



2021

PRODUCT CATALOG

Technologies that Take You Further

Table of Contents

All-Star Partner Program.....	3
Innovative Technology	4
Emerging Technology.....	5
Dahua Product Series	6

NETWORK CAMERAS

Box Cameras	7
Bullet Cameras	7-9
Dome Cameras	9-13
Eyeball Cameras.....	13-15
Fisheye Cameras.....	16
LincX2PRO.....	17
Multi-sensor Cameras	18
People Counting.....	19
PTZ Network Cameras	19-22
Licence Plate Recognition	23
Thermal	24-26
Network Security System Kits	27
NETWORK VIDEO RECORDERS.....	28-30

HDCVI CAMERAS

HDCVI Box Cameras	31
HDCVI Bullet Cameras	31-32
Dome Cameras.....	33-34
Eyeball Cameras.....	34-36
Fisheye Cameras.....	37
Multi-Sensor Cameras	37
PTZ Cameras	37
HDCVI Security System Kits	38
HDCVI DVRs.....	39-40

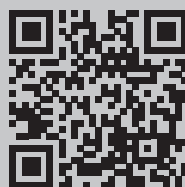
ACCESSORIES

Mounting Compatibility Charts.....	41-46
Footnotes.....	46

Dahua Technology

has been innovating security camera offerings for over 20 years. Founded with a vision for providing improved products to the market, we've continued to maintain our focus on the importance of innovation and continual advancement in the security industry. We provide high-value, total security solutions to the North American market by focusing on integrity and personal relationships to enhance the customer experience. Dahua's goal is to provide our customers with offerings that can help them grow their business in an ever-changing technology landscape. Our surveillance solutions, from award-winning cameras to video management software, deliver unparalleled quality, reliability, and stability, providing sales and support throughout the U.S. and Canada.

Dahua USA offers local sales support and tech support across the United States and Canada. Contact us now to learn more about our video surveillance products and solutions.



Connect to your local sales representative today.



Authorized Distributors

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



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

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



5-Year
Warranty



Project
Registration



Lead
Generation



Partner
Care Program



Technical
Consultant



Advanced
Replacement



Online
Training



Partner
Summit

All-Star Partner Program

Requirements			
Sales (Annually)	\$5K and up	\$60K and up	\$120K and up
Certification	None	1 Sales	2 Sales
Benefits			
Pricing Benefit	Up to 44% off MSRP	Up to 48% off MSRP	Up to 52% off MSRP
Extended Warranty	✓	✓	✓
Over the Counter Exchange	✓	✓	✓
Project Registration	✓	✓	✓
Demo Purchase Program	up to \$5K	up to \$10K	up to \$15K
Co-Marketing	✓	✓	✓
Partner Training	✓	✓	✓
Dealer Portal	✓	✓	✓
Tech Support	General Line	General Line	Priority Line
Partner Care Program		✓	✓
Lead Generation		✓	✓
Technical Consultant			✓
All-Star Partner Summit			Eligible

*Subject to change without prior notice.

Innovative Technology

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



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



Smart Motion Detection (SMD), a component of Dahua's Analytics+ technology, improves alarm accuracy and decreases the number of false alarms. The advanced SMD algorithm analyzes a scene for human or vehicle motion and triggers an alarm when detected, while filtering out other motion due to trees, leaves, animals or weather. In addition, the Quick Target Search function classifies and extracts people and vehicles from the video database, letting users find and analyze historical information quickly and easily, while displaying a more accurate tracking box around a moving subject.



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



Night Color Technology produces crisp, clear color images with at least 1 lux of ambient or artificial light. This light-sensitive technology captures more available light and reproduces color images with superior detail and contrast.



The **Dahua Thermal** Network cameras combine an uncooled VOx Microbolometer sensor with an athermalized lens to produce high contrast thermal images. These cameras produce clear images in total darkness, and deliver usable images in fog, rain, and snow, offering covert surveillance without the need for external light.



Dahua's New WizSeries

When you need to take your installation further, Dahua's WizSeries simplifies your decision making process with two easy to navigate categories: **WizSense** and **WizMind**.

WizSense

WizSense is based on a powerful AI chip and self-developed deep learning algorithm that allows customers to focus on humans and vehicles while ignoring irrelevant data such as pets, stray animals, debris and extreme weather conditions.

With easy configuration such as its one-click configuration for Smart Motion Detection (SMD) and a cost-effective price point, WizSense is designed to be simple enough to meet the needs of most general users.

The benefits include an instant alert during an event; quick target search after an event; storage saving with Dahua's Smart H.264+/H.265+ codec and privacy protection.

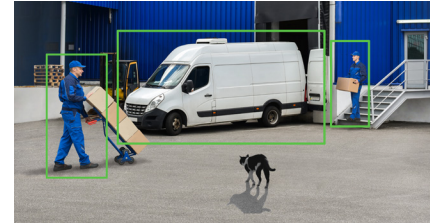
All WizSense fixed cameras are part of the Light Series. They are powered by Starlight Technology and include True WDR, Smart IR illumination and a high-quality image with either a 4MP or 5MP option. Variations include fixed and vari-focal options in a dome, bullet, eyeball or wedge indoor / outdoor IP67 housing.

WizMind

WizMind is a high-end line based on a powerful AI chip and deep learning algorithms for a more efficient security system. WizMind provides comprehensive human-oriented solutions including privacy protection, human video metadata, people counting and more.

WizMind provides solutions for targeted high-end markets with more in-depth and demanding requirements, such as finance, retail, energy, oil and gas and transportation.

WizSense Core Technologies



Smart Motion Detection (SMD)



Perimeter Protection

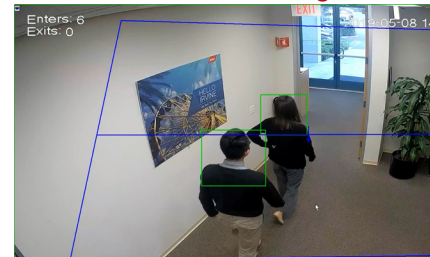


Thermal Imaging



Active Alarm

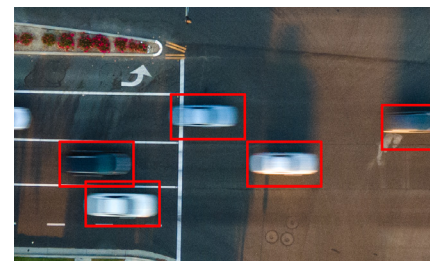
WizMind Core Technologies



People Counting



Heat Mapping



Smart Tracking

Dahua Product Series

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

There's a Dahua product for every solution!

UltraSeries

Dahua's Ultra Series offers network and HDCVI specialty cameras for niche, medium to large applications. IP offerings include 2MP, 4MP and 12MP fixed cameras and HDCVI 2MP and 8MP fixed options.

IP and HDCVI specialty cameras include 360-degree fisheye, multisensors, and long-range PTZ cameras. Storage devices feature 32-, 64-, 128- or 256-channel RAID options with 4K recording.

ProSeries

Dahua's Pro Series offers network and HDCVI cameras for main stream professional, small to medium-size applications. IP and HDCVI fixed camera options include, 2MP, 4MP, 5MP and 8MP.

IP and HDCVI specialty cameras include 360-degree fisheye, Night Color and mid-range PTZ cameras. Storage devices feature 8-, 16-, 24-, or 32-channel options with 4K recording.

LiteSeries

Dahua's Lite Series offers network and HDCVI cameras for small to medium-size applications. This Series is best for users with basic, uncomplicated scenes. IP options include 4MP and 5MP fixed and hybrid thermal cameras. HDCVI options include 2MP and 5MP cameras.

Both network and HDCVI technologies also offer short-range PTZ cameras. Storage devices feature 4-, 8-, or 16-channel options.

Model	Network Box Cameras	Network Bullet Cameras				
	NK8BA4  UltraSeries 4K ProSeries	N85CB5Z  ePoE 4K ProSeries	DH-IPC-HFW5831EN-Z5E  ePoE 4K ProSeries	N84CB34  ePoE 4K ProSeries	DH-IPC-HFW7442HN-ZFR  UltraSeries ePoE WizMind	N53AF5Z  LiteSeries ePoE WizSense
Image Sensor	1/1.7" 12MP CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/2.7" 5MP CMOS
Lens	Sold Separately	2.7mm - 12mm, Motorized	7mm - 35mm, Motorized	4mm	2.7mm - 12mm, Motorized	2.7mm to 13.5mm, Motorized
Horizontal Field of View	—	110° to 40°	38° to 14°	88°	111° to 47°	99° to 26°
Minimum Illumination	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.001 lux/F1.2 0 lux/F1.2 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	Ultra WDR (140dB)	True WDR (120dB)
Maximum IR Distance	—	164ft (50m)	328ft (100m)	131ft (40m)	164ft (50m)	197ft (60m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, (MJPEG sub-stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG
Maximum Resolution	12MP (4000 x 3000)	4K (8MP) (3840x2160)	4K (8MP) (3840x2160)	4K (8MP) (3840x2160)	4 MP (2688 x 1520)	5MP (2592 x 1944)
Frame Rate	20fps@12MP	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP	60fps@4MP	20fps@2592 x 1944 30fps@2688 x 1520
Multi-streaming	3 streams	3 streams	3 streams	3 streams	5 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Analytics+ (People Counting, Perimeter Protection, Image Attribute Extraction)	Tripwire, Intrusion with Smart Motion Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S and G, CGI, P2P, RTMP	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec
Audio In/Out	1/1, Built-in Microphone	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 256GB	Micro SD, Max 256GB
Alarm In/Out	2/1	2/1	2/1	—	3/2	1/1
Environmental Protection	—	IP67, IK10	IP67, IK10	IP67	IP67, IK10	IP67
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)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC, 24 VAC, or PoE (802.3af, Class 0) Max <8 W	Max < 12.95 W	12 VDC or PoE (802.3af, Class 0) Max < 12.95 W	12 VDC or PoE (802.3af, Class 0) Max < 6.5W	12 VDC, 24 VAC, or PoE (802.3af, Class 0) Max 17.3 W	12 VDC or PoE (802.3af, Class 0) Max < 9.8 W

Network Products

Model	Network Bullet Cameras					
	N53AB52  LiteSeries WizSense	DH-IPC-HUM8431N-E1  ProSeries	IPC-HUM8431-L3  ProSeries	N45DB7Z  ProSeries WizMind	N43AF5Z  LiteSeries WizSense 	N42BD32  LiteSeries
Image Sensor	1/2.7" 5MP CMOS	Processing unit for the IPC-HUM8431-L3 Pinhole Camera	1/2.7" 4MP CMOS	1/1.8" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS
Lens	2.8mm	—	2.8mm	2.7 mm to 12 mm Motorized	2.7 mm to 13.5 mm Motorized	2.8mm
Horizontal Field of View	98°	—	109°	114° to 47°	104° to 27°	102°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	—	Color: 0.006 lux/F1.8 B/W: 0.003 lux/F1.8	Starlight+ Color: 0.0024 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Basic Starlight Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	—	Electronic	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	DWDR	—	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	164ft (50m)	—	—	164ft (50m)	197ft (60m)	98ft (30m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	—	Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG
Maximum Resolution	5MP (2592 x 1944)	—	4MP	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)
Frame Rate	20fps@2592 x 1944 30fps@2688 x 1520	30fps@4MP	—	30fps@4MP	30fps@4MP	20fps@4MP
Multi-streaming	3 streams	3 streams	—	3 streams	3 streams	2 streams
Intelligent Video	Tripwire, Intrusion with Smart Motion Detection	Tripwire, Intrusion, Abandoned/Missing Object	—	Premium IVS, Analytics+ Functions — Face Capture, Metadata Extraction, Perimeter Protection, and People Counting with Loitering	Premium IVS, Analytics+ Functions — Perimeter Protection and Smart Motion Detection	Tripwire, Intrusion
Compatibility	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF, PSIA, CGI	—	ONVIF, CGI	ONVIF Profile S and G, CGI, Milestone, Genetec, P2P	ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec
Audio In/Out	1/1	1/1	—	1/1	1/1	—
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	—	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB
Alarm In/Out	1/1	2/2	—	2/1	1/1	—
Environmental Protection	IP67	—	—	IP67, IK10	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)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC or PoE (802.3af, Class 0) Max < 5.4 W	12 VDC or PoE (802.3af, Class 0) Max < 6 W	—	12 VDC or PoE+ (802.3at, Class 4) Max <15.2 W	12 VDC or PoE (802.3af, Class 0) Max <9.8 W	12 VDC (±30%) or PoE (802.3af, Class 0) Max < 5 W

Model	Network Bullet Cameras				Network Dome Cameras	
	N43AB52  LiteSeries ePoE Wiz Sense ProSeries	N45EF63  ePoE NIGHT COLOR Wiz Mind	N44CB33  LiteSeries	DH-IPC-HFW1435SN-W-S2  LiteSeries	N85CL5Z  ProSeries 4K ePoE	DH-IPC-HDBW5831EN-Z5E  ProSeries 4K ePoE
Image Sensor	1/3" 4MP CMOS	1/1.8" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS
Lens	2.8mm	3.6mm	3.6mm	2.8mm	2.7mm - 12mm, Motorized	7mm - 35mm, Motorized
Horizontal Field of View	103°	93°	87°	106°	110° to 40°	38° to 14°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Night Color: Scene requires a minimum of 1 lux illumination Color: 0.00022 lux /F1.2	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.53 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)
Day/Night	True Day/Night	Color (default) Electronic Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	164ft (50m)	—	131ft (40m)	98ft (30m)	164ft (50m)	328ft (100m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (Sub Stream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Maximum Resolution	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2560 x 1440)	4 MP (2560 x 1440)	4K (8MP) (3840x2160)	4K (8MP) (3840x2160)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	20fps@4MP	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP
Multi-streaming	3 streams	3 streams	3 streams	2 streams	3 streams	3 streams
Intelligent Video	Premium IVS, Analytics+ Functions — Perimeter Protection and Smart Motion Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Perimeter Protection, People Counting with Loitering	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	—	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object
Compatibility	ONVIF Profile S and G, CGI, Milestone, Genetec, P2P	ONVIF Profile S/G, API	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	—	—	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	1/1	1/1	—	—	1/1	1/1
Environmental Protection	IP67	IP67, IK10	IP67	IP67	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)	14°F to 122°F (-10°C to 50°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC or PoE (802.3af, Class 0) Max <5.4 W	12 VDC (±30%) or PoE (802.3af, Class 0) 12 VDC: 2.7 W PoE: 3.5 W	12 VDC (±25%) or PoE (802.3af, Class 0) Max <6 W	12 VDC, 1 A Max <6.5 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4) <15 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4), <15 W

Network Products

Model	Network Dome Cameras			Network Dome Cameras		
	 N82AL32  	 N84CL52   	 N84CL54   	 N53AM5Z  	 N55DY82   	 N53AL52  
Image Sensor	1/2.7" 4K (8MP) CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Lens	2.8mm	2.8mm	4mm	2.7mm - 13.5mm, Motorized	2.8mm	2.8mm
Horizontal Field of View	105°	110°	88°	99° to 26°	98°	98°
Minimum Illumination	Basic Starlight Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	98ft (30m)	98ft (30m)	98ft (30m)	131ft (40m)	IR: 98ft (30m) White Light: 49ft (15m)	164ft (50m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub-stream only)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG
Maximum Resolution	4K (8MP) (3840 x 2160)	4K (8MP) (3840 x 2160)	4K (8MP) (3840 x 2160)	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)
Frame Rate	15fps@4K 30fps@2688 x 1520	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP	20fps@2592 x 1944 30fps@2688 x 1520	20fps@2592 x 1944 30fps@2688 x 1520	20fps@2592 x 1944 30fps@2688 x 1520
Multi-streaming	2 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion with Smart Motion Detection	Premium IVS, Analytics+ Functions — Perimeter Protection, People Counting, Face Detection, Face Mask Detection, and Smart Motion Detection	Tripwire, Intrusion with Smart Motion Detection
Compatibility	ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF Profile S, G, T, CGI, Milestone; Genetec; SDK; API	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec
Audio In/Out	—	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB
Alarm In/Out	—	1/1	1/1	1/1	1/1	1/1
Environmental Protection	IP67, IK10	IP67, IK10	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)	-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)
Power	12 VDC (±30%) or PoE (802.3af, Class 0) < 6.2 W	12 VDC or PoE (802.3af, Class 0) < 5.5 W	12 VDC or PoE (802.3af, Class 0) < 5 W	12 VDC or PoE (802.3af, Class 0) Max < 9.8 W	12 VDC or PoE (802.3af, Class 0) Max < 8.6 W	12 VDC or PoE (802.3af, Class 0) Max < 7.3 W

Model	Network Dome Cameras					
	DH-IPC-HDBW7442HN-ZFR	N45DL7Z	N45CL5Z	N45CL5Z-B	N45DM62	N43AM5Z / N43AM5Z-B
	 UltraSeries ePoE WIZ Mind	 ProSeries ePoE WIZ Mind	 LiteSeries	 ePoE ProSeries WIZ Mind	 ProSeries ePoE WIZ Mind	 LiteSeries ePoE WIZ Sense
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/3" 4MP CMOS White Housing	1/3" 4MP CMOS Black Housing	1/1.8" 4MP CMOS	1/3" 4MP CMOS
Lens	2.7mm - 12mm, Motorized	2.7 mm - 12 mm Motorized	2.7mm - 13.5mm, Motorized		2.8mm	2.7 mm - 13.5 mm Motorized
Horizontal Field of View	111° to 47°	114° to 47°	106° to 31°		113°	104° to 27°
Minimum Illumination	Color: 0.001 lux/F1.2 0 lux/F1.2 (IR on)	Starlight+ Color: 0.0024 lux/F1.8 0 lux/F1.8 (IR on)	Color: 0.03 lux/F1.4 0 lux/F1.4 (IR on)		Starlight+ Color: 0.0016 lux at F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night		True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	Ultra WDR (140dB)	True WDR (120dB)	True WDR (120dB)		True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	131ft (40m)	148ft (45m)	164ft (50m)		85ft (26m)	131ft (40m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG		Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H (MJPEG substream)
Maximum Resolution	4 MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)		4MP (2688 x 1520)	4MP (2688 x 1520)
Frame Rate	60fps@4MP	30fps@4MP	30fps@4MP		30fps@4MP	30fps@4MP
Multi-streaming	5 streams	3 streams	3 streams		3 streams	3 streams
Intelligent Video	Analytics+ (People Counting, Perimeter Protection, Image Attribute Extraction)	Premium IVS, Analytics+ Functions — Metadata Extraction, Perimeter Protection, and People Counting with Loitering	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object		Premium IVS, Analytics+ Functions — Perimeter Protection and People Counting with Loitering	Premium IVS, Analytics+ Functions — Perimeter Protection and Smart Motion Detection
Compatibility	ONVIF Profile S and G, CGI, P2P, RTMP	ONVIF, CGI	ONVIF, PSIA, CGI		ONVIF, CGI	ONVIF Profile S and G, CGI, Milestone, Genetec, P2P
Audio In/Out	1/1	1/1	1/1		1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB		Micro SD, Max 128GB	Micro SD, Max 256GB
Alarm In/Out	3/2	1/1	1/1		1/1	1/1
Environmental Protection	IP67, IK10	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)	-22°F to 140°F (-30°C to 60°C)
Power	12 VDC, 24 VAC, or PoE (802.3af, Class 0) Max 16.7 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4) Max <18.7 W	12 VDC, 24 VAC, or PoE (802.3af, Class 0) Max <12.5 W		12 VDC or PoE (802.3af, Class 0) < 4.2 W	12 VDC or PoE (802.3af, Class 0) Max <8.5 W

Network Products

Model	Network Dome Cameras					
	N44CL52	N44CL53	N43AL52 / N43AL52-B	N44BN52	DH-IPC-HDBW1435EN-W-S2	N28BL7Z
	 LiteSeries ePoE	 LiteSeries ePoE	 LiteSeries ePoE WizSense	 LiteSeries	 LiteSeries	 UltraSeries
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/1.9" 2MP STARVIS™ CMOS
Lens	2.8mm	3.6mm	2.8mm	2.8mm	2.8mm	4.1mm - 16.4mm, Motorized
Horizontal Field of View	104°	87°	103°	104°	97°	92° to 32°
Minimum Illumination	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.0056 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.8872 lux/F2.0 0 lux/F2.0 (IR on)	Starlight+ Color: 0.002 lux/F1.53 0 lux/F1.53 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)
Maximum IR Distance	98ft (30m)	98ft (30m)	164ft (50m)	65ft (20m)	98ft (30m)	164ft (50m)
Video Compression (Main Stream)	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, H.264B, H.264H (MJPEG substream)	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
Maximum Resolution	4MP (2688 × 1520)	4MP (2688 × 1520)	4MP (2688 × 1520)	4MP (2688 × 1520)	4 MP (2560 × 1440)	1080p (1920 × 1080)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP	20fps@4MP	60fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Premium IVS, Analytics+ Functions — Perimeter Protection and Smart Motion Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	—	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S and G, CGI, Milestone, Genetec, P2P	ONVIF, PSIA, CGI	ONVIF (Profile T, Profile S, Profile G), CGI, SDK, API	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1, Built-in Microphone	—	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	1/1	1/1	1/1	1/1	—	2/1
Environmental Protection	IP67, IK10	IP67, IK10	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)	14°F to 122°F (-10°C to 50°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC (±25%) or PoE (802.3af, Class 0) Max <7.5 W	12 VDC (±25%) or PoE (802.3af, Class 0) Max <7.5 W	12 VDC or PoE (802.3af, Class 0) Max <7.3 W	12 VDC or PoE (802.3af, Class 0) Max <4.5 W	12 VDC (±30%) Max <4.9 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4) Max <18 W

Model	Network Dome Cameras				Network Eyeball Cameras
	N25CL5Z  ProSeries ePoE	DH-IPC-HDBW5231EN-ZE-HDMI  ProSeries	N45EM63  ProSeries NIGHT COLOR ePoE Wiz Mind	N22AL12  LiteSeries	N85CM5Z  ProSeries 4K ePoE
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP CMOS	1/1.8" 4MP CMOS	1/2.7" 2MP CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS
Lens	2.7mm - 13.5mm, Motorized	2.7mm - 13.5mm, Motorized	3.6mm	2.8mm	2.7mm - 12mm, Motorized
Horizontal Field of View	101° to 31°	101° to 31°	93°	110°	110° to 40°
Minimum Illumination	Enhanced Starlight Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)	Enhanced Starlight Color: 0.006 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.00022 lux /F1.2 Night Color: Scene requires a minimum of 1 lux illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)
Day/Night	True Day/Night	True Day/Night	Color (default) Electronic Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)
Maximum IR Distance	164ft (50m)	164ft (50m)	—	98ft (30m)	164ft (50m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub-stream only)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264B	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	1080p (1920 x 1080)	1080p (1920 x 1080)	4MP (2688 x 1520)	1080p (1920 x 1080)	4K (8MP) (3840 x 2160)
Frame Rate	60fps@1080p	30fps@1080p	30fps@4MP	30fps@1080p	15fps@4K 30fps@3MP
Multi-streaming	3 streams	3 streams	3 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Perimeter Protection, People Counting with Loitering	Tripwire, Intrusion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object
Compatibility	ONVIF, PSIA, CGI	ONVIF Profile S and G, API	ONVIF Profile S and G, API	ONVIF (Profile S and G), CGI, Milestone, Genetec	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	—	1/1, Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 128GB
Alarm In/Out	1/1	1/1	1/1	—	1/1
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67
Working Temperature	-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)	-22°F to 140°F (-30°C to 60°C)
Power	12 VDC, 1.25 A; 24 VAC, 0.8 A; or PoE+ (802.3at, Class 4) Max < 15 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4) Max < 11.8 W	12 VDC (±30%) or PoE (802.3af, Class 0) 12 VDC: 2.7 W PoE: 3.5 W	12 VDC, PoE (802.3af, Class 0) < 4.5W	12 VDC or PoE (802.3af, Class 0) < 8.5 W

Network Products

	Network Eyeball Cameras					
	 ProSeries	 ProSeries	 LiteSeries	 ProSeries	 ProSeries	 LiteSeries
Image Sensor	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Lens	2.8mm	4mm	2.7mm - 13.5mm, Motorized	2.8mm	2.8mm	2.8mm
Horizontal Field of View	112°	88°	99° to 26°	98°	96°	98°
Minimum Illumination	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Basic Starlight Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	164ft (50m)	164ft (50m)	131ft (40m)	IR: 65ft (20m) White Light: 49ft (15m)	98ft (30m)	164ft (50m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG
Maximum Resolution	4K (8MP) (3840 x 2160)	4K (8MP) (3840 x 2160)	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)
Frame Rate	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP	20fps@2592 x 1944 30fps@2688 x 1520	20fps@2592 x 1944 30fps@2688 x 1520	20fps@5MP	20fps@2592 x 1944 30fps@2688 x 1520
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion with Smart Motion Detection	Premium IVS, Analytics+ Functions — Perimeter Protection, People Counting, Face Detection, Face Mask Detection, and Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion with Smart Motion Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF Profile S, G, T; CGI, Milestone; Genetec; SDK; API	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec
Audio In/Out	Built-in Microphone	Built-in Microphone	Built-in Microphone	1/1 Plus a Built-in Microphone	—	Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB	—	Micro SD, Max 256GB
Alarm In/Out	—	—	—	1/1	—	—
Environmental Protection	IP67	IP67	IP67	IP67	IP67	IP67
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)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC or PoE (802.3af, Class 0) < 6 W	12 VDC or PoE (802.3af, Class 0) < 6 W	12 VDC or PoE (802.3af, Class 0) Max < 8.0 W	12 VDC or PoE (802.3af, Class 0) Max < 8.7 W	12 VDC or PoE (802.3af, Class 0) < 4 W	12 VDC or PoE (802.3af, Class 0) Max < 8.1 W

	Network Eyeball Cameras					
	N44CG52 / N44CG52-B	N44CG53 / N44CG53-B	N43AJ52 / N43AJ52-B	N45EJ62	N42BJ62	N45DJ62
	 LiteSeries PoE	 LiteSeries PoE	 LiteSeries PoE WizSense	 ProSeries PoE NIGHT COLOR WizMind	 LiteSeries	 ProSeries PoE WizMind
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/1.8" 4MP CMOS	1/3" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.8mm	3.6mm	2.8mm	2.8mm	2.8mm	2.8mm
Horizontal Field of View	104°	83°	103°	113°	102°	113°
Minimum Illumination	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Night Color: Scene requires a minimum of 1 lux illumination Color: 0.002 lux /F1.6	Basic Starlight Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)	Starlight+ Color: 0.002 lux at F1.6 0 lux at F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	Color (default) Electronic Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	164ft (50m)	164ft (50m)	164ft (50m)	White Light: 65ft (20m)	98ft (30m)	164ft (50m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B (MJPEG substream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub stream only)
Maximum Resolution	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@2688 x 1520 60fps@1080p	20fps@2688 x 1520 30fps@ 2560 x 1440	30fps@2688 x 1520 60fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Premium IVS, Analytics+ Functions — Perimeter Protection and Smart Motion Detection	Premium IVS, Analytics+ Functions — Perimeter Protection, People Counting, Face Detection, and Smart Motion Detection	Tripwire, Intrusion	Premium IVS, Analytics+ Functions — Perimeter Protection, People Counting, Face Detection, and Smart Motion Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S and G, CGI, Milestone, Genetec, P2P	ONVIF Profile S, G, T, CGI, Milestone, Genetec, P2P	ONVIF (Profile S, G, T), CGI, P2P, Milestone, Genetec	ONVIF Profile S, G, T, CGI, Milestone, Genetec, P2P
Audio In/Out	Built-in Microphone	Built-in Microphone	Built-in Microphone	Built-in Microphone	Built-in Microphone	Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB
Alarm In/Out	—	—	1/1	—	—	—
Environmental Protection	IP67	IP67	IP67	IP67	IP67	IP67
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)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC (±25%) or PoE (802.3af, Class 0) <5W	12 VDC (±25%) or PoE (802.3af, Class 0) <5W	12 VDC or PoE (802.3af, Class 0) Max <7.2 W	12 VDC (±30%) or PoE (802.3af, Class 0) Max <7.2 W	12 VDC (±30%) or PoE (802.3af, Class 0) Max <6.6 W	12 VDC (±30%) or PoE (802.3af, Class 0) Max <7.2 W

Network Products

	Network Fisheye Cameras					Corner Camera
	DH-IPC-EBW81242N  UltraSeries Wiz Mind 4K	NK8BR4  UltraSeries Wiz Mind 4K	N68BR4V  UltraSeries Wiz Mind 4K	N55CS5  ProSeries Wiz Mind	N55CT5  ProSeries Wiz Mind	DH-IPC-HCBW8442N  ProSeries
Image Sensor	1/1.7" 12MP CMOS	1/1.7" 12MP CMOS	1/1.8" 6MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS
Lens	1.98mm	1.98mm	1.3mm	1.4mm	1.4mm	2.5mm
Field of View	360° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures	360° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures	360° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures, ImmerVision Enables guarantees compatibility with any VMS. Provides 360° immersive navigation within live or recorded 360° videos	180° / Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures	180° / Original, Panoramic, Double Panoramic	Horizontal: 135° Vertical: 90°
Minimum Illumination	0.001 lux/F2.0 0 lux/F2.0 (IR on)	0.001 lux/F2.8 0 lux/F2.8 (IR on)	Color: 0.005 lux/F2.8 0 lux/F2.8 (IR on)	Color: 0.006 lux/F2.0	Color: 0.006 lux at F2.0 0 lux at F2.0 (IR on)	Enhance Starlight Color: 0.004 lux at F2.0 0 lux at F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	Electronic Day Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	DWDR	DWDR	True WDR (120dB)	True WDR (120dB)	Ultra WDR (140dB)
Maximum IR Distance	33ft (10m)	33ft (10m)	33ft (10m)	—	33ft (10m)	33ft (10m) 940 nm
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG	H.265, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub stream only)
Maximum Resolution	12MP (4000 x 3000)	12MP (4000 x 3000)	6MP (3072 x 2048)	5MP (2592 x 1944)	5MP (2592 x 1944)	4MP (2688 x 1520)
Frame Rate	30fps@12MP	25fps@12MP 30fps@8MP	30fps@6MP	30fps@2592 x 1944	30fps@2592 x 1944	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Analytics+ (People Counting, Queue Management) IVS (Tripwire, Intrusion, Heat Map)	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map	Premium IVS, Analytics+ Functions — Perimeter Protection, People Counting, Heat Map	Premium IVS, Analytics+ Functions — Perimeter Protection, People Counting, Heat Map	Analytics+ (Parking Detection, Fast Moving, Loitering, Perimeter Protection, People Counting, Crowd Gathering) Premium IVS (Motion, Scene Change, Abandoned/Missing Object, Heat Map)
Compatibility	ONVIF (Profile S and G), GB/T28181, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profiles S, G, T), CGI, Milestone, Genetec, P2P	ONVIF (Profiles S, G, T), CGI, Milestone, Genetec, P2P	ONVIF (Profile S and G), CGI, Milestone, Genetec, P2P
Audio In/Out	1/1 + Built-in Microphone	1/1	1/1	1/1 plus a Built-in Microphone	1/1 plus a Built-in Microphone	1/1 plus a Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB
Alarm In/Out	2/2	2/2	2/2	1/1	1/1	1/1
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	—	IP67, IK10+50J
Working Temperature	-22°F to 113°F (-30°C to 45°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 131°F (-30°C to 55°C)	14°F to 122°F (-10°C to 50°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC or PoE (802.3af, Class 0) <12 W	12 VDC or PoE (802.3af, Class 0) <12 W	12 VDC or PoE (802.3af, Class 0) <12 W	12 VDC or PoE (802.3af, Class 0) 12 VDC: 5.1 W with IR On PoE: 6 W with IR On	12 VDC or PoE (802.3af, Class 0) 12 VDC: 7.3 W with IR On PoE: 8.8 W with IR On	12 VDC, PoE (802.3af, Class 0) 12 VDC: 9.5 W with IR On PoE: 11.5 W with IR On

	LincX2PRO		
	DHI-DB11	IPC-C26EN	IPC-L26N
			
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Lens	1.9mm	2.8mm	2.8mm
Field of View	Horizontal: 140°	Horizontal: 111° Vertical: 58°	Horizontal: 114° Vertical: 66°
WiFi Capability	2.4 GHz WiFi (IEEE802.11b/g/n) 100 m (328 ft) Open Field WiFi Internal Dual Antennae, 2 x 2 MIMO	2.4 GHz WiFi (IEEE802.11b/g/n) 100 m (328 ft) Open Field WiFi Internal Dual Antennae, 2 x 2 MIMO	2.4 GHz WiFi (IEEE802.11b/g/n) 100 m (328 ft) Open Field WiFi Internal Dual Antennae, 2 x 2 MIMO
Maximum IR Distance	16ft (5m)	33ft (10m)	33ft (10m)
Video Compression (Main Stream)	H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	2MP (1920 x 1080)	2MP (1920 x 1080)	2MP (1920 x 1080)
Frame Rate	30fps@2MP	30fps@2MP	30fps@2MP
Interoperability	CGI	CGI	CGI
Motion Detection	Passive Infrared (PIR) Configurable area and distance: Coverage: up to 120° Distance: up to 5.0 m (16.50 ft)	Passive Infrared (PIR) Configurable Regions	Passive Infrared (PIR) Configurable area and distance: Coverage: up to 270° Distance: up to 10.0 m (32.81 ft)
Active Deterrence	—	Integrated 110 dB Siren and Spotlight	Integrated 110 dB Siren and Floodlight (2000 lm, 3000K)
Audio In/Out	Built-in Microphone Built-in Speaker	Built-in Microphone Built-in Speaker with integrated 110dB Siren	Built-in Microphone Built-in Speaker with integrated 110dB Siren
Memory Slot	Micro SD, Max 64GB	Micro SD, Max 128GB	Micro SD, Max 256GB
Environmental Protection	IP55	IP65	IP65
Working Temperature	-4°F to 122°F (-20°C to 50°C)	-4°F to 122°F (-20°C to 50°C)	-4°F to 122°F (-20°C to 50°C)
Power	16 VAC to 24 VAC or 12 VDC / 24 VDC < 9 W	5 VDC, 2 A < 6 W	100 VAC to 240 VAC < 40 W



LincX2PRO

As the trend to interact with all areas of homelife mature and business budgets are tightened, smart device enthusiasts can become overwhelmed with DIY projects and require a professional installation. As a result, this can be an enormous opportunity for traditional security companies.

For businesses who want to capitalize on more opportunities in this fast-trending space, the **LincX2PRO** from Dahua can help streamline and expand ecosystems for an all in one package. The series offers an alternative to popular consumer-based WiFi devices to secure what matters most.



Whether it's wanting to integrate a smart security system with other devices, or installing a stand alone system for budget conscious consumers, the **LincX2PRO** series is a perfect fit for residential and small to mid-size businesses.

Alexa® is a registered trademark of Amazon Technologies, Inc.

Network Products

	Network Multi-sensor Cameras					
	DH-PSDW81642M-A360  UltraSeries Wiz Mind	DH-IPC-PFW8840N-A180  UltraSeries Wiz Mind	DH-IPC-PDBW8840-A180  UltraSeries Wiz Mind	DH-IPC-PDBW82041N-B360  UltraSeries Wiz Mind	DH-IPC-PDBW5831N-B360  UltraSeries	DH-IPC-HDBW4231FN-E2-Mxxx  ProSeries
Image Sensor	Panoramic: 8 x 1/1.8" 2MP CMOS PTZ: 1/1.8" 4MP CMOS	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/2.7" 5MP CMOS per Sensor (4 sensors total)	1/2.8" 2MP STARVIS™ CMOS per sensor (4 independent sensors)	1/2.8" 2MP STARVIS™ CMOS per sensor (2 independent sensors)
Lens	Panoramic: 5 mm PTZ: 5.6 mm to 223 mm	2.8mm	2.8mm	2.8mm to 12mm Motorized	2.7mm to 12mm Motorized	2.8mm/RJ45 2.8mm/M12
Horizontal Field of View	Panoramic: 360° PTZ: 61° to 2°	180°	180°	100° to 36° (per lens)	105° to 44°	110°
Minimum Illumination	Panoramic: 0.01 lux at F2.0 PTZ: 0.008 lux at F1.3 (1/3 s, 30 IRE)	Starlight+ Color: 0.002 lux/F1.6 0 lux/F1.6 (IR on)	Starlight+ Color: 0.002 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.7 0 lux/F1.7 (IR on)	Enhanced Starlight Color: 0.005 lux at F1.8 (1/3 s, 30 IRE) Color: 0.06 lux at F1.8 (1/30 s, 30 IRE) 0 lux at F1.8 (IR on)	Basic Starlight Color: 0.009 lux/F2.0 (1/3 s, 30 IRE) Color: 0.07 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	DWDR	DWDR	True WDR (120dB) (all channels)	Ultra WDR (140dB, Channel 1) DWDR remaining channels	True WDR (120dB)
Maximum IR Distance	1312ft (400m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m) 2 LEDs per sensor	66ft (20m) per sensor
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG (sub stream)	H.265, H.264H MJPEG (sub stream)
Maximum Resolution	Panoramic: 8192 x 1800 PTZ: 4 MP (2560 x 1440)	2MP per Sensor (4 sensors total)	2MP per Sensor (4 sensors total)	5MP per Sensor (4 sensors total)	2MP per sensor (4 sensors total)	2MP per sensor
Frame Rate	Panoramic Camera: 30fps@8192 x 1800 PTZ Camera: 30fps@4MP	30fps@4096 x 1800 total output	30fps@4096 x 1800 total output	30fps@5MP per sensor	25fps@1080p per sensor	30fps@1080p per sensor
Multi-streaming	3 streams	3 streams	3 streams	3 streams per sensor	2 streams per sensor	2 streams per sensor
Pan/Tilt/Zoom	Pan: 0° to 360°, endless Tilt: -20° to 90° Auto flip: 180°	Pan: 0° to 355° Tilt: 0° to 90° Rotation: 0° to 360°	Pan: 0° to 355° Tilt: 0° to 75° Rotation: ± 20°	Pan: 0° to 360° Tilt: 0° to 80° Rotation: 0° to 355°	Pan: 0° to 360° Tilt: 0° to 80° Rotation: 0° to 355°	Pan: ±90° Tilt: 0° to 65° Rotation: 0° to 360°
Preset Speed	Pan: 0.1°/s to 240°/s Tilt: 0.1°/s to 120°/s	—	—	—	—	—
Intelligent Video	Motion, Tripwire, Intrusion, Smart Tracking	Premium IVS, Analytics+ Functions — Crowd Density and Vehicle Density	Premium IVS, Analytics+ Functions — Crowd Density and Vehicle Density	Premium IVS, Analytics+ Functions — Perimeter Protection, Face Detection	Motion, Tripwire, Intrusion, Scene Change	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object
Compatibility	ONVIF Profile G, CGI	ONVIF (Profile S/Profile G/Profile T), CGI, P2P, Milestone, Genetec	ONVIF (Profile S/Profile G/Profile T), CGI, P2P, Milestone, Genetec	ONVIF (Profile S/Profile G/Profile T), CGI, P2P, Milestone, Genetec	ONVIF, CGI	ONVIF Profile S/G, PSIA, CGI
Audio In/Out	2/2	1/1	1/1	1/1	1/1	Built-in Microphone
Memory Slot	Micro SD, Max 512GB (panoramic only)	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 128GB
Alarm In/Out	7/3	2/2	2/2	3/2	1/1	—
Environmental Protection	IP66	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10, EN50155 Vibration
Working Temperature	-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)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	36 VDC Max < 84.4 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4) Max 16.2 W	12 VDC, 24 VAC, or PoE+ (802.3at, Class 4) < 14.9 W	12 VDC or PoE+ (802.3at, Class 4) 12 VDC: Max 21.5 W PoE+: Max 22.2 W	24 VAC or PoE+ (802.3at, Class 4) 24 VAC: 9.9 W, 31.2 W with IR on PoE+: 10.6 W, 23.8 W with IR on	12 VDC or PoE (802.3af, Class 0) < 6.5 W

Model	People Counting	Network PTZ Cameras				
	DH-IPC-HDW8341XN-3D-S2  UltraSeries Wiz Mind	6AE530UNI  UltraSeries	6AE240VNI  UltraSeries	DH-PTZ19240VN-IRB-N  UltraSeries	6AL445XANR  UltraSeries Wiz Mind	8A840WANF  UltraSeries Wiz Mind 4K
Image Sensor	Two (2) 1/2.8-in. 3 MP CMOS Sensors	1/1.9" 5MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS
Lens	2.8 mm, each lens	6mm - 180mm (30x Optical Zoom)	4.5mm - 180mm (40x Optical Zoom)	4.5mm - 180mm (40x Optical Zoom)	3.95mm - 177.7mm (45x Optical Zoom)	5.6mm - 223mm (40x Optical Zoom)
Horizontal Field of View	137°	61.2° to 2.1°	67.5° to 1.7°	67.5° to 1.7°	70.3° to 1.8°	63.9° to 2.0°
Minimum Illumination	Color: 0.009 lux at F1.8 0 lux at F1.8 (IR on)	Color: 0.01 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.2 0 lux/F1.2 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.2 0 lux/F1.2 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.002 lux/F1.4 B/W: 0.0002 lux at 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
Wide Dynamic Range (WDR)	DWDR	DWDR	Ultra WDR (140dB)	Ultra WDR (140dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	33ft (10m)	656ft (200m)	656ft (200m)	984ft (300m)	1804ft (550m)	1640ft (500m)
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)
Maximum Resolution	3MP (2048 x 1536)	5MP (2560 x 1920)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	8 MP (3840 x 2160)
Frame Rate	25fps@3MP	30fps@5MP 60fps@1080p	60fps@1080p	60fps@1080p	60fps@1080p	30fps@8MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	—	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: 0° – 360° endless, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -30° – 90°, Auto Flip 180°
Preset Speed	—	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 120° /s; Tilt: 60° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 120° /s
Intelligent Video	Analytics+: People Counting via Line Crossing/Regional, Loitering, Heat Map, Premium: Motion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Analytics+ (Perimeter Protection) Premium IVS (Motion, Tripwire, Intrusion, Abandoned/Missing Object, Auto-tracking)
Compatibility	ONVIF Profile S/G, API	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profile S and G), API
Audio In/Out	2/1, Built-in Microphone	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB
Alarm In/Out	2/2	7/2	7/2	7/2	7/2	7/2
Environmental Protection	IP67	IP67, IK10	IP67, IK10	IP68	IP67	IP67
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	24 VAC: -58°F to +158°F (-50°C to 70°C) Hi-PoE: -40°F to +158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)
Power	12 VDC, 1 A or PoE (802.3af, Class 0) <12 W	24 VAC, 3A (±25%) or Hi-PoE 24 W, 38 W with IR on	24 VAC, 3A (±25%) or Hi-PoE 24 W, 38 W with IR on	24 VAC, 5A (±25%) or Hi-PoE 35 W, 60 W with IR and Heater on	24 VAC, 3A (±25%) or Hi-PoE Max 24 W, 38 W with IR on	24 VAC, 3A (±25%) or Hi-PoE Max 26 W, 42 W with IR on

Network Products

Model	Network PTZ Cameras					
	 ProSeries WiZ Sense	 ProSeries	 ProSeries WiZ Sense	 ProSeries WiZ Sense	 ProSeries WiZ Sense	 LiteSeries
Image Sensor	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	3.95 mm to 177.75 mm (45x Optical Zoom)	4.5mm to 135mm (30x Optical Zoom)	3.95mm to 177.7mm (45x Optical Zoom)	4.9mm to 156mm (32x Optical Zoom)	4.8mm to 120mm (25x Optical Zoom)	5.3mm to 64mm (12x Optical Zoom)
Horizontal Field of View	70.3° to 1.8°	67.8° to 2.4°	70.3° to 1.8°	68.3° to 2.2°	60.0° to 2.5°	58.2° to 4.8°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6
Wide Dynamic Range (WDR)	True Day/Night True WDR (120dB)	True Day/Night True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	820ft (250m)	656ft (200m)	492ft (150m)	492ft (150m)	328ft (100m)	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (sub stream only)	H.265, H.264
Maximum Resolution	4 MP (2560 x 1440)	1080p (1920 x 1080)	4MP (2560 x 1440)	1080p (1920 x 1080)	4MP (2560 x 1440)	1080p (1920 x 1080)
Frame Rate	30fps@4MP	60fps@1080p	30fps@ 4MP, 3MP	30fps@1080p	30fps@ 4MP	30fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 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°	300 Presets, Pan: 0° – 360° endless; Tilt: -2° – 90°, Auto Flip 180°
Preset Speed	Pan: 300° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s
Intelligent Video	Analytics+ (Perimeter Protection) Premium IVS (Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Auto-tracking)	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, Heat Map, Auto-tracking	Analytics+ (Perimeter Protection, Alarm Track, Smart Motion Detection) Premium IVS (Motion, Abandoned/Missing Object, Auto-tracking)	Analytics+ (Perimeter Protection, Smart Motion Detection, Face Detection) Premium IVS (Motion, Abandoned/Missing Object, Auto-tracking)	Analytics+ (Perimeter Protection, Smart Motion Detection, Face Detection) Premium IVS (Motion, Abandoned/Missing Object)	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**
Compatibility	ONVIF (Profile S and G), API	ONVIF, PSIA, CGI	ONVIF Profile S and G, CGI	ONVIF Profile S and G, CGI	ONVIF Profile S and G, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 128GB
Alarm In/Out	7/2	7/2	2/1	2/1	2/1	2/1
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP66	IP66	IP66, IK10
Working Temperature	-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)	-40°F to 158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)
Power	24 VAC, 3A (±10%) or PoE+ (802.3at, Class 4) 13 W, 26 W with IR and heater on	24 VAC, 3A (±25%) or PoE+ (802.3at, Class 4) 17 W, 26 W with IR and heater on	24 VAC, 3 A (± 25%) or PoE+ (802.3at, Class 4) 13 W, 23 W with IR on	24 VAC, 3 A (± 25%) or PoE+ (802.3at, Class 4) 13 W, 24 W with IR on	12 VDC or PoE+ (802.3at, Class 4) 13 W, 21 W with IR on	24 VAC, 1.5A or PoE+ (802.3at Class 4) 12 W, 22 W with heater on

Model	Network PTZ Cameras					
	50232XANR  ProSeries WizSense	52C232XANR  ProSeries WizSense	T5X225WAN  UltraSeries	50230UNI-A  ProSeries	42212TNI  LiteSeries	22204UENI  LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP CMOS (two sensors)	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.9mm to 156mm (32x Optical Zoom)	4.9mm to 156mm (32x Optical Zoom)	4.8mm to 120mm (25x Optical Zoom)	4.5mm to 135mm (30x Optical Zoom)	5.3mm to 64mm (12x Optical Zoom)	2.7mm to 11mm (4x Optical Zoom)
Horizontal Field of View	62.8° to 2.2°	62.8° to 2.2°	PTZ: 59.60° to 4.80° Panoramic: 53.70°	67.8° to 2.4°	58.2° to 4.8°	112.5° to 30°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.35	Enhanced Starlight Color: 0.005 lux/F1.35	Enhanced Starlight Color: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	—	—	PTZ: 328ft (100m) Panoramic: 98ft (30m)	—	—	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264M, H.264H, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264M, H.264H, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264 Baseline Profile, H.264 Main Profile, H.264 High Profile, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	1080p (1920 x 1080)	1080p (1920 x 1080)	PTZ: 1080p (1920 x 1080) Panoramic: 1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	60fps@1080p	60fps@1080p	PTZ: 60fps@1080p Panoramic 60fps@1080p	60fps@1080p 60fps@720p	30fps@1080p	30fps@1080p
Multi-streaming	3 streams	3 streams	3 streams, per channel	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 360° endless; Tilt: -15° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: 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°	300 Presets, Pan: 0° – 360° Endless, Tilt: -2° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Tilt: 0° – 90°
Preset Speed	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 430° /s; Tilt: 243° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100° /s; Tilt: 60° /s
Intelligent Video	Analytics+ (Perimeter Protection, Smart Motion Detection, Face Detection) Premium IVS (Motion, Abandoned/Missing Object, Auto-tracking)	Analytics+ (Perimeter Protection, Smart Motion Detection, Face Detection) Premium IVS (Motion, Abandoned/Missing Object, Auto-tracking)	Analytics+ (Perimeter Protection, Premium IVS (Motion, Abandoned/Missing Object)	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**
Compatibility	ONVIF Profile S, G, T; CGI	ONVIF Profile S, G, T; CGI	ONVIF, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	—
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	—
Environmental Protection	IP67, IK10	IK10	IP67	IP67, 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 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	24 VAC, 3 A (±25%) or PoE+ (802.3at, Class 4) 13 W, 24 W with IR on	24 VDC, 2.5 A or PoE+ (802.3at, Class 4) 10 W	36 VDC, 2.23 A (±25%) or Hi-PoE Max 40 W	24 VAC (±10%) or PoE+ (802.3at, Class 4) 13 W, 23 W with heater on	24 VAC, 1.5A or PoE+ (802.3at, Class 4) 12 W	12 VDC, 1.5A, PoE (802.3af, Class 0) 5.5 W

Network Products

Model	Network PTZ Cameras				WiFi PTZ Cameras
	12203TNI  LiteSeries	1A404XBNR  LiteSeries WizSense	52C230UNI-A  ProSeries	42C212TNI  LiteSeries	22204UENI-W  LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.7mm to 8.1mm (3x Optical Zoom)	2.8mm to 12mm (4x Optical Zoom)	4.5mm to 135mm (30x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)
Horizontal Field of View	105.6° to 35.2°	96.9° to 31.6°	67.8° to 2.4°	58.2° to 4.8°	112.5° to 30°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.8 B/W: 0.0005 lux/F1.8	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	—	49ft (15m)	—	—	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264B, H.264M, H.264H, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264	H.265, H.264	H.265, H.264, MJPEG (sub-stream only)
Maximum Resolution	1080p (1920 x 1080)	4MP (2560 x 1440)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@1080p	30fps@4MP	60fps@1080p 60fps@720p	30fps@1080p	30fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 355° Tilt: 5° – 90°	300 Presets, Pan: 0° – 355° Tilt: 5° – 90°	300 Presets, Pan: 0° – 360° Endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Endless, Tilt: -2° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°
Preset Speed	Pan: 80°/s; Tilt: 40°/s	Pan: 80°/s; Tilt: 40°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 300°/s; Tilt: 120°/s	Pan: 100°/s; Tilt: 60°/s
Intelligent Video	Motion, Tripwire, Intrusion, Abandoned/Missing Object Detection, Scene Change, Auto-tracking	Analytics+ (Perimeter Protection, People Counting, Smart Motion Detection, Face Detection) Premium IVS (Scene Change, Abandoned/Missing Object)	Motion, Tripwire, Intrusion, Abandoned/Missing Object Detection, Scene Change, Auto-tracking	Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object Detection	Motion Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profile S and G), API
Audio In/Out	1/1 plus a Built-in Microphone	1/1	1/1	1/1	—
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	—	—	2/1	2/1	—
Environmental Protection	IP66, IK08	IP66, IK08	IK10	IK10	IP66, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	12 VDC, 1.5A or PoE (802.3af, Class 0) 6 W	12 VDC, 1.5 A (±15%) or PoE (802.3af, Class 0) 8.5 W with IR on	24 VAC, 1.5A (±10%) or PoE+ (802.3at, Class 4) 13 W	24 VAC, 1.5A or PoE+ (802.3at, Class 4) 12 W	12 VDC, 1.5 5.5 W

Model	LPR Cameras	
	ITC237-PW6M-IRLZF1050-B  UltraSeries	ITC215-PW6M-IRLZF-B  UltraSeries
Image Sensor	1/1.8-in. 2 MP GS CMOS	1/2.8-in. 2 MP GS CMOS
Lens	10 mm to 50 mm, Motorized	3.2 mm to 10.5 mm, Motorized
Angle of View	Horizontal: 46.60° to 10.62° Vertical: 40.60° to 9.30° Diagonal: 22.70° to 5.30°	Horizontal: 108.1° to 30.3° Vertical: 56.3° to 17.1° Diagonal: 130.9° to 34.8°
Focus Width Range	11.48 ft (3.50 m), approximately one (1) lane	11.48 ft (3.50 m), approximately one (1) lane
Wide Dynamic Range (WDR)	96 dB	96 dB
Maximum IR Distance	82 ft (25 m)	39 ft (12 m)
Video Compression	H.265, H.264M, H.264H, H.264B, MJPEG	H.265, H.264M, H.264H, H.264B, MJPEG
Maximum Resolution	1080p	1080p
Frame Rate	30 fps	30 fps
Intelligent Video	Vehicle Registration Intelligent Tracking	Vehicle Registration Intelligent Tracking
Compatibility	ONVIF, CGI	ONVIF, CGI
Audio In/Out	1, 1	-
Memory Slot	Micro SD, Max 64GB	Micro SD, Max 64GB
Alarm In/Out	1, 2	3, 3
Environmental Protection	IP67	IP67
Working Temperature	-22°F to 140°F (-30°C to 60,°C)	-22°F to 140°F (-30°C to 60,°C)
Power	12 VDC, 24 VAC, or PoE (802.3af Class 0) < 20 W	12 VDC, 24 VAC, or PoE (802.3af Class 0) < 20 W
Distance to License Plate	Min./Max.: 8 m to 30 m (26.25 ft to 98.43 ft) Optimal: 4 m to 6 m (13.12 ft to 19.69 ft)	Min./Max.: 3 m to 8 m (9.84 ft to 26.25 ft) Optimal: 4 m to 6 m (13.12 ft to 19.69 ft)
Horizontal/Vertical Angles	< 30°	< 30°
LPR Functions	Parking lot entrance management, Search by license plate, Allow/Block List	Parking lot entrance management, Search by license plate, Allow/Block List



Features and Functions

Dahua's New License Plate Recognition cameras automatically capture vehicle license plate images, and recognize license plate numbers and letters. During playback, an operator can perform a license plate search by time and date to view thumbnail images of all plates captured during the specified time period, or they can enter a license plate number to search for vehicles recorded with that plate. License plate recognition technology offers effective entrance/exit management, traffic surveillance, and parking lot monitoring with DSS Video Management Software.



Barrier Control



Up to 99% Accuracy



Motorized Vari-focal
Lens



Standard PoE

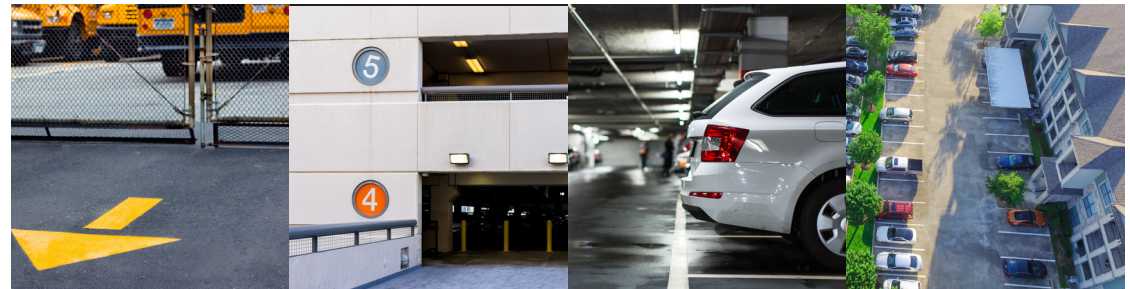
Application Scenarios

Universities and Campuses

Retail and Office
Parking Spaces

Hotel and Casino Parking

Residential Parking



Network Products

Model	Thermal Fire Detection				
	DH-TPC-BF5401N-Bx  ProSeries	DH-TPC-BF5601N-Bx  ProSeries	DH-TPC-BF2221N-B3  LiteSeries	DH-TPC-DF1241N Series  LiteSeries	DH-TPC-BF1241N Series  LiteSeries
Sensor	400 x 300 VOx Uncooled	640 x 512 VOx Uncooled	Thermal: 256 x 192 VOx Uncooled Visible-light: 1/2.8-in. 2 MP CMOS	Thermal: 256 x 192 VOx Uncooled Visible-light: 1/2.7-in. 4 MP CMOS	Thermal: 256 x 192 VOx Uncooled Visible-light: 1/2.7-in. 4 MP CMOS
Lens	7.5 mm, 13 mm, or 25 mm Fixed Lens Options, Athermalized	7.5 mm, 13 mm, or 25 mm Fixed Lens Options, Athermalized	Thermal: 3.5 mm Fixed, Athermalized Visible-light: 4 mm Fixed	Thermal: 2 mm, 3.5 mm, or 7 mm, Athermalized Visible-light: 2 mm, 4 mm, or 8 mm, Fixed	Thermal: 3.5 mm or 7 mm, Athermalized Visible-light: 4 mm or 8 mm, Fixed
Effective Thermal Distance, Detection	with 25 mm Lens: Human: 2411ft (735m) Vehicle: 5361ft (1634m)	with 25 mm Lens: Human: 2411ft (735m) Vehicle: 5361ft (1634m)	Human: 479ft (146m) Vehicle: 1276 ft (389m)	with 7 mm Thermal Lens: Human: 958ft (292m) Vehicle: 2552ft (778m)	with 7 mm Thermal Lens: Human: 958ft (292m) Vehicle: 2552ft (778m)
Thermal Sensitivity (NETD)	40 mK	< 40 mK	≤ 50 mK	< 50 mK	< 50 mK
Pixel Size, Thermal	17 μm	17 μm	12 μm	12 μm	12 μm
Spectral Range, Thermal	8 μm to 14 μm	8 μm to 14 μm	8 μm to 14 μm	8 μm to 14 μm	8 μm to 14 μm
Horizontal Field of View	7.5 mm: 53.7° 13 mm: 30.2° 25 mm: 15.5°	7.5 mm: 91.2° 13 mm: 48.9° 25 mm: 24.6°	Thermal: 50.6° Visible-light: 80°	Thermal: 87.8° (2 mm lens) Visible-light: 94° (2 mm lens)	Thermal: 50.6° (3.5 mm lens) Visible-light: 71.2° (4 mm lens)
Wide Dynamic Range (WDR)	—	—	DWDR	DWDR	DWDR
Video Compression (Main Stream)	H.265, H.264, MJPEG (sub-stream only)	H.265, H.264, MJPEG (sub-stream only)	H.265, H.264M, H.264H, H.264B, MJPEG (sub-stream only)	H.265, H.264M, H.264H, H.264B, MJPEG (sub-stream only)	H.265, H.264M, H.264H, H.264B, MJPEG (sub-stream only)
Maximum Resolution	1280 x 1024	1280 x 1024	Thermal: 1280 x 960 Visible-light: 1920 x 1080	Thermal: 1280 x 960 Visible-light: 2336 x 1752	Thermal: 1280 x 960 Visible-light: 2336 x 1752
Frame Rate	30fps@1280 x 1024	30fps@1280 x 1024	Thermal: 30fps@1280 x 960 Visible-light: 30fps@1920 x 1080	Thermal: 30fps@1280 x 960 Visible-light: 30fps@2336 x 1752	Thermal: 30fps@1280 x 960 Visible-light: 30fps@2336 x 1752
Multi-streaming	2 streams	2 streams	2 streams per sensor	2 streams per sensor	2 streams per sensor
Intelligent Video	Tripwire, Intrusion, Fire Detection, Cold/Hot Spot Trace, Human/Vehicle Classification	Tripwire, Intrusion, Fire Detection, Cold/Hot Spot Trace, Human/Vehicle Classification	Tripwire, Intrusion, Abandoned/Missing Object, Fire Detection, Cold/Hot Spot Trace, Human/Vehicle Classification	Abandoned/Missing Object, Fire Detection, Cold/Hot Spot Trace, Smoking Detection, Human/Vehicle Classification	Abandoned/Missing Object, Fire Detection, Cold/Hot Spot Trace, Smoking Detection, Human/Vehicle Classification
Compatibility	ONVIF (Profile S & G), API	ONVIF (Profile S & G), API	ONVIF (Profile S & G), API	ONVIF, CGI	ONVIF, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/2	2/2	2/2	1/1	1/1
Environmental Protection	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°F to 158°F (-40°C to 70°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)	-22°F to 140°F (-30°C to 60°C)
Power	12 VDC, 1 A or PoE (802.3af Class 0) Max 13 W	12 VDC, 1 A or PoE (802.3af Class 0) Max 13 W	12 VDC (±15%), 1 A or PoE (802.3af Class 0) Max 12 W	12 VDC (±20%) or PoE (802.3af Class 0) Max 13 W	12 VDC (±20%) or PoE (802.3af Class 0) Max < 14 W

Model	Thermal with Thermometry		
	DH-TPC-BF5401N-TBx	DH-TPC-BF5601N-TBx	DH-TPC-BF2221N-TBx
			
Sensor	400 x 300 VOx Uncooled	640 x 512 VOx Uncooled	Thermal: 256 x 192 VOx Uncooled Visible: 1/2.8" 2 MP CMOS
Lens	7.5 mm, 13 mm, or 25 mm Fixed Lens Options, Athermalized	7.5 mm, 13 mm, or 25 mm Fixed Lens Options, Athermalized	Thermal: 3.5 mm or 7 mm Fixed Lens Options, Athermalized Visible: 4 mm or 8 mm Fixed Lens Options
Effective Thermal Distance, Detection	with 25 mm Lens: Human: 2411ft (735m) Vehicle: 6434ft (1961m)	with 25 mm Lens: Human: 2411ft (735m) Vehicle: 6434ft (1961m)	with 7 mm Lens: Human: 958ft (292m) Vehicle: 2552ft (778m)
Thermal Sensitivity (NETD)	< 40 mK	< 40 mK	≤ 50 mK at f1.0
Pixel Size, Thermal	17 μm	17 μm	12 μm
Spectral Range, Thermal	8 μm to 14 μm	8 μm to 14 μm	8 μm to 14 μm
Horizontal Field of View	7.5 mm: 53.7° 13 mm: 30.2° 25 mm: 15.5°	7.5 mm: 91.2° 13 mm: 48.9° 25 mm: 24.6°	3.5 mm: 50.6° 7 mm: 24°
Temperature Measurement	Low: -4° F to 302° F (-20° C to 150° C) High: 32° F to 1022° F (0° C to 550° C) Accuracy: ±2.0° C (±3.6° F)	Low: -4° F to 302° F (-20° C to 150° C) High: 32° F to 1022° F (0° C to 550° C) Accuracy: ±2.0° C (±3.6° F)	Low: -4° F to 302° F (-20° C to 150° C) High: 32° F to 1022° F (0° C to 550° C) Accuracy: ±0.5° C (0.9° F)
Video Compression (Main Stream)	H.265, H.264, H.264H, H.264B, MJPEG (sub-stream only)	H.265, H.264, H.264H, H.264B, MJPEG (sub-stream only)	H.265, H.264, H.264H, H.264B, MJPEG (sub-stream only)
Maximum Resolution	1280 x 1024	1280 x 1024	Thermal: 1280 x 960 Visible: 1080p
Frame Rate	30fps@1280 x 1024	30fps@1280 x 1024	Thermal: 30fps@1280 x 960 Visible: 30fps@1080p
Multi-streaming	2 streams	2 streams	2 streams per channel
Intelligent Video	Tripwire, Intrusion, Rapid Temp. Rise, Cold/Hot Spot Trace, Human/Vehicle Classification	Tripwire, Intrusion, Rapid Temp. Rise, Cold/Hot Spot Trace, Human/Vehicle Classification	Tripwire, Intrusion, Rapid Temp. Rise, Cold/Hot Spot Trace, Human/Vehicle Classification, Temperature Monitoring
Compatibility	ONVIF, CGI, Dahua SDK	ONVIF, CGI, Dahua SDK	ONVIF Profile S & G, API
Audio In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/2	2/2	2/2
Environmental Protection	IP67	IP67	IP67
Working Temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-22°F to 140°F (-30°C to 60°C)
Power	12 VDC ±20%, 1.2 A; or PoE (802.3af, Class 0) Max 13 W	12 VDC ±20%, 1.2 A; or PoE (802.3af, Class 0) Max 13 W	12 VDC ±20% or PoE (802.3af, Class 0) Max 12 W

The Dahua Thermal Network Bullet Series cameras combine an uncooled VOx Microbolometer sensor with an athermalized lens to produce high contrast thermal images. These cameras produce clear images in total darkness, and deliver usable images in fog, rain, and snow, offering covert surveillance without the need for external light. The series offers Fire Detection and Alarm features that identify an abnormal rise in temperature and sends an alert to warn of a potential fire. Dahua thermal cameras are ideal for forestry, border/perimeter security, and industrial applications.

The series offers a unique combination of features such as flexible installation with ePoE technology, thermal imaging and Intelligent Video Analytics at the edge. Combining these features makes the camera suitable for mission-critical applications that require long-distance transmission up to 800m without repeaters, video content analysis for active alarms and the ability to install over standard UTP or coaxial infrastructures.

- Designed for outdoor use and extreme temperature environments -40° F to +158° F
- Compact, reliable, cost-effective camera with high thermal sensitivity

Application Scenarios:



Fire Detection



Refineries



Border Crossings

Network Products

Model	Human Temperature Monitoring			SafetyTemp	
	DH-TPC-BF3221-T  UltraSeries PoE	DH-TPC-BF5421-T  UltraSeries PoE	DH-TPC-HT2201  ProSeries	DHI-ASI7213X-T1  ProSeries	
Sensor	Thermal: 256 x 192 VOx Uncooled Visible: 1/2.8" 2 MP CMOS	Thermal: 400 x 300 VOx Uncooled Visible: 1/2.8" 2 MP CMOS	256 x 192 VOx Uncooled	Sensor	Two (2) 1/2.8-in. 2 MP CMOS Sensors
Lens	Thermal: 7 mm Fixed Lens Athermalized Visible: 8 mm Fixed Lens	Thermal: 13 mm Fixed Lens Athermalized Visible: 8 mm Fixed Lens	3.5mm Fixed Lens, Athermalized	Wide Dynamic Range	True WDR (120dB)
Effective Thermal Distance, Detection	—	—	—	Illumination	Infrared White Light
Thermal Sensitivity (NETD)	≤ 50 mK at f1.0	≤40 mK	≤ 50 mK at F1.0	Display	7-in Capacitive Screen
Pixel Size, Thermal	12 μm	17 μm	12 μm	Resolution	600 pixels x 1024 pixels
Spectral Range, Thermal	8 μm to 14 μm	8 μm to 14 μm	8 μm to 14 μm	Temperature Monitoring Area	120 pixels x 90 pixels
Horizontal Field of View	Thermal: 24° Visible: 40°	Thermal: 30.0° Visible: 22.60°	50.6°	Visual Angle	50°
Temperature Measurement	86° F to 113° F (30° C to 45° C) Accuracy: ±0.3° C, with blackbody ±0.5° C, without blackbody	86° F to 113° F (30° C to 45° C) Accuracy: ±0.3° C, with blackbody ±1° C, without blackbody	86° F to 113° F (30° C to 45° C) Accuracy: ±0.5° C (0.9° F)	Temperature Monitoring Range	86° F to 122° F (30° C to 50° C)
Video Compression (Main Stream)	H.265, H.264, MJPEG (sub-stream only)	H.265, H.264, H.264H, H.264B, MJPEG (sub-stream only)	—	Ambient Temperature Range	60.80° F to 89.60° F (16° C to 32° C)
Maximum Resolution	Thermal: 1280 x 1024 Visible: 1080p	Thermal: 1280 x 1024 Visible: 1080p	320 x 240 (on built-in display)	Accuracy	0.1° C (0.18° F)
Frame Rate	Thermal: 30fps@1280 x 1024 Visible: 30fps@1080p	Thermal: 30fps@1280 x 1024 Visible: 30fps@1080p	—	Effective Distance	11.81 in. to 70.86 in. (0.30 m to 1.80 m)
Multi-streaming	2 streams per channel	2 streams per channel	—	Network	One (1) 1000 Mbps Port, RJ-45 One (1) 10/100 Mbps Port, RJ-45
Intelligent Video	—	—	—	Interface	One (1) RS485 One (1) RS232 One (1) Wiegand
Compatibility	ONVIF Profile S & G, API	ONVIF Profile S & G, API	—	Alarm In/Out	2/1
Audio In/Out	1/1	1/1	—	Audio In/Out	—
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 32GB	Interoperability	ONVIF, CGI, SDK Support
Alarm In/Out	2/1	2/2	—	Working Temperature	59° F to 89.6° F (+15° C to +32° C)
Environmental Protection	IP67	IP67	—	Environmental Protection	—
Working Temperature	50°F to 86°F (10°C to 30°C)	50°F to 86°F (10°C to 30°C)	59°F to 95°F (15°C to 35°C)	Dimensions	12.30 in. x 5.08 in. x 1.44 in. (.312.50 mm x 129.0 mm x 36.70 mm)
Power	12 VDC (±20%), 1.2A or PoE (802.3af, Class 0) Max 12 W	12 VDC (±20%) or PoE (802.3af, Class 0) Max <18 W	Built-in Rechargeable Lithium-Ion Battery	Power	12 VDC, 2 A ≤ 24 W

Model	Security System Kits						
	N444E42S	N484E62S	N564E124S	N588D63S	N568D124S	N444E42A	N484E62A
Cameras							
	4 x N42BJ62 4MP Cameras	6 x N42BJ62 4MP Cameras	12 x N42BJ62 4MP Cameras	6 x N82AL32 4K Cameras	12 x N82AL32 4K Cameras	3 x N42BJ62 4MP Cameras 1 x DHI-DB11 2MP WiFi Video Doorbell	5 x N42BJ62 4MP Cameras 1 x DHI-DB11 2MP WiFi Video Doorbell
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	N42BJ62: 1/3" 4MP CMOS DHI-DB11: 1/2.7" 2MP CMOS	N42BJ62: 1/3" 4MP CMOS DHI-DB11: 1/2.7" 2MP CMOS
Minimum Illumination	Basic Starlight Color: 0.008 lux at F1.6 0 lux (IR on)	Basic Starlight Color: 0.008 lux at F1.6 0 lux (IR on)	Basic Starlight Color: 0.008 lux at F1.6 0 lux (IR on)	Basic Starlight Color: 0.009 lux at F2.0 0 lux (IR on)	Basic Starlight Color: 0.009 lux at F2.0 0 lux (IR on)	Basic Starlight Color: 0.008 lux at F1.6 0 lux (IR on)	Basic Starlight Color: 0.008 lux at F1.6 0 lux (IR on)
Lens	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm	N42BJ62: 2.8mm DHI-DB11: 1.9mm	N42BJ62: 2.8mm DHI-DB11: 1.9mm
Horizontal Field of View	102°	102°	102°	106°	106°	N42BJ62: 102° DHI-DB11: 140°	N42BJ62: 102° DHI-DB11: 140°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	N42BJ62: True Day/Night	N42BJ62: True Day/Night
Maximum IR Distance	98 ft (30 m)	98 ft (30 m)	98 ft (30 m)	98 ft (30 m)	98 ft (30 m)	N42BJ62: 98 ft (30 m)	N42BJ62: 98 ft (30 m)
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	N42BJ62 : True WDR (120dB)	N42BJ62 : True WDR (120dB)
Frame Rate	20fps@2688 x 1520	20fps@2688 x 1520	20fps@2688 x 1520	15fps@3840 x 2160	15fps@3840 x 2160	N42BJ62: 20fps@2688 x 1520 DHI-DB11: 30fps@2MP	N42BJ62: 20fps@2688 x 1520 DHI-DB11: 30fps@2MP
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, MJPEG (sub stream only)
Environmental	IP67	IP67	IP67	IP67, IK10	IP67, IK10	N42BJ62: IP67 DHI-DB11: IP55	N42BJ62: IP67 DHI-DB11: IP55
WiFi	—	—	—	—	—	DHI-DB11: 2.4 GHz WiFi (IEEE 802.11b/g/n)	DHI-DB11: 2.4 GHz WiFi (IEEE 802.11b/g/n)
Power	12 VDC or PoE (802.3af, Class 0) < 6.6 W	12 VDC or PoE (802.3af Class 0) < 6.6 W	12 VDC or PoE (802.3af Class 0) < 6.6 W	12 VDC or PoE (802.3af, Class 0) < 6.2 W	12 VDC or PoE (802.3af, Class 0) < 6.2 W	N42BJ62: 12 VDC or PoE (802.3af Class 0) < 6.6 W DHI-DB11: 16 VAC to 24 VAC or 16 VDC to 24 VDC,	N42BJ62: 12 VDC or PoE (802.3af Class 0) < 6.6 W DHI-DB11: 16 VAC to 24 VAC or 16 VDC to 24 VDC,
Network Video Recorder	N41B1P2	N41B2P2	N52B3P4	N52B2P3	N52B3P4	N41C1P2	N41C2P2
Video Compression	H.265, H.264	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
IP Video Inputs	4CH up to 8MP	8CH up to 8MP	16CH up to 12MP	8CH up to 8MP	16CH up to 8MP	4CH up to 8MP	8CH up to 8MP
Max Input/Record	80Mbps / 80Mbps	80Mbps / 80Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	80Mbps / 80Mbps	80Mbps / 80Mbps
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 Up to 6TB each ships with a pre-installed 2TB HDD	1 HDD Up to 6TB ships with a pre-installed 2TB HDD	2 HDD Up to 10TB each ships with a pre-installed 4TB HDD	2 HDD Up to 10TB each ships with a pre-installed 3TB HD	2 HDD Up to 10TB each ships with a pre-installed 4TB HD	1 HDD Up to 6TB ships with a pre-installed 2TB HDD	1 HDD Up to 6TB ships with a pre-installed 2TB HDD
Ethernet	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100/1000 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port	One (1) RJ45 (10/100 Mbps) Port
PoE	Four (4) Ports (IEEE 802.3af/at)	Eight (8) Ports (IEEE 802.3af/at)	16 Ports (IEEE 802.3af/at)	Eight (8) Ports (IEEE 802.3af/at)	16 Ports (IEEE 802.3af/at)	Four (4) Ports (IEEE 802.3af/at)	Eight (8) Ports (IEEE 802.3af/at)
Power	48 VDC, 1.5 A 50 W total PoE (25.5 W single port)	48 VDC, 1.5 A 80 W total PoE (25.5 W single port)	100 VAC to 240 VAC, 50/60 Hz 130 W total PoE (25.5 W single port)	100 VAC to 240 VAC, 50/60 Hz 130 W total PoE (25.5 W single port)	100 VAC to 240 VAC, 50/60 Hz 130 W total PoE (25.5 W single port)	100 VAC to 240 VAC, 48 V, 1.25 A 50 W total PoE (25.5 W single port)	100 VAC to 240 VAC, 53 V, 1.812 A 72 W total PoE (25.5 W single port)

Network Products

Model	Network Video Recorders					
	DHI-NVR5216-16P-I 4TB	DHI-IVSS7016DR-2I	DHI-NVR4216-16P-I Series	DHI-NVR6A08-128-4KS2	DHI-NVR6A08-64-4KS2	DHI-NVR6A08-32-4KS2
	 ProSeries WizMind 4K UltraSeries	 UltraSeries WizMind 4K UltraSeries	 UltraSeries WizSense 4K UltraSeries	 UltraSeries 4K UltraSeries	 UltraSeries	 UltraSeries
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG
IP Video Inputs	16 CH Up to 8MP	256 CH Up to 12MP	16 CH Up to 12MP	128 CH Up to 12MP	64 CH Up to 12MP	32 CH Up to 12MP
Max Input/Record	320Mbps / 320Mbps	512Mbps / 384Mbps	200Mbps / 200Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps
Display	1 HDMI, 1 VGA	3 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA
Max HDD	2 SATA Ports, up to 8TB each disk 16TB max	16 SAS/SATA Ports, up to 10TB each disk	2 SATA Ports, up to 8TB each disk 16TB max	8 SATA Ports, up to 8TB each disk 64TB max	8 SATA Ports, up to 8TB each disk 64TB max	8 SATA Ports, up to 8TB each disk 64TB max
RAID	—	0/1/5/6/10	—	0/1/5/10	0/1/5/10	0/1/5/10
eSATA/Mini SAS	—	1/-	—	1/-	1/-	1/-
Audio In/Out	1/1, 2-way	1/1	1/1	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/1	16/8	4/2	16/8	16/8	16/8
Ethernet	1 Gigabit Port	4 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports
PoE	16 PoE Ports (IEEE802.3af/at) (ePoE: Ports 1 to 8)	—	16 PoE Ports (IEEE802.3af/at) (ePoE: Ports 1 to 8)	—	—	—
USB	1 USB 3.0, 1 USB 2.0	2 USB 3.0, 2 USB 2.0	1 USB 3.0, 1 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
Power	100 VAC to 240 VAC, 50/60 Hz < 16.5 W (without HDD)	100 VAC to 240 VAC, 50/60 Hz < 110 W (without HDD)	100 VAC to 240 VAC, 50/60 Hz < 16.5 W (without HDD)	100 VAC to 240 VAC, 50/60 Hz < 20 W (without HDD)	100 VAC to 240 VAC, 50/60 Hz < 20 W (without HDD)	100 VAC to 240 VAC, 50/60 Hz < 20 W (without HDD)
Key Features	4K NVR, Perimeter Protection, Face Detection", ePoE, People Counting, Heat Map	4K IVSS, Perimeter Protection, Face Detection", LPR, Redundant Power	4K NVR, Perimeter Protection, Face Detection", ePoE, People Counting, Heat Map	4K NVR, IVS, Face Detection", People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, N+M	4K NVR, IVS, Face Detection", People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, N+M	4K NVR, IVS, Face Detection", People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, N+M

Model	Network Video Recorders					
	N52B5P	N54A4P	N52A4P	N52B3P	N54B3P	N52B2P
	 ProSeries ePoE	 ProSeries	 ProSeries	 ProSeries ePoE	 ProSeries ePoE	 ProSeries ePoE
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
IP Video Inputs	32CH Up to 12MP	24CH Up to 12MP	24CH Up to 12MP	16CH Up to 12MP	16CH Up to 12MP	8CH Up to 12MP
Max Input/Record	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps
Display	1 HDMI, 1 VGA	2 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 2 VGA	1 HDMI, 1 VGA
Max HDD	2 SATA Ports, up to 10TB each disk 20TB max	4 SATA Ports, up to 10TB each disk 40TB max	2 SATA Ports, up to 10TB each disk 20TB max	2 SATA Ports, up to 10TB each disk 20TB max	4 SATA Ports, up to 10TB each disk 40TB max	2 SATA Ports, up to 10TB each disk 20TB max
RAID	—	—	—	—	—	—
eSATA/Mini SAS	—	1/-	—	—	1/-	—
Audio In/Out	1/1	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/2, 2-way	1/1
Alarm In/Out	4/2	16/6	4/2	4/2	16/6	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	16 Ports (IEEE802.3af/at), 130W total Ports 1 to 8 for ePoE and EoC	24 Ports (IEEE802.3at) 220 W total	24 Ports (IEEE802.3at) 220 W total	16 Ports (IEEE802.3af/at), 150W total Ports 1 to 8 for ePoE and EoC	16 Ports (IEEE802.3af/at), 130W total Ports 1 to 8 for ePoE and EoC	8 Ports (IEEE802.3af/at) 130 W total, Ports 1 to 8 for ePoE and EoC
USB	1 USB 3.0, 1 USB 2.0	2 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0
Power	100 VAC to 240 VAC, 50/60 Hz <15.2W (without HDD)	100 VAC to 240 VAC, 50/60 Hz <18W (without HDD)	100 VAC to 240 VAC, 50/60 Hz <16W (without HDD)	100 VAC to 240 VAC, 50/60 Hz <15.2W (without HDD)	100 VAC to 240 VAC, 50/60 Hz <17.5W (without HDD)	100 VAC to 240 VAC, 50/60 Hz <15.2W (without HDD)
Key Features	4K ePoE/EoC NVR, IVS, Face Detection*, People Counting, Heat Map, Fisheye Dewarp, ALPC, ANR, Plug and Play	4K PoE NVR, IVS, Face Detection*, People Counting, Heat Map, Fisheye Dewarp, Smart Track, ANR, N+M, Plug and Play	4K PoE NVR, IVS, Face Detection*, People Counting, Heat Map, Fisheye Dewarp, Smart Track, ANR, N+M, Plug and Play	4K ePoE/EoC NVR, IVS, Face Detection*, People Counting, Heat Map, Fisheye Dewarp, POS, ALPC, Plug and Play	4K ePoE/EoC NVR, IVS, Face Detection*, People Counting, Heat Map, Fisheye Dewarp, POS, ALPC, ANR, Plug and Play	4K ePoE/EoC NVR, IVS, Face Detection*, People Counting, Heat Map, Fisheye Dewarp, POS, ALPC, Plug and Play

Network Products

Model	Network Video Recorders			4K WiFi Video Recorders
	N42B3P  LiteSeries	N42B2P  LiteSeries	N42B1P  LiteSeries	N41B1W  LiteSeries
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264
IP Video Inputs	16CH Up to 8MP	8CH Up to 8MP	4CH Up to 8MP	4CH Up to 8MP
Max Input/Record	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	80Mbps / 80Mbps wired; 24Mbps wireless
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	2 SATA Ports, up to 8TB each disk 16TB max	2 SATA Ports, up to 8TB each disk 16TB max	2 SATA Ports, up to 8TB each disk 16TB max	1 SATA Port, up to 4TB max
RAID	—	—	—	—
eSATA/Mini SAS	—	—	—	—
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	—
Alarm In/Out	4/2	4/2	4/2	—
Ethernet	1Gigabit Port	1 Gigabit Port	1 Gigabit Port	1x100Mbps Port, Supports two-antennas for a strengthened WiFi signal
PoE	16 Ports (IEEE802.3at) 130 W total	8 Ports (IEEE802.3af/at) 130 W total	4 Ports (IEEE802.3af/at) 50 W total	—
USB	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 2.0
Power	100 VAC to 240 VAC, 50/60 Hz <13.2 W (without HDD)	100 VAC to 240 VAC, 50/60 Hz <9.6 W (without HDD)	48 VDC, 2A <9.0 W (without HDD)	12 VDC, 2A 6.6 W (without HDD)
Key Features	4K NVR, IVS, Face Detection [™] , People Counting, Heat Map, Smart add, ANR, Plug and Play	4K NVR, IVS, Face Detection [™] , People Counting, Heat Map, Smart add, ANR, Plug and Play	4K NVR, IVS, Face Detection [™] , People Counting, Heat Map, Smart add, ANR, Plug and Play	4K WiFi AP NVR 2.4 GHz (IEEE802.11b/g/n), WiFi Protected Setup, Plug and Play, P2P

Model	HDCVI Box Cameras	HDCVI Bullet Cameras				
	A83AA9  UltraSeries 4K	A83ABBZ  UltraSeries 4K	A82AF5V  ProSeries 4K	A82AF53  ProSeries 4K	A52AF6Z  ProSeries 4K	A52AB62  ProSeries 4K
Image Sensor	4/3" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS
Minimum Illumination	Starlight+ Color: 0.001 lux/F1.2 (1/3s, 30IRE) Color: 0.0005 lux/F0.95 (1/3s, 30IRE)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Lens	Sold Separately	3.7mm to 11mm, Motorized, Auto Iris	3.7mm to 11mm, Motorized	3.6mm	2.7mm to 13.5mm, Motorized	2.8mm
Horizontal Field of View	—	112° to 46°	112° to 46°	87°	102° to 29°	98°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	—	328ft (100m)	262ft (80m)	262ft (80m)	262ft (80m)	131ft (40m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	Ultra WDR (140dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	15fps@4K (8MP)	15fps@4K (8MP)	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP
Video Output	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable
Audio In/Out	Built-in Microphone	1 Channel In	1 Channel In plus a Built-in Microphone	1 Channel In plus a Built-in Microphone	1 Channel In plus a Built-in Microphone (Camera accepts audio from only one input source.)	1 Channel In plus a Built-in Microphone (Camera accepts audio from only one input source.)
Alarm In/Out	—	2/1	—	—	—	—
Installation Angle	—	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°
Environmental Protection	—	IP67, IK10	IP67	IP67	IP67	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	24 VAC (±25%) or 12 VDC (±25%) Max 9W	24 VAC (±25%) or 12 VDC (±25%) Max 7W	24 VAC (±30%) or 12 VDC (±30%) Max 15W (12 VDC, IR on)	12 VDC (±30%) Max 11.3W (12 VDC, IR on)	24 VAC (±30%) or 12 VDC (±30%) Max 17.2W (12 VDC, IR on)	12 VDC (±30%) Max 7W (12 VDC, IR on)

Model	HDCVI Bullet Cameras					
	A22CFAZ  LiteSeries	A21CC0Z  ProSeries	DH-HAC-HFW32A1EN-Z  UltraSeries	A22CF63  LiteSeries	A21CF02  LiteSeries	A21BB03  LiteSeries
Image Sensor	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	1/2.9" 2MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.004 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.4 0 lux (IR on)	Enhanced Starlight Color: 0.004 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)	Color: 0.01 lux/F2.0 0 lux (IR on)
Lens	2.7mm to 13.5mm, Motorized, Fixed Iris	2.7mm to 12mm, Motorized	2.7mm to 12mm, Motorized, Auto Iris	3.6mm	2.8mm	3.6mm
Horizontal Field of View	108.7° to 28.7°	101.7° to 32.3°	95° to 36°	86.9°	106°	82.8°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	262ft (80m)	197ft (60m)	328ft (100m)	262ft (80m)	98ft (30m)	131ft (40m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR
Noise Reduction	2D/3D	2D	2D/3D	2D/3D	2D	2D
Frame Rate	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p
Video Output	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology Requires PFM820 to switch between formats
Audio In/Out	1 Channel In plus a Built-in Microphone	—	1 Channel In	1 Channel In plus a Built-in Microphone	Built-in Microphone	—
Alarm In/Out	—	—	1/1	—	—	—
Installation Angle	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 87° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°
Environmental Protection	IP67	IP67	IP67, IK10	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)	-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	24 VAC (±30%) or 12 VDC (±30%) Max 12 W (with IR on)	12 VDC ±30% Max 12.1 W (with IR on)	24 VAC (±25%) or 12 VDC (±25%) Max 16.6 W	12 VDC (±30%) Max 10.1 W (with IR on)	12 VDC (±30%) Max 3.7 W (12 VDC, IR on)	12 VDC (±25%) Max 4.6W (12 VDC with IR on)

Model	HDCVI Dome Cameras					
	A83ALBZ  LiteSeries 4K Ultra HD ProSeries	A82AM5V  4K Ultra HD ProSeries	A82AM52  4K Ultra HD ProSeries	A52AM9Z-B  ProSeries	A52AM9Z  ProSeries	A52AL42  ProSeries
Image Sensor	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux at F1.5 0 lux with IR on	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Lens	3.7mm to 11mm, Motorized	3.7mm to 11mm, Motorized	2.8mm	2.7mm to 13.5mm, Motorized	2.7mm to 13.5mm, Motorized	2.8mm
Horizontal Field of View	46° to 112°	112° to 46°	110.8°	102° to 29°	102° to 29°	98°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	164ft (50m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	3840 x 2160@15 fps 1280 x 720@30 fps	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP	20fps@5MP
Video Output	One (1) BNC HDCVI 4K Ultra High-definition Channel and, One (1) BNC CVBS Channel	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable
Audio In/Out	1 Channel In	1 Channel In	1 Channel In	1 Channel In	1 Channel In	1 Channel In
Alarm In/Out	2/1	—	—	—	—	—
Installation Angle	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 75° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-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)
Power	24 VAC (±25%) or 12 VDC (±25%) Max 12.4 W	24 VAC (±30%) or 12 VDC (±30%) Max 8.4 W (12 VDC, IR on)	12 VDC (±30%) Max 7W (12 VDC, IR on)	24 VAC (±30%) or 12 VDC (±30%) Max 11.8 W (12 VDC, IR on)	24 VAC (±30%) or 12 VDC (±30%) Max 11.8 W (12 VDC, IR on)	12 VDC (±30%) Max 5.3 W (12 VDC, IR on)

HDCVI Products

Model	HDCVI Dome Cameras					HDCVI Eyeball Cameras
	DH-HAC-HDBW32A1EN-Z  UltraSeries	A22CMAZ  ProSeries	A21CM0Z  ProSeries	A22CL62  ProSeries	A21CL02  LiteSeries	A82AH5V  ProSeries 
Image Sensor	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	1/1.8" 4K (8MP) CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.4 0 lux (IR on)	Enhanced Starlight Color: 0.004 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux (IR on)	Enhanced Starlight Color: 0.004 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux (IR on)
Lens	2.7mm to 12mm, Motorized, Auto Iris	2.7mm to 13.5mm, Motorized, Fixed Iris	2.7mm to 12mm, Motorized	2.8mm	2.8mm	3.7mm to 11mm, Motorized
Horizontal Field of View	95° to 36°	108.7° to 28.7°	101.7° to 32.3°	110°	106.0°	112° to 46°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	164ft (50m)	262ft (80m)	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)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)	DWDR	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D	2D/3D	2D	2D/3D
Frame Rate	30fps@1080p 30/60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p	15fps@4K (8MP)
Video Output	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable
Audio In/Out	1 Channel in 1 Channel In	1 Channel In plus a Built-in Microphone	—	1 Channel In	—	1 Channel In plus a Built-in Microphone
Alarm In/Out	1/1	—	—	—	—	—
Installation Angle	Pan: 0° - 355° Tilt: 0° - 85° Rotation: 0° - 355°	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°	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° - 360° Tilt: 0° - 78° Rotation: 0° - 360°
Environmental Protection	IP67, IK10	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	24 VAC (±25%) or 12 VDC (±25%) Max 12.5 W	24 VAC (±30%) or 12 VDC (±30%) Max 12 W (with IR on)	12 VDC (±30%) Max 6.7 W (12 VDC, IR on)	12 VDC (±30%) Max 4.4 W (with IR on)	12 VDC (±30%) Max 3.1 W (12 VDC, IR on)	24 VAC (±30%) or 12 VDC (±30%) Max 12 W (12 VDC, IR on)

	HDCVI Eyeball Cameras					
	A82AG52  ProSeries 4K	A52AJ6Z  ProSeries	A52AJ62  ProSeries	A511K02 A511K02-B  LiteSeries	A42BJAZ  ProSeries NIGHT COLOR	A42BJA2  ProSeries NIGHT COLOR
Image Sensor	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/1.79 4MP CMOS	1/1.79 4MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.3 0 lux/F1.3 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color 0.02 lux/F1.85 0 lux (IR on)	Night Color Color: 0.002 lux/F1.9	Night Color Color: 0.002 lux/F1.6
Lens	2.8mm	2.7mm to 13.5mm, Motorized	2.8mm	2.8mm	3.7mm to 11mm, Motorized	2.8mm
Horizontal Field of View	87°	102° to 29°	98°	103°	114.3° to 47.2°	112.7°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day Night	Color	Color
Maximum IR Distance	164ft (50m)	197ft (60m)	164ft (50m)	98ft (30m)	—	—
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D/3D	2D/3D
Frame Rate	15fps@4K (8MP)	20fps@5MP	20fps@5MP	20fps@5MP	30fps@4MP	30fps@4MP
Video Output	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats
Audio In/Out	1 Channel In plus a Built-in Microphone	1 Channel In plus a Built-in Microphone (Camera accepts audio from only one input source.)	1 Channel In plus a Built-in Microphone (Camera accepts audio from only one input source.)	—	1 Channel In plus a Built-in Microphone	1 Channel In plus a Built-in Microphone
Alarm In/Out	—	—	—	—	—	—
Installation Angle	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° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°
Environmental Protection	IP67	IP67	IP67	IP67	IP67	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 +140° F (-40° C to +60° C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	12 VDC (±30%) Max 8 W (12 VDC, IR on)	24 VAC (±30%) or 12 VDC (±30%) Max 14.1 W (12 VDC, IR on)	12 VDC (±30%) Max 7 W (12 VDC, IR on)	12 VDC ±30% Max 3.6 W (12 VDC, IR on)	24 VAC (±30%) or 12 VDC (±30%) Max 10.3 W	12 VDC (±30%) Max 7.1 W

	HDCVI Eyeball Cameras					
	A22CJAZ  ProSeries	A21CJ0Z  LiteSeries	A22BJ63  ProSeries NIGHT COLOR	A22CJ62  ProSeries	A211K02  LiteSeries	A21CG02  LiteSeries
Image Sensor	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	1/2.8" 2MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.004 lux/F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux (IR On)	Night Color Color: 0.001 lux/F1.0	Enhanced Starlight Color: 0.004 lux/F1.6 0 lux (IR on)	Color 0.02 lux/F1.85 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)
Lens	2.7mm to 13.5mm, Motorized, Fixed Iris	2.7mm to 12mm, Motorized	3.6mm	2.8mm	2.8mm	2.8mm
Horizontal Field of View	108.7° to 28.7°	101.7° to 32.3°	89.5°	110°	103°	106°
Day/Night	True Day/Night	True Day/Night	Color	True Day/Night	True Day Night	True Day/Night
Maximum IR Distance	262ft (80m)	197ft (60m)	—	164ft (50m)	98ft (30m)	164ft (50m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR
Noise Reduction	2D/3D	2D	2D/3D	2D/3D	2D	2D
Frame Rate	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p	30fps@1080p 30/60fps@720p
Video Output	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	HD Multi-analog Technology: integrated pigtail enables switching between formats	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	HD Multi-analog Technology: integrated pigtail enables switching between formats
Audio In/Out	1 Channel In plus a Built-in Microphone	—	1 Channel In plus a Built-in Microphone	1 Channel In plus a Built-in Microphone	—	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°
Alarm In/Out	—	—	—	—	—	Built-in Microphone
Installation Angle	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° – 78° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	—
Environmental Protection	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)	-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	24 VAC (±30%) or 12 VDC (±30%) Max 6.9 W (with IR on)	12 VDC (±30%) Max 8.2 W (12 VDC, IR on)	12 VDC (±30%) Max 2.4 W	12 VDC (±30%) Max 5.3 W (with IR on)	12 VDC ±30% Max 3.3 W (12 VDC, IR on)	12 VDC (±30%) Max 4.7 W (12V DC, IR on)

Model	HDCVI Fisheye Cameras	Multi-sensor HDCVI Camera	HDCVI PTZ Cameras			
	A83AR6  UltraSeries	DH-HAC-PFW3601  UltraSeries	59232ICLA  ProSeries	49225ICLA  ProSeries	40212IC  LiteSeries	DH-SD22A204IN-GC  LiteSeries
Image Sensor	1/1.8" 4K (8MP) CMOS	1/2.8" 2MP CMOS per sensor (3 sensors total)	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS
Minimum Illumination	Color: 0.005 lux/F2.0 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux at F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Lens	2.25mm	3.6mm	4.5mm to 144mm, Motorized (32x Optical Zoom)	4.8mm to 120mm, Motorized (25x Optical Zoom)	5.3mm to 64mm, Motorized (12x Optical Zoom)	2.7mm to 11mm, Motorized (4x Optical Zoom)
Horizontal Field of View	180°	180°	60.14° to 2.75°	61.0° to 2.8°	58.4° to 4.9°	112.5° – 39°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	49ft (15m)	66ft (20m)	492ft (150m)	328ft (100m)	—	—
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	Ultra DNR	2D/3D
Frame Rate	15fps@3840 x 2160	15fps@4096x832 30fps@2560x520	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p	30fps@1080p 30/60fps@720p
Video Output	One (1) BNC HDCVI 4K (8MP) Channel and One (1) BNC CVBS Channel	One (1) BNC HDCVI Panoramic Output Channel and Three (3) BNC 2MP HDCVI Channels	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	HD/SD Switchable
Pan/Tilt/Zoom	—	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° to 360° endless; Tilt: -15° to 90° Auto flip 180°	Pan: 0° – 360° Endless; Tilt: -15° – 90°	Pan: 0° to 360° endless Tilt: -2° to 90° Auto flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°
Preset Speed	—	—	Pan: 400° /s Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100°/s; Tilt: 60° /s
Audio In/Out	Built-in Microphone	1/-	1/-	1/-	1/-	—
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	—
Environmental Protection	IP67, IK10	IP67, IK10	IP66	IP66	IP66, IK10	IP66, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140.8°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C) Integrated Heater	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	12 VDC (±25%), 24 VAC (±25%) Max 7.4 W (IR on)	12 VDC (±25%) Max 22 W	24 VAC (±25%), 2.5A Max 22 W	12 VDC (±10%), 3A Max 23.2 W	24 VAC Max 19 W	12 VDC Max 10 W

Model	Security System Kits							
	C542E42A	C544E42	C785E63	C7165E124	C788E63		C7168E124	
								
Camera	4 x A211K02 1080p Cameras	4 x A511K02 4MP Cameras	6 x A511K02 4MP Cameras	12 x A511K02 4MP Cameras	4 x A511K02 4MP Cameras	2 x A82AG52 4K Cameras	8 x A511K02 4MP Cameras	4 x A82AG52 4K Cameras
Image Sensor	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2" CMOS	1/2.7" CMOS	1/2" CMOS
Minimum Illumination	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.005 lux at F1.6 0 lux (IR on)	Color: 0.02 lux at F1.85 0 lux (IR on)	Color: 0.005 lux at F1.6 0 lux (IR on)
Lens	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm/F1.85	2.8mm/F1.6
Horizontal Field of View	103°	103°	103°	103°	103°	87°	103°	87°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night		True Day/Night	
Maximum IR Distance	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	164ft (50m)	98ft (30m)	164ft (50m)
Wide Dynamic Range (WDR)	Digital WDR	Digital WDR	Digital WDR	Digital WDR	Digital WDR	True WDR (120dB)	Digital WDR	True WDR (120dB)
Frame Rate	30fps@1080p	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP	15fps@8MP	30fps@4MP	15fps@8MP
Audio	—	—	—	—	—	1 CH In + Built-in Mic	—	1 CH In + Built-in Mic
Environmental	IP67	IP67	IP67	IP67	IP67		IP67	
Power	12 VDC (±30%) 3.3 W (12 VDC with IR on)	12 VDC (±30%) 3.6 W (12 VDC with IR on)	12 VDC (±30%) 3.6 W (12 VDC with IR on)	12 VDC (±30%) 3.6 W (12 VDC with IR on)	12 VDC (±30%) 3.6 W (12 VDC with IR on)	12 VDC (±30%) 8 W (12 VDC with IR on)	12 VDC (±30%) 3.6 W (12 VDC with IR on)	12 VDC (±30%) 8 W (12 VDC with IR on)
HDCVI Digital Video Recorder	X51B1H2	X71A1H2	X72A2A3	X72A3A4	X72A2A3		X72A3A4	
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264	
Recording Resolution	5 M-N, 4 M-N, 1080p, 1080N, 720p	8MP, 6 MP, 5 MP, 4 K-N, 4 MP, 3 MP, 4 M-N, 1080p, 720p	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p	8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p, 960H		8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 4 M-N (1280 x 1440), 1080p, 720p, 960H	
Maximum Record Rate	5 M-N at 10 fps 720p at 30 fps	Channel 1: • 8 MP at 7 fps • 6 MP at 10 fps Channels 2 to 4: • 4 K-N at 7 fps	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps		8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps	
Analog Input	4CH, BNC	4CH, BNC	8CH, BNC	16CH, BNC	8CH, BNC		16CH, BNC	
IP Input	4+2 CH, each channel up to 6 MP	4+2 CH, each channel up to 8 MP	8+8 CH, each channel up to 8 MP	16+16 CH, each channel up to 8 MP	8+8 CH, each channel up to 8 MP		16+16 CH, each channel up to 8	
Max Input/Record	24Mbps / 24Mbps	24Mbps / 24Mbps	64Mbps / 64Mbps	128Mbps / 128Mbps	64Mbps / 64Mbps		128Mbps / 128Mbps	
Audio In/Out	1/1	1/1	4/1	4/1	4/1		4/1	
Maximum HDD	1 HDD Up to 6TB ships with a pre-installed 2TB HDD	1 HDD Up to 10TB ships with a pre-installed 2TB HDD	2 HDD Up to 10TB ships with a pre-installed 3TB HDD	2 HDD Up to 10TB ships with a pre-installed 4TB HDD	2 HDD Up to 10TB ships with a pre-installed 3TB HDD		2 HDD Up to 10TB ships with a pre-installed 4TB HDD	
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA		1 HDMI, 1 VGA	
Power	12 VDC, 1.5A < 10 W	12 VDC, 2A < 10 W	12 VDC, 4A < 10 W	12 VDC, 5A < 20 W	12 VDC, 4A < 10 W		12 VDC, 5A < 20 W	

Model	HDCVI Digital Video Recorders						
	X88A3S Series  UltraSeries Wiz Mind	X52B3A Series  ProSeries Wiz Sense	X82R2A Series  ProSeries Wiz Sense	X84R3L Series  ProSeries Wiz Sense	X82B2A Series  ProSeries Wiz Sense	X82B3A Series  ProSeries Wiz Sense	X88B5S Series  ProSeries Wiz Sense
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	AI Coding, Smart H.265+, H.265, Smart H.264+, H.264	AI Coding, Smart H.265+, H.265, Smart H.264+, H.264	AI Coding, Smart H.265+, H.265, Smart H.264+, H.264	AI Coding, Smart H.265+, H.265, Smart H.264+, H.264	AI Coding, Smart H.265+, H.265, Smart H.264+, H.264	AI Coding, Smart H.265+, H.265, Smart H.264+, H.264
Audio Compression	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM
Video Standard	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)
Maximum Record Rate	8 MP at 7 fps 6 MP at 10 fps 5 MP at 12 fps 4 MP or 3 MP at 15 fps, 4 M-N, 1080p, 720p, 960H, D1, CIF, or QCIF at 30 fps	5M-N at 10 fps 4M-N, 1080p at 15 fps 1080N, 720p, 960H, D1, CIF at 30 fps	8 MP at 15 fps or 6 MP/5 MP at 20 fps 4K-N, 4 MP, 3 MP, 1080p, 720p, 960H, D1, CIF at 30 fps	8 MP at 15 fps	8 MP at 7 fps 6 MP at 10 fps 5 MP at 12 fps 4K-N, 4 MP, 3 MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps	8 MP at 7 fps 6 MP at 10 fps 5 MP at 12 fps 4K-N, 4 MP, 3 MP at 15 fps 4M-N, 1080p, 720p, 960H, D1, CIF at 30 fps	8 MP at 7 fps
Analog Input	16CH	16CH	8CH	16CH	8CH	16CH	32CH
IP Input	16+48CH Up to 12MP	16+8CH Up to 6MP	8+8CH Up to 8MP	32CH Up to 12MP	8+8CH Up to 8MP	16+16Up to 8MP	32CH Up to 12MP
Max Input/Record	256Mbps /256Mbps	128Mbps /128Mbps	128Mbps /128Mbps	128Mbps /128Mbps	128Mbps /128Mbps	128Mbps /128Mbps	128Mbps /128Mbps
Audio In/Out	16/1, 2-way	4/1, 2-way	4/1, 2-way	4/1, 2-way	4/1, 2-way	4/1, 2-way	16/1, 2-way
Maximum HDD	8 SATA Ports, up to 10TB each disk 80TB max	2 SATA Ports, up to 10TB each disk 20TB max	2 SATA Ports, up to 10TB each disk 20TB max	4 SATA Ports, up to 10TB each disk 40TB max	2 SATA Ports, up to 10TB each disk 20TB max	2 SATA Ports, up to 10TB each disk 20TB max	8 SATA Ports, up to 10TB each disk 80TB max
Display	2 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 BNC
eSATA	1	—	—	1	—	—	1
USB	4 USB Ports (2 USB 2.0, 2 USB 3.0)	2 USB Ports (1 USB 2.0, 1 USB 3.0)	2 USB Ports (1 USB 2.0, 1 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)	2 USB Ports (1 USB 2.0, 1 USB 3.0)	2 USB Ports (1 USB 2.0, 1 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)
External Storage	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network
Alarm In/Out	16/6	16/3	8/3	16/3	8/3	16/3	16/6
Ethernet	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	2 Gigabit Ports
Remote Login	128	128	128	128	128	128	128
Dimension	2U 17.32 in. x 17.91 in. x 3.77 in.	1U 14.76 in. x 10.96 in. x 2.09 in.	1U 14.76 in. x 10.96 in. x 2.09 in.	1.5U 17.32 in. x 16.37 in. x 2.99 in.	1U 14.80 in. x 11.31 in. x 2.09 in.	1U 14.76 in. x 10.96 in. x 2.09 in.	2U 17.32 in. x 18.23 in. x 3.73 in.
Power	100 VAC to 240 VAC, 50/60 Hz <20 W (Without HDD)	12 VDC, 4A <12 W (Without HDD)	12 VDC, 5A <15 W (Without HDD)	100 VAC to 240 VAC, 50/60 Hz <30 W (Without HDD)	12 VDC, 4A <10 W (Without HDD)	12 VDC, 5A <15 W (Without HDD)	100 VAC to 240 VAC, 50/60 Hz <30 W (Without HDD)
Highlights	4K Penta-brid, Perimeter Protection, Face Detection, Spot Output, Smart Search	1080p Penta-brid, Perimeter Protection, Smart Motion Detection, Spot Output, Smart Search	4K Penta-brid, Perimeter Protection, Smart Motion Detection, Spot Output, Smart Search	4K Penta-brid, Perimeter Protection, Smart Motion Detection, Spot Output, Smart Search	4K Penta-brid, Perimeter Protection, Smart Motion Detection, Spot Output, Smart Search	4K Penta-brid, Perimeter Protection, Smart Motion Detection, Spot Output, Smart Search	4K Penta-brid, Perimeter Protection, Face Detection, Smart Motion Detection, Spot Output, Smart Search

HDCVI Products

Model	HDCVI Digital Video Recorders					
	X74A3L  UltraSeries	X58A5S  UltraSeries	X54A5L  ProSeries	X51A2E / X51A3E  LiteSeries		X51B1E  LiteSeries
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Audio Compression	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM AAC first channel only		G.711A, G.711U, PCM; AAC first channel only
Video Standard	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/AHD/TVI/CVBS (Auto-detect)	HDCVI/TVI/AHD/CVBS (Auto-detect)		HDCVI/AHD/TVI/CVBS (Auto-detect)
Maximum Record Rate	8 MP at 7 fps; 6 MP at 10 fps, 5 MP at 12 fps, 4 MP or 3 MP at 15 fps; 4 M-N, 1080p, 720p, 960H, D1, CIF or QCIF at 30 fps	Channels 1 and 2: 5 M-N at 20 fps Channels 3 to 32: 4 M-N at 30 fps	Channels 1 and 2: 5 M-N at 20 fps Channels 3 to 32: 4 M-N at 30 fps	CH 1-2: 10fps@5M-N CH 3-8: 15fps@4M-N	CH 1-2: 10fps@5M-N CH 3-16: 15fps@4M-N	CH 1 20fps@5 M-N CH 2-4: 15fps@1080N
Analog Input	Up to 16CH	32CH	32CH	8CH	16CH	4CH
IP Input	16+16CH up to 8MP	32CH Up to 8MP	32CH Up to 8MP	8+4CH Up to 6 MP	16+8CH Up to 6 MP	*4+2CH Up to 6MP*
Max Input/Record	128Mbps/128Mbps	128Mbps /128Mbps	128Mbps /128Mbps	48Mbps / 48Mbps	96Mbps / 96Mbps	24Mbps/24Mbps
Audio In/Out	4/1, 2-way	16/1, 2-way	4/1, 2-way	8/1, 2-Way	16/1, 2-Way	4/1, RCA
Maximum HDD	4 SATA Ports, up to 10TB each disk 40TB max	8 SATA Ports, up to 10TB each disk 80TB max	4 SATA Ports, up to 10TB each disk 40TB max	1 SATA Port, up to 10TB max		1 SATA Ports, up to 10TB each disk
Display	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 BNC	2 HDMI, 1 VGA, 1 BNC	1 HDMI (3840 x 2160), 1 VGA		1 HDMI, 1 VGA
eSATA	1	1	1	—		
USB	3 USB Ports (1 USB 2.0, 2 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)	Two (2) USB 2.0 Ports	1 USB 2.0 Port, 1 USB 3.0 Ports	2 USB Ports (2 USB 2.0.)
External Storage	USB Device/Network	USB Device/Network	USB Device/Network	USB Device/Network		USB Device/Network
Alarm In/Out	16/6	16/6	16/6	8/3	16/3	8/3
Ethernet	1 Gigabit Port	2 Gigabit Port	1 Gigabit Port	100 Mbps Port	1 Gigabit Port	1 Fast Ethernet Port
Remote Login	128	128	128	128		128
Dimension	17.32 in. x 16.42 in. x 2.99 in.	17.30 in. x 17.92 in. x 3.74 in.	17.30 in. x 16.40 in. x 3.0 in.	12.80 in. x 10.04 in. x 2.17 in.		12.80 in. x 10.04 in. x 2.17 in.
Power	100 VAC to 240 VAC, 50/60 Hz <35 W (Without HDD)	100 VAC to 240 VAC, 50/60 Hz <35 W (Without HDD)	100 VAC to 240 VAC, 50/60 Hz <35 W (Without HDD)	12 VDC, 2A < 10 W, without HDD	12 VDC, 2A < 15 W, without HDD	12 VDC, 1.5A < 10 W, without HDD
Highlights	4K Penta-brid, Dewarping over web/SmartPSS, POS, IVS, Face Detection*, Spot Output, Smart Search	1080P Penta-brid, IVS, Face Detection*, Spot Output, Smart Search	1080P Penta-brid, IVS, Face Detection*, Spot Output, Smart Search	1080P Penta-brid, Smart Search, Face Detection*, IVS Analytics, P2P, Plug & Play		1080P Penta-brid, Smart Search, IVS Analytics

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Vari-focal Dome	N25CL5Z		PFA138							
	N28BL7Z		PFA138						PFA151	
	N45CL5Z				PFB201C					
	N85CL5Z									
	DH-IPC-HDBW7442H-ZFR			PFB210W						
	DH-IPC-HDBW-5831EN-Z5E			PFB210W						PFA152-E
	N45CL5Z-B*	PFA101				PFB300C				
	N43AM5Z									
	N43AM5Z-B*									
	A21CM0Z		PFA137							
	A52AM9Z		PFA137				PFA200W			
	A52AM9Z-B									
Vari-focal Eyeball	A82AM5V				PFB200C					
	A83ALBZ			PFB203W						
	A22CMAZ			PFB203W						PFA152-E
	DH-HAC-HDB-W32A1EN-Z	PFA106		PFB305W					PFA151	
	N28BL7Z									
	N53AM5Z									
	N45DL7Z									
	N45DM62									
			PFA137							
				PFB203W						
	N53AJ5Z			PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
Vari-focal Bullet		PFA106				PFB220C				
			PFA137							
			PFA130-E							
	A21CJ0Z			PFB203W						
	A52AJ6Z			PFB203W						PFA152-E
	A82AH5V	PFA106		PFB305W					PFA151	
	N85CM5Z	PFA106				PFB220C				
			PFA121							
			PFA121						PFA151	
	A83ABBZ		PFA121							PFA152-E
	DH-HAC-HFW32A1EN-Z		PFA142							
	N85CB5Z									
Vari-focal Bullet	DH-IPC-HFW5831EN-Z5E		PFA142							PFA153
	A22CFAZ									
	DH-IPC-HFW7442HN-ZFR									PFA154
			PFA130-E							
			PFA130-E						PFA151	
	A21CC0Z		PFA130-E							PFA152-E
	A52AF6Z		PFA142							
	A82AF5V									
	N53AF5Z									
	N45DB7Z		PFA142							PFA153
	N43AF5Z									

Accessories

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Fixed-lens Dome	A52AL42		PFA136							
	N44CL52		PFA136				PFA200W			
	N44CL53			PFB203W						
	N53AL52			PFB203W						PFA152-E
	N84CL52			PFB203W						
	N84CL54			PFB305W					PFA151	
	N43AL52	PFA106								
	N43AL52-B									
	N45EM63									
	DH-IPC-HDBW-5231EN-ZE-HDMI									
	N22AL12	PFA106				PFB220C				
	A22CL62									
	A21CL02									
	N55DY82									
	N82AL32									
	DH-IPC-HDBW-1435EN-W-S2		PFA136							
				PFB203W						
				PFB203W						PFA152-E
	A82AM52 HCBW8442N		PFA137				PFA200W			
			PFA137							
				PFB203W	PFB200C					
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
	N44BN52		PFA139							
				PFA201W						
				PFB204W						PFA152-E
	DH-IPC-HDBW-4231FN-E2-M		PFA137							
				PFB203W						
				PFB203W						PFA152-E
Fixed-lens Eyeball	N51BI22 N53AJ52		PFA136							
			PFA130-E							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
	A211K02 A511K02 N43AJ52 N43AJ52-B	PFA106				PFB220C				
			PFA13A-E							
			PFA130-E							
				PFB204W						
				PFB204W						PFA152-E
		PFA106		PFB305W					PFA151	
		PFA106				PFB220C				
	N44CG52 N44CG53 N84CG52 N84CG54 N45EJ62 N42BJ62 N45DJ62 A21CG02 A22CJ62 A22BJ63 A22CJAZ A42BJA2 A42BJAZ		PFA139							
			PFA130-E							
				PFB204W						
				PFB204W						PFA152-E
		PFA106		PFB305W					PFA151	
						PFB220C				
		PFA106				PFB220C				

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Fixed-lens Eyeball	A52AJ62 A82AG52 N55DU82		PFA130-E							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
		PFA106				PFB220C				
Fixed-lens Bullet/ Box	N51BD22 N53AB52 A21CF02 A82AF53		PFA130-E							
			PFA130-E						PFA151	
			PFA130-E							PFA152-E
			PFA142							
			PFA142							PFA153
	A21BB03 A52AB62 N44CB33 N84CB34		PFA121							
			PFA121						PFA151	
			PFA121							PFA152-E
			PFA142							
			PFA142							PFA153
	NK8BA4 N45BA5 A22CF63 N42BD32 N43AB52 N45EF63 DH-IPC-HFW1435SN- W-S2			PFB605W						
				PFA162						
				PFA162						PFA150
			PFA121	PFB121W						
			PFA121	PFB121W					PFA151	
			PFA121	PFB121W						PFA152-E
				PFB110W						
			PFA140	PFB604W						
			PFA140	PFB604W						PFA150
	A83AA9			PFB121W						
			PFA121	PFB121W						
			PFA121	PFB121W					PFA151	
			PFA121	PFB121W						PFA152-E
						PFB110W				
Fisheye	N55BS5		PFA136							
				PFB203W						
				PFB203W						PFA152-E
		PFA106		PFB305W					PFA151	
		PFA106				PFB220C				
	A83AR6 NK8BR4 N68BR4V DH-IPC-EBW81242N	PFA100		PFB302S						
		PFA100				PFB300C				
		PFA100				PFB300C				PFA150
		PFA105+PFA110				PFB300C				
		PFA105+PFA110				PFB300C				PFA150
			PFA132-E							
			PFA132-E						PFA151	
			PFA132-E							PFA150
	N55CT5			PFB203W						
				PFB203W						PFA152-E
						PFB110W				

Accessories

Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
Panoramic	DH-IPC-PF-W8840N-A180		PFA120						
			PFA120					PFA151	
			PFA120						PFA150
	DH-HAC-PF-W3601N-A180		PFA124-B						
			PFA124-B					PFA151	
			PFA124-B						PFA152-E
Panoramic	DH-IPC-PDB-W8840N-A180	PFA111		PFB303W					
		PFA111	PFA120	PFB303W					
		PFA111		PFB303W				PFA151	
		PFA111		PFB303W					PFA150
		PFA111			PFB300C				
		PFA111					PFB303S		
	DH-IPC-PD-BW5831-B360	PFA108 + PFA111		PFB303W					
		PFA108 + PFA111	PFA120	PFB303W					
		PFA108 + PFA111		PFB303W				PFA151	
		PFA108 + PFA111		PFB303W					PFA150
		PFA108 + PFA111		PFB303W	PFB300C				
		PFA108 + PFA111					PFB303S		
	DH-PSD81602N-A360	PFA710 †		PFB710W †					
		PFA710		PFB710W					PFA153
	DH-PSDW81642M-A360			PFB710W					
				PFB710W					PFA153
					PFB710C				
PTZ	1A404XBNR 12203TNI		PFA120						
			PFA140						
		PFA107		PFB305W					
		PFA107		PFB305W				PFA151	
		PFA107		PFB305W					PFA150
		PFA107	PFA142	PFB305W				PFA153	
		PFA107			PFB220C				
	SD22A204IN-GC 22204UENI 22204UENI-V		PFA137						
					PFB200C				
				PFB203W					
				PFB203W				PFA151	
				PFB203W					PFA152-E

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
PTZ	40212IC 40212TNI		PFA120							
			PFA140							
		PFA110 †		PFB300S †					PFA151	
		PFA110		PFB300S						PFA150
		PFA110		PFB300S						
		PFA110	PFA142	PFB300S						
		PFA110	PFA142	PFB300S					PFA153	
		PFA110				PFB300C				
		PFA110						PFB303S		
	42212TNI	PFA102		PFB302S						
		PFA102		PFB302S					PFA151	
		PFA102		PFB302S						PFA150
		PFA102		PFB302S						
		PFA102				PFB300C				
	49225ICLA 49425XBNR		PFA120							
			PFA140							
				PFB305W †					PFA151	
				PFB305W						PFA150
				PFB305W						
			PFA142	PFB305W						
	50230UNI-A 59232ICLA 5A445XANR 59232XANR		PFA142	PFB305W					PFA153	
		PFA111				PFB300C				
			PFA120							
			PFA140							
		PFA110 †		PFB300S †					PFA151	
		PFA110		PFB300S						PFA150
		PFA110		PFB300S						
		PFA110	PFA142	PFB300S						
		PFA110	PFA142	PFB300S					PFA153	
		PFA110				PFB300C				
		PFA110						PFB303S		
	6AE240VNI 6AE530UNI 6AL445XANR		PFA120							
			PFA140							
		PFA111 †		PFB303W †						
		PFA111		PFB303W					PFA151	
		PFA111		PFB303W						PFA150
		PFA111	PFA142	PFB303W						
		PFA111	PFA142	PFB303W					PFA153	
		PFA111				PFB300C				
		PFA111						PFB303S		
	50232XANR	PFA110 †								
		PFA110		PFB300S †						
		PFA110		PFB302S					PFA151	
		PFA110		PFB302S						PFA150
	T5X225WAN			PFB306W-S						PFA150
						PFB300C-S				
				PFB306W-S						

Accessories

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount
PTZ	6CE230UNI 6CE445XANR		PFA120							
			PFA140							
				PFB305W [†]						
				PFB305W					PFA151	
				PFB305W						PFA150
			PFA142	PFB305W						
			PFA142	PFB305W					PFA153	
		PFA111				PFB300C				
		PFA111						PFB303S		
	8A840WANF			PFB306W [†]						
				PFB306W [†]						PFA150
Black Housing Cameras	N44CG52-B			PFB204W-B						
				PFB204W-B						PFA152-E-B
	N45CL5Z-B		PFA139-B							
			PFA138-B							PFA152-E-B
Thermal	DH-TPC-BF5601N-B DH-TPC-BF5601N-TB DH-TPC-BF5600N-B DH-TPC-BF5421-T DH-TPC-BF5401N-B DH-TPC-BF5401N-TB DH-TPC-BF5400N-TC DH-TPC-BF3221-T DH-TPC-BF2221N-B3 DH-TPC-BF2221N-TB		PFA121						PFA151	
			PFA121							PFA152-E
			PFA121							
				DH-PFB129W						
						DH-PFB120C				
	DH-TPC-BF1241N		PFA130-E						PFA151	
										PFA152-E
	DH-TPC-DF1241N		PFA130-E							
				PFB203W						
				PFB203W						PFA152-E
		PFA106				PFB220C				

Footnotes:

* Accessory is optional for the mounting application.

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

[†] Mounting Accessory included with the PTZ camera. [‡] included with camera

4-port: DH-PFL2106-4ET-96 8-port: DH-LR2110-8ET-120 16-port: DH-LR2218-16ET-240 24-port: DH-LR2226-24ET-360	LR1002	LR1002-1ET/ LR1002-1EC	PC-H66.5-D126 PC-H84.5-147	PC-H49-D90 PC-H45-D84.8 PC-H59-D113.6	64GB: DH-PFM113 128GB: DH-PFM113 256GB: DH-PFM114
					
ePoE Switch¹ - Layer 2 Enhanced Power over Ethernet Switch 800 m (2625 ft) PoE Transmission Distance with ePoE Technology (Channels 1 through 8) - Supports IEEE802.3af, IEEE802.3at and Hi-PoE Standards - Conforms to the IEEE802.3, IEEE802.3u, IEEE802.3ab/z and the IEEE802.3X Standards - Wide Temperature Range for Industrial Uses	EoC Passive Converter - Ethernet Over Coax Passive Converter for Extending Coax to IP via ePoE Technology - Supports PoE Transmission, up to 1000 m (3281 ft) - Supports the IEEE802.3 and IEEE802.3u Standards - Includes 2 Converters	Single-port EoC Extender - Ethernet over Coax Transmitter/Receiver - Extends EoC Transmission to non ePoE-enabled Edge or Head-end Devices - Converts between CAT5E/CAT6 and Coaxial Cable Transmission - Transmission Distance Up to 1000 m (3281 ft) via RG59 at 10 Mbps	Smoked Polycarbonate Bubble - Replacement Bubble for PTZ IP and HDCVI Cameras - PC-H66.5-D126 Compatible with 40, 42, 42C Series PTZ Domes - PC-H84.5-147 Compatible with 50, 52, 52C Series PTZ Domes	Smoked Polycarbonate Bubble - Replacement Bubble for Fixed-lens and Vari-focal Dome Cameras - Refer to datasheet for compatibility	Micro SD Card 3D TLC NAND Flash Memory - Supports Class 10 and UHS-I - Ideal for High-Definition Video Recording - Water-proof, Shock-proof, X-ray Proof - Wide Operating Temperature Range - Compatible with More Products than Traditional Micro SD Cards - Fine-tuned for Dahua Products Offering Improved Performance
DHI-LM43-F200	ST Series HDD	ST8000NM0055	DH-PFL0550-E6D	DH-PFL2070-J12M	DH-PFH610V DH-PFH610V-IR
					
43-in. Full HD LCD Monitor 1080p Full HD Resolution - High-fidelity Digital Signal Processing 8 ms Response Time, No Image Ghosting 16.7M Color Reproduction - Low Energy Consumption for Long Service Life - HDMI, VGA, and USB Video Inputs	Skyhawk Series Hard Drives - Designed for 24/7 Surveillance-optimized Applications - Engineered for Workloads up to 180TB/year - Capacity Up to 10 TB, Supports 64 Cameras per Drive - Low Power Consumption and Startup Current	Enterprise-grade Hard Disk Drive 8 TB or 10 TB Capacity 3.5-in. Enterprise Drive for Bulk Data Applications - RAID Support - Designed for 24/7 Surveillance-optimized Hard Drive Applications	6MP 5-50mm Vari-focal Lens 1/2.7-in. 6 MP Image Format 5 mm to 50 mm Vari-focal Lens - CS-type Mount - Compatible with NK8B4A, N45BA5	12MP Vari-focal Lens 12MP 4/3-in. Lens 20 mm to 70 mm Lens - M43 Mount - Designed for Extreme Temperature Environments - Compatible with A83AA9	14 inch Outdoor Housings - Compatible with any Dahua box camera - IR up to 328ft. (DH-PFH610V-IR) - Built-in heater (DH-PFH610V-IR) - IP67 - IK10
DHL32-75-DJ	DH-PFB605W	DH-PFM900-E	DH-PFM904	DSS Series	SmartPSS
					
Universal VESA Monitor Ceiling Bracket - Compatible with Standard VESA Patterns 200 mm x 200 mm 300 mm x 300 mm 200 mm x 400 mm 400 mm x 400 mm 400 mm x 600 mm - Compatible Monitor Size: 32-in. to 75-in. (measured diagonally) - Load Bearing Capacity: 40.0 kg (88.20 lbs)	Housing Bracket Compatible with DH-PFH610V and DH-PFH610V-IR housings	Integrated Mount Tester 4-in. IPS TFT Screen 800 x 480 Resolution - Supports IP, HDCVI, AHD, TVI, & CVBS, Formats - H.265 and H.264 Dual Codecs - Audio and RS485 Control - TDR Network Cable Tests and Digital Multimeter Functions - QWERTY Flip-open Keyboard with 45 Keys	HDCVI Mount Tester - One-hand Operation with Removable Wrist Strap 4.3-in. TFT Screen, 480 x 272 Resolution - Supports HDCVI, AHD, TVI, and CVBS Formats - Audio and RS485 Test Control 12 VDC, 1 A Power Output - Micro USB-B Port for Charging and Data I/O - Two (2) 18650 Lithium Ion Batteries Replaceable - Up to 8 Hours Normal Operation	Digital Surveillance Management Center - Complete Organization, Device, and Event Centralized Management - Manage up to 500 Devices over a Maximum of 2000 Channels - Supports H.265 and H.264 Dual Codec - Supports H.265 and H.264 Codec - Support for Video Wall Configuration and Display - Live Video Monitoring and Playback - PTZ Camera Control and Smart Track - Intelligent Video System (IVS) with Business Analysis	Smart Professional Surveillance System - Efficient Device Management - Manage up to 256 Devices over a Maximum of 2000 Channels - Supports H.265 and H.264 Dual Codec - Live Video Monitoring and Playback - Configure Video Wall Layout and Scheme - Configure NVR Recording - PTZ Camera Control - Intelligent Video System (IVS) with People Counting and Heat Map

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