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° - 360° endless; Tilt: -15° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -15° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -15° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -15° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -2° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -2° - 90°, Auto Flip 180°
Preset Speed	Pan: 240° /s; Tilt: 200° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s
Intelligent Video	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Heat Map, Face Detection**, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned/Missing, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, 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	2/1	2/1
Environmental Protection	IP66	IP66	IP66	IP66	IP66, IK10	IP66, IK10
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	AC24V, 3A (±10%) 10.5W, 26W with IR on	AC24V, PoE+ (802.3at Class 4) 13W, 23W with IR on	AC24V, PoE+ (802.3at Class 4) 13W, 23W with IR on	DC12V, PoE+ (802.3at Class 4) 13W, 20W with IR on	AC24V, PoE+ (802.3at Class 4) 12W, 22W with heater on	AC24V, 1.5A, PoE+ (802.3at Class 4) 12W, 22W with heater on

Model					
	50430UNI  ProSeries	50230UNI-A  ProSeries STARLIGHT	42212TNI  LiteSeries STARLIGHT	22204TNI  LiteSeries STARLIGHT	12203TNI  LiteSeries STARLIGHT
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)	2.7mm - 8.1mm (3x Optical Zoom)
Horizontal Field of View	60° to 2.2°	67.8° to 2.4°	58.2° to 4.8°	112.5° to 30°	105.6° to 35.2°
Minimum Illumination	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.8 B/W: 0.0005 lux/F1.8
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	—	—	—	—	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	4MP (2592 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@4MP, 3MP 60fps@1080p, 1.3MP, 720p	60fps@1080p 60fps@720p	30fps@1080p	30fps@1080p	30fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 360° endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Endless, Tilt: -2° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°	300 Presets, Pan: 0° – 355° Tilt: 5° – 90°
Preset Speed	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100° /s; Tilt: 60° /s	Pan: 80° /s; Tilt: 40° /s
Intelligent Video	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	—	1/1 plus a Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB
Alarm In/Out	2/1	2/1	2/1	—	—
Environmental Protection	IP67, IK10	IP67, IK10	IP66, IK10	IP66, IK10	IP66, IK08
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V, PoE+ (802.3at Class 4) 13W, 23W with heater on	AC24V (±10%), PoE+ (802.3at Class 4) 13W, 23W with heater on	AC24V, 1.5A, PoE+ (802.3at Class 4) 12W	DC12V, 1.5A, PoE (802.3af Class 0)	DC12V, 1.5A, PoE (802.3af Class 0) 6W

Network Products

Model	Network PTZ Cameras				
	1A203TNI  LiteSeries STARLIGHT	52C430UNI  ProSeries	52C230UNI-A  ProSeries STARLIGHT	42C212TNI  LiteSeries STARLIGHT	DH-SD22A204TN-GNI-W  LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS
Lens	2.7mm - 8.1mm (3x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)
Horizontal Field of View	105.6° to 35.2°	60° to 2.2°	67.8° to 2.4°	58.2° to 4.8°	112.5° to 30°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux/F1.8 (IR on)	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	49ft (15m)	—	—	—	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	Smart H.264+, H.264
Maximum Resolution	1080p (1920 x 1080)	4MP (2592 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@1080p	30fps@4MP 60fps@1080p	60fps@1080p 60fps@720p	30fps@1080p	30fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 355° Tilt: 5° – 90°	300 Presets, Pan: 0° – 360° Endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Endless, Tilt: -2° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°
Preset Speed	Pan: 80° /s; Tilt: 40° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 120° /s	Pan: 100° /s; Tilt: 60° /s
Intelligent Video	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1 plus a Built-in Microphone	1/1	1/1	1/1	—
Memory Slot	Micro SD, Max 256GB	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	—
Environmental Protection	IP66, IK08	IK10	IK10	IK10	IP66, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, 1.5A, PoE (802.3af Class 0) 7.8W, 10.5W with IR on	AC24V, 1.5A (±10%), PoE+ (802.3at Class 4) 13W	AC24V, 1.5A (±10%), PoE+ (802.3at Class 4) 13W	AC24V, 1.5A, PoE+ (802.3at Class 4) 12W	DC12V, 1.5A 10W

Model	Security System Kits									
	N444E42	N484E62	N5164E124	N448D42		N488D63		N5168D124		
										
Cameras	4 x N41BK22 4MP Cameras	6 x N41BK22 4MP Cameras	12 x N41BK22 4MP Cameras	3 x N41BK22 4MP Cameras	1 x N84CL52 4K Camera	4 x N41BK22 4MP Cameras	2 x N84CL52 4K Cameras	8 x N41BK22 4MP Cameras	4 x N84CL52 4K Cameras	
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.5" 8MP CMOS	1/3" 4MP CMOS	1/2.5" 8MP CMOS	1/3" 4MP CMOS	1/2.5" 8MP CMOS	
Minimum Illumination	Color: 0.08 lux at F2.0 0 lux (IR on)	Color: 0.08 lux at F2.0 0 lux (IR on)	Color: 0.08 lux at F2.0 0 lux (IR on)	Color: 0.08 lux at F2.0 0 lux (IR on)	Color: 0.06 lux at F1.6 0 lux (IR on)	Color: 0.08 lux at F2.0 0 lux (IR on)	Color: 0.06 lux at F1.6 0 lux (IR on)	Color: 0.08 lux at F2.0 0 lux (IR on)	Color: 0.06 lux at F1.6 0 lux (IR on)	
Lens	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F1.6	2.8mm/F2.0	2.8mm/F1.6	2.8mm/F2.0	2.8mm/F1.6	
Horizontal Field of View	104°	104°	104°	104°	112°	104°	112°	104°	112°	
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night		True Day/Night		True Day/Night		
Maximum IR Distance	98 ft (30 m)	98 ft (30 m)	98 ft (30 m)	98 ft (30 m)		98 ft (30 m)		98 ft (30 m)		
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)		True WDR (120dB)		True WDR (120dB)		
Frame Rate	20fps@4MP	20fps@4MP	20fps@4MP	20fps@4MP	15fps@8MP	20fps@4MP	15fps@8MP	20fps@4MP	15fps@8MP	
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)		
Environmental	IP67	IP67	IP67	IP67	IP67, IK10	IP67	IP67, IK10	IP67	IP67, IK10	
Power	DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W	DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W	DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W	DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W		DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W		DC12V, 0.5 A or PoE (802.3af Class 0), < 5.5 W		
Network Video Recorder	N41B1P2	N41B2P2	N52B3P4	N41B2P2		N41B2P3		N52B3P4		
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		
IP Video Inputs	4CH up to 8MP	8CH up to 8MP	16CH up to 12MP	4CH up to 8MP		8CH up to 8MP		16CH up to 12MP		
Max Input/Record	80Mbps / 80Mbps	80Mbps / 80Mbps	320Mbps / 320Mbps	80Mbps / 80Mbps		80Mbps / 80Mbps		320Mbps / 320Mbps		
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA		1 HDMI, 1 VGA		1 HDMI, 1 VGA		
Max HDD	2 HDD Up to 12TB ships with a pre-installed 2TB HDD	1 HDD Up to 6TB ships with a pre-installed 2TB HDD	2 HDD Up to 20TB ships with a pre-installed 4TB HDD	1 HDD Up to 6TB ships with a pre-installed 2TB HD		1 HDD Up to 6TB ships with a pre-installed 3TB HDD		2 HDD Up to 20TB ships with a pre-installed 4TB HDD		
Ethernet	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100/1000 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port		One (1) RJ45 (10/100 Mbps) Port		One (1) RJ45 (10/100/1000 Mbps) Port		
PoE	Four (4) Ports (IEEE 802.3af/at)	Eight (8) Ports (IEEE 802.3af/at)	16 Ports (IEEE 802.3af/at)	Four (4) Ports (IEEE 802.3af/at)		Eight (8) Ports (IEEE 802.3af/at)		16 Ports (IEEE 802.3af/at)		
Power	48 VDC, 1.5 A	48 VDC, 1.5 A	100 VAC to 240 VAC, 50/60 Hz	48 VDC, 1.5 A		48 VDC, 1.5 A		100 VAC to 240 VAC, 50/60 Hz		

Network Products

Model	4K Network Video Recorders					
	DHI-IVSS7016DR-4T  UltraSeries	DHI-IVSS7008-1T  UltraSeries	DHI-NVR6A08-128-4KS2  UltraSeries	DHI-NVR6A08-64-4KS2  UltraSeries	DHI-NVR6A08-32-4KS2  UltraSeries	N52B5P  ProSeries 
Video Compression	H.265, H.264, MJPEG, MPEG4	H.265, H.264, MJPEG, MPEG4	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264
IP Video Inputs	256 CH Up to 32MP	128 CH Up to 12MP	128 CH Up to 12MP	64 CH Up to 12MP	32 CH Up to 12MP	32CH Up to 12MP
Max Input/Record	512Mbps / 450Mbps	400Mbps / 320Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	320Mbps / 320Mbps
Display	3 HDMI, 1 VGA	3 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	16 SATA Ports, up to 10TB each disk 160TB max	8 SATA Ports, up to 10TB each disk 80TB max	8 SATA Ports, up to 8TB each disk 64TB max	8 SATA Ports, up to 8TB each disk 64TB max	8 SATA Ports, up to 8TB each disk 64TB max	2 SATA Ports, up to 10TB each disk 20TB max
RAID	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10	—
eSATA/Mini SAS	1/2	1/-	1/-	1/-	1/-	—
Audio In/Out	1/1	1/2	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1
Alarm In/Out	16/8	16/8	16/8	16/8	16/8	4/2
Ethernet	4 Gigabit Ports	4 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port
PoE	—	—	—	—	—	16 Ports (IEEE802.3af/at), 130W total Ports 1 to 8 for ePoE and EoC
USB	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0	2 USB3.0, 2 USB2.0	2 USB 3.0, 2 USB 2.0	1 USB 3.0, 1 USB 2.0
Power	AC100V-240V < 120W (without HDD)	AC100V-240V < 120W (without HDD)	AC100V-240V < 20W (without HDD)	AC100V-240V < 20W (without HDD)	AC100V-240V < 20W (without HDD)	AC 100V-240V <15.2W (without HDD)
Key Features	IVSS (AI) Real-time Face Recognition up to 16CH (Metadata for gender, age, expression, glasses, mustache and mask; stranger mode; trigger events; search by image; database management and application), Integrated GPU, Redundant Power, Hot-Swappable HDDs	IVSS (AI) Real-time Face Recognition up to 4CH (Metadata for gender, age, expression, glasses, mustache and mask; stranger mode; trigger events; search by image; database management and application), Integrated GPU	4K NVR, IVS, Face Detection", People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, N+M	4K NVR, IVS, Face Detection", People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, N+M	4K NVR, IVS, Face Detection", People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, N+M	4K ePoE/EoC NVR, IVS, Face Recognition, Face Detection", People Counting, Heat Map, Fisheye Dewarp, ALPC, ANR, Plug and Play

Model	4K Network Video Recorders					
	N54A4P	N52A4P	N52B3P	N54B3P	N52B2P	DHI-NVR52A08-8P-4KS2
	 ProSeries	 ProSeries	 ProSeries	 ProSeries	 ProSeries	 ProSeries
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4
IP Video Inputs	24CH Up to 12MP	24CH Up to 12MP	16CH Up to 12MP	16CH Up to 12MP	8CH Up to 12MP	8CH Up to 12MP
Max Input/Record	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps
Display	2 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 2 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	4 SATA Ports, up to 10TB each disk 40TB max	2 SATA Ports, up to 10TB each disk 20TB max	2 SATA Ports, up to 10TB each disk 20TB max	4 SATA Ports, up to 10TB each disk 40TB max	2 SATA Ports, up to 10TB each disk 20TB max	2 SATA Ports, up to 10TB each disk 20TB max
RAID	—	—	—	—	—	—
eSATA/Mini SAS	1/-	—	—	1/-	—	—
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/2, 2-way	1/1	1/1, 2-way
Alarm In/Out	16/6	4/2	4/2	16/6	4/2	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	24 Ports (IEEE802.3at) 220 W total	24 Ports (IEEE802.3at) 220 W total	16 Ports (IEEE802.3af/at), 150W total Ports 1 to 8 for ePoE and EoC	16 Ports (IEEE802.3af/at), 130W total Ports 1 to 8 for ePoE and EoC	8 Ports (IEEE802.3af/at) 130 W total, Ports 1 to 8 for ePoE and EoC	8 Ports (IEEE802.3at) 130 W total
USB	2 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0
Power	AC100V-240V, 50/60 Hz <18W (without HDD)	AC100V-240V, 50/60 Hz <16W (without HDD)	AC100V - AC240V, 50/60 Hz <15.2W (without HDD)	AC100V - AC240V, 50/60 Hz <17.5W (without HDD)	AC100V-240V, 50/60 Hz <15.2W (without HDD)	AC100V-240V < 14.5 W (without HDD)
Key Features	4K PoE NVR, IVS, Face Detection™, People Counting, Heat Map, Fisheye Dewarp, Smart Track, ANR, N+M, Plug and Play	4K PoE NVR, IVS, Face Detection™, People Counting, Heat Map, Fisheye Dewarp, Smart Track, ANR, N+M, Plug and Play	4K ePoE/EoC NVR, IVS, Face Detection™, People Counting, Heat Map, Fisheye Dewarp, POS, ALPC, Plug and Play	4K ePoE/EoC NVR, IVS, Face Detection™, People Counting, Heat Map, Fisheye Dewarp, POS, ALPC, ANR, Plug and Play	4K ePoE/EoC NVR, IVS, Face Detection™, People Counting, Heat Map, Fisheye Dewarp, POS, ALPC, Plug and Play	4K NVR, IVS, Face Detection™, People Counting, Heat Map, Fisheye Dewarp, POS, ANR, N+M, Plug and Play

Network Products

Model	4K Network Video Recorders			4K WiFi Video Recorders
	N42B3P  <i>LiteSeries</i>	N42B2P  <i>LiteSeries</i>	N42B1P  <i>LiteSeries</i>	N41B1W  <i>LiteSeries</i>
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264
IP Video Inputs	16CH Up to 8MP	8CH Up to 8MP	4CH Up to 8MP	4CH Up to 8MP
Max Input/Record	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	80Mbps / 80Mbps wired; 24Mbps wireless
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	2 SATA Ports, up to 8TB each disk 16TB max	2 SATA Ports, up to 8TB each disk 16TB max	2 SATA Ports, up to 8TB each disk 16TB max	1 SATA Port, up to 4TB max
RAID	—	—	—	—
eSATA/Mini SAS	—	—	—	—
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	—
Alarm In/Out	4/2	4/2	4/2	—
Ethernet	1Gigabit Port	1 Gigabit Port	1 Gigabit Port	1x100Mbps Port, Supports two-antennas for a strengthened WiFi signal
PoE	16 Ports (IEEE802.3af/at) 130 W total	8 Ports (IEEE802.3af/at) 130 W total	4 Ports (IEEE802.3af/at) 50 W total	—
USB	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 2.0
Power	AC 100V-240V <13.2W (without HDD)	AC 100V-240V <9.6W (without HDD)	DC48V, 2A <9.0W (without HDD)	DC12V, 2A 6.6W (without HDD)
Key Features	4K NVR, IVS, Face Detection*, People Counting, Heat Map, Smart add, ANR, Plug and Play	4K NVR, IVS, Face Detection*, People Counting, Heat Map, Smart add, ANR, Plug and Play	4K NVR, IVS, Face Detection*, People Counting, Heat Map, Smart add, ANR, Plug and Play	4K WiFi AP NVR 2.4 GHz (IEEE802.11b/g/n), WiFi Protected Setup, Plug and Play, P2P

Model	HDCVI Box Cameras	HDCVI Bullet Cameras				
	A83AA9  UltraSeries 4K STARLIGHT	A83ABBZ  UltraSeries 4K STARLIGHT	A82AF5V  ProSeries 4K STARLIGHT	A82AF53  ProSeries 4K STARLIGHT	A52AF6Z  ProSeries STARLIGHT	A52AB62  ProSeries STARLIGHT
Image Sensor	4/3" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS
Minimum Illumination	Starlight+ Color: 0.001 lux/F1.2 (1/3s, 30IRE) Color: 0.0005 lux/F0.95 (1/3s, 30IRE)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Lens	Sold Separately	3.7mm – 11mm, Motorized, Auto Iris	3.7mm – 11mm, Motorized	3.6mm	2.7mm - 13.5mm, Motorized	2.8mm
Horizontal Field of View	—	112° to 46°	112° to 46°	87°	102° to 29°	98°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	—	328ft (100m)	262ft (80m)	262ft (80m)	262ft (80m)	131ft (40m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	Ultra WDR (140dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	15fps@4K (8MP)	15fps@4K (8MP)	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP
Video Output	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable
Audio In/Out	Built-in Microphone	1/-	1/- plus a Built-in Microphone	1/- plus a Built-in Microphone	1/- plus a Built-in Microphone (Camera accepts audio from only one input source.)	1/- plus a Built-in Microphone (Camera accepts audio from only one input source.)
Alarm In/Out	—	2/1	—	—	—	—
Pan/Tilt/Rotation	—	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°
Environmental Protection	—	IP67, IK10	IP67	IP67	IP67	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V (±25%), DC12V (±25%) Max 9W	AC24V (±25%), DC12V (±25%) Max 7W	AC24V (±30%), DC12V (±30%) Max 15W (12 VDC, IR on)	DC12V (±30%) Max 11.3W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 17.2W (12 VDC, IR on)	DC12V (±30%) Max 7W (12 VDC, IR on)

HDCVI Products

Model	HDCVI Bullet Cameras					HDCVI Dome Cameras
	NEW  LiteSeries STARLIGHT	 UltraSeries STARLIGHT	NEW  LiteSeries STARLIGHT	 LiteSeries	 LiteSeries	 UltraSeries
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.9" 2MP CMOS		1/1.8" 4K (8MP) CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.4 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)	Color: 0.01 lux/F2.0 0 lux (IR on)		Enhanced Starlight Color: 0.005 lux at F1.5 0 lux with IR on
Lens	2.7mm - 12mm, Motorized	2.7mm - 12mm, Motorized, Auto Iris	2.8mm	2.8mm (A21BB02)	3.6mm (A21BB03)	3.7mm - 11mm, Motorized
Horizontal Field of View	101.7° to 32.3°	95° to 36°	106°	106°	82.8°	46° to 112°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night		Electronic Day/Night
Maximum IR Distance	197ft (60m)	328ft (100m)	98ft (30m)	131ft (40m)		164ft (50m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language		Multi-language
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	DWDR	DWDR		True WDR (120dB)
Noise Reduction	2D	2D/3D	2D	2D		2D/3D
Frame Rate	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p		3840 x 2160@15 fps 1280 x 720@30 fps
Video Output	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology Requires PFM820 to switch between formats	HD Multi-analog Technology Requires PFM820 to switch between formats	One (1) BNC HDCVI 4K Ultra High-definition Channel and, One (1) BNC CVBS Channel
Audio In/Out	—	1 Input	Built-in Microphone	—	—	1 Channel In
Alarm In/Out	—	1/1	—	—	—	2/1
Pan/Tilt/Rotation	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°		Pan: 0° - 355° Tilt: 0° - 65° Rotation: 0° - 355°
Environmental Protection	IP67	IP67, IK10	IP67	IP67		IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)		-40° F to +140° F (-40° C to +60° C)
Power	DC12V ±30% Max 12.1W (with IR on)	AC24V (±25%), DC12V (±25%) Max 16.6W	DC12V (±30%) Max 3.7W (12 VDC, IR on)	DC12V (±25%) Max 4.6W (DC12V with IR on)		AC24V (±25%) DC12V (±25%) Max 12.4 W

Model	HDCVI Dome Cameras					
	 ProSeries 	 ProSeries 	 	 ProSeries 	 ProSeries 	 ProSeries 
Image Sensor	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS	1/3" 4MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.01 lux/F1.3 0 lux (IR on)
Lens	3.7mm – 11mm, Motorized	2.8mm	2.7mm - 13.5mm, Motorized	2.7mm - 13.5mm, Motorized	2.8mm	2.7mm – 13.5mm, Motorized
Horizontal Field of View	112° to 46°	110.8°	102° to 29°	102° to 29°	98°	98° to 26°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP	20fps@5MP	25fps@4MP 30fps@1080p
Video Output	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel
Audio In/Out	1/-	1/-	1/-	1/-	1/-	—
Alarm In/Out	—	—	—	—	—	—
Pan/Tilt/Rotation	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V (±30%), DC12V (±30%) Max 8.4W (12 VDC, IR on)	DC12V (±30%) Max 7W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 11.8W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 11.8W (12 VDC, IR on)	DC12V (±30%) Max 5.3W (12 VDC, IR on)	AC24V (±25%), DC12V (±25%) Max 10.1W

HDCVI Products

Model	HDCVI Dome Cameras					
	A42AL22  ProSeries	A22AM9Z  ProSeries STARLIGHT	DH-HAC-HDBW32A1EN-Z  UltraSeries STARLIGHT	A21BMOV  LiteSeries	A21CM0Z  LiteSeries STARLIGHT	A21BL02 / A21BL03  LiteSeries
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.9" 2MP CMOS	1/2.8" 2MP CMOS	1/2.9" 2MP CMOS
Minimum Illumination	Color: 0.03 lux/F1.5 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux (IR On)	Enhanced Starlight Color: 0.005 lux/F1.4 0 lux (IR on)	Color 0.02 lux/F1.3 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux (IR On)	Color: 0.02 lux/F2.0 0 lux (IR on)
Lens	2.8mm	2.7mm - 13.5 mm, Motorized	2.7mm - 12mm, Motorized, Auto Iris	2.7mm - 13.5mm, Fixed Iris	2.7mm - 12mm, Motorized	2.8mm (A21BL02) 3.6mm (A21BL03)
Horizontal Field of View	99.7°	102° to 29°	95° to 36°	104° to 28°	101.7° to 32.3°	106° 82.8°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day Night	True Day/Night	True Day/Night
Maximum IR Distance	98ft (30m)	98ft (30m)	164ft (50m)	98ft (30m)	98ft (30m)	98ft (30m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR	DWDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D	2D
Frame Rate	25fps@4MP	30fps@1080p	30fps@1080p 30/60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p
Video Output	HD/SD Dual-output	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology Requires PFM820 to switch between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology Requires PFM820 to switch between formats
Audio In/Out	—	—	1 Channel in	—	—	—
Alarm In/Out	—	—	1/1	—	—	—
Pan/Tilt/Rotation	Pan: 0° - 355° Tilt: 0° - 65° Rotation: 0° - 355°	Pan: 0° to 355° Tilt: 0° to 75° Rotation: 0° to 355°	Pan: 0° - 355° Tilt: 0° - 85° Rotation: 0° - 355°	Pan: 0° - 355° Tilt: 0° - 75° Rotation: 0° - 355°	Pan: 0° - 355° Tilt: 0° - 75° Rotation: 0° - 355°	Pan: 0° - 355° Tilt: 0° - 65° Rotation: 0° - 355°
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V (±25%) Max 4.8W	DC12V (±25%) AC24V (±25%) Max 8W (12 VDC, IR on)	AC24V (±25%) DC12V (±25%) Max 12.5W	DC12V ±25% Max 3.4W (12 VDC, IR On)	DC12V (±30%) Max 6.7W (12 VDC, IR on)	DC12V (±25%) Max 2.6W (12 VDC, IR on)

	HDCVI Dome Cameras	HDCVI Eyeball Cameras					
	NEW  A21CL02 <i>LiteSeries</i> STARLIGHT	 A82AH5V <i>ProSeries</i> STARLIGHT 4K	 A82AG52 <i>ProSeries</i> STARLIGHT 4K	 A52AJ6Z <i>ProSeries</i> STARLIGHT	 A52AJ62 <i>ProSeries</i> STARLIGHT	NEW  A511K02 <i>LiteSeries</i>	NEW  A211K02 <i>LiteSeries</i>
Image Sensor	1/2.8" 2MP CMOS	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 2MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color 0.02 lux/F1.85 0 lux (IR on)	
Lens	2.8mm	3.7mm – 11mm, Motorized	2.8mm	2.7mm – 13.5mm, Motorized	2.8mm	2.8mm	
Horizontal Field of View	106.0°	112° to 46°	87°	102° to 29°	98°	103°	
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day Night	
Maximum IR Distance	98ft (30m)	197ft (60m)	164ft (50m)	197ft (60m)	164ft (50m)	98ft (30m)	
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	
Noise Reduction	2D	2D/3D	2D/3D	2D/3D	2D/3D	2D	
Frame Rate	30fps@1080p 30/60fps@720p	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP	20fps@5MP	30fps@1080p
Video Output	HD Multi-analog Technology; integrated pigtail enables switching between formats	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	
Audio In/Out	—	1/- plus a Built-in Microphone	1/- plus a Built-in Microphone	1/- plus a Built-in Microphone (Camera accepts audio from only one input source.)	1/- plus a Built-in Microphone (Camera accepts audio from only one input source.)	—	
Alarm In/Out	—	—	—	—	—	—	
Pan/Tilt/Rotation	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°
Environmental Protection	IP67, IK10	IP67	IP67	IP67	IP67	IP67	
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C)	
Power	DC12V (±30%) Max 3.1W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 12W (12 VDC, IR on)	DC12V (±30%) Max 8W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 14.1W (12 VDC, IR on)	DC12V (±30%) Max 7W (12 VDC, IR on)	DC12V ±30% Max 3.6W (12 VDC, IR on)	DC12V ±30% Max 3.3W (12 VDC, IR on)

HDCVI Products

	HDCVI Eyeball Cameras				HDCVI Fisheye Cameras	
	 ProSeries	 ProSeries STARLIGHT	 LiteSeries STARLIGHT	 LiteSeries STARLIGHT	 UltraSeries 4K	 ProSeries
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/1.8" 4K (8MP) CMOS	1/3" 4MP CMOS
Minimum Illumination	Color: 0.03 lux/F1.5 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)	Color: 0.005 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 B/W: 0.001 lux/F2.0
Lens	3.6mm	2.7mm - 13.5mm, Motorized	2.7mm - 12mm, Motorized	2.8mm	2.25mm	1.18mm
Horizontal Field of View	79°	99° to 29°	101.7° to 32.3°	106°	180°	180°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	Electronic Day/Night
Maximum IR Distance	164ft (50m)	197ft (60m)	197ft (60m)	164ft (50m)	49ft (15m)	—
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D	2D	2D/3D	2D/3D
Frame Rate	25fps@4MP	30fps@1080p	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p	15fps@3840 x 2160	30fps@4MP
Video Output	HD/SD Dual-output	HD Multi-analog Technology Requires PFM820 to switch between formats	HD Multi-analog Technology; integrated pigtail enables switching between formats	HD Multi-analog Technology; integrated pigtail enables switching between formats	One (1) BNC HDCVI 4K (8MP) Channel and One (1) BNC CVBS Channel	One (1) BNC HDCVI High-definition Channel and One (1) BNC CVBS Channel (switchable)
Audio In/Out	—	—	—	Built-in Microphone	Built-in Microphone	—
Alarm In/Out	—	—	—	—	2/1	—
Pan/Tilt/Rotation	Pan: 0° - 360° Tilt: 0° - 78° Rotation: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 78° Rotation: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 78° Rotation: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 78° Rotation: 0° - 360°	—	—
Environmental Protection	IP67	IP67	IP67	IP67	IP67, IK10	IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V (±25%) Max 5.5W	AC24V (±25%), DC12V (±25%) Max 13W	DC12V (±30%) Max 8.2W (12 VDC, IR on)	DC12V (±30%) Max 4.7W (12V DC, IR on)	DC12V (±25%), AC24V (±25%) Max 7.4W (IR on)	DC12V (±25%) Max 2.2W

Model	PIR Camera	Multi-sensor HDCVI Camera	HDCVI PTZ Cameras			
	DH-HAC-HUM1220A-PIR  LiteSeries	DH-HAC-PFW3601  UltraSeries STARLIGHT	6C230IC  ProSeries STARLIGHT	59430IC  UltraSeries	59230IC  ProSeries STARLIGHT	49225IC  ProSeries STARLIGHT
Image Sensor	1/1.29" 2MP CMOS	1/2.8" 2MP CMOS per sensor (3 sensors total)	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" STARVIS™ CMOS Sensor
Minimum Illumination	Color: 0.02 lux/F2.0 B/W: 0.002 lux/F2.0	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux at F1.6 0 lux (IR on)
Lens	2.8 mm	3.6mm	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.8mm – 120mm, Motorized (25x Optical Zoom)
Horizontal Field of View	100.5°	180°	67.8° to 2.4°	60° to 2.2°	67.8° to 2.4°	59.2° to 2.4°
Day/Night	Electronic Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	–	66ft (20m)	492ft (150m)	328ft (100m)	492ft (150m)	328ft (100m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D	2D/3D	Ultra DNR	Ultra DNR (2D/3D)	Ultra DNR	Ultra DNR (2D/3D)
Frame Rate	30fps@1080p	15fps@4096x832 30fps@2560x520	30fps@1080p	30fps@4MP or 1080p 30/60fps@720p	30fps@1080p	30fps@1080p 60fps@720p
Video Output	HD/SD, switchable	One (1) BNC HDCVI Panoramic Output Channel and Three (3) BNC 2MP HDCVI Channels	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TV-I) or CVBS Standard Definition Video Output (switchable)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)
Pan/Tilt/Zoom	–	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° to 360° endless; Tilt: -15° to 90° Auto flip 180°	Pan: 0° – 360°, endless; Tilt: -15° – 90°; Autoflip 180°	Pan: 0° to 360° endless; Tilt: -15° to 90° Auto flip 180°	Pan: 0° – 360° Endless; Tilt: -15° – 90° Auto Flip 180°
Preset Speed	–	–	Pan: 240° /s; Tilt: 200° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s
Audio In/Out	–	1/-	1/-	1/-	1/-	1/-
Alarm In/Out	–	2/1	2/1	2/1	2/1	2/1
Environmental Protection	–	IP67, IK10	IP66	IP66	IP66	IP66
Working Temperature	14° F to +122° F (-10° C to +50° C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C) Integrated Heater
Power	DC12V ± 25% 0.7 W	DC12V (±25%) Max 22W	AC24V Max 23 W	AC24V, 3A (±10%) 13W, 23W (IR on)	AC24V Max 23 W	DC12V, 3A Max 20W (IR on)

HDCVI Products

Model	HDCVI PTZ Cameras		
	50230IC  ProSeries	40212IC  STARLIGHT ProSeries	DH-SD22A204IN-GC  STARLIGHT LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Lens	4.5mm – 135mm, Motorized (30x Optical Zoom)	5.3mm – 64mm, Motorized (12x Optical Zoom)	2.7mm – 11mm, Motorized (4x Optical Zoom)
Horizontal Field of View	67.8° to 2.4°	58.4° to 4.9°	112.5° – 39°
Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	—	—	—
OSD Menu	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	Ultra DNR	Ultra DNR	2D/3D
Frame Rate	30fps@1080p	30fps@1080p	30fps@1080p 30/60fps@720p
Video Output	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	HD/SD Switchable
Pan/Tilt/Zoom	Pan: 0° to 360° endless Tilt: 0° to 90° Auto flip 180°	Pan: 0° to 360° endless Tilt: -2° to 90° Auto flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°
Preset Speed	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100°/s; Tilt: 60° /s
Audio In/Out	1/-	1/-	—
Alarm In/Out	2/1	2/1	—
Environmental Protection	IP67, IK10	IP66, IK10	IP66, IK10
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V Max 23 W	AC24V Max 19 W	DC12V Max 10W

Model	Security System Kits		
	C542E42 	C544E42 	C785E63 
Camera	4 x A211K02 1080p Cameras	4 x A511K02 4MP Cameras	6 x A511K02 4MP Cameras
Image Sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Minimum Illumination	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)
Lens	2.8mm/F1.85	2.8mm/F1.85	2.8mm/F1.85
Horizontal Field of View	103°	103°	103°
Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	98ft (30m)	98ft (30m)	98ft (30m)
Wide Dynamic Range (WDR)	Digital WDR	Digital WDR	Digital WDR
Frame Rate	30fps@1080p	30fps@4MP	30fps@4MP
Audio	—	—	—
Environmental	IP67	IP67	IP67
Power	12 VDC ±30% 3.3 W (12 VDC with IR on)	12 VDC ±30% 3.6 W (12 VDC with IR on)	12 VDC ±30% 3.6 W (12 VDC with IR on)
HDCVI Digital Video Recorder	X51A1H2	X71A1H2	X72A2A3
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Recording Resolution	5 M-N, 4 M-N, 1080p, 1080N, 720p	8MP, 6 MP, 5 MP, 4 K-N, 4 MP, 3 MP, 4 M-N, 1080p, 720p	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p
Maximum Record Rate	Channel 1: • 5 M-N at 10 fps Channels 2 to 4: • 4 M-N or 1080p at 15 fps • 1080N at 30 fps	Channel 1: • 8 MP at 7 fps • 6 MP at 10 fps Channels 2 to 4: • 4 K-N at 7 fps	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps
Analog Input	4CH, BNC	4CH, BNC	8CH, BNC
IP Input	4+2 CH, each channel up to 6 MP	4+2 CH, each channel up to 8 MP	8+8 CH, each channel up to 8 MP
Max Input/Record	24Mbps / 24Mbps	24Mbps / 24Mbps	64Mbps / 64Mbps
Audio In/Out	1/1	1/1	4/1
Maximum HDD	1 HDD Up to 10TB ships with a pre-installed 2TB HDD	1 HDD Up to 10TB ships with a pre-installed 2TB HDD	2 HDD Up to 10TB ships with a pre-installed 3TB HDD
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Power	12 VDC, 2A < 10 W	12 VDC, 2A < 10 W	12 VDC, 4A < 10 W

Model	Security System Kits					
	C7165E124	C788E63		C7168E124		
						
Camera	12 x A511K02 4MP Cameras	4 x A511K02 4MP Cameras	2 x A82AG52 4K Cameras	8 x A511K02 4MP Cameras	4 x A82AG52 4K Cameras	
Image Sensor	1/2.7" CMOS	1/2.7" CMOS	1/2" CMOS	1/2.7" CMOS	1/2" CMOS	
Minimum Illumination	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.005 lux at F1.6 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.005 lux at F1.6 0 lux (IR on)	
Lens	2.8mm/F1.85	2.8mm/F1.85	2.8mm/F1.6	2.8mm/F1.85	2.8mm/F1.6	
Horizontal Field of View	103°	103°	87°	103°	87°	
Day/Night	True Day/Night	True Day/Night		True Day/Night		
Maximum IR Distance	98ft (30m)	98ft (30m)	164ft (50m)	98ft (30m)	164ft (50m)	
Wide Dynamic Range (WDR)	Digital WDR	Digital WDR	True WDR (120dB)	Digital WDR	True WDR (120dB)	
Frame Rate	30fps@4MP	30fps@4MP	15fps@8MP	30fps@4MP	15fps@8MP	
Audio	—	—	1 CH In + Built-in Mic	—	1 CH In + Built-in Mic	
Environmental	IP67	IP67		IP67		
Power	12 VDC ±30% 3.6 W (12 VDC with IR on)	12 VDC ±30% 3.6 W (12 VDC with IR on)	12 VDC ±30% 8 W (12 VDC with IR on)	12 VDC ±30% 3.6 W (12 VDC with IR on)	12 VDC ±30% 8 W (12 VDC with IR on)	
HDCVI Digital Video Recorder	X72A3A4	X72A2A3		X72A3A4		
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264		
Recording Resolution	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p, 960H		8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p, 960H		
Maximum Record Rate	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps		8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps		
Analog Input	16CH, BNC	8CH, BNC		16CH, BNC		
IP Input	16+16 CH, each channel up to 8 MP	8+8 CH, each channel up to 8 MP		16+16 CH, each channel up to 8		
Max Input/Record	128Mbps / 128Mbps	64Mbps / 64Mbps		128Mbps / 128Mbps		
Audio In/Out	4/1	4/1		4/1		
Maximum HDD	2 HDD Up to 10TB ships with a pre-installed 4TB HDD	2 HDD Up to 10TB ships with a pre-installed 3TB HDD		2 HDD Up to 10TB ships with a pre-installed 4TB HDD		
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA		1 HDMI, 1 VGA		
Power	12 VDC, 5A < 20 W	12 VDC, 4A < 10 W		12 VDC, 5A < 20 W		

Model	HDCVI Digital Video Recorders					
	X58A3S	X74A3L				
						
	UltraSeries	UltraSeries				
Video Compression	Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264		
Audio Compression	G.711A, G.711U, PCM			G.711A, G.711U, PCM; AAC first channel only		
Video Standard	HDCVI/AHD/TVI/CVBS (Auto-detect)			HDCVI/AHD/TVI/CVBS (Auto-detect)		
Maximum Record Rate	1st and 9th channels: 4K at 15 fps or 4 MP at 30 fps Other Channels: 4MP at 15 fps; 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps			8 MP at 7 fps; 6 MP at 10 fps, 5 MP at 12 fps, 4 MP or 3 MP at 15 fps; 4 M-N, 1080p, 720p, 960H, D1, CIF or QCIF at 30 fps		
Analog / IP Inputs	Analog	IP	Total IP without using Analog*	Analog	IP	Total IP without using Analog*
	16CH	48CH	64CH	16CH	16CH	32CH
Max Input/Record	256Mbps / 384Mbps			128Mbps/128Mbps		
Audio In/Out	16/1, 2-way			4/1, 2-way		
Maximum HDD	8 SATA Ports, up to 8TB each disk 64TB max			4 SATA Ports, up to 10TB each disk 40TB max		
Display	2 HDMI, 1 VGA, 1 TV			2 HDMI, 1 VGA, 1 TV		
eSATA	1			1		
USB	4 USB Ports (2 USB 2.0, 2 USB 3.0)			3 USB Ports (1 USB 2.0, 2 USB 3.0)		
External Storage	USB Device/Network			USB Device/Network		
Alarm In/Out	16/6			16/6		
Ethernet	2 Gigabit Ports			1 Gigabit Port		
Remote Login	128			128		
Dimension	17.3in x 17.9in x 3.7in			17.32in x 16.42in x 2.99in		
Power	AC100V-240V, 50/60Hz <50W (Without HDD)			AC100V-240 V, 50/60 Hz <35W (Without HDD)		
Highlights	4K Penta-brid, Dewarping over local/web/SmartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output, Loop Out			4K Penta-brid, Dewarping over web/SmartPSS, POS, IVS, Face Detection, Spot Output, Smart Search		

* An IP channel can be added for each analog channel removed

HDCVI Products

Model					
	X72A2A / X72A3A	X58A5S	X28A5S	X54A5L	X24A5L
	 UltraSeries	 ProSeries	 ProSeries	 ProSeries	 ProSeries
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.264+, H.264, MJPEG
Audio Compression	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	—	G.711A, G.711U, PCM; AAC first channel only	—
Video Standard	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)
Maximum Record Rate	8 MP at 7 fps; 6 MP at 10 fps; 5 MP at 12 fps, 4 MP or 3 MP at 15 fps; 4 M-N, 1080p, 720p, 960H, D1, CIF or QCIF at 30 fps	Channels 1 and 2: 5 M-N at 20 fps Channels 3 to 32: 4 M-N at 30 fps	15fps@1080p 30fps@1080N	Channels 1 and 2: 5 M-N at 20 fps Channels 3 to 32: 4 M-N at 30 fps	15fps@1080p 30fps@1080N
Analog Input	8CH/16CH	32CH	32CH	32CH	32CH
IP Input	8+8CH Up to 8MP	16+16CH Up to 8MP	32CH Up to 8MP	16+16CH Up to 5MP	32CH Up to 8MP
Max Input/Record	64Mbps/64Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps	128Mbps/128Mbps
Audio In/Out	4/1, 2-way	16/1, 2-way	16/1, 2-way	4/1, 2-way	4/1
Maximum HDD	2 SATA Ports, up to 10TB each disk 20TB max	8 SATA Ports, up to 10TB each disk 80TB max	8 SATA Ports, up to 8TB each disk 64TB max	4 SATA Ports, up to 10TB each disk 40TB max	4 SATA Ports, up to 8TB each disk 32TB max
Display	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 BNC	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 BNC	2 HDMI, 1 VGA, 1 TV
eSATA	—	1	1	1	1
USB	2 USB Ports (1 USB 2.0, 1 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)
External Storage	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network
Alarm In/Out	8/3	16/6	16/6	16/6	16/6
Ethernet	1 Gigabit Port	2 Gigabit Port	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port
Remote Login	128	128	128	128	128
Dimension	14.80 in x 11.31 in x 2.09 in	17.30 in x 17.92 in x 3.74 in	17.3in x 17.9in x 3.7in	17.30 in x 16.40 in x 3.0 in	17.3in x 16.4in x 3.0in
Power	12 VDC, 4 A/5A <10W (Without HDD)/20W	AC100V-240 V, 50/60 Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <35W (Without HDD)	AC100V-240 V, 50/60 Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <30W (Without HDD)
Highlights	4K Penta-brid, Dewarping over web/smartPSS, POS, IVS, Face Detection", Spot Output, Smart Search	1080P Penta-brid, IVS, Face Detection", Spot Output, Smart Search	1080P Penta-brid, Dewarp SmartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output	1080P Penta-brid, IVS, Face Detection", Spot Output, Smart Search	1080P Penta-brid, Dewarp SmartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output

Model	HDCVI Digital Video Recorders								
	X52A3A / X52A3N  ProSeries	X32A3A  ProSeries	X22A3A  ProSeries	C52A2N/C52A3N  LiteSeries	X51A1E / X51A2E / X51A3E  LiteSeries			X21A3E  LiteSeries	
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264			Smart H.264+, H.264	
Audio Compression	G.711A, G.711U, PCM AAC first channel only	—	—	—	G.711A, G.711U, PCM AAC first channel only			—	
Video Standard	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/TVI/AHD/CVBS (Auto-detect)			HDCVI/TVI/AHD/CVBS (Auto-detect)	
Maximum Record Rate	CH 1-2 10fps@5 M-N CH 3-16: 15fps@4 M-N; 30fps@1080N	30fps@1080p 30fps@D1	15fps@1080p 30fps@1080N	Analog CH 1: 15fps@4K or 15fps@4MP Other CH: 15fps@4MP or 30fps@1080P/720P	CH1: 10fps@5M-N CH2-4: 15fps@4M-N	CH 1-2: 10fps@5M-N CH 3-8: 15fps@4M-N	CH 1-2: 10fps@5M-N CH 3-16: 15fps@4M-N	15fps@1080P 30fps@1080N/720P	
Analog Input	16CH	16CH	16CH	8CH	16CH	4CH	8CH	16CH	16CH
IP Input	16+8CH Up to 6MP	16+8CH Up to 5 MB	16+8CH Up to 5 MB	8+4CH Up to 8 MP	16+8CH Up to 8 MP	4+2CH Up to 6 MP	8+4CH Up to 6 MP	16+8CH Up to 6 MP	16+8CH (Up to 5MP)
Max Input/Record	96Mbps	96Mbps / 96Mbps	96Mbps / 96Mbps	48Mbps / 48Mbps	96Mbps / 96Mbps	24Mbps / 24Mbps	48Mbps / 48Mbps	96Mbps / 96Mbps	96Mbps / 96Mbps
Audio In/Out	4/1	1/1	4/1, 2-way	4/1, 2-way	1/1, 2-Way		4/1, 2-Way	8/1, 2-Way	16/1, 2-Way
Maximum HDD	2 SATA Ports, up to 10TB each disk 20TB max	2 SATA Ports, up to 8TB each disk 16TB max	2 SATA Ports, up to 8TB each disk 16TB max	2 SATA Ports, up to 8TB each disk 16TB max	1 SATA Port, up to 10TB max			1 SATA Port, up to 8TB max	
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI (up to 3840 x 2160), 1 VGA	1 HDMI (3840 x 2160), 1 VGA			1 HDMI, 1 VGA	
eSATA	—	—	—	—	—			—	
USB	1 USB 2.0 Port, 1 USB 3.0 Port	1 USB 2.0, 1 USB 3.0	1 USB 2.0 Port, 1 USB 3.0 Port	1 USB 2.0 Port, 1 USB 3.0 Port	Two (2) USB 2.0 Ports		1 USB 2.0 Port, 1 USB 3.0 Ports	1 USB 2.0 Port, 1 USB 3.0 Ports	
External Storage	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network			USB Device/Network	
Alarm In/Out	16/3	—	16/3	16/3	—		8/3	16/3	16/3
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	100 Mbps Port		1 Gigabit Port	1 Gigabit Port	
Remote Login	128	128	128	128	128			128	
Dimension	14.80 in x 11.30 in x 2.09 in	14.70in x 11.20in x 2.20in	14.70in x 11.20in x 2.20in	14.80in x 11.20in x 2.20in	12.80 in x 10.04 in x 2.17 in			19.00 in x 11.10 in x 2.20 in	
Power	12 VDC, 4 A <10W (Without HDD)	12 VDC, 4 A <15W (Without HDD)	DC12V, 5A <15W (Without HDD)	DC12V, 4A <15W (Without HDD)	DC12V, 4A <15W (Without HDD)	DC12V, 5A <15W (Without HDD)	< 10 W, without HDD	< 15 W, without HDD	12 VDC, 2 A <10W (Without HDD)
Highlights	1080P Penta-brid, Plug & Play, P2P, Smart Search, IVS	1080P Penta-brid, Dewarp SmartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output	1080P Penta-brid, Dewarp SmartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output	4K Tri-brid, Dewarp local/web/SmartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output	1080P Penta-brid, Smart Search, Face Detection", IVS Analytics, P2P, Plug & Play			1080P Penta-brid, Dewarp SmartPSS, Plug & Play, P2P, Smart Search, IVS	

Accessories

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Vari-focal Dome	N25CL5Z N28BL7Z N45CL5Z N85CL5Z DH-IPC-HDBW-5831EN-Z5E		PFA138							
			PFA138						PFA151	
					PFB201C					
				PFB210W						
				PFB210W						PFA152-E
		PFA101				PFB300C				
	A21BM0V A21CM0Z A22AM9Z A42AM2Z A42AM2Z-B A52AM9Z A52AM9Z-B A82AM5V A83ALBZ N25BM3Z		PFA137							
			PFA137				PFA200W			
					PFB200C					
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
Vari-focal Eyeball	A21BH0V		PFA13C							
				PFB204W						
				PFB204W						PFA152-E
		PFA106		PFB305W					PFA151	
	A22AH9Z A42AH2Z					PFB220C				
			PFA137							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
		PFA106				PFB220C				
	A21CJ0Z A52AJ6Z A82AH5V N85CM5Z		PFA137							
			PFA130-E							
				PFB203W						
				PFB203W						PFA152-E
Vari-focal Bullet	A83ABBZ DH-HAC-HFW32A1EN-Z N25CB5Z N28BB7Z N45CB5Z NK8BB7Z N65CB5Z N85CB5Z DH-IPC-HFW5831EN-Z5E		PFA121							
			PFA121						PFA151	
			PFA121							PFA152-E
			PFA142							
			PFA142							PFA153
	A21CC0Z A42AC2Z A42AC2Z-B A52AF6Z A82AF5V N52BF3Z		PFA130-E							
			PFA130-E						PFA151	
			PFA130-E							PFA152-E
			PFA142							
			PFA142							PFA153

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Fixed-lens Dome	A21BL02		PFA136							
	A21BL03		PFA136				PFA200W			
	A42AL22			PFB203W						
	A42AL23			PFB203W						PFA152-E
	A52AL42			PFB203W						
	N24BL52	PFA106		PFB305W					PFA151	
	N24CL52									
	N44CL52									
	N44CL53									
	N51BL22									
	N51BL23									
	N64CL52	PFA106				PFB220C				
	N64CL53									
	N84CL52									
	N84CL54									
	N41BL12-W		PFA136							
				PFB203W						
				PFB203W						PFA152-E
Fixed-lens Eyeball	A82AM52		PFA137							
	DH-IPC-HDBW4239RN-ASE		PFA137				PFA200W			
					PFB200C					
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
	N24BN52		PFA139							
	N44BN52			PFA201W						
				PFB204W						
				PFB204W						PFA152-E
	DH-IPC-HDBW-4231FN-E2-M		PFA137							
				PFB203W						
				PFB203W						PFA152-E
	N51BI22		PFA136							
	N51BI23		PFA130-E							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
		PFA106				PFB220C				
Fixed-lens Eyeball	A211K02		PFA13A-E							
	A511K02		PFA130-E							
	N41BK22			PFB204W						
				PFB204W						PFA152-E
		PFA106		PFB305W					PFA151	
		PFA106				PFB220C				
	A21BG02		PFA139							
	A21BG03		PFA130-E							
	A42AG23			PFB204W						
	N24CG52			PFB204W						PFA152-E
	N44CG52			PFB204W						
	N44CG53	PFA106		PFB305W					PFA151	
	N84CG52	PFA106				PFB220C				
	N84CG54									

Accessories

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Fixed-lens Eyeball	A52AJ62 A82AG52		PFA130-E							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
Fixed-lens Bullet/ Box	N41BD22 N51BD22 N51BD23 N41BD12-W A21CF02 A82AF53 DH-IPC-HFW4239TN-ASE	PFA106				PFB220C				
			PFA130-E						PFA151	
			PFA130-E							PFA152-E
			PFA142							
			PFA142							PFA153
			PFA121							
	A21BB02 A21BB03 A42AB23 A52AB62 N44CB33 N64CB32 N84CB34		PFA121						PFA151	
			PFA121							PFA152-E
			PFA121							
			PFA142							
			PFA142							PFA153
			PFA142							
	NK8BA4 N45BA5 DH-IPC-HF8242FN-FR DH-IPC-HF8835FN			PFB605W						
				PFA162						
				PFA162						PFA150
			PFA121	PFB121W						
			PFA121	PFB121W					PFA151	
			PFA121	PFB121W						PFA152-E
	A83AA9			PFB110W						
				PFA140	PFB604W					
				PFA140	PFB604W					PFA150
				PFB121W						
			PFA121	PFB121W					PFA151	
			PFA121	PFB121W						PFA152-E
Fisheye	A42AR2 N55BS5		PFA136							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
	A83AR6 NK8BR4 N68BR4V	PFA106				PFB220C				
		PFA100				PFB300C				
		PFA100				PFB300C				PFA150
		PFA105+PFA110				PFB300C				
	N55BT5	PFA105+PFA110				PFB300C				PFA150
				PFB203W						
Panoramic	DH-IPC-PFW-8800N-A180 DH-IPC-PFW8601N-H-A180			PFB203W						
			PFA120							
			PFA120						PFA151	
			PFA120							PFA150
	DH-HAC-PF-W3601N-A180		PFA124-B							
			PFA124-B						PFA151	
			PFA124-B							
										PFA152-E

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Panoramic	DH-IPC-PDB-W8800N-A180	PFA111		PFB303W						
		PFA111	PFA120	PFB303W						
		PFA111		PFB303W					PFA151	
		PFA111		PFB303W						PFA150
		PFA111				PFB300C				
		PFA111						PFB303S		
	DH-IPC-PD-BW5831-B360	PFA108 + PFA111		PFB303W						
		PFA108 + PFA111	PFA120	PFB303W						
		PFA108 + PFA111		PFB303W					PFA151	
		PFA108 + PFA111		PFB303W						PFA150
		PFA108 + PFA111		PFB303W		PFB300C				
		PFA108 + PFA111						PFB303S		
	DH-PSD81602N-A360	PFA710 †		PFB710W †						
		PFA710		PFB710W						PFA153
PTZ	1A203TNI 12203TNI		PFA120							
			PFA140							
		PFA107		PFB305W						
		PFA107		PFB305W					PFA151	
		PFA107		PFB305W						PFA150
		PFA107	PFA142	PFB305W					PFA153	
	SD22A204IN-GC 22204TNI		PFA137							
					PFB200C					
				PFB203W						
				PFB203W					PFA151	
	SD22A204TN-GNI-W		PFA137							
				PFB203W						
				PFB203W					PFA151	
				PFB203W						PFA152-E
	40212IC 40212TNI DH-SD40A212TN-HNI		PFA120							
			PFA140							
		PFA110 †		PFB300S †					PFA151	
		PFA110		PFB300S						PFA150
		PFA110		PFB300S						
		PFA110	PFA142	PFB300S						
		PFA110	PFA142	PFB300S					PFA153	
		PFA110				PFB300C				
	42212TNI	PFA110						PFB303S		
		PFA102		PFB302S						
		PFA102		PFB302S					PFA151	
		PFA102		PFB302S						PFA150
		PFA102		PFB302S		PFB300C				

Accessories

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
PTZ	49225IC 49225TNI		PFA120							
			PFA140							
				PFB305W †						
				PFB305W					PFA151	
				PFB305W						PFA150
			PFA142	PFB305W						
			PFA142	PFB305W					PFA153	
		PFA111				PFB300C				
	50230IC 50230UNI-A 50430UNI 59230IC 59430IC 59230UNI 59430UNI		PFA120							
			PFA140							
		PFA110 †		PFB300S †					PFA151	
		PFA110		PFB300S						PFA150
		PFA110		PFB300S						
		PFA110	PFA142	PFB300S						
		PFA110	PFA142	PFB300S					PFA153	
PTZ	6AE240VNI 6AE530UNI 6AE830VNI 6AL245UNI DH-SD6ALA230FN-HN		PFA120							
			PFA140							
		PFA111 †		PFB303W †						
		PFA111		PFB303W					PFA151	
		PFA111		PFB303W						PFA150
		PFA111	PFA142	PFB303W						
		PFA111	PFA142	PFB303W					PFA153	
		PFA111				PFB300C				
	6C230IC 6C430UNI							PFB303S		
			PFA120							
			PFA140							
				64FB †						
		PFA114		PFB303W						
		PFA114		PFB303W					PFA151	
		PFA114		PFB303W						PFA150
		PFA114	PFA142	PFB303W						
	6CE230UNI	PFA114	PFA142	PFB303W					PFA153	
		PFA114				PFB300C				
		PFA114						PFB303S		
			PFA120							
			PFA140							
				PFB305W †						
				PFB305W					PFA151	
				PFB305W						PFA150
Black Housing Cameras	N44CG52-B			PFB204W-B						
				PFB204W-B						PFA152-E-B
			PFA139-B							
	N45CL5Z-B		PFA138-B							
										PFA152-E-B

4-port: DH-PFL2106-4ET-96 8-port: DH-LR2110-8ET-120 16-port: DH-LR2218-16ET-240 24-port: DH-LR2226-24ET-360	LR1002	LR1002-1ET/ LR1002-1EC	PC-H845-147	PC-H59-D113.6		PFM113	
 	 	 					
ePoE Switch¹ • Layer 2 Enhanced Power over Ethernet Switch • 800 m (2625 ft) PoE Transmission Distance with ePoE Technology (Channels 1 through 8) • Supports IEEE802.3af, IEEE802.3at and Hi-PoE Standards • Conforms to the IEEE802.3, IEEE802.3u, IEEE802.3ab/z and the IEEE802.3X Standards • Wide Temperature Range for Industrial Uses	EoC Passive Converter • Ethernet Over Coax Passive Converter for Extending Coax to IP via ePoE Technology • Supports PoE Transmission, up to 1000 m (3281 ft) • Supports the IEEE802.3 and IEEE802.3u Standards • Includes 2 Converters	Single-port EoC Extender • Ethernet over Coax Transmitter/Receiver • Extends EoC Transmission to non ePoE-enabled Edge or Head-end Devices • Converts betweenCAT5E/CAT6 and Coaxial Cable Transmission • Transmission Distance Up to 1000 m (3281 ft) via RG59 at 10 Mbps	Smoked Polycarbonate Bubble • Replacement Bubble for PTZ IP and HDCVI Cameras • Compatible Dahua PTZ models 52C/50XXXXXX	Smoked Polycarbonate Bubble • Replacement Bubble for Vari-focal Dome Cameras • Compatible Dahua IP Models: N45CL5Z, N45CL5Z-B, N25CL5Z, N85CL5Z, HDBW-5831EN-Z5E • Compatible Dahua HDCVI Model: A83ALBZ		128 GB Micro SD Card • All IP cameras on this guide offer an SD Card Slot up to 128 GB • Cost-effective TLC Storage Medium • High-transmission Speed • Waterproof, Shockproof, and X-ray Proof • High and Low Temperature Resistance	
DHL49-4K	STx000VX000X	DH-PFL085-J12M	DH-PFL2070-J12M	DH-PFB610V	DH-PFB610V-IR	PFB604W	DH-PFB605W
							
49-in. 4K LCD • 4K (3840 x 2160) Ultra HD Resolution • Industrial-grade DID LCD panel • High-fidelity Digital Signal Processing • Built-in 3D Comb Filter and 3D Noise Reduction • 8 ms Response Time, No Image Ghosting • 16.7M Color Reproduction • Professional Thermal Design • Built-in Power / Low Energy Consumption • HDMI, DVI, VGA, CVBS, and USB Video Inputs	Skyhawk Series Hard Drives • Designed for 24/7 Surveillance-optimized Applications • Firmware Optimized for Continuous Recording; 90% Write and 10% Read • Engineered for Workloads up to 180TB/year • Capacity Up to 10 TB, Supports 64 Cameras per Drive • Low Power Consumption and Startup Current	12MP 8.5mm Fixed Lens • 12MP 4/3-in. Lens • 8.5 mm Fixed Lens (35 mm equivalent: 17 mm; 1/3-in. equivalent: 2 mm) • M43 Mount • Designed for Extreme Temperature Environments • Compatible with A83AA9	12MP Vari-focal Lens • 12MP 4/3-in. Lens • 20-70 mm Lens • M43 Mount • Designed for Extreme Temperature Environments • Compatible with A83AA9	14 inch Outdoor Housings • Compatible with any Dahua box camera • IR up to 328ft. (DH-PFB610V-IR) • Built-in heater (DH-PFB610V-IR) • IP67 • IK10		Housing Brackets • Compatible with DH-PFH610V and DH-PFH610V-IR housings	
DH-PFM900-E	iDMSS	DMSS	gDMSS	SmartPSS		DSS	
							
Integrated Mount Tester • 4-in. IPS TFT Screen 800 x 480 Resolution • Supports IP, HDCVI, AHD, TVI, and CVBS, Formats • H.265 and H.264 Dual Codescs • Audio and RS485 Control • TDR Network Cable Tests and Digital Multi-meter Functions • QWERTY Flip-open Keyboard with 45 Keys	• IOS 8.0 and Later • Relay Out Functionality • MJPEG Video Decoding • PIC Channel • Multi-language Interface	• IOS and Android • Relay Out Functionality • MJPEG Video Decoding • Multi-language Interface	• Android 3.0 and Later • Relay Out Functionality • MJPEG Video Decoding • Add Playback, RealPlay, Image Choices • E-Map Function • Multi-language Interface	Smart Professional Surveillance System • Efficient Device Management • Manage up to 256 Devices over a Maximum of 2000 Channels • Supports H.265 and H.264 Dual Codec • Live Video Monitoring and Playback • Configure Video Wall Layout and Scheme • Configure NVR Recording • PTZ Camera Control • Intelligent Video System (IVS) with People Counting and Heat Map		Digital Surveillance Management Center • Complete Organization, Device, and Event Centralized Management • Manage up to 500 Devices over a Maximum of 2000 Channels • Supports H.265 and H.264 Codec • Support for Video Wall Configuration and Display • Live Video Monitoring and Playback • PTZ Camera Control and Smart Track • Intelligent Video System (IVS) with Business Analysis	

Footnotes:

* Accessory is optional for the mounting application.

** Facial Detection analytics offer the best results using a camera with a minimum focal length of 6 mm. Cameras with a 2.8 mm to a 4 mm wide angle lens detect faces only within a range of approximately 3.5 ft. to 4.5 ft from the camera.

¹ Mounting Accessory included with the PTZ camera.

²included with camera



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