



## 2017 PRODUCT CATALOG





REC ●

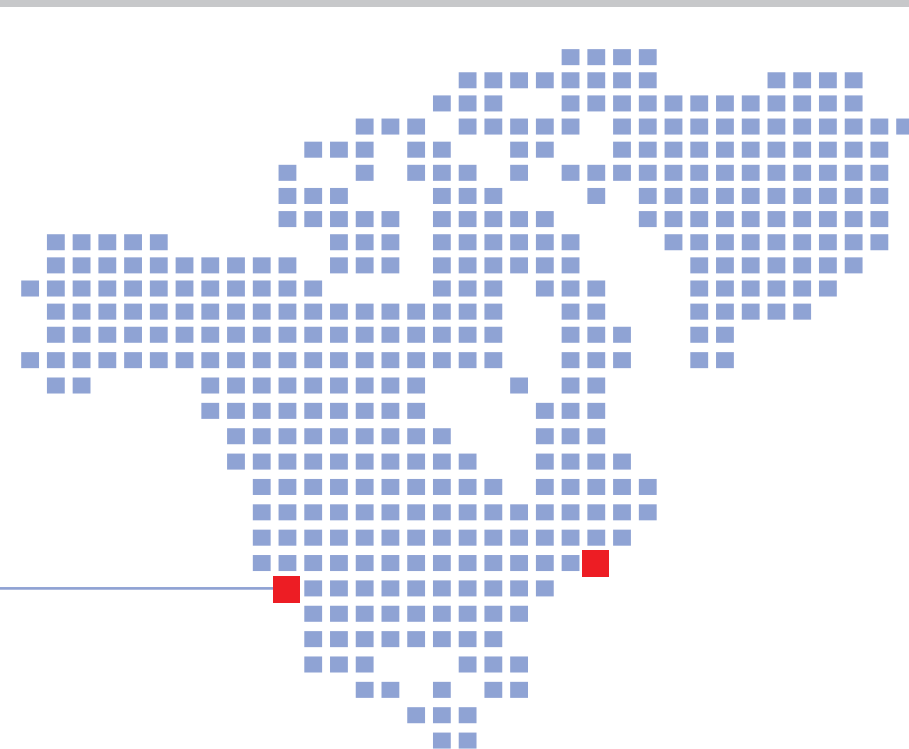
**PROVEN  
THE WORLD  
OVER.**



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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 [www.dahuasecurity.com/en/us](http://www.dahuasecurity.com/en/us). 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 visit the website. For additional information, or if you are interested in becoming an authorized distributor or partner, please email [sales.usa@global.dahuatech.com](mailto:sales.usa@global.dahuatech.com) or call [949-679-7777](tel:949-679-7777).

# ALL-STAR PARTNER PROGRAM

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Dahua's new and enhanced All-Star Partner Program is designed to provide our dealer partners with the tools to gain a competitive advantage, drive business and win more projects. Two-, three-, and four-star tiers bring different levels of benefits, including rebates, project registration, demo equipment, and lead generation. All Dahua All-Star partners enjoy the first-class technical support that Dahua is known for. For more information, email [dealers.usa@global.dahuatech.com](mailto:dealers.usa@global.dahuatech.com).



# THREE TIERS OF DAHUA PRODUCTS

To make selecting the right Dahua solution easy, three levels of product series are offered in order to suit basic through advanced users. The three tiers of offerings range from good, economical products to competitively priced, feature-rich products. Whether you choose the Lite Series, Pro Series, or Ultra Series family of products, all products feature high performance, reliability, and a **five-year warranty\***.



## Ultra Series

When you need the best of the best, turn to the Ultra Series. Ultra high resolution (up to 12MP) allows these IP cameras to capture the finest of details, making them an excellent choice for advanced security applications for medium and large businesses. Smart H.265+, built-in IVS, and on-board storage are characteristics of this state-of-the-art IP camera line. Most IP PTZ cameras feature a long-range optical zoom and Smart IR illumination over 650 feet. HDCVI PTZ's boast 4MP resolution and 30X optical zoom. Storage IP devices typically feature 32, 64, 128 or 256-channel RAID options with 4K recording.

## Pro Series

The Pro Series is made up of products that have a greater mainstream appeal while still being competitively priced. The main differentiation for most Pro Series IP fixed and PTZ cameras is the built-in Intelligent Video System (IVS) analytics feature. IVS provides the ability to detect and analyze moving objects for improved video surveillance. Vari-focal IP and HDCVI camera offerings include a motorized lens option for ease of installation. Thanks to the True Wide Dynamic Range (up to 120dB), most IP or HDCVI cameras are a great option for applications that suffer from direct sunlight or glare. Most IP and HDCVI PTZ cameras feature a short-long range optical zoom. Storage IP and HCVR devices typically feature 8, 16, or 32-channel options with 4K recording.

## Lite Series

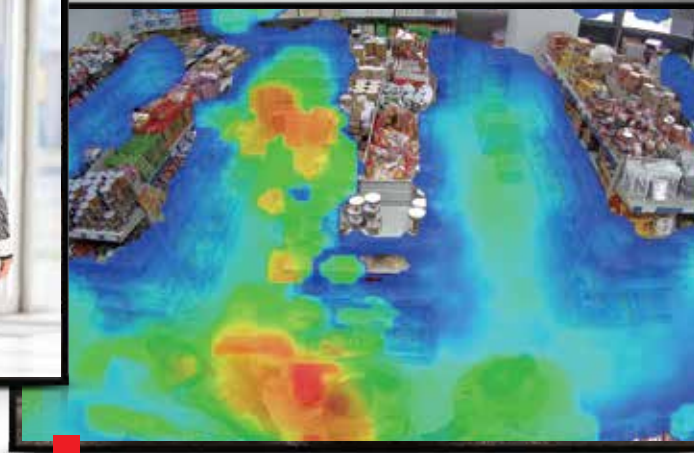
Specifically designed for small to mid-size applications, the Lite Series offers just the right amount of features while keeping cost to a minimum. These products are ideal for users with basic surveillance needs and uncomplicated scenes. The primary differentiation for most Lite Series IP and HDCVI cameras is the Digital Wide Dynamic Range (DWDR) feature. IP and HDCVI PTZ (Pan Tilt Zoom) camera options offer a short or mid-range optical zoom. Storage IP and HCVR devices typically feature 4, 8, or 16-channel options.

\* Available to dealers enrolled in our All-Star Partner program. For more information, visit <http://www.dahuasecurity.com/allstar>



## IVS

IVS is a built-in video analytic algorithm that delivers intelligent functions to quickly and accurately monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.



## Business Analytics

Built-in IVS features people counting and heat mapping functionality, advanced features that add business intelligence to your security system. Intelligent analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a heat map, a two-dimensional representation of data that provides an immediate visual summary of information. People counting and heat maps can identify the most active areas of a retail space, providing valuable data analysis for commercial applications.



## AutoTracking

Triggered manually or automatically by defined rules, the camera can zoom in and track the defined target in a single scene, panoramic scene, or across multiple scenes.





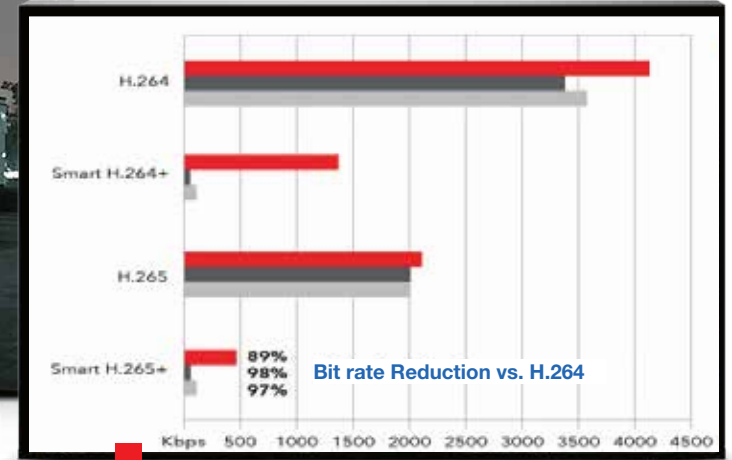
## 4K Technology

4K delivers four times the resolution of standard HDTV 1080p cameras and offers superior picture quality and image detail. 4K resolution improves the clarity of a magnified scene to view or record crisp forensic video from large areas. Dahua offers 4K in IP and HDCVI camera models.



## Starlight Technology

For challenging low-light applications, Dahua's ultra low-light Starlight Technology offers best-in-class light sensitivity, capturing color details in low light down to less than 0.007 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.












## Smart H.265+ Technology

Dahua's Smart H.265+ is the optimized implementation of H.265, which drastically reduces bit rates for an even higher savings on storage and bandwidth. Operators can configure Smart H.265+ to tailor the encoding for a particular application or scene, adding flexibility and sophisticated image enhancement.

Smart H.265+ offers a multi-pronged approach to reducing the quantity of data without degrading the image quality.











# IP CAMERAS

	Box Cameras			Bullet Cameras					
Model	 NK8BA4 <small>Ultra</small>	 N45BA5 <small>Pro</small>	 N25BA5 <small>Pro</small>	 NK8BB7Z <small>Ultra</small>	 N84BB14 <small>Ultra</small>	 N68BB7Z <small>Ultra</small>	 N45BB5Z <small>Pro</small>	 DH-IPC-HFW54A1EN-Z <small>Pro</small>	 N42AC3Z <small>Lite</small>
<b>Image Sensor</b>	1/1.7" 12MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/1.7" 12MP CMOS	1/2.5" UHD 4K (8MP) CMOS	1/1.8" 6MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS
<b>Lens</b>	Sold Separately		Sold Separately		4.1mm - 16.4mm/ F1.53 Motorized	4mm/F1.6 Manual	4.1mm - 16.4mm/F1.53 Motorized	2.7mm - 12mm/F1.4 Motorized	2.7mm - 12mm/F1.4 Motorized
<b>Horizontal Field of View</b>	N/A		N/A		85° - 35°	87°	106°	100° - 35°	100° - 33°
<b>Min. Illumination</b>	Color: 0.01 Lux/F1.2, B/W: 0.001 Lux/F1.2	Color: 0.01 Lux/F1.2, 0 Lux/F1.2 (IR on)	Starlight Color: 0.005 Lux/F1.2, 0 Lux/F1.2 (IR on)	Color: 0.02 Lux/F1.53, 0 Lux/F1.53 (IR on)	Color: 0.05 Lux/F1.6, 0 Lux/F1.6 (IR on)	Color: 0.02 Lux/F1.53, 0 Lux/F1.53 (IR on)	Color: 0.03 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.01 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)
<b>Day/Night</b>	True Day/Night	True Day/Night		True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
<b>Wide Dynamic Range (WDR)</b>	DWDR	120dB		DWDR	DWDR	DWDR	120dB	120dB	120dB
<b>Max. IR Distance</b>	N/A	N/A		164ft (50m)	130ft (40m)	164ft (50m)	164ft (50m)	164ft (50m)	197ft (60m)
<b>Video Compression</b>	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	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG
<b>Max. Resolution</b>	12MP (4000 x 3000)	4MP (2688x1520)	1080p (1920x1080)	12MP (4000 x 3000)	4K (8MP) (3840x2160)	6MP (3072 x 2048)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688 x 1520)
<b>Frame Rate</b>	20fps@12MP	30fps@4MP	60fps@1080p	20fps@12MP	15fps@4K 30fps@3MP	30fps@6MP	30fps@4MP	20fps@4MP, 30fps@3MP	20fps@4MP, 30fps@3MP
<b>Multi-streaming</b>	3 streams	3 streams		3 streams	3 streams	3 streams	3 streams	3 streams	2 streams
<b>Intelligent Video*</b>	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	—
<b>Compatibility</b>	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI		ONVIF, PSIA, CGI	ONVIF (2.4), PSIA, CGI	ONVIF (2.4), PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (2.4), PSIA, CGI	—
<b>Audio In/Out</b>	1/1, Built-in Mic	1/1, Built-in Mic		1/1	—	1/1	1/1	1/1	ONVIF, PSIA, CGI
<b>Memory Slot</b>	Micro SD, Max 128GB	Micro SD, Max 128GB		Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
<b>Alarm In/Out</b>	2/1	2/1		2/1	—	2/1	2/1	2/1	—
<b>Environmental Protection</b>	—	—		IP67, IK10	IP67	IP67, IK10	IP67	IP67	IP67
<b>Working Temperature</b>	-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)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F, -40°F to 140°F w/Heater (-30°C to 60°C, -40°C to 60°C w/Heater)	-22°F to 140°F (-30°C to 60°C)
<b>Power</b>	DC12V/AC24V, PoE PoE (802.3af), Max <8W	DC12V/AC24V, PoE PoE (802.3af), Max <5W		DC12 V, PoE+ (802.3af) < 13 W	DC12V, PoE (802.3af) < 7W	DC12 V, PoE (802.3af) < 13 W	DC12V (±25%), PoE (802.3af), Max <11.5W	DC12V (AC24V optional), ±25%, PoE (af Class 0)	DC12V (±25%), PoE (802.3af), Max 12.95W









# IP CAMERAS

## Bullet Cameras

Model	DH-IPC-HFW44A1EN		NEW N25BB5Z		DH-IPC-HFW52A1EN-Z		NEW N24BB33		DH-IPC-HFW42A1EN		DH-IPC-HF-W23A0RN-ZS		DH-IPC-HF-W21A0RN-ZS		NEW N44BB33		DH-IPC-HF-W83A1EN-Z		DH-IPC-HF-W82A1EN-Z	
																				
	Pro		Pro		Pro		Pro		Pro		Lite		Pro		Pro		Ultra			
Image Sensor	1/3" 4MP CMOS		1/2.8" 2MP CMOS		1/2.7" 2MP CMOS		1/2.8" 2MP CMOS		1/2.7" 2MP CMOS		1/3" 3MP CMOS		1/3" 1.3MP CMOS		1/3" 4MP CMOS		1/2.8" 3MP CMOS		1/2.8" 2MP CMOS	
Lens	3.6mm/ F2.0 Manual	6mm/ F2.0 Manual	2.7mm - 12mm/F1.4 Motorized		2.7mm - 12mm/F1.4 Motorized		3.6mm/ F2.0 Manual		3.6mm/ F2.0 Manual	6mm/ F2.0 Manual	2.7mm - 12mm/F1.4 Motorized		3.6mm/F2.0 Manual		2.7mm - 12mm/F1.4 Motorized		2.7mm - 12mm/F1.4 Motorized			
Horizontal Field of View	84°	56°	97° - 34°		99° - 34°		87°		93°	63°	92° - 28°		87°		94° - 33°		99° - 35°			
Min. Illumination	Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		Starlight Color: 0.006 Lux/F1.4, 0 Lux/F1.4 (IR on)		Color: 0.01 Lux/F1.4, 0 Lux/F1.4 (IR on)		Starlight Color: 0.009 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)		Color: 0.08 Lux/F2.0, 0 Lux/F2.0 (IR on)		Starlight Color: 0.005 Lux/F1.4, 0 Lux/F1.4 (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		True Day/Night		True Day/Night			
Wide Dynamic Range (WDR)	120dB		120dB		120dB		120dB		120dB		DWDR		120dB		140dB					
Max. IR Distance	130ft (40m)		164ft (50m)		164ft (50m)		130ft (40m)		130ft (40m)		98ft (30m)		130ft (40m)		164ft (50m)					
Video Compression	Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.264+, H.264, MJPEG		H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		H.265, H.264, MJPEG					
Max. Resolution	4MP (2688x1520)		1080p (1920x1080)		1080p (1920x1080)		1080p (1920x1080)		1080p (1920x1080)		3MP (2048x1536)		1.3MP (1280x960)		4MP (2688x1520)		3MP (2048x1536)		1080p (1920x1080)	
Frame Rate	20fps@4MP, 30fps@3MP		60fps@1080p		30fps@1080p		60fps@1080p		30fps@1080p		20fps@3MP, 30fps@1080p		30fps@1.3MP, 30fps@720p		30fps@4MP		30fps@3MP		30fps@1080p	
Multi-streaming	3 streams		3 streams		3 streams		3 streams		3 streams		2 streams		3 streams		3 streams					
Intelligent Video*	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		-		-		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map			
Compatibility	ONVIF (2.4), PSIA, CGI		ONVIF, PSIA, CGI		ONVIF (2.4), PSIA, CGI		ONVIF, PSIA, CGI		ONVIF (2.4), PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF (2.4), PSIA, CGI			
Audio In/Out	-		1/1		1/1		-		-		-		-		-		1/1			
Memory Slot	-		Micro SD, Max 128GB		Micro SD, Max 128GB		Micro SD, Max 128GB		-		Micro SD, Max 128GB		Micro SD, Max 128GB		Micro SD, Max 128GB		Micro SD, Max 128GB			
Alarm In/Out	-		2/1		2/1		-		-		-		-		-		2/1			
Environmental Protection	IP67		IP67		IP67		IP67		IP67		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, -40°F to 140°F w/Heater (-30°C to 60°C, -40°C to 60°C w/Heater)		-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	DC12V (±25%), PoE (802.3af), Max 6.0W		DC12V (±25%), PoE (802.3af), Max <11.5W		DC12V (±25%), PoE (802.3af), Max 11.5W		DC12V (±25%), PoE (802.3af), Max <6W		DC12V (±25%), PoE (802.3af), Max 6.0W		DC12V (±25%), PoE (802.3af), Max 7.5W		DC12V (±25%), PoE (802.3af), Max <6W		DC12V (±25%), PoE (802.3af), Max 11 W					






# IP CAMERAS

Bullet Cameras														
Model	DH-IPC-HFW44A1SN  Pro			DH-IPC-HFW13A0SN  Lite			DH-IPC-HFW42A1SN  Pro		DH-IPC-HFW11A0SN  Lite		DH-IPC-HFW13A0SN-W  Lite		DH-IPC-HFW11A0SN-W  Lite	
Image Sensor	1/3" 4MP CMOS			1/3" 3MP CMOS			1/2.7" 2MP CMOS		1/3" 1.3MP CMOS		1/3" 3MP CMOS		1/3" 1.3MP CMOS	
Lens	2.8mm/F2.0	3.6mm/F2.0	6mm/F2.0 Manual	2.8mm/F2.0	3.6mm/F2.0	6mm/F2.0	3.6mm/F2.0	6mm/F2.0 Manual	3.6mm/F2.0	2.8mm/F2.0	3.6mm/F2.0	2.8mm/F2.0	3.6mm/F2.0	
Horizontal Field of View	92°	84°	56°	92°	81°	55°	93°	63°	71°	100°	77°	92°	72°	
Min. Illumination	Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)			Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)			Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F2.0, 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)	120dB			DWDR			120dB		DWDR		DWDR		DWDR	
Max. IR Distance	98ft (30m)			98ft (30m)			98ft (30m)		98ft (30m)		98ft (30m)		98ft (30m)	
Video Compression	Smart H.264+, H.264, MJPEG			H.264, MJPEG			Smart H.264+, H.264, MJPEG		H.264, MJPEG		H.264, MJPEG		H.264, MJPEG	
Max. Resolution	4MP (2688x1520)			3MP (2048x1536)			1080p (1920x1080)		1.3MP (1280x960)		3MP (2304x1296)		1.3MP (1280x960)	
Frame Rate	20fps@4MP, 30fps@3MP			20fps@3MP, 30fps@1080p			30fps@1080p		30fps@1.3MP		20fps@3MP, 30fps@1080p		30fps@1.3MP	
Multi-streaming	3 streams			2 streams			3 streams		2 streams		2 streams		2 streams	
Intelligent Video	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection			-			Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		-		-		-	
Compatibility	ONVIF (2.4), PSIA, CGI			ONVIF, CGI			ONVIF (2.4), PSIA, CGI		ONVIF, CGI		ONVIF, CGI / Wi-Fi (IEEE802.11b/g/n) 50m (open field)		ONVIF, CGI / Wi-Fi (IEEE802.11b/g/n) 50m (open field)	
Audio In/Out	-			-			-		-		-		-	
Memory Slot	-			-			-		-		Micro SD, Max 128GB		Micro SD, Max 128GB	
Alarm In/Out	-			-			-		-		-		-	
Environmental Protection	IP67			IP67			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	DC12V (±25%), PoE (802.3af), Max 4.9W			DC12V (±25%), PoE (802.3af), Max 5W			DC12V (±25%), PoE (802.3af), Max 4.9W		DC12V (±25%), PoE (802.3af), Max 5W		DC12V, IR On Max. 5.5W (IR On)		DC12V, IR On Max. 5W (IR On)	

# IP CAMERAS






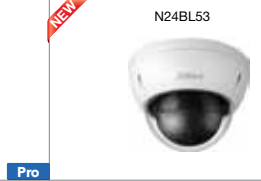
Dome Cameras								
Model	 <b>NEW</b> Ultra	 <b>NEW</b> Ultra	 <b>NEW</b> Ultra	 <b>NEW</b> Pro	 <b>NEW</b> Pro	 Pro	 Pro	 <b>NEW</b> Lite
<b>Image Sensor</b>	1/1.7" 12MP CMOS	1/2.5" UHD 4K (8MP) CMOS	1/1.8" 6MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS		1/3" 4MP CMOS	1/3" 4MP CMOS
<b>Lens</b>	4.1mm - 16.4mm Motorized	4mm/F1.6 Manual	4.1mm - 16.4mm/F1.53 Motorized	2.7mm - 12mm/F1.4 Motorized	2.8mm/F2.0 Manual	3.6mm/F2.0 Manual	2.7mm - 12mm/F1.4 Motorized	2.7mm - 12mm/F1.4 Motorized
<b>Horizontal Field of View</b>	105° - 35°	87°	106°	100° - 35°	104°	87°	100° - 33°	100° - 35°
<b>Min. Illumination</b>	Color: 0.02 Lux/F1.53, 0 Lux/F1.53 (IR on)	Color: 0.05 Lux/F1.6, 0 Lux/F1.6 (IR on)	Color: 0.02 Lux/F1.53, 0 Lux/F1.53 (IR on)	Color: 0.03 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.08 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)
<b>Day/Night</b>	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night		True Day/Night	True Day/Night
<b>Wide Dynamic Range (WDR)</b>	DWDR	DWDR	DWDR	120dB	120dB		120dB	120dB
<b>Max. IR Distance</b>	164ft (50m)	98ft (30m)	164ft (50m)	164ft (50m)	65ft (20m)		164ft (50m)	98ft (30m)
<b>Video Compression</b>	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.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG
<b>Max. Resolution</b>	12MP (4000 x 3000)	4K (8MP) (3840x2160)	6MP (3072 x 2048)	4MP (2688x1520)	4MP (2688x1520)		4MP (2688x1520)	4MP (2688 x 1520)
<b>Frame Rate</b>	20fps@12MP	15fps@4K 30fps@3MP	30fps@6MP	30fps@4MP	30fps@4MP		20fps@4MP, 30fps@3MP	20fps@4MP, 30fps@3MP
<b>Multi-streaming</b>	3 streams	3 streams	3 streams	3 streams	3 streams		3 streams	2 streams
<b>Intelligent Video</b>	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	—
<b>Compatibility</b>	ONVIF, PSIA, CGI	ONVIF (2.4), PSIA, CGI	ONVIF (2.4), PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI		ONVIF (2.4), PSIA, CGI	ONVIF, PSIA, CGI
<b>Audio In/Out</b>	1/1	1/1	1/1	1/1	1/1, Built-in Mic		1/1	—
<b>Memory Slot</b>	Micro SD card, 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
<b>Alarm In/Out</b>	2/1	2/1	2/1	1/1	1/1		1/1	—
<b>Environmental Protection</b>	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10		IP67, IK10	IP67, IK10
<b>Working Temperature</b>	-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)		-22°F to 140°F, -40°F to 140°F w/Heater (-30°C to 60°C, -40°C to 60°C w/Heater)	-22°F to 140°F (-30°C to 60°C)
<b>Power</b>	DC12V, AC24V, PoE+ (802.3af) < 18 W	DC12V, PoE (802.3af) < 5W	DC12 V, AC24V, PoE+ (802.3af) < 18 W	DC12V, AC24V, PoE (802.3af), Max <12.5W	DC12V (±25%), PoE (802.3af), Max < 4.5W		DC12V (±25%), PoE (802.3af), Max 10W	DC12V (±25%), PoE (802.3af), Max 9.75W

# IP CAMERAS






Dome Cameras											
<b>Model</b>	 DH-IPC-HDBW44A1EN-AS Pro			 N44BL52 N44BL53 Pro		 DH-IPC-HDBW23A0RN-ZS Pro		 DH-IPC-HDBW83A1FN-Z DH-IPC-HDBW82A1EN-Z Lite		 DH-IPC-HDBW13A0EN Ultra	
<b>Image Sensor</b>	1/3" 4MP CMOS			1/3" 4MP CMOS		1/3" 3MP CMOS		1/2.8" 3MP CMOS	1/2.8" 2MP CMOS	1/3" 3MP CMOS	
<b>Lens</b>	2.8mm/F2.0	3.6mm/F2.0	6mm/ F2.0 Manual	2.8mm/ F2.0 Manual	3.6mm/ F2.0 Manual	2.7mm - 12mm/F1.4 Motorized		2.7mm - 12mm/F1.4 Motorized		2.8mm/F2.0 Manual	3.6mm/F2.0 Manual
<b>Horizontal Field of View</b>	106°	83°	56°	87°	87°	92° - 28°		87° - 31°	99° - 36°	92°	81°
<b>Min. Illumination</b>	Color: 0. 01 Lux/F2.0, 0 Lux/F2.0 (IR on)			Color: 0.08 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)		Starlight Color: 0.005 Lux/F1.4, 0 Lux/F1.4 (IR on)		Color: 0.1 Lux/F2.0, 0 Lux/F2.0 (IR on)	
<b>Day/Night</b>	True Day/Night			True Day/Night		True Day/Night		True Day/Night		True Day/Night	
<b>Wide Dynamic Range (WDR)</b>	120dB			120dB		DWDR		140dB		DWDR	
<b>Max. IR Distance</b>	98ft (30m)			98ft (30m)		98ft (30m)		164ft (50m)		98ft (30m)	
<b>Video Compression</b>	Smart H.264+, H.264, MJPEG			Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		H.264, MJPEG		H.265, H.264, MJPEG		H.264, MJPEG	
<b>Max. Resolution</b>	4MP (2688x1520)			4MP (2688x1520)		3MP (2048x1536)		3MP (2048x1536)	1080p (1920x1080)	3MP (2048x1536)	
<b>Frame Rate</b>	20fps@4MP, 30fps@3MP			30fps@4MP		20fps@3MP, 30fps@1080p		30fps@3MP	30fps@1080p	20fps@3MP, 30fps@1080p	
<b>Multi-streaming</b>	3 streams			3 streams		2 streams		3 streams		2 streams	
<b>Intelligent Video</b>	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection			Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		-		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map		-	
<b>Compatibility</b>	ONVIF (2.4), PSIA, CGI			ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF (2.4), PSIA, CGI		ONVIF, CGI	
<b>Audio In/Out</b>	1/1			1/1		-		1/1		-	
<b>Memory Slot</b>	Micro SD, Max 128GB			Micro SD, Max 128GB		Micro SD, Max 128GB		Micro SD, Max 128GB		-	
<b>Alarm In/Out</b>	1/1			1/1		-		2/1		-	
<b>Environmental Protection</b>	IP67, IK10			IP67, IK10		IP67, IK10		IP67		IP67, IK10	
<b>Working Temperature</b>	-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)	
<b>Power</b>	DC12V (±25%), PoE (802.3af), Max 4.0W			DC12V (±25%), PoE (802.3af), Max <7.5W		DC12V (±25%), PoE (802.3af), Max 4.5W		DC12V (±25%), PoE (802.3af), Max 11 W		DC12V (±25%), PoE (802.3af), Max 4W	

# IP CAMERAS








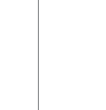
## Dome Cameras

Model	 N24BN52	 N24BN53	 N25BL5Z	 DH-IPC-HDBW52A1EN-Z	 N24BL52	 N24BL53
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Lens	2.8mm/ F2.0 Manual	3.6mm/ F2.0 Manual	2.7mm - 12mm/F1.4 Motorized	2.7mm - 12mm/F1.4 Motorized	2.8mm/ F2.0 Manual	3.6mm/ F2.0 Manual
Horizontal Field of View	110°	87°	97° - 34°	99° - 34°	110°	87°
Min. Illumination	Starlight Color: 0.009 Lux/F2.0, 0 Lux/F2.0 (IR on)	Starlight Color: 0.009 Lux/F2.0, 0 Lux/F2.0 (IR on)	Starlight Color: 0.006 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.01 Lux/F1.4, 0 Lux/F1.4 (IR on)	Starlight Color: 0.009 Lux/F2.0, 0 Lux/F2.0 (IR on)	Starlight Color: 0.009 Lux/F2.0, 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)	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	65ft (20m)	65ft (20m)	164ft (50m)	164ft (50m)	98ft (30m)	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.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
Max. Resolution	1080p (1920x1080)	1080p (1920x1080)	1080p (1920x1080)	1080p (1920x1080)	1080p (1920x1080)	1080p (1920x1080)
Frame Rate	60fps@1080p	60fps@1080p	60fps@1080p	30fps@1080p	60fps@1080p	60fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (2.4), PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Environmental Protection	IP67	IP67	IP67, IK10	IP67, IK10	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)	-22°F to 140°F, -40°F to 140°F w/ Heater (-30°C to 60°C, -40°C to 60°C w/ Heater)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V (±25%), PoE (802.3af), Max <4.5W	DC12V (±25%), PoE (802.3af), Max <4.5W	DC12V/AC24V, PoE (802.3af), Max <12.5W	DC12V (±25%), PoE (802.3af), Max 10W	DC12V (±25%), PoE (802.3af), Max <5W	DC12V (±25%), PoE (802.3af), Max <7.5W

# IP CAMERAS








	Dome Cameras					Dome WiFi Cameras				
<b>Model</b>	 DH-IPC-HDBW42A1EN-AS Pro		 DH-IPC-HDBW21A0RN-ZS Lite		 DH-IPC-HDBW11A0EN Lite		 DH-IPC-HDBW13A0EN-W Lite		 DH-IPC-HDBW11A0EN-W Lite	
<b>Image Sensor</b>	1/2.7" 2MP CMOS		1/3" 1.3MP CMOS		1/3" 1.3MP CMOS		1/3" 3MP CMOS		1/3" 1.3MP CMOS	
<b>Lens</b>	2.8mm/F2.0	3.6mm/F2.0	2.7mm - 12mm/F1.4, Motorized		2.8mm/F2.0, Manual	3.6mm/F2.0, Manual	2.8mm/F2.0	3.6mm/F2.0	2.8mm/F2.0	3.6mm/F2.0
<b>Horizontal Field of View</b>	120°	93°	92° - 28°		89°	71°	100°	77°	92°	72°
<b>Min. Illumination</b>	Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)		Color: 0.1 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.1 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.1 Lux/F2.0, 0 Lux/F2.0 (IR on)	
<b>Day/Night</b>	True Day/Night		True Day/Night		True Day/Night		True Day/Night		True Day/Night	
<b>Wide Dynamic Range (WDR)</b>	120dB		DWDR		DWDR		DWDR		DWDR	
<b>Max. IR Distance</b>	98ft (30m)		98ft (30m)		98ft (30m)		98ft (30m)		98ft (30m)	
<b>Video Compression</b>	Smart H.264+, H.264, MJPEG		H.264, MJPEG		H.264, MJPEG		H.264, MJPEG		H.264, MJPEG	
<b>Max. Resolution</b>	1080p (1920x1080)		1.3MP (1280x960)		1.3MP (1280x960)		3MP (2304x1296)		1.3MP (1280x960)	
<b>Frame Rate</b>	30fps@1080p		30fps@1.3MP, 30fps@720p		30fps@1.3MP		20fps@3MP, 30fps@1080p		30fps@1.3MP	
<b>Multi-streaming</b>	3 streams		2 streams		2 streams		2 streams		2 streams	
<b>Intelligent Video</b>	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		—		—		—		—	
<b>Compatibility</b>	ONVIF (2.4), PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, CGI		ONVIF, CGI / Wi-Fi (IEEE802.11b/g/n) 50m (open field)		ONVIF, CGI / Wi-Fi (IEEE802.11b/g/n) 50m (open field)	
<b>Audio In/Out</b>	1/1		—		—		—		—	
<b>Memory Slot</b>	Micro SD, Max 128GB		Micro SD, Max 128GB		—		Micro SD, Max 128GB		Micro SD, Max 128GB	
<b>Alarm In/Out</b>	1/1		—		—		—		—	
<b>Environmental Protection</b>	IP67, IK10		IP67, IK10		IP67, IK10		IP67, IK10		IP67, IK10	
<b>Working Temperature</b>	-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)	
<b>Power</b>	DC12V (±25%), PoE (802.3af), Max 4W		DC12V (±25%), PoE (802.3af), Max 4.5W		DC12V (±25%), PoE (802.3af), Max 4W		DC12V, IR On Max. 4.7W (IR On)		DC12V, IR On Max. 5.6W (IR On)	

# IP CAMERAS





Eyeball IP Cameras												
Model	N84BG44	<b>NEW</b> N42AH3Z	<b>NEW</b> N44BG52	<b>NEW</b> N44BG53	DH-IPC-HDW44A1EN			DH-IPC-HDW23A0RN-ZS	DH-IPC-HDW13A0SN		<b>NEW</b> N24BG52	<b>NEW</b> N24BG53
												
	Ultra	Pro	Pro	Pro	Pro	Lite	Lite	Pro				
Image Sensor	1/2.5" UHD 4K (8MP) CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS		1/3" 4MP CMOS			1/3" 3MP CMOS	1/3" 3MP CMOS		1/2.8" 2MP CMOS	
Lens	4mm/F1.6, Manual	2.7mm - 12mm/F1.4 Motorized	2.8mm/F2.0 Manual	3.6mm/F2.0 Manual	2.8mm/F2.0 Manual	3.6mm/F2.0 Manual	6mm/F2.0 Manual	2.7mm - 12mm/F1.4, Motorized	2.8mm/F2.0	3.6mm/F2.0	2.8mm/F2.0 Manual	3.6mm/F2.0 Manual
Horizontal Field of View	87°	100° - 35°	104°	87°	110°	81°	55°	92° - 28°	92°	81°	110°	87°
Min. Illumination	Color: 0.05 Lux/F1.6, 0 Lux/F1.6 (IR on)	Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.08 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)			Color: 0.1 Lux/F1.4, 0 Lux/F1.4 (IR on)	Color: 0.1 Lux/F2.0, 0 Lux/F2.0 (IR on)		Starlight Color: 0.009 Lux/F2.0, 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		True Day/Night	
Wide Dynamic Range (WDR)	DWDR	120dB	120dB		120dB			DWDR	DWDR		120dB	
Max. IR Distance	164ft (50m)	197ft (60m)	164ft (50m)		164ft (50m)			197ft (60m)	98ft (30m)		164ft (50m)	
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.264+, H.264, MJPEG			H.264, MJPEG	H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	
Max. Resolution	4K (8MP) (3840x2160)	4MP (2688 x 1520)	4MP (2688x1520)		4MP (2688x1520)			3MP (2048x1536)	3MP (2048x1536)		1080p (1920x1080)	
Frame Rate	15fps@4K 30fps@3MP	20fps@4MP, 30fps@3MP	30fps@4MP		20fps@4MP, 30fps@3MP			20fps@3MP, 30fps@1080p	20fps@3MP, 30fps@1080p		60fps@1080p	
Multi-streaming	3 streams	2 streams	3 streams		3 streams			2 streams	2 streams		3 streams	
Intelligent Video	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	—	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection			—	—		Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection	
Compatibility	ONVIF (2.4), PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI		ONVIF (2.4), PSIA, CGI			ONVIF, PSIA, CGI	ONVIF, CGI		ONVIF, PSIA, CGI	
Audio In/Out	Built-in Mic	—	Built-in Mic		—			—	—		Built-in Mic	
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB		—			Micro SD, Max 128GB	—		Micro SD, Max 128 GB	
Alarm In/Out	—	—	—		—			—	—		—	
Environmental Protection	IP67	IP67	IP67		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)		-22°F to 140°F (-30°C to 60°C)	
Power	DC12V, PoE (802.3af) < 5W	DC12V ±25%, PoE (802.3af), Max 9.75W	DC12V (±25%), PoE (802.3af), Max <5W		DC12V (±25%), PoE (802.3af), Max 4W			DC12V (±25%), PoE (802.3af), Max 7.5W	DC12V (±25%), PoE (802.3af), Max 4W		DC12V (±25%), PoE (802.3af), Max <5W	

















# IP CAMERAS

	Eyeball IP Cameras					Fisheye Cameras								
<b>Model</b>	DH-IPC-HDW42A1EN  Pro		DH-IPC-HDW11A0SN  Lite		DH-IPC-EBW812A0N  Ultra		DH-IPC-EBW86A0N  Ultra		DH-IPC-EBW8600N-IVC  Ultra		DH-IPC-EB55A0N  Pro	DH-IPC-EB54A0N  Pro		
<b>Image Sensor</b>	1/2.7" 2MP CMOS			1/3" 1.3MP CMOS		1/2.3" 12MP CMOS		1/1.8" 6MP CMOS		1/1.8" 6MP CMOS		1/3" 5MP CMOS	1/3" 4MP CMOS	
<b>Lens</b>	2.8mm/ F2.0 Manual	3.6mm/ F2.0 Manual	6mm/ F2.0 Manual	2.8mm/ F2.0	3.6mm/F2.0		1.57mm/F2.2, Manual		1.55mm/F2.0, Manual		1.3mm/F2.8, Manual		1.42mm/F2.0, Manual	1.18mm/F2.0, Manual
<b>Horizontal Field of View</b>	110°	81°	55°	89°	71°		185°		185°		180° / 360°		180°	180°
<b>Min. Illumination</b>	Color: 0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)			Color: 0.1 Lux/F2.0, 0 Lux/F2.0 (IR on)		Color: 0.01 Lux/F2.2, 0 Lux/F2.2 (IR on)		Color: 0.01 Lux/F2.2, 0 Lux/F2.2 (IR on)		Color: 0.01 Lux/F2.8, 0 Lux/F2.8 (IR on)		Color: 0.01 Lux/F2.6		Color: 0.01 Lux/F2.0
<b>Day/Night</b>	True Day/Night			True Day/Night		True Day/Night		True Day/Night		True Day/Night		Electronic D/N		Electronic D/N
<b>Wide Dynamic Range (WDR)</b>	120dB			DWDR		DWDR		DWDR		DWDR		DWDR		DWDR
<b>Max. IR Distance</b>	164ft (50m)			98ft (30m)		33ft (10m)		33ft (10m)		33ft (10m)		—		—
<b>Video Compression</b>	Smart H.264+, H.264, MJPEG			H.264, MJPEG		H.264, MJPEG		H.264, MJPEG		H.264, MJPEG		H.264 / MJPEG		H.264, MJPEG
<b>Max Resolution</b>	1080p (1920x1080)			1.3MP (1280x960)		12MP (4000x3000)		6MP (3072x2048)		6MP (3072x2048)		5MP (2592x1944)		4MP (2592x1520)
<b>Frame Rate</b>	30fps@1080p			30fps@1.3MP		15fps@12MP, 30fps@8MP		30fps@6MP		30fps@6MP		12fps@5MP, 30fps@UXGA		15fps@4MP, 30fps@UXGA
<b>Multi-Streaming</b>	3 streams			2 streams		2 streams		2 streams		3 streams		3 streams		3 streams
<b>Intelligent Video</b>	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection			—		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map
<b>DeWarp Mode</b>	—			—		Original, Panoramic, Double Panoramic, 1+3, Eptz, 4 pictures		Original, Panoramic, Double Panoramic, 1+3, Eptz, 4 pictures		Original, Panoramic, Double Panoramic, 1+3, Eptz, 4 pictures (ImmerVision Enables)		Original, Panoramic, Double Panoramic, 1+3, Eptz, 4 pictures		Original, Panoramic, Double Panoramic, 1+3, Eptz, 4 pictures
<b>Compatibility</b>	ONVIF (2.4), PSIA, CGI			ONVIF, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI		ONVIF, PSIA, CGI
<b>Audio In/Out</b>	—			—		1/1, Built-in Mic		1/1, Built-in Mic		1/1, Built-in Mic		1/1 Built-in Mic		1/1 Built-in Mic
<b>Memory Slot</b>	—			—		Micro SD, Max 64GB		Micro SD, Max 64GB		Micro SD, Max 64GB		Micro SD, Max 64GB		Micro SD, Max 64GB
<b>Alarm In/Out</b>	—			—		2/1		2/1		2/1		1/1		1/1
<b>Environmental Protection</b>	IP67			IP67		IP67, IK10		IP67, IK10		IP67, IK10		IK10		IK10
<b>Working Temperature</b>	-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)		-22°F to 140°F (-30°C to 60°C)
<b>Power</b>	DC12V (±25%), PoE (802.3af), Max 4W			DC12V (±25%), PoE (802.3af), Max 4W		DC12V (±25%), PoE (802.3af) Max 13W		DC12V (±25%), PoE (802.3af) Max 11W		DC12V (±25%), PoE (802.3af) Max 13W		DC12V (±25%), PoE (802.3af), Max 6W		DC12V (±25%), PoE (802.3af), Max 6W

## Multi-Sensor Cameras








Model	 DH-PSD81602N-A360	 DH-IPC-PFW8800N-A180	 DH-IPC-PFW8601N-H-A180	 DH-IPC-PDBW8800N-A180
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)
Lens	Panoramic: 5mm/F2.2, PTZ: 5.5mm - 206mm/F1.5, Motorized	3.0mm/F2.0, Manual	3.6mm/F1.8, Manual	3.0mm/F2.0, Fixed
Horizontal Field of View	Panoramic: 360° PTZ: 65.8° to 2.0°	180°	180°	180°
Min. Illumination	Starlight Panoramic: 0.005 Lux/F2.2 (Color) PTZ: 0.002 Lux/F1.5 (Color)	Starlight Color: 0.007 Lux at F2.0 (1/3 s, 30 IRE) Color: 0.05 Lux at F2.0 (1/30 s, 30 IRE) 0 Lux at F2.0 (IR on)	Starlight Color: 0.007 Lux/F1.8 0 Lux/F1.8 (IR on)	Starlight Color: 0.007 Lux at F2.0 (1/3 s, 30 IRE) Color: 0.05 Lux at F2.0 (1/30 s, 30 IRE) 0 Lux at F2.0 (IR on)
Wide Dynamic Range (WDR)	DWDR	DWDR	120dB	DWDR
Max. IR Distance	—	98ft (30m)	98ft (30m)	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
Max. Resolution	Panoramic: 2 x 4096x1800 PTZ: 1080p (1920x1080)	2MP per Sensor (4 sensors total)	2MP per Sensor (3 sensors total)	4096x1800
Frame Rate	Panoramic: 30fps@2 x 4096x1800 PTZ: 30fps@1080p	25fps@4096x1800 total output	30fps@4096x832 total output	25fps@4096x1800 total output
Multi-streaming	3 streams	3 streams	3 streams	3 streams
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°	—	—
Preset Speed	Pan: 0.1° /s to 240° /s Tilt: 0.1° /s to 120° /s	—	—	—
Intelligent Video	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map, E-PTZ	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S&G, PSIA, CGI	ONVIF Profile S&G, 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	7/2	2/2	1/1 Built-in Mic	2/2
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-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)	-40°F to 140°F (-40°C to 60°C)
Power	DC36V, < 120W	AC24V, PoE+ (802.3at), Max 25.5W	AC24V, PoE+ (802.3at), Max 24W	AC24V, PoE + (802.3at), < 25.5W

## Ultra PTZ Network Cameras

Model	 6AE830VNI	 6AE530UNI	 DH-SD6ALA230FN-HNI	 DH-SD6AEA230FN-HNI	 59430UNI	 59230UNI	 49225TNI
	 Ultra	 Ultra	 Ultra	 Ultra	 Pro	 Pro	 Lite
<b>Image Sensor</b>	1/1.7" 4K (8MP) CMOS	1/1.9" 5MP CMOS	1/1.9" 2MP CMOS	1/1.9" 2MP CMOS	1/3" 4MP CMOS	1.28" 2MP CMOS	1/2.8" 2MP CMOS
<b>Lens</b>	6mm - 180mm (30x Optical Zoom)	6mm - 180mm (30x Optical Zoom)	6mm - 180mm (30x Optical Zoom)	6mm - 180mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.8mm - 120mm (30x Optical Zoom)
<b>Horizontal Field of View</b>	61.2° - 2.3°	61.2° - 2.1°	61.2° - 2.3°	61.2° - 2.1°	60° - 2.2°	67.8° - 2.4°	59.2° - 2.4°
<b>Min. Illumination</b>	Color: 0.05 Lux@F1.6 B/W: 0 Lux@F1.6 0 Lux (IR on)	Color: 0.01 Lux@F1.5 B/W: 0 Lux@F1.5 0 Lux (IR on)	Starlight Color: 0.005 Lux/F1.6, 0 Lux/F1.6 (IR on)	Starlight Color: 0.002 Lux/F1.6, 0 Lux/F1.6 (IR on)	Color: 0.05 Lux/F1.6, B/W: 0.005 Lux/F1.6	Starlight Color: 0.005 Lux/F1.6, 0 Lux/F1.6 (IR on)	Starlight Color: 0.005 Lux/F1.6; 0 Lux/F1.6 (IR on)
<b>Wide Dynamic Range (WDR)</b>	DWDR	DWDR	120dB	120dB	120dB	120dB	120dB
<b>Max. IR Distance</b>	656ft (200m)	656ft (200m)	1,640ft (500m)	656ft (200m)	328ft (100m)	492ft (150m)	328ft (100m)
<b>Video Compression</b>	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
<b>Max. Resolution</b>	3840 (H) x 2160 (V), 4K (8MP)	2560 (H) x 1920 (V), 5MP	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4MP	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p
<b>Frame Rate</b>	30fps@4K (8MP)	30fps@5MP, 60fps@1080p	30fps@1080p, 60fps@720p	30fps@1080p, 60fps@720p	30fps@4MP, 3MP or 60fps@1080p, 1.3MP, 720p*	60fps@1080p, 60fps@720p	60fps@1080p, 60fps@720p
<b>Multi-streaming</b>	2 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
<b>Pan/Tilt/Zoom</b>	300 Presets, Pan: 0° - 360° endless; Tilt: -10° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -20° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -10° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -20° - 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°
<b>Preset Speed</b>	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s
<b>Intelligent Video</b>	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, Heat Map, Auto- tracking	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, Heat Map, Auto- tracking	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, Heat Map, Auto- tracking	Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Auto-tracking	Tripwire, Intrusion, Abandoned/ Missing, Face Detection
<b>Compatibility</b>	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
<b>Audio In/Out</b>	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<b>Memory Slot</b>	Micro SD, Max 64GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
<b>Alarm In/Out</b>	7/2	7/2	7/2	7/2	2/1	2/1	2/1
<b>Environmental Protection</b>	IP67, IK10	IP67, IK10	IP67	IP67, IK10	IP66	IP66	IP66
<b>Working Temperature</b>	-40°F to 158°F (-30°C to 60°C)	-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)	-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)
<b>Power</b>	DC12V, PoE (802.3af)	AC24V/3A (±25%), High PoE	AC24V/1.5A (±10%), PoE+ (802.3at)	AC24V/1.5A (±25%), PoE+ (802.3at)	AC24V, PoE+ (802.3at)	AC24V, PoE+ (802.3at)	DC12V, PoE+ (802.3at)








# IP CAMERAS

## Pro PTZ Network Cameras

Model	DH-SD59A230TN-HNI	DH-SD40A212TN-HNI	6C430UNI	DH-SD6CA230TN-HNI	NEW 50430UNI	NEW 50230UNI-A	DH-SD50A230TN-HNI
 <b>Pro</b>	 <b>Pro</b>	 <b>Pro</b>	 <b>Pro</b>	 <b>Pro</b>	 <b>Pro</b>	 <b>Pro</b>	
<b>Image Sensor</b>	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
<b>Lens</b>	4.5mm - 135mm (30x Optical Zoom)	5.1mm - 61.2mm (12x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)
<b>Horizontal Field of View</b>	67.8° - 2.77°	59.3° - 5.4°	60° - 2.2°	67.8° - 2.77°	60° - 2.2°	67.8° - 2.4°	67.8° - 2.8°
<b>Min. Illumination</b>	Color: 0.05 Lux/F1.6, 0 Lux/1.6 (IR on)	Color: 0.05 Lux/F1.6, B/W: 0.005 Lux/F1.6	Color: 0.05 Lux/F1.6, 0 Lux/1.6 (IR on)	Color: 0.05 Lux/F1.6, 0 Lux/1.6 (IR on)	Color: 0.05 Lux/F1.6, 0 Lux/1.6 (IR on)	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
<b>Wide Dynamic Range (WDR)</b>	DWDR	120dB	120dB	DWDR	120dB	120dB	DWDR
<b>Max. IR Distance</b>	328ft (100m)	—	492ft (150m)	328ft (100m)	—	—	—
<b>Video Compression</b>	H.264, MJPEG	H.264, MJPEG	H.265, H.264, MJPEG	H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.264, MJPEG
<b>Max. Resolution</b>	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4MP	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4MP	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p
<b>Frame Rate</b>	30fps@1080p, 60fps@720p	30fp@1080p, 60fps@720p	30fps@ 4MP, 3MP or 60fps@1080p, 1.3MP, 720p	30fps@1080p, 60fps@720p	30fps@ 4MP, 3MP or 60fps@1080p, 1.3MP, 720p	30fps@1080p, 60fps@720p	30fps@1080p, 60fps@720p
<b>Multi-streaming</b>	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
<b>Pan/Tilt/Zoom</b>	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: -15° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -15° - 90°, Auto Flip 180°	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: 0° - 90°, Auto Flip 180°
<b>Preset Speed</b>	Pan: 400° /s; Tilt: 300° /s	Pan: 300°/s; Tilt:200°/s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s
<b>Intelligent Video</b>	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, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Auto-tracking	Tripwire, Intrusion, Abandoned/ Missing, Face Detection
<b>Compatibility</b>	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
<b>Audio In/Out</b>	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<b>Memory Slot</b>	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
<b>Alarm In/Out</b>	2/1	2/1	2/1	2/1	2/1	2/1	2/1
<b>Environmental Protection</b>	IP66	IP66, IK10	IP66	IP66	IP67, IK10	IK10	IP67, IK10
<b>Working Temperature</b>	-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)	-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)	-40°F to 158°F (-40°C to 70°C)
<b>Power</b>	AC24V, PoE+ (802.3at)	AC24V, PoE+ (802.3at)	AC24V, 3 A (±10%)	AC24V	AC24V, PoE+ (802.3at)	AC24V (± 10%), PoE+ (802.3at)	AC24V, PoE+ (802.3at)

# IP CAMERAS

## PTZ Network Cameras

Model	DH-SD42A212TN-HNI  Pro	<b>NEW</b> 52C430UNI  Pro	<b>NEW</b> 52C230UNI-A  Pro	DH-SD42CA212TN-HNI  Pro	DH-SD22A204TN-GNI  Lite	DH-SD29A204SN-GNI  Lite	DH-SD22A204TN-GNI-W  Lite
Image Sensor	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
Lens	5.1 - 61.2mm (12x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	5.1 - 61.2mm (12x Optical Zoom)	2.7 - 11mm (4x Optical Zoom)	2.7 - 11mm (4x Optical Zoom)	2.7 - 11mm (4x Optical Zoom)
Horizontal Field of View	59.3° - 5.2°	60° - 2.2°	67.8° - 2.4°	59.3° - 5.2°	112.5° - 39°	112.5° - 39°	112.5° - 39°
Min. Illumination	Color: 0.05 Lux/F1.6, B/W: 0.005 Lux/F1.6	Color: 0.05 Lux/F1.6, B/W: 0.005 Lux/F1.6	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	Color: 0.05 Lux/F1.6 B/W: 0.005 Lux/F1.6	Color: 0.05 Lux/F1.6, 0 Lux/F1.6 (IR on)	Color: 0.05 Lux/F1.6, 0 Lux/F1.6 (IR on)
Wide Dynamic Range (WDR)	120dB	120dB	120dB	120dB	120dB	DWDR	120dB
Max. IR Distance	—	—	—	—	—	30m (98ft)	—
Video Compression	H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
Max. Resolution	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4 MP	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p
Frame Rate	30fps@1080p, 60fps@720p	30fps@4MP, 60fps@1080p	60fps@1080p, 60fps@720p	30fps@1080p, 60fps@720p	30fps@1080p, 60fps@720p	30fps@1080p, 60fps@720p	30fps@1080p, 60fps@720p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	2 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° - 360° Endless, Tilt: -2° - 90°, Auto Flip 180°	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° - 360°, Limited; Tilt: 0° - 90°	300 Presets, Pan: 0° - 355°; Tilt: 0° - 90°, Auto Flip 180°
Preset Speed	Pan: 300°/s; Tilt: 200°/s	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: 100° /s; Tilt: 60° /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, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, 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	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	ONVIF, PSIA, CGI / Wi-Fi (IEEE802.11b/g/n) 50m (open field)
Audio In/Out	1/1	1/1	1/1	1/1	—	Built-in Mic	—
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	—	—	—
Environmental Protection	IP66, IK10	IK10	IK10	IK10	IP66, IK10	—	IP66, 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)	-4°F ~ +140°F (-20°C ~ +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, 1.5A (±10%), PoE+ (802.3af)	AC24V, 1.5A (±10%), PoE+ (802.3af)	AC24V, 1.5A (±10%), PoE (802.3af)	AC24V, 1.5A (±10%), PoE+ (802.3af)	DC12V, PoE (802.3af)	DC12V, PoE (802.3af)	DC12V, PoE (802.3af)

# NETWORK VIDEO RECORDERS








Model	 DHI-NVR7A24DR-256 <small>Ultra</small>	 DHI-NVR6A16DR-128-4KS2 <small>Ultra</small>	 DHI-NVR6A08-128-4KS2 <small>Ultra</small>	 DHI-NVR6A08-64-4KS2 <small>Ultra</small>	 DHI-NVR6A08-32-4KS2 <small>Ultra</small>	 N54A4P <small>Pro</small>
<b>Video Compression</b>	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4
<b>IP Video Inputs</b>	256 CH	128 CH	128 CH	64 CH	32 CH	24 CH
<b>Max Input/Record</b>	512Mbps / 512Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	320Mbps / 320Mbps
<b>Max Decoding</b>	20ch@1080p	4ch@4K (8MP) / 16ch@1080p	4ch@4K (8MP) / 16ch@1080p	4ch@4K (8MP) / 16ch@1080p	16ch@1080p	24ch@12MP
<b>Display</b>	2 HDMI, 1 VGA, 1 LCD	2 HDMI, 1 VGA, 1 LCD	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA
<b>Max HDD</b>	24 HDD Up to 240TB	16 HDD Up to 160TB	8 HDD Up to 80TB	8 HDD Up to 80TB	8 HDD Up to 80TB	4 HDD Up to 8TB
<b>RAID</b>	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	-
<b>eSATA/Mini SAS</b>	1/2	1/1	1/0	1/-	1/0	1/-
<b>Audio In/Out</b>	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
<b>Alarm In/Out</b>	4/4	16/8	16/8	16/8	16/8	16/6
<b>Ethernet</b>	4 Gigabit Ports	4 Gigabit Ports, 2 Gigabit Fiber Optical Interfaces	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports
<b>PoE</b>	-	-	-	-	-	24 ports (IEEE802.3af/at)
<b>USB</b>	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	2 USB 3.0, 1 USB 2.0
<b>Power</b>	AC 100V-240V, Redundant, 200-400W (without HDD)	AC100V-240V, Redundant, <55W (without HDD)	AC100V-240V, <18W (without HDD)	AC100V-240V, <18W(without HDD)	AC100V-240V, <18W (without HDD)	AC100V-240V, 50/60 Hz <18W (without HDD)
<b>Key Features</b>	IVS, Fisheye Dewarp, N+M	IVS, Fisheye Dewarp, N+M	IVS, Fisheye Dewarp, N+M	IVS, Fisheye Dewarp, N+M	IVS, Fisheye Dewarp, N+M	IVS, Business Analytics, IPC UPnP, Fisheye Dewarp, POS, N+M

# NETWORK VIDEO RECORDERS

Model	 N52A4P <span style="color:red">NEW</span>	 DHI-NVR58A32-4KS2 <span style="color:red">NEW</span>				
	Pro	Pro	Pro	Pro	Pro	Pro
<b>Video Compression</b>	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
<b>IP Video Inputs</b>	24CH	32CH	16CH	16CH	16CH	8CH
<b>Max Input/Record</b>	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps
<b>Max Decoding</b>	24ch@12MP	4CH@4K (8MP) / 16CH@1080p	4CH@4K (8MP) / 16CH@1080p	4CH@4K (8MP) / 16CH@1080p	4CH@4K (8MP) / 16CH@1080p	4CH@4K (8MP) / 8CH@1080p
<b>Display</b>	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	1 HDMI, 1 VGA
<b>Max HDD</b>	2 HDD Up to 6TB	8 HDD Up to 80TB	8 HDD Up to 80TB	4 HDD Up to 40TB	4 HDD Up to 40TB	2 HDD Up to 20TB
<b>RAID</b>	—	0/1/5/6/10	0/1/5/6/10	—	—	—
<b>eSATA/Mini SAS</b>	—	1/—	1/—	1/—	1/—	—
<b>Audio In/Out</b>	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
<b>Alarm In/Out</b>	4/2	16/6	16/6	16/6	16/6	4/2
<b>Ethernet</b>	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
<b>PoE</b>	24 Ports (IEEE802.3af/at)	—	16 Ports (IEEE802.3at/af), 150W	16 Ports (IEEE802.3at/af), 150W	16 Ports (IEEE802.3at/af), 150W	8 Ports (IEEE802.3at/af), 120W
<b>USB</b>	1 USB 3.0, 1 USB 2.0	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 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0
<b>Power</b>	AC100V-240V, 50/60 Hz <16W (without HDD)	AC100V-240V, <16.7W (without HDD)	AC100V-240V, <17.5W (without HDD)	AC100V-240V, <17.5W (without HDD)	AC100V-240V, <17.5W (without HDD)	AC100V-240V, <15.2W (without HDD)
<b>Key Features</b>	IVS, Business Analytics, IPC UPnP, Fisheye Dewarp, POS, N+M	Fisheye Dewarp, IVS, P2P	Plug & Play, P2P, IVS, Fisheye Dewarp	Plug & Play, P2P, IVS, Fisheye Dewarp	Plug & Play, P2P, IVS, Fisheye Dewarp	Fisheye Dewarp, Plug & Play, P2P, IVS










# NETWORK VIDEO RECORDERS










Model	 N42B3P	 N42B2P	 N42B1P	 DHI-NVR42A16-16P	 DHI-NVR42A08-8P	 DHI-NVR42A04-P	 DHI-NVR4104HS-W-S2
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	H.264, MJPEG
IP Video Inputs	16CH / 32CH	8CH	4CH	16CH	8CH	4CH	4CH
Max Input/Record	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	80Mbps / 80Mbps
Max Decoding	16/32CH@4K (8MP)	8CH@4K (8MP)	4CH@4K (8MP)	4CH@4MP / 8CH@1080p	4CH@4MP / 8CH@1080p	4CH@4MP / 4CH@1080p	4CH@5MP / 4CH@1080p
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	1 HDMI, 1 VGA
Max HDD	2 HDD x Up to 6TB	2 HDD x Up to 6TB	2 HDD x Up to 6TB	2 HDD Up to 20TB	2 HDD Up to 20TB	2 HDD Up to 20TB	1 HDD Up to 10TB
RAID	—	—	—	—	—	—	—
eSATA/Mini SAS	—	—	—	—	—	—	Supports 1 SATA HDD up to 4TB
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	4/2	4/2	4/2	—
Ethernet	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	Supports three-antennas for a strengthened WiFi signal
PoE	16 Ports (IEEE802.3at/af), 130W	8 Ports (IEEE802.3at/af), 80W	4 Ports (IEEE802.3at/af), 50W	16 Ports (IEEE802.3at/af), 130W	8 Ports (IEEE802.3at/af), 120W	4 Ports (IEEE802.3at/af) 50W	—
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	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)	AC 100V-240V, <20W (without HDD)	AC100V-240V, <20W (without HDD)	DC12V, 4A for NVR DC48V, 1.05A for PoE <20W (without HDD)	DC12V, 2A 10W (without HDD)
Key Features	IPC UPnP, IVS, Business Analytics, PoE, ANR,	IPC UPnP, IVS, Business Analytics, PoE, ANR,	IPC UPnP, IVS, Business Analytics, PoE, ANR,	Plug & Play, P2P	Plug & Play, P2P	Plug & Play, P2P	Plug & Play, P2P

# HDCVI CAMERAS

## Fixed IR HDCVI Cameras

Model	 A83AA9	 A83ABBZ	 A42AB2x	 DH-HAC-HFW32A1EN-Z	 A21BB0x	 DH-HAC-HFW22A1EN	 A83ALBZ	 A42AM2Z
Image Sensor	TBD	1/2" 4K (8MP) CMOS	1/3" 4.1MP CMOS	1/2.8" 2MP CMOS	1/2.9" 2MP CMOS	1/2.7" 2MP CMOS	1/2" 4K (8MP) CMOS	1/3" 4MP CMOS
Min. Illumination	Starlight Color: 0.0012 Lux/F1.2 0.0001 Lux/F1.2 (B/W)	0.0012 Lux/F1.5 0 Lux (IR on)	0.03 Lux/F1.5 0 Lux (IR on)	Starlight Color: 0.005 Lux/F1.4 0 Lux (IR on)	0.01 Lux/F2.0 0 Lux (IR on)	0.03 Lux/F2.0 0 Lux (IR on)	0.0012 Lux/F1.5 0 Lux (IR on)	0.01 Lux/F1.3 0 Lux (IR on)
Lens	Sold Separately	3.7mm – 11mm, Motorized, Auto Iris	3.6mm (A42AB23), 2.8mm (A42AB22)	2.7mm – 12mm, Motorized, Auto Iris	2.8mm (A21BB02) 3.6mm (A21BB03)	3.6mm 6mm 8mm	3.7mm – 11mm, Motorized, Auto Iris	2.7mm – 12mm, Motorized
Horizontal Field of View	—	46° – 112°	78°	95° – 36°	51.2° 82.8°	90° 59.4° 41.4°	46° – 112°	98° – 26°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Max. IR Distance	—	328ft (100m)	130ft (40m)	328ft (100m)	130ft (40m)	130ft (40m)	164ft (50m)	98ft (30m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	140dB	120dB	120dB	120dB	DWDR	120dB	120dB	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D	2D/3D	2D/3D	2D/3D
Frame Rate	15fps@4K (8MP)	15fps@4K (8MP)	25fps@4MP	30fps@1080p 30/60fps@720p	30fps@1080p	30fps@1080p 30/60fps@720p	15fps@4K (8MP)	25fps@4 MP 30fps@1080p 30fps@720p
Video Output	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	HD/SD Dual-output	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology	HD/SD Dual-output	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel
Audio In/Out	—	1 Input	—	1	—	—	1 Input	—
Alarm In/Out	—	2/1	—	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° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°
Environmental Protection	—	IP67, IK10	IP67	IP67, IK10	IP67	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)	-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 (±25%), DC12V (±25%) Max 9W	AC24V (±25%), DC12V (±25%) Max 7W	DC12V (±25%) Max 7W	AC24V (±25%), DC12V (±25%) Max 16.6W	DC12V (±25%)	DC12V (±25%) Max 5.5W	AC24V (±25%), DC12V (±25%)	AC24V (±25%), DC12V (±25%) Max 10.1W








# HDCVI CAMERAS

Fixed IR HDCVI Cameras										
Model	 <b>NEW</b> A42AL2x <b>Pro</b>	 DH-HAC-HDBW32A1EN-Z <b>Ultra</b>	 DH-HAC-HDBW22A1RN-Z <b>Pro</b>	 DH-HAC-HDBW12A0RN-VF <b>Lite</b>	 DH-HAC-HDBW22A1EN <b>Pro</b>	 DH-HAC-HDBW12A0EN <b>Lite</b>	 <b>NEW</b> A21BL0x <b>Lite</b>	 <b>NEW</b> A42AC2Z <b>Pro</b>	 DH-HAC-HFW22A1RN-Z <b>Pro</b>	
Image Sensor	1/3" 4.1MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2.1MP CMOS	1/2.7" 2MP CMOS	1/2.9" 2MP CMOS	1/3" 4MP CMOS	1/2.7" 2MP CMOS	
Min. Illumination	0.03 Lux/F1.5 0 Lux (IR on)	Starlight 0.005 Lux/F1.4 0 Lux (IR on)	0.03 Lux/F1.4 0 Lux (IR on)	0.02 Lux/F1.4 0 Lux (IR on)	0.03 Lux/F2.0 0 Lux (IR on)	0.02 Lux/F1.4 0 Lux (IR on)	0.02 Lux/F2.0 0 Lux (IR on)	0.03 Lux/F1.8 0 Lux (IR on)	0.03 Lux/F1.4 0 Lux (IR on)	
Lens	3.6mm (A42AL23), 2.8mm (A42AL22)	2.7mm – 12mm, Motorized, Auto Iris	2.7mm – 12mm, Motorized	2.7mm – 12mm, Manual	2.8mm 3.6mm 6mm	2.8mm 3.6mm 6mm	2.8mm (A21BL02) 3.6mm (A21BL03)	2.7mm – 12mm, Motorized		
Horizontal Field of View	79°	95° – 36°	99° – 37°	99° – 37°	115.6° 90° 59.4°	115.6° 89.9° 59.4°	106° 82.8°	98° – 26°	99° – 37°	
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night		
Max. IR Distance	98ft (30m)	164ft (50m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	197ft (60m)		
OSD Menu	Multi-language	Multi-language	Multi-language	–	Multi-language	–	Multi-language	Multi-language		
Wide Dynamic Range (WDR)	120dB	120dB	120dB	–	120dB	–	DWDR	120dB		
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D/3D	2D	2D	2D/3D		
Frame Rate	25fps@4MP	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p	30fps@1080p 30/60fps@720p	30fps@1080p	30fps@1080p	30fps@4MP 30fps@1080p	30fps@1080p 30/60fps@720p	
Video Output	HD/SD Dual-output	HD/SD Dual-output, SD Tester-out	HD/SD Dual-output, SD Tester-out	HD	HD/SD Dual-output, SD Tester-out	HD	HD	HD/SD Dual-output		
Audio In/Out	–	1	–	–	–	–	–	–		
Alarm In/Out	–	1/1	–	–	–	–	–	–		
Pan/Tilt/Rotation	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 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°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 360° Tilt: 0° – 87° Rotation: 0° – 360°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 360°	
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	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)	-40°F to 158°F (-40°C to 70°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 (±25%) Max 4.8W	AC24V (±25%), DC12V (±25%) Max 12.5W	DC12V (±25%) Max 5W	AC24V	DC12V (±25%) Max 4.5W	DC12V (±20%) Max 3.5W	DC12V (±25%)	DC12V (±25%)	DC12V (±25%) Max 8.2W	

# HDCVI CAMERAS

















	Lite Fixed IR HDCVI Cameras			Eyeball HDCVI Cameras			
Model	DH-HAC-HFW12A0RN-VF  <b>Lite</b>	DH-HAC-HFW12A0SN  <b>Lite</b>	<b>NEW</b> A42AH2Z  <b>Pro</b>	<b>NEW</b> A42AG2x  <b>Pro</b>	DH-HAC-HDW22A1EN-Z  <b>Pro</b>	DH-HAC-HDW22A1RN-Z  <b>Pro</b>	DH-HAC-HDW12A0RN-VF  <b>Lite</b>
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/3" 4MP CMOS	1/3" 4.1MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Min. Illumination	0.02 Lux/F1.4 0 Lux (IR on)	0.02 Lux/F2.0 0 Lux (IR on)	0.01 Lux/F1.3 0 Lux (IR on)	0.03 Lux/F1.5 0 Lux (IR on)	0.03 Lux/F2.0 0 Lux (IR on)	0.03 Lux/F1.4 0 Lux (IR on)	0.02 Lux/F1.4 0 Lux (IR on)
Lens	2.7mm – 12mm, Manual	3.6mm 6mm	2.7mm – 12mm, Motorized	3.6mm (A42AG23), 2.8mm (A42AG22)	2.8mm 3.6mm 6mm	2.7mm – 12mm, Motorized	2.7mm – 12mm, Manual
Horizontal Field of View	99° – 37°	89.9° 59.4°	98° – 26°	78°	115.6° 90° 59.4°	99° – 37°	99° – 37°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Max. IR Distance	98ft (30m)	98ft (30m)	197ft (60m)	164ft (50m)	164ft (50m)	197ft (60m)	98ft (30m)
OSD Menu	—	—	Multi-language	Multi-language	Multi-language	Multi-language	—
Wide Dynamic Range (WDR)	—	—	120dB	120dB	120dB	120dB	—
Noise Reduction	2D	2D	2D/3D	2D/3D	2D/3D	2D/3D	2D
Frame Rate	30fps@1080p	30fps@1080p	25fps@4 MP 30fps@1080p 30fps@720p	25fps@4MP	30fps@1080p	30fps@1080p 30/60fps@720p	30fps@1080p
Video Output	HD	HD	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel	HD/SD Dual-output	HD/SD Dual-output,	HD/SD Dual-output	HD
Pan/Tilt/Zoom	Pan: 0° – 360° Tilt: 0° – 87° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° 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° – 70° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 67° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°
Preset Speed	—	—	—	—	—	—	—
Audio In/Out	—	—	—	—	—	—	—
Alarm In/Out	—	—	—	—	—	—	—
Environmental Protection	IP67	IP67	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)	-22°F to 140°F (-30°C to 60°C)	-40°C to 60°C (-40°F to 140°F)
Power	AC24V**	DC12V (±20%) Max 3.6W	AC24V (±25%), DC12V (±25%) Max 11.6W	DC12V (±20%) Max 6.1W	DC12V (±25%) Max 5.5W	DC12V (±25%) Max 10W	AC24V**

# HDCVI CAMERAS








	HDCVI Lite Eyeball Cameras				Panoramic and PTZ HDCVI Cameras									
Model	DH-HAC-HDW12A0EN  <small>Lite</small>		NEW A21BG0x  <small>Lite</small>		NEW A83ARA  <small>Ultra</small>		NEW A42AR2  <small>Pro</small>		NEW DH-HAC-PFW3601  <small>Ultra</small>		NEW 6C430IC  <small>Pro</small>		NEW 59430IC  <small>Pro</small>	
Image Sensor	1/2.7" 2MP CMOS		1/2.9" 2MP CMOS		1/2.8" 8MP CMOS		1/3" 4MP CMOS		1/2.8" 2MP CMOS per sensor (3 sensors total)		1/3" 4MP CMOS		1/3" 4MP CMOS	
Min. Illumination	0.02 Lux/F2.0 0 Lux (IR on)		0.02 Lux/F2.0 0 Lux (IR on)		0.01 Lux/F2.0, 0 Lux/F2.0 (IR on)		0.01 Lux/F2.0, 0.001 Lux/F2.0		0.007 Lux/F1.8, 0 Lux/F1.8 (IR on)		0.05 Lux/F1.6; 0 Lux/F1.6 (IR on)		0.05 Lux/F1.6; 0 Lux/F1.6 (IR on)	
Lens	3.6mm	6mm	2.8mm	3.6mm	1.18mm Fixed		1.18mm Fixed		3.6mm Fixed		4.5mm - 135mm, Motorized		4.5mm - 135mm, Motorized	
Horizontal Field of View	89.9°	59.4°	106°	82.8°	360°		180°		180°		60° - 2.2°		60° - 2.2°	
Day/Night	True Day/Night		True Day/Night		True Day/Night		Electronic Day/Night		True Day/Night		True Day/Night		True Day/Night	
Max. IR Distance	164ft (50m)		164ft (50m)		33ft (10m)		—		66ft (20m)		328ft (100m)		328ft (100m)	
OSD Menu	—		Multi-language		Multi-language		Multi-language		Multi-language		Multi-language		Multi-language	
Wide Dynamic Range (WDR)	—		DWDR		120dB		120dB		120dB		120dB		120dB	
Noise Reduction	2D		2D		2D/3D		2D/3D		2D/3D		Ultra DNR (2D/3D)		Ultra DNR (2D/3D)	
Frame Rate	30fps@1080p		30fps@1080p		TBD		30fps@4MP		15fps@4096x832, 30fps@2560x520		30fps@4MP/1080p 30/60fps@720p		30fps@4MP/1080p 30/60fps@720p	
Video Output	HD		HD Multi-analog Technology		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)		One (1) BNC HDCVI Panoramic Output Channel, and Three (3) BNC 2MP HDCVI Channels		One (1) BNC HDCVI High- definition Channel and, One (1) BNC CVBS Channel (switchable)		One (1) BNC HDCVI High- definition Channel and, One (1) BNC CVBS Channel (switchable)	
Pan/Tilt/Zoom	Pan: 0° - 360° Tilt: 0° - 70° Rotation: 0° - 360°		Pan: 0° - 360° Tilt: 0° - 78° Rotation: 0° - 360°		—		—		Pan: 0° - 360° Tilt: 0° - 78° Rotation: 0° - 360°		Pan: 0° - 360°, endless; Tilt: -15° - 90°; Autoflip 180°		Pan: 0° - 360°, endless; Tilt: -15° - 90°; Autoflip 180°	
Preset Speed	—		—		—		—		—		Pan: 240° /s; Tilt: 200° /s		Pan: 400° /s; Tilt: 300° /s	
Audio In/Out	—		—		—		—		1 Channel In		1 Channel In		1 Channel In	
Alarm In/Out	—		—		2/1		—		2/1		2/1		2/1	
Environmental Protection	IP67		IP67		IP67, IK10		IK10		IP67, IK10		IP66		IP66	
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)		-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 158°F (-40°C to 70°C)	
Power	DC12V (±20%) Max 3.6W		DC12V (±25%)		DC12V (±25%), AC24V (±25%)		DC12V (±25%) Maximum 2.2W		DC12V (±25%) 23W		AC24V, 3A (±10%) 13W, 23W (IR on)		AC24V, 3A (±10%) 13W, 23W (IR on)	

# HDCVI CAMERAS

## PTZ HDCVI CAMERAS








Model	 50430IC	 52C430IC	 DH-SD50A230IN-HC-S2	 DH-SD6CA230IN-HC-S2	 DH-SD59A230IN-HC-S2	 DH-SD52CA230IN-HC-S2	 DH-SD40A212IN-HC	 DH-SD22A204IN-GC
	 Pro	 Pro	 Pro	 Pro	 Pro	 Ultra	 Lite	 Lite
<b>Image Sensor</b>	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
<b>Min. Illumination</b>	Color: 0.05 Lux/F1.6; B/W: 0.0005 Lux/F1.6	Color: 0.05 Lux/F1.6; B/W: 0.0005 Lux/F1.6	Starlight Color: 0.005 Lux/F1.6, 0 Lux/F1.6 (IR on)	Starlight Color: 0.005Lux/F1.4, 0 Lux/F1.4 (IR on)	Starlight Color: 0.005 Lux/F1.4, 0 Lux/F1.4 (IR on)	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	Color: 0.05 Lux/F1.6, B/W: 0.005 Lux/F1.6
<b>Lens</b>	4.5mm – 135mm, Motorized	4.5mm – 135mm, Motorized	4.5mm – 135mm, Motorized	4.7mm – 94.0mm (20x Optical Zoom)	4.5mm – 135mm, (30x Optical Zoom)	4.5mm – 135mm, (30x Optical Zoom)	5.1mm – 61.2mm (12x Optical Zoom)	2.7mm – 11mm (4x Optical Zoom)
<b>Horizontal Field of View</b>	60° - 2.2°	60° - 2.2°	67.8° - 2.7°	54.1° - 3.2°	54.1° - 3.2°	67.8° - 2.7°	51.3° - 4.6°	112.5° - 39°
<b>Day/Night</b>	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
<b>Max. IR Distance</b>	—	—	—	328ft (100m)	328ft (100m)	—	—	—
<b>OSD Menu</b>	Multi-language	Multi-language	Multi-language	Support	Support	Support	Support	Support
<b>Wide Dynamic Range (WDR)</b>	120dB	120dB	120dB	DWDR	DWDR	120dB	DWDR	DWDR
<b>Noise Reduction</b>	Ultra DNR (2D/3D)	Ultra DNR (2D/3D)	Ultra DNR (2D/3D)	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
<b>Frame Rate</b>	30fps@4MP/1080p 30/60fps@720p	30fps@4MP/1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 30/60fps@720p
<b>Video Output</b>	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel (switchable)	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel (switchable)	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel (switchable)	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable	HD/SD Switchable
<b>Pan/Tilt/Zoom</b>	Pan: 0° – 360° Endless; Tilt: 0° – 90°, Auto Flip 180°	Pan: 0° – 360° Endless; Tilt: 0° – 90°, Auto Flip 180°	Pan: 0° – 360° Endless; Tilt: 0° – 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: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -2° – 90°, Auto Flip 180°	255 Presets, Pan: 0° – 355°; Tilt: 0° – 90°
<b>Preset Speed</b>	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 240°/s; Tilt: 200° /s	Pan: 400°/s; Tilt: 300° /s	Pan: 500°/s; Tilt: 500° /s	Pan: 300°/s; Tilt:200°/s	Pan: 100°/s; Tilt: 60° /s
<b>Audio In/Out</b>	1 Channel In	1 Channel In	1 Channel In	1	1	1	1	-
<b>Alarm In/Out</b>	2/1	2/1	2/1	2/1	2/1	2/1	2/1	-
<b>Environmental Protection</b>	IP67, IK10	IK10	IP67, IK0	IP66	IP66	IK10	IP66, IK10	IP66 , IK10
<b>Working Temperature</b>	-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)	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)	-40°C to 60°C (-40°F to 140°F)	-22°F to 140°F (-30°C to 60°C)
<b>Power</b>	AC24V, 1.5A (±10%) 13 W, 23 W (Heater on)	AC24V, 1.5A (±10%) 13 W	AC24V, 1.5A (±25%) 23 W	AC24V**	AC24V**	AC24V, 1.5A	AC24V**	DC12V

# HDCVI DVRs

Model	 X38A3S	 X34A3L	 X58A3S	 DHI-HCVR78A16S	 DHI-HCVR74A16L	 X28A5S	 X24A3L / X24A5L
<b>Video Compression</b>	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG
<b>Audio Compression</b>	—	—	—	G.711/PCM	G.711/PCM	—	—
<b>Video Standard</b>	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)
<b>Max. Record Rate</b>	30fps@1080p 30fps@D1	30fps@1080p 30fps@D1	30fps@4MP 30fps@960H	480fps@1080p 480fps@720p	480fps@1080p 480fps@720p	15fps@1080p 30fps@1080N	15fps@1080p 30fps@1080N
<b>Analog Input</b>	16CH	16CH	16CH	16CH, 1.0Vp-p, 75Ω	16CH, 1.0Vp-p, 75Ω	32CH	32CH
<b>IP Input</b>	16+8CH Up to 5MP	16+8CH Up to 5MP	Up to 64CH Up to 12MP	16+16CH Up to 1080p	16+16CH Up to 1080p	16+16CH Up to 5MP	16+16CH Up to 5MP
<b>Max Input/Record</b>	96Mbps / 96Mbps	96Mbps / 96Mbps	256 Mbps / 384 Mbps	160Mbps / 160Mbps	160Mbps / 160Mbps	64Mbps / 64Mbps	64Mbps / 64Mbps
<b>Audio In/Out</b>	16/1 2-way	4/1 2-way	16/1 2-way	16/1, 2-way	4/1, 2-way	16/1 2-way	16/1 2-way
<b>Max. HDD</b>	8 HDD x Up to 8TB	4 HDD x Up to 8TB	8 HDD x Up to 8TB	8 HDD x Up to 80TB	4 HDD x Up to 40TB	8 HDD x Up to 8TB	4 HDD x Up to 8TB
<b>Display</b>	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV	2 HDMI, VGA, TV	HDMI, VGA, TV	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV
<b>eSATA</b>	1	1	1	1	1	1	1
<b>USB</b>	4 USB Ports (2 USB 2.0, 2 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)	4 USB 2.0	3 USB 2.0	4 USB Ports (2 USB 2.0, 2 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)
<b>DVD Burner</b>	USB Device/Network	USB Device/Network	USB Device/Network	USB/SATA	USB/SATA	USB Device/Network	USB Device/Network
<b>Alarm In/Out</b>	16/6	16/6	16/6	16/6	16/16	16/6	16/6
<b>Ethernet</b>	1 Gigabit Port	1 Gigabit Port	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port
<b>Remote Login</b>	128	128	128	128	128	128	128
<b>Dimension</b>	17.3in x 17.9in x 3.7in	17.3in x 16.4in x 3.0in	17.3in x 17.9in x 3.7in	17.3in x 18in x 3.5in	17.3in x 16.4in x 2.7in	17.3in x 17.9in x 3.7in	17.3in x 16.4in x 3.0in
<b>Power</b>	AC100V-240V, 50/60Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <30W (Without HDD)	AC100V-240V, 50/60Hz <50W (Without HDD)	AC100-240V, 50/60Hz, ≤53W (Without HDD)	AC100-240V, 50/60Hz, ≤53W (Without HDD)	AC100V-240V, 50/60Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <30W (Without HDD)
<b>Highlights</b>	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N	Penta-brid, Plug&Play, P2P, 12MP Resolution, Smart Search, IVS, Spot Output, Loop Out, N+N	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP, N+N	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP, N+N	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N












# HDCVI DVRs





Model	X32A1A / X32A2A / X32A3A			X22A3N / X22A3A		C52A1N / C52A2N / C52A3N			DHI-HCVR72A16A-S3	DHI-HCVR72A08A-S3	DHI-HCVR72A04A-S3	DHI-HCVR58A32S-S2
												
	Pro			Pro		Pro			Pro	Pro	Pro	Pro
<b>Video Compression</b>	Smart H.264+, H.264, MJPEG			Smart H.264+, H.264, MJPEG		Smart H.264+, H.264, MJPEG			H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
<b>Audio Compression</b>	-			-		-			G.711/PCM	G.711/PCM	G.711/PCM	G.711/PCM
<b>Video Standard</b>	HDCVI/ AHD/TVI/CVBS (Auto-detect)			HDCVI/ AHD/TVI/CVBS (Auto-detect)		HDCVI/ AHD/TVI/CVBS (Auto-detect)			HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)
<b>Max. Record Rate</b>	30fps@1080p 30fps@D1			15fps@1080p 30fps@1080N		15fps@4MP 30fps@1080P			480fps@1080p 480fps@720p	240fps@1080p 240fps@720p	120fps@1080p 120fps@720p	480fps@1080p 960fps@720p
<b>Analog Input</b>	4CH	8CH	16CH	16CH		4CH	8CH	16CH	16CH, 1.0Vp-p, 75Ω	8CH, 1.0Vp-p, 75Ω	4CH, 1.0Vp-p, 75Ω	32CH, 1.0Vp-p, 75Ω
<b>IP Input</b>	4+2CH Up to 5 MB	8+4CH Up to 5 MB	16+8CH Up to 5 MB	16+8CH Up to 5 MB		4+2CH Up to 4 MP	8+4CH Up to 4 MP	16+8CH Up to 4 MP	16+8CH Up to 5MP	8+4CH Up to 5MP	4+2CH Up to 5MP	32CH Up to 1080p
<b>Max Input/Record</b>	24Mbps / 24Mbps	48Mbps / 48Mbps	96Mbps / 96Mbps	96Mbps / 96Mbps		24Mbps / 24Mbps	48Mbps / 48Mbps	96Mbps / 96Mbps	96Mbps / 96Mbps	48Mbps / 48Mbps	24Mbps / 24Mbps	160Mbps / 160Mbps
<b>Audio In/Out</b>	4/1 2-way			4/1 2-way	1/1 2-way	1/1 2-Way			4/1, 2-way	4/1, 2-way	4/1, 2-way	16/1, 2-way
<b>Max. HDD</b>	2 HDD x Up to 6TB			2 HDD x Up to 6TB		2 HDD x Up to 6TB			2 HDD x Up to 20TB	2 HDD x Up to 20TB	2 HDD x Up to 20TB	8 HDD x Up to 80TB
<b>Display</b>	1 HDMI, 1 VGA			1 HDMI, 1 VGA		1 HDMI, 1 VGA			1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 TV
<b>eSATA</b>	-			-		-			-	-	-	1
<b>USB</b>	2 USB 2.0 Ports		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			1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 2.0	4 USB 2.0
<b>DVD Burner</b>	USB Device/Network			USB Device/Network		USB Device/Network			USB	USB	USB	USB/SATA
<b>Alarm In/Out</b>	4/3	8/3	16/3	16/3	-	-			16/3	8/3	8/3	16/16
<b>Ethernet</b>	1 100Mbps Port		1 Gigabit Port	1 Gigabit Port		1 Gigabit Port			1 Gigabit Port	1 Gigabit Port	1100Mbps Port	2 Gigabit Ports
<b>Remote Login</b>	128			128		128			128	128	128	128
<b>Dimension</b>	14.70in x 11.20in x 2.20in			14.70in x 11.20in x 2.20in		14.80in x 11.20in x 2.20in			14.8in x 11.2in x 2.2in	14.8in x 11.2in x 2.2in	14.8in x 11.2in x 2.2in	17.3in x 18.0in x 3.5in
<b>Power</b>	DC12V, 4A <15W (Without HDD)	DC12V, 5A <15W (Without HDD)	DC12V, 4A <15W (Without HDD)	DC12V, 5A <15W (Without HDD)	DC12V, 4A <15W (Without HDD)	DC12V, 5A <15W (Without HDD)	DC12V, 4A <15W (Without HDD)	DC12V, 5A <15W (Without HDD)	DC12V, 5A, ≤15W (Without HDD)	DC12V, 5A, ≤15W (Without HDD)	DC12V, 5A, ≤15W (Without HDD)	AC 100-240V, 50/60Hz, ≤53W (Without HDD)
<b>Highlights</b>	Penta-brid, Plug & Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N			Penta-brid, Plug & Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N		Penta-brid, Plug & Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output, N+N			Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP




# HDCVI DVRs

Model	 Pro	 Pro	 Pro	 Pro	 Lite	 Lite	 Lite
<b>Video Compression</b>	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	Smart H.264+, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG
<b>Audio Compression</b>	G.711/PCM	G.711/PCM	G.711/PCM	G.711	G.711/PCM	G.711/PCM	G.711/PCM
<b>Video Standard</b>	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/TVI/AHD/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)	HDCVI/CVBS (Auto-detect)
<b>Max. Record Rate</b>	240fps@1080p 480fps@720p	240fps@1080p 480fps@720p	240fps@1080p 480fps@720p	30fps@1080p	240fps@1080p 480fps@720p	120fps@1080p 240fps@720p	60fps@1080p 120fps@720p
<b>Analog Input</b>	16CH, 1.0Vp-p, 75Ω	16CH, 1.0Vp-p, 75Ω	16CH, 1.0Vp-p, 75Ω	4CH / 8CH / 16CH	16CH, 1.0Vp-p, 75Ω	8CH, 1.0Vp-p, 75Ω	4CH, 1.0Vp-p, 75Ω
<b>IP Input</b>	2CH Up to 1080p	16+8CH Up to 5MP	8+16CH Up to 5MP	8+4CH Up to 5MP	16+8CH Up to 5MP	8+4CH Up to 5MP	4+2CH Up to 5MP
<b>Max Input/Record</b>	10Mbps / 10Mbps	96Mbps / 96Mbps	96Mbps / 96Mbps	24Mbps / 48Mbps / 96Mbps 24Mbps / 48Mbps / 96Mbps	96Mbps / 96Mbps	48Mbps / 48Mbps	24Mbps / 24Mbps
<b>Audio In/Out</b>	4/1, 2-way	4/1, 2-way	1/1, 2-way	4/1, 2-way	16/1, 2-way	8/1, 2-way	4/1, 2-way
<b>Max. HDD</b>	4 HDD x Up to 40TB	2 HDD x Up to 20TB	2 HDD x Up to 20TB	1 HDD Up to 10TB	1 HDD Up to 10TB	1 HDD Up to 10TB	1 HDD Up to 10TB
<b>Display</b>	HDMI, VGA, TV	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
<b>eSATA</b>	1	—	—	1	—	—	—
<b>USB</b>	3 USB 2.0	1 USB 3.0, 1 USB 2.0	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	2 USB 2.0
<b>DVD Burner</b>	USB/SATA	USB	USB	USB/SATA	USB	USB	USB
<b>Alarm In/Out</b>	16/16	16/3	—	4 / 8 / 16 Input	16/3	8/3	4/3
<b>Ethernet</b>	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	—	1 Gigabit Port	1100Mbps Port	1100Mbps Port
<b>Remote Login</b>	128	128	128	128	128	128	128
<b>Dimension</b>	17.3in x 16.4in x 2.7in	14.8in x 11.2in x 2.2in	14.8in x 11.2in x 2.2in	12.8in x 10.0in x 2.2in	12.8in x 10.0in x 2.2in	12.8in x 10.0in x 2.2in	12.8in x 10.0in x 2.2in
<b>Power</b>	AC 100-240V, 50/60Hz, ≤40W (Without HDD)	DC12V, 4A, ≤15W (Without HDD)	DC12V, 4A, ≤15W (Without HDD)	DC12V, 2A, 10W (Without HDD)	DC12V, 2A, ≤10W(Without HDD)	DC12V, 2A, ≤10W(Without HDD)	DC12V, 2A, ≤10W(Without HDD)
<b>Highlights</b>	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Search, Face Detection, Tripwire Analytics, Spot Output, P2P, Plug & Play, Desktop Installation	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP	Smart Play, POS, P2P, Coaxial Upgrade, 2D/3DNR, UTP










# ACCESSORIES










	CAMERA HOUSING		FIBER TRANSMISSION/RECEIVER		SWITCH	4K NETWORK DECODER		OPTICAL MODULE	KEYBOARD
<b>Model</b>	PFH610N	PFH610N-IR	OTE103T	OTE103R	DH-PFS3102-1T	NVS0104DH-4K	NVD0405DH-4K	PFT3910 / 20 / 60 / 70 / 00 / 50	DH-NKB1000
<b>Appearance</b>									
<b>Description</b>	Aluminum & PC, (IK10) IP67, DC12V/AC24V 16in x 6.5in x 5.2in, for use with standard box cameras and PFB600W, PFB601W, PFB604W mounts	Aluminum & PC Heater, Cooler, IR (IK10) IP67, AC24V, 5A 16in x 6.5in x 5.2in, for use with standard box cameras and PFB600W, PFB601W, PFB604W mounts	1-port Fiber Transmission 9.4in x 5.9in x 3.1in	1-port Fiber Receiver 9.4in x 5.9in x 3.1in	1-port Switch 10.6in x 9.4in x 3.0in	1 Channel Ultra HD Network Video Decoder	4 Channel Ultra HD Network Video Decoder	Optical Module Data Rate: 155Mbps*, 1.25Gbps* Transmission Distance: 2km*, 20km*, 500m* *varies based on model	Network Control Keyboard with mono LCD screen (128 x 64)

	LENS			
<b>Model</b>	PLZ1040-D	PLZ1140-D	PLZ20C0-D	PLZ21C0-D
<b>Appearance</b>				
<b>Description</b>	Image size: 1/2.7in Aperture: f/1.6 Focal length: 2.7-12mm Mount: CS Resolution: 4MP	Image size: 1/2.7in Aperture: f/1.6 Focal length: 5-50mm Mount: CS Resolution: 4MP	Image size: 1/1.7in Aperture: f/1.5 Focal length: 3.7-16mm Mount: CS Resolution: 12MP	Image size: 1/1.7in Aperture: f/1.5 Focal length: 10.5-42mm Mount: CS Resolution: 12MP






	BALUN		POC TRANSCEIVER
<b>Model</b>	PFM800	PFM801	PFM810
<b>Appearance</b>			
<b>Description</b>	Passive HDCVI Balun Transmission distance: 250m@720p, 400m@1080p Cable type: CAT 5E/6 (R<10Ω/100m)	Passive HDCVI Balun with Power Input: DC24-36V Output: DC12V 8W (max) Transmission distance: 300m (max) Cable type: CAT 5E/6 (R<10Ω/100m)	Input DC24-36V, provides DC12V 9W (max) power to remote cameras






DH-PFS4026-24P-370











	NETWORK SWITCH						POE MIDSPAN	POE EXTENDER	WIRELESS
<b>Model</b>	DH-PFS3106-4P-60	DH-PFS3110-8P-96	DH-PFS4018-16P-250	DH-PFS4026-24P-370	DH-PFS4220-16P-250	DH-PFS4228-24P-370	PFT1200	PFT1300	PFM880/881
<b>Appearance</b>									
<b>Description</b>	4-port PoE Switch IEEE 802.3af/802.3at Each power ≤30W, Total ≤60W	8-port PoE Switch IEEE 802.3af/802.3at Each power ≤30W, Total ≤93W	16-port PoE Switch IEEE 802.3af/802.3at Each power ≤30W, Total ≤250W	24-port PoE Switch IEEE 802.3af/802.3at Each power ≤30W, Total ≤370W	16-port PoE Switch IEEE802.1x AC 100~240V	24-port PoE Switch IEEE802.1x AC 100~240V	Max.60W power out IEEE 802.3af/802.3at, Hi-PoE Cascade two PoE extenders to cover the range of 300m	PoE-in port, PoE-out port, PoE for IPC port DIN rail mounting	5.8G Wireless Video Transmission Device Transmission distance: 3 miles Horizontal 90/40°, Vertical 12/15°

	POWER SUPPLY					AUDIO PICKUP		SD CARD	TESTER
<b>Model</b>	PFM321	PFM322	AC24V, 1.5A	AC24V, 3A	AC24V, 5A	DH-PFM140	DH-PFM141	DH-PFM112	PFM900
<b>Appearance</b>									
<b>Description</b>	DC12V, 1A 3.3in x 1.6in x 1in	DC12V 2.8A 5.8in x 2.8in x 1.2in	AC24V, 1.5A 4.2in x 2.8in x 2.2in	AC24V, 3A 4.7in x 3.1in x 2.5in	AC24V, 5A 4.7in x 4in x 3.1in	Pinhole Pickup 2.5in x 1.2in x .87in For use with cameras or storage devices w/audio functionality	Hi-fidelity Pickup 3.1in x 1.0in For use with cameras or storage devices w/audio functionality	Dahua SD Card, Speed: UHS-I, 48MB/s, Video Class: Class 10, Storage Capacity: 64GB	Integrated Mount Tester For IPC, HDCVI, Analog camera TDR, record, playback

# ACCESSORIES

	OPTICAL TRANSCIVER				HARD DISK
Model	OTC102T/R	DH-PFO2410T/R	DH-PFO2810T/R	DH-PFO2910T/R	ST Series
Appearance					
Description	1CH HDCVI Optical Transceiver Lossless non-compression real-time transmission FC, Single-mode, 20km Support 720p/1080p	4CHh HDCVI Optical Transceiver Lossless non-compression real-time transmission FC, Single-mode, 20km Support 720p/1080p	8CH HDCVI Optical Transceiver Lossless non-compression real-time transmission FC, Single-mode, 20km Support 720p/1080p	16CH HDCVI Optical Transceiver Lossless non-compression real-time transmission FC, Single-mode, 20km Support 720p/1080p	ST1000VX001 - 1TB ST2000VX003 - 2TB ST3000VX006 - 3TB ST4000VX000 - 4TB ST6000VX001 - 6TB

	CONVERTER		DISTRIBUTOR		EXTENDER	
Model	DH-PFT2100	TP2105	TP2600	PFT2690	PFM700	PFM710
Appearance						
Description	Input HDMI video signal, self-adaptive output HDCVI signal HDCVI output format: 720p, 1080p CVBS, AHD, HDTV distribution Fully enclosed dustproof design	Input :720p/1080p HDCVI signal Output: HDCVI, HDMI, VGA, CVBS Supports RS485 to control PTZ	1 in / 3 out 720p/1080p self-adaptive Works as a repeater to increase the transmission distance	16-ch HDCVI input, 32-ch output, each input corresponds to 2 outputs 720p/1080p self-adaptive Compatible CVBS, AHD, HDTV signal distribution	HDMI Extender HDMI, transmission distance 60m (max) 3.5in x 2.5in x 1.0in	VGA Extender, VGA video signal high fidelity transmission 75m (max) 3.5in x 2.5in x 1.0in

	MONITOR			GAS SPRING MONITOR DESK MOUNT					MECHANICAL MONITOR DESK MOUNT	
Model	DHL32-F600	DHL22-F600	DHL49-4K	BL301-G	BL302-G	BL303-G	BL304-G	BL102	BL103	BL104
Appearance										
Description	31.5" Full HD 1920 x 1080 resolution LCD Monitor, Plastic housing, Input: VGA x1, HDMI x2, Audio x1, Output: Speaker x1, Equipped with pedestal	20.7" Full HD 1920 x 1080 resolution LCD Monitor, Plastic housing, Input: VGA x1, HDMI x1, Audio x1, Output: Speaker x1, Equipped with pedestal	49" Ultra HD 3840 x 2160 4K LCD Monitor, Abundant interfaces HDMI, DVI, VGA, BNC, USB, supports video loop	Single screen gas spring monitor mount, 360° horizontal free rotation, Built in 2 port USB 3.0 Hub, Fits most monitors	Dual screen gas spring monitor mount, 360° horizontal free rotation, Built in 2 port USB 3.0 Hub, Fits most monitors	Triple screen gas spring monitor mount, 360° horizontal free rotation, Built in 2 port USB 3.0 Hub, Fits most monitors	Quad screen gas spring monitor mount, 360° horizontal free rotation, Built in 2 port USB 3.0 Hub, Fits most monitors	Dual screen mechanical monitor mount, Solid aluminum die cast construction, Quick to install, Fits most monitors	Triple screen mechanical monitor mount, Solid aluminum die cast construction, Quick to install, Fits most monitors	Quad screen mechanical monitor mount, Solid aluminum die cast construction, Quick to install, Fits most monitors

## SMART PSS

### Smart Professional Surveillance System

Open, Free, Intelligent  
Make your security surveillance system easy to use.



<b>Devices &amp; Users</b>	Supported Devices	DVR, NVR, IPC, NVS, NKB, VDP, Video Wall Controller
	Max. Management Devices	256
	Max. Management Channels	2000
	Max. Number of Users	50
<b>Video</b>	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 4000 x 3000
<b>Live Preview</b>	Video Display Split	1/4/6/8/9/16/25/36 or customized split for Mac, up to 64 for windows
	Max. Preview Screens	4
	Max. Viewing Channels	256
	Features	Snapshot, PTZ, Audio, Record, Talk, Instant playback, Tour task, View, Stream control, Optional video scale
<b>Playback</b>	Max. Channels	36
	Max. Task of Export	10 once
	Features	Snapshot, PTZ, Audio, Speed 1/8x-8x, Synchronization playback, Faster/Slower play, Optional video scale
<b>Recording</b>	PC-NVR	32 Channels
<b>System</b>	Language	Czech, Danish, Dutch, English, Finnish, French, German, Greek, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Thai, Traditional Chinese, Vietnamese
<b>Minimum System Requirements</b>	OS	Windows XP or above, Mac OSX 10.7 or above
	GPU	Intel(R) HD Graphics or above
	CPU	Intel(R) Core(TM) i3 or above
	Main Memory	2GB or above
	Display Resolution	1024x768 or above

## DMSS











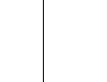


### Digital Mobile Surveillance System








Monitor anything with your smartphone or tablet.  
Anytime, Anywhere









<b>Devices &amp; Users</b>	Supported Devices	DVR, NVR, IPC, VDP
	Add Device Method	IP/Domain, SN, Import form cloud
	Features	Remote config, Alarm config, HDD info, Share device list
<b>Video</b>	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 1920 x 1080
<b>Live Preview</b>	Video Display Split	1/4/9/16 split
	Max. Channels Can be Opened at the Same Time	256
	Features	Snapshot, Record, Instant playback, PTZ, Unlock, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
<b>Playback</b>	Max. Channels Can be Opened When Video Playback	4
	Time Period of Video	24 hours
	Features	Snapshot, Record, Faster/Slower play, Play next frame
	Max. Channels Can be Opened When Image Playback	1
<b>Alarm Push</b>	Alarm Type	Motion detect, Camera masking, Local alarm, Disk alarm, Face detection, Ivs alarm
	Push Type	Record, Preview, Image
<b>Minimum System Requirements</b>	OS	gDMSS: Android 3.0 or above; iDMSS: IOS 7.0 or above
	CPU	1GHZ or above
	RAM	1GHZ or above
	Display Resolution	480x800 or above

# ACCESSORIES

	Adapter		PTZ Mount Adapters			Housing Bracket			Ceiling Mount	Pipe Extenders		Ceiling/Wall/Plane Mount	Corner Mount
Model	PFA100 / PFA101	PFA103	PFA110	PFA111	PFA114	PFB600W	PFB601W	PFB604W	PFB300C	PFA112	PFA113	PFB110W	PFA151
													
	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"	14" Housing Ceiling Mount Bracket, for use with PFH610N or PFH610N-IR housings	14" Housing Plane Mount Bracket, for use with PFH610N or PFH610N-IR housings	14" Housing Wall Mount Bracket, for use with PFH610N or PFH610N-IR housings	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"	Pipe Thread: 1/4"-20 UNC	

Water-proof Junction Box							
Model	PFA120	PFA121	PFA122	PFA123	PFA135	PFA137	PFA140
							
	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")

Non-Water-proof Junction Box						
Model	PFA13B	PFA132	PFA134	PFA136	PFA138	PFA139
						
	Pipe Thread: G3/4"	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: M20 (G1/2")	Pipe Thread: G3/4"	Pipe Thread: M20 (G1/2")

	Wall Mount				In-ceiling Mount		Parapet Mount
Model	PFB121W	PFB202W	PFB203W	PFB204W	PFB200C	PFB201C	PFB303S
							
					Pipe Thread: G3/4"	Pipe Thread: G3/4"	Pipe Thread: G1 1/2"

	Wall Mount			Pole Mount		Power Box
Model	PFB302S	PFB303W	PFB300S	PFA150	PFA152	PFA140
						
	Pipe Thread: G1 1/2", M20 (G1/2")	Pipe Thread: G1 1/2"	Pipe Thread: G1 1/2"			Pipe Thread: M20 (G1/2")

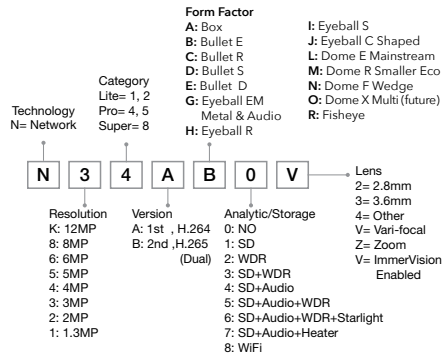




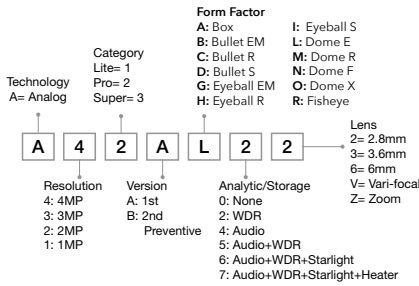


# NAMING CONVENTIONS

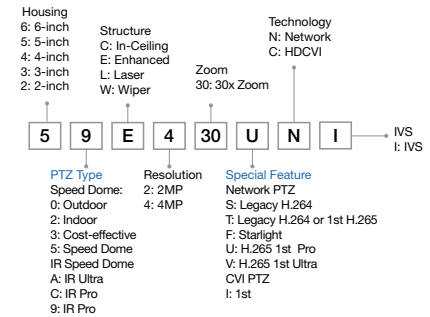
## NEW Network Cameras



## NEW HDCVI Cameras

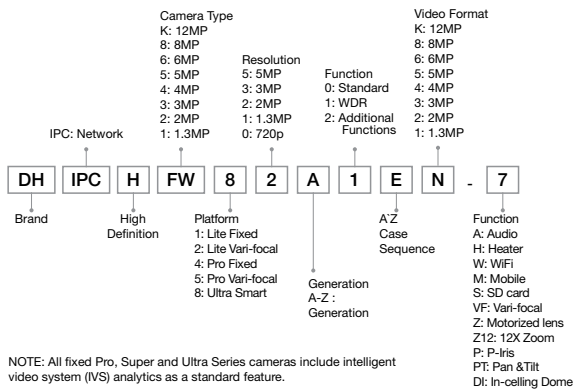


## NEW PTZ Camera



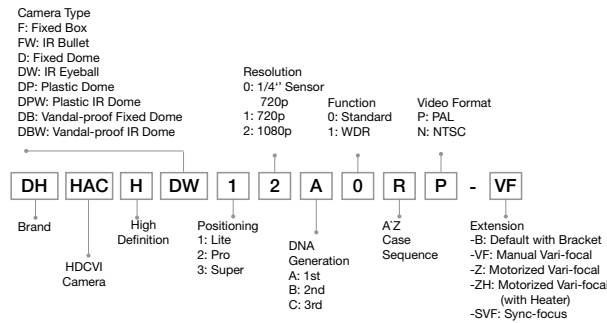
NOTE: Old naming conventions identifies products introduced prior to June 2016.

## OLD Network Cameras

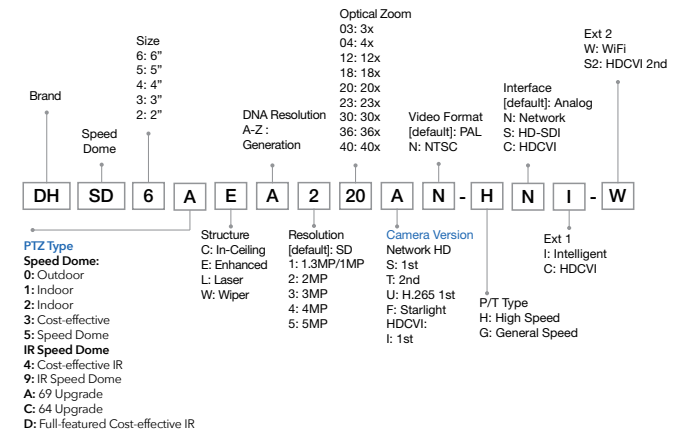


NOTE: All fixed Pro, Super and Ultra Series cameras include intelligent video system (IVS) analytics as a standard feature.

## OLD HDCVI Cameras

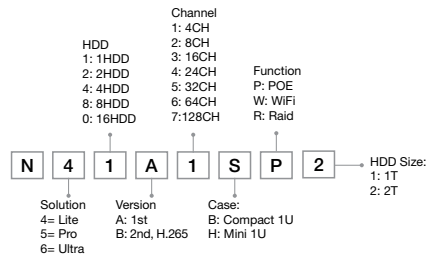


## OLD PTZ Camera

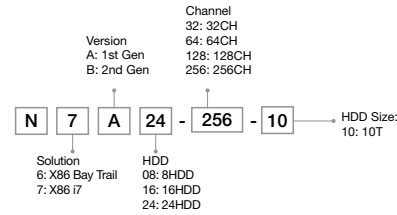


# NAMING CONVENTIONS

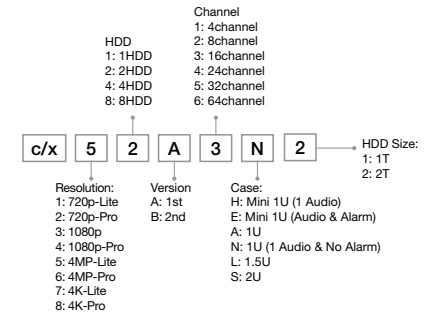
## NEW Lite & Pro Series NVRs



## NEW Super & Ultra Series NVRs

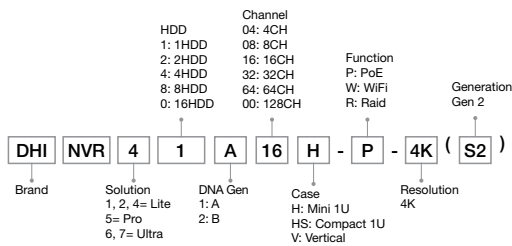


## NEW HDCVI DVRs

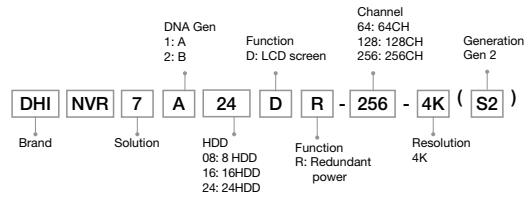


NOTE: Old naming conventions identifies products introduced prior to June 2016.

## OLD Lite & Pro Series NVRs

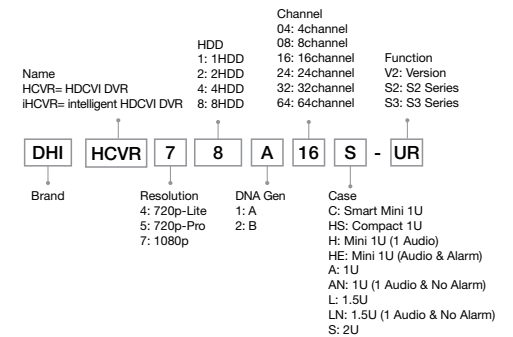


## OLD Super & Ultra Series NVRs



NOTE: IVS features are included for 2-channels on any NVR Super Series and 8-channels on any Ultra Series NVR.

## OLD HDCVI DVRs



NOTE: IVS features are included on 1 channel for all Lite and Pro Series HCVRs and on 2 Channels on all Super Series HCVRs.



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