


Model	Network Box Cameras			Network Bullet Cameras		
	NK8BA4  UltraSeries 4K	DH-IPC-HF8835FN  UltraSeries 4K	N45BA5  LiteSeries ePoE	N84CB34  ProSeries ePoE	N85CB5Z  ProSeries 4K ePoE	DH-IPC-HFW-5831EN-Z5E  UltraSeries 4K ePoE NEW DH-IPC-HFW7442HN-ZFR  UltraSeries 4K ePoE FACE RECOGNITION
Image Sensor	1/1.7" 12MP CMOS	4/3" 4K (8MP) CMOS	1/3" 4MP CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/1.8" 4MP CMOS
Lens	Sold Separately	Sold Separately	Sold Separately	4mm/F1.6	2.7mm - 12mm, Motorized 7mm - 35mm, Motorized	2.7mm - 12mm, Motorized
Horizontal Field of View	—	—	—	88°	110° to 40° 38° to 14°	111° to 47°
Minimum Illumination	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Starlight+ Color: 0.0005 lux/F0.95 B/W: 0.0003 lux/F0.95	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.001 lux/F1.2 0 lux/F1.2 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	Ultra WDR (140 dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	Ultra WDR (140dB)
Maximum IR Distance	—	—	—	131ft (40m)	164ft (50m) 328ft (100m)	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	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, H.264B, H.264H, (MJPEG sub-stream only)
Maximum Resolution	12MP (4000 x 3000)	4K (8MP) (3840 x 2160)	4MP (2688 x 1520)	4K (8MP) (3840x2160)	4K (8MP) (3840x2160)	4 MP (2688 x 1520)
Frame Rate	20fps@12MP	30fps@8MP	30fps@4MP	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP	60fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	5 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Analytics+ (Face Recognition, People Counting, Perimeter Protection, Image Attribute Extraction)
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S and G, CGI, P2P, RTMP
Audio In/Out	1/1, Built-in Microphone	2/1 plus Built-in Microphone	1/1, Built-in Microphone	—	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB
Alarm In/Out	2/1	2/2	2/1	—	2/1	3/2
Environmental Protection	—	—	—	IP67	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)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V, AC24V, PoE (802.3af Class 0) Max <8W	DC12V, AC24V, PoE (802.3af Class 0) Max <10.5W	DC12V, AC24V, PoE (802.3af Class 0) Max <5W	DC12V or PoE (802.3af Class 0) Max <6.5W	DC12V, PoE (802.3af Class 0) Max < 12.95 W	DC12V, AC24V or PoE (802.3af Class 0) Max 17.3W







Network Products

Model	Network Bullet Cameras						
	 N53AF5Z LiteSeries SMD	 N53AB52 LiteSeries SMD	 N52BF3Z ProSeries	 N51BD22 ProSeries	 DH-IPC-HUM8431N-E1 ProSeries	 IPC-HUM8431-L3	 N45DB7Z ProSeries 
Image Sensor	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	Processing unit for the IPC-HUM8431-L3 Pinhole Camera	1/2.7" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.7mm - 13.5mm, Motorized	2.8mm	2.7mm - 13.5mm, Motorized	2.8mm	—	2.8mm/F1.8	2.7 mm - 12 mm Motorized
Horizontal Field of View	99° to 26°	98°	95° to 27°	96°	—	109°	114° to 47°
Minimum Illumination	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: 0.008 lux/F1.6 0 lux/F1.6 (IR on)	Basic Starlight Color: 0.009 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)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	—	Electronic	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	197ft (60m)	164ft (50m)	197ft (60m)	98ft (30m)	—	—	164ft (50m)
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, H.264H, H.264B, 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	—	Smart H.265+, H.265, Smart H.264+, H.264 (MJPEG substream)
Maximum Resolution	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)	—	4MP	4MP (2688 x 1520)
Frame Rate	20fps@2592 x 1944 30fps@2688 x 1520	20fps@2592 x 1944 30fps@2688 x 1520	20fps@5MP	15fps@5MP	30fps@4MP	—	30fps@4MP
Multi-streaming	3 streams	3 streams	2 streams	2 streams	3 streams	—	3 streams
Intelligent Video	Tripwire, Intrusion with Smart Motion Detection	Tripwire, Intrusion with Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion, Abandoned/Missing Object	—	Premium IVS, Analytics+ Functions – Face Capture, Metadata Extraction, Perimeter Protection, and People Counting with Loitering
Compatibility	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	—	ONVIF, CGI
Audio In/Out	1/1	1/1	—	—	1/1	—	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 256GB	—	—	Micro SD, Max 128GB	—	Micro SD, Max 128GB
Alarm In/Out	1/1	1/1	—	—	2/2	—	2/1
Environmental Protection	IP67	IP67	IP67	IP67	—	—	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)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V, PoE (802.3af Class 0) Max < 9.8 W	DC12V, PoE (802.3af Class 0) Max < 5.4 W	DC12V, PoE (802.3af Class 0) Max < 12.6 W	DC12V, PoE (802.3af Class 0) Max < 4.85 W	12 VDC or PoE (IEEE 802.3af, Class 0) Max < 6 W	—	12 VDC or PoE+ (IEEE 802.3at, Class 4) Max <15.2 W








Model	Network Bullet Cameras					
	N45CB5Z  LiteSeries ePoE	N28BB7Z  UltraSeries	N25CB5Z  ProSeries ePoE	N24CB33  ProSeries ePoE	DH-IPC-HFW4239TN-ASE  ProSeries NIGHT COLOR ePoE	N45EF63  ProSeries NIGHT COLOR ePoE
Image Sensor	1/3" 4MP CMOS	1/1.9" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 4MP CMOS
Lens	2.7mm - 13.5mm Motorized	4.1mm - 16.4mm, Motorized	2.7mm - 13.5mm, Motorized	3.6mm/F1.6	3.6mm/F1.0	3.6mm/F1.2
Horizontal Field of View	106° to 31°	80° to 32°	97° to 34°	87°	87°	93°
Minimum Illumination	Color: 0.03 lux/F1.4 0 lux/F1.4 (IR on)	Starlight+ Color: 0.002 lux/F1.53 0 lux/F1.53 (IR on)	Enhanced Starlight Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)	Basic Starlight Color: 0.007 lux/F1.6 0 lux/F1.6 (IR on)	Night Color: Scene requires a minimum of 1 lux illumination Color: 0.001 lux/F1.0	Night Color: Scene requires a minimum of 1 lux illumination Color: 0.00022 lux /F1.2
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	Color (default) Electronic Day/Night	Color (default) Electronic 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)	131ft (40m)	—	—
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	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 (Sub Stream)	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG (Sub Stream)
Maximum Resolution	4MP (2688 x 1520)	1080p (1920 x 1080p)	1080p (1920 x 1080p)	1080p (1920 x 1080p)	1080p (1920 x 1080p)	4MP (2688 x 1520)
Frame Rate	30fps@4MP	60fps@1080p	60fps@1080p	60fps@1080p	30fps@1080p	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Perimeter Protection, People Counting with Loitering
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S/G, API	ONVIF Profile S/G, API
Audio In/Out	1/1	1/1	1/1	—	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	2/1	2/1	—	1/1	1/1
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	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)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V (±25%), PoE (802.3af Class 0) Max <11.5W	DC12V, PoE+ (802.3at Class 4) < 13 W	DC12V (±25%), PoE (802.3af Class 0) Max <11.5W	DC12V (±25%), PoE (802.3af Class 0) Max <6W	DC12V, PoE (802.3af Class 0) Max <4W	12 VDC, 2.7 W ±30% or PoE, 3.5 W







Network Products

Model	Network Bullet Cameras			Network Dome Cameras		
	N44CB33  LiteSeries	N41BD22  LiteSeries	N41BD12-W  LiteSeries	NK8BL7Z  UltraSeries	N85CL5Z  ProSeries	DH-IPC-HDBW5831EN-Z5E  ProSeries
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/1.7" 12MP CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS
Lens	3.6mm/1.6	2.8mm/F2.0	2.8mm/F2.0	4.1mm - 16.4mm, Motorized	2.7mm - 12mm, Motorized	7mm - 35mm, Motorized
Horizontal Field of View	87°	104°	106°	105° to 35°	110° to 40°	38° to 14°
Minimum Illumination	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.53 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.02 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	131ft (40m)	98ft (30m)	98ft (30m)	164ft (50m)	164ft (50m)	328ft (100m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Maximum Resolution	4MP (2560 x 1440)	4 MP (2560 x 1440)	4 MP (2560 x 1440)	12MP (4000 x 3000)	4K (8MP) (3840x2160)	4K (8MP) (3840x2160)
Frame Rate	30fps@4MP	20fps@4MP	20fps@4MP	20fps@12MP	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP
Multi-streaming	3 streams	2 streams	2 streams	3 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	—	—	Tripwire, Intrusion, 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
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	—	—	—	1/1	1/1	1/1
Memory Slot	Micro SD, Max 128GB	—	Micro SD, Max 128GB	Micro SD card, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	—	—	—	2/1	1/1	1/1
Environmental Protection	IP67	IP67	IP67	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)	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)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V (±25%), PoE (802.3af Class 0) Max <6 W	DC12V, 0.5 A, PoE (802.3af Class 0) Max <5.5 W	DC12V, 1 A, Max <6.5 W	DC12V, AC24V, PoE+ (802.3at Class 4) < 18 W	DC12V, AC24V, PoE+ (802.3at Class 4), <15 W	DC12V, AC24V, PoE+ (802.3at Class 4), <15 W







Model	Network Dome Cameras					
	N84CL52  ProSeries	N84CL54  ProSeries	N52BM3Z  ProSeries	NEW N53AMSZ  LiteSeries	N51BL22  ProSeries	NEW N53AL52  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/F1.6	4mm/F1.6	2.7mm - 13.5mm, Motorized	2.7mm - 13.5mm, Motorized	2.8mm/F1.6	2.8mm/F1.6
Horizontal Field of View	110°	88°	95° to 27°	99° to 26°	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)	Basic Starlight Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (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	98ft (30m)	98ft (30m)	98ft (30m)	131ft (40m)	98ft (30m)	164ft (50m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, 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
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@5MP	20fps@2592 x 1944 30fps@2688 x 1520	20fps@5MP	20fps@2592 x 1944 30fps@2688 x 1520
Multi-streaming	3 streams	3 streams	2 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	Tripwire, Intrusion with Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion with Smart Motion Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec
Audio In/Out	1/1	1/1	—	1/1	—	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	—	Micro SD, Max 256GB	—	Micro SD, Max 256GB
Alarm In/Out	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	DC12V, PoE (802.3af Class 0) < 5.5 W	DC12V, PoE (802.3af Class 0) < 5 W	DC12V, PoE (802.3af Class 0), < 6.2 W	DC12V, PoE (802.3af Class 0) Max < 9.8 W	DC12V, PoE (802.3af Class 0), < 4.2 W	DC12V, PoE (802.3af Class 0) Max < 7.3 W







Network Products

Model	Network Dome Cameras						
	DH-IPC-HDBW7442HN-ZFR 	N45DL7Z 	N45DM62 	N45CL5Z 	N45CL5Z-B 	N44CL52 	N44CL53 
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/3" 4MP CMOS White Housing	1/3" 4MP CMOS Black Housing	1/3" 4MP CMOS	1/3" 4MP CMOS
Lens	2.7mm - 12mm, Motorized	2.7 mm - 12 mm Motorized	2.8mm/F1.6	2.7mm - 13.5mm, Motorized		2.8mm/F1.6 (N44CL52)	3.6mm/F1.6 (N44CL53)
Horizontal Field of View	111° to 47°	114° to 47°	113°	106° to 31°		104°	87°
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)	Starlight+ Color: 0.0016 lux at F1.6 0 lux/F1.6 (IR on)	Color: 0.03 lux/F1.4 0 lux/F1.4 (IR on)		Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night		True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	Ultra WDR (140dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)		True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	131ft (40m)	148ft (45m)	85ft (26m)	164ft (50m)		98ft (30m)	98ft (30m)
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 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, MJPEG
Maximum Resolution	4 MP (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	60fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP		30fps@4MP	30fps@4MP
Multi-streaming	5 streams	3 streams	3 streams	3 streams		3 streams	3 streams
Intelligent Video	Analytics+ (Face Recognition, People Counting, Perimeter Protection, Image Attribute Extraction)	Premium IVS, Analytics+ Functions — Face Capture, Metadata Extraction, Perimeter Protection, and People Counting with Loitering	Premium IVS, Analytics+ Functions — Perimeter Protection and People Counting with Loitering	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, P2P, RTMP	ONVIF, 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	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	3/2	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)	-40°F to 140°F (-40°C to 60°C)		-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V, AC24V or PoE (802.3af Class 0) Max 16.7W	12 VDC, 24 VAC, or PoE+ (IEEE 802.3at, Class 4) Max <18.7W	DC12V, PoE (802.3af Class 0), < 4.2 W	DC12V, AC24V, PoE (802.3af Class 0) Max <12.5W		DC12V (±25%), PoE (802.3af Class 0) Max <7.5W	DC12V (±25%), PoE (802.3af Class 0) Max <7.5W







Model	Network Dome Cameras					
	N44BN52  LiteSeries	N41BL12-W  LiteSeries	N25CL5Z  ProSeries ePoE	N24CL52  ProSeries ePoE	DH-IPC-HDBW4239RN-ASE  ProSeries NIGHT COLOR ePoE	N45EM63  ProSeries NIGHT COLOR ePoE
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 4MP CMOS
Lens	2.8mm/F2.0	2.8mm/F2.0	2.7mm - 13.5mm, Motorized	2.8mm/F1.6	3.6mm/F1.0	3.6mm/F1.2
Horizontal Field of View	104°	106°	101° to 31°	110°	87°	93°
Minimum Illumination	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.53 lux/F2.0 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)	Basic Starlight Color: 0.007 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.001 lux/F1.0 Night Color: Scene requires a minimum of 1 lux illumination	Color: 0.00022 lux /F1.2 Night Color: Scene requires a minimum of 1 lux illumination
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	Color (default) Electronic Day/Night	Color (default) Electronic Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	65ft (20m)	98ft (30m)	164ft (50m)	98ft (30m)	—	—
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, 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
Maximum Resolution	4MP (2688 x 1520)	4 MP (2560 x 1440)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	4MP (2688 x 1520)
Frame Rate	30fps@4MP	20fps@4MP	60fps@1080p	60fps@1080p	30fps@1080p	30fps@4MP
Multi-streaming	3 streams	2 streams	3 streams	3 streams	3 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	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Perimeter Protection, People Counting with Loitering
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S/G, API	ONVIF Profile S/G, API
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 128GB	Micro SD, Max 128GB
Alarm In/Out	1/1	—	1/1	1/1	1/1	1/1
Environmental Protection	IP67, IK10	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-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)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V, PoE (802.3af Class 0) Max <4.5 W	DC12V Max <6.5 W	DC12V, 1.25 A; AC24V, 0.8 A; or PoE+ (IEEE 802.3at, Class 4)	DC12V, 0.5 A; PoE (802.3af Class 0) Max <4.6 W	DC12V, PoE (802.3af Class 0) Max <4 W	DC12V, 2.7 W ±30% or PoE, 3.5 W




Network Products

	Network Dome Cameras			Network Eyeball Cameras		
	N24BN52  ProSeries	N22AL12  LiteSeries	N28BL7Z  UltraSeries	N85CM5Z  ProSeries	N84CG52  ProSeries	N84CG54  ProSeries
Image Sensor	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS	1/1.9" 2MP STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS	1/2.5" 4K (8MP) STARVIS™ CMOS
Lens	2.8mm/ F2.0	2.8mm/ F2.0	4.1mm - 16.4mm, Motorized	2.7mm - 12mm, Motorized	2.8mm/F1.6	4mm/F1.6
Horizontal Field of View	110°	110°	92° to 32°	110° to 40°	112°	88°
Minimum Illumination	Basic Starlight Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Starlight+ Color: 0.002 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.05 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	65ft (20m)	98ft (30m)	164ft (50m)	164ft (50m)	164ft (50m)	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, H.264B	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	4K (8MP) (3840 x 2160)	4K (8MP) (3840 x 2160)	4K (8MP) (3840 x 2160)
Frame Rate	60fps@1080p	30fps@1080p	60fps@1080p	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP	15fps@4K 30fps@3MP
Multi-streaming	3 streams	2 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object	Tripwire, Intrusion	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
Compatibility	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, Milestone, Genetec	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1, Built-in Microphone	—	1/1	1/1, Built-in Microphone	Built-in Microphone	Built-in Microphone
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	1/1	—	2/1	1/1	—	—
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	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)	-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	DC12V (±25%), PoE (802.3af Class 0) <4.5W	DC12V, PoE (802.3af Class 0) <4.5W	DC12V, AC24V, PoE+ (802.3at Class 4) <18W	DC12V, PoE (802.3af Class 0) < 8.5 W	DC12V, PoE (802.3af Class 0) < 6 W	DC12V, PoE (802.3af Class 0) < 6 W

Network Eyeball Cameras							
	 N53AJ5Z <small>LiteSeries SMD</small>	 N51BI22 <small>ProSeries</small>	 N53AJ52 <small>LiteSeries SMD</small>	 N41BK22 <small>LiteSeries</small>	 N44CG52 / N44CG53 <small>LiteSeries ePoE</small>		 N24CG52 <small>ProSeries ePoE</small>
Image Sensor	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS		1/2.8" 2MP STARVIS™ CMOS
Lens	2.7mm - 13.5mm, Motorized	2.8mm/F1.6	2.8mm/F1.6	2.8mm/F2.0	2.8mm/F1.6 (N44CG52 white, N44CG52-B black)	3.6mm/ F1.6 (N44CG53 white)	2.8mm/ F1.6
Horizontal Field of View	99° to 26°	96°	98°	104°	104°	83°	110°
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.5 0 lux/F1.5 (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)	Color: 0.08 lux/F2.0 0 lux/F1.6 (IR on)	Color: 0.06 lux/F1.6 0 lux/F1.6 (IR on)		Basic Starlight Color: 0.007 lux/F1.6 0 lux/F1.6 (IR on)
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	131ft (40m)	98ft (30m)	164ft (50m)	98ft (30m)	164ft (50m)		164ft (50m)
Video Compression (Main Stream)	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	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264		Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)	4MP (2688 x 1520)	4MP (2688 x 1520)		1080p (1920 x 1080)
Frame Rate	20fps@2592 x 1944 30fps@2688 x 1520	20fps@5MP	20fps@2592 x 1944 30fps@2688 x 1520	20fps@4MP	30fps@4MP		60fps@1080p
Multi-streaming	3 streams	2 streams	3 streams	2 streams	3 streams		3 streams
Intelligent Video	Tripwire, Intrusion with Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion with Smart Motion Detection	Tripwire, Intrusion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object		Tripwire, Intrusion, Scene Change, Abandoned/Missing Object
Compatibility	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, P2P, Milestone, Genetec	ONVIF S & G, API	ONVIF, PSIA, CGI		ONVIF, PSIA, CGI
Audio In/Out	Built-in Microphone	—	Built-in Microphone	—	Built-in Microphone		Built-in Microphone
Memory Slot	Micro SD, Max 256GB	—	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB		Micros SD, Max 128 GB
Alarm In/Out	—	—	—	—	—		—
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)	-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	DC12V, PoE (802.3af Class 0) Max < 8.0 W	DC12V, PoE (802.3af Class 0), < 4 W	DC12V, PoE (802.3af Class 0) Max < 8.1 W	DC12V, 0.5 A, PoE (802.3af Class 0) < 5.5 W	DC12V (±25%), PoE (802.3af Class 0) <5W		DC12V (±25%), PoE (802.3af Class 0) <5W

Network Products

	Network Fisheye Cameras					Corner Camera
	NEW DH-IPC-EBW81242N  UltraSeries 4K	NK8BR4  UltraSeries 4K	N68BR4V  UltraSeries	N55BS5  ProSeries	N55BT5  ProSeries	NEW DH-IPC-HCBW8442N  ProSeries
Image Sensor	1/1.7" 12MP CMOS	1/1.7" 12MP CMOS	1/1.8" 6MP CMOS	1/2.5" 5MP CMOS	1/2.7-in. 5MP STARVIS™ CMOS	1/1.8-in. 4MP CMOS
Lens	1.98mm/F2.0	1.98mm/F2.8	1.3mm/F2.8	1.4mm/F1.6	1.4mm/F2.0	2.5mm/F2.0
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: 0.002 lux/F2.8 0 lux/F2.8 (IR on)	Color: 0.02 lux/F1.6 B/W: 0.05 lux/F1.6	Color: 0.006 lux at F2.0 Color: 0.02 lux at F2.0 0 lux at F2.0 (IR on)	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	Smart H.265+, H.265, Smart H.264+, H.264, 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 (2560 x 1920)	5MP (2592 x 1944)	4MP (2688 x 1520)
Frame Rate	30fps@12MP	25fps@12MP 30fps@6MP	30fps@6MP	25fps@5MP	25fps@5MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	2 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	Tripwire, Intrusion, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, 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, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF (Profile S and G), CGI, Milestone, Genetec, P2P
Audio In/Out	1/1 + Built-in Microphone	1/1	1/1	Built-in Microphone	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 128GB	Micro SD, Max 128GB	Micro SD, Max 256GB
Alarm In/Out	2/2	2/2	2/2	—	1/1	1/1
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK08	—	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 140°F (-30°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	DC12V, PoE (802.3af Class 0) <12W	DC12V, PoE (802.3af Class 0) <12W	DC12V, PoE (802.3af Class 0) <12W	DC12V, 1A, PoE (802.3af Class 0) < 3.4 W	DC12V, PoE (802.3af Class 0) 12 VDC: 8.2 W with IR On PoE: 10.1 W with IR On	DC12V, PoE (802.3af Class 0) 12 VDC: 9.5 W with IR On PoE: 11.5 W with IR On

	LincX2PRO		
	NEW DHI-DB11 	NEW IPC-C26EN 	NEW 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	AC16V to AC24V or DC12V / DC24V < 9 W	DC5V, 2 A < 6 W	AC100V to AC240V < 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.















Network Products

Network Multi-sensor Cameras						
	 DH-PSDW81642M-A360 	DH-IPC-PFW8800N-A180 	DH-IPC-PFW8601N-H-A180 	DH-IPC-PDBW8800N-A180 	DH-IPC-PDBW5831N-B360 	DH-IPC-HDBW4231FN-E2-Mxxx 
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 (3 sensors total)	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/2.8" 2MP STARVIS™ CMOS per sensor (4 independent sensors)	1/2.8" 2MP STARVIS™ CMOS per sensor (2 independent sensors)
Lens	Panoramic: 5 mm/F2.0 PTZ: 5.6 mm to 223 mm	3.0mm/F2.0	3.6mm/F1.8	3.0mm/F2.0	2.7mm - 12mm/F1.8 Motorized	2.8mm/RJ45 2.8mm/M12
Horizontal Field of View	Panoramic: 360° PTZ: 61° to 2°	180°	180°	180°	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)	Enhanced Starlight Color: 0.007 lux/F2.0 (1/3 s, 30 IRE) Color: 0.05 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.007 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.007 lux/F2.0 (1/3 s, 30 IRE) Color: 0.05 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)	Enhanced Starlight Color: 0.005 lux at F1.8 (1/3 s, 30 IRE) Color: 0.06 lux at F1.8 (1/30 s, 30 IRE) 0 lux at F1.8 (IR on)	Basic Starlight Color: 0.009 lux/F2.0 (1/3 s, 30 IRE) Color: 0.07 lux/F2.0 (1/30 s, 30 IRE) 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	DWDR	True WDR (120dB)	DWDR	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	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H MJPEG (sub stream)	H.265, H.264H MJPEG (sub stream)
Maximum Resolution	Panoramic: 8192 x 1800 PTZ: 4 MP (2560 x 1440)	2MP per Sensor (4 sensors total)	2MP per Sensor (3 sensors total)	2MP per Sensor (4 sensors total)	2MP per sensor (4 sensors total)	2MP per sensor
Frame Rate	Panoramic Camera: 30fps@8192 x 1800 PTZ Camera: 30fps@4MP	25fps@4096 x 1800 total output	30fps@4096 x 832 total output	25fps@4096 x 1800 total output	25fps@1080p per sensor	30fps@1080p per sensor
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams per sensor	2 streams per sensor
Pan/Tilt/Zoom	Pan: 0° to 360°, endless Tilt: -20° to 90° Auto flip: 180°	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°	Pan: 0° to 355° Tilt: 0° to 75° Rotation: ± 20°	Pan: 0° to 360° Tilt: 0° to 80° Rotation: 0° to 355°	Pan: ±90° Tilt: 0° to 65° Rotation: 0° to 360°
Preset Speed	Pan: 0.1°/s to 240°/s Tilt: 0.1°/s to 120°/s	—	—	—	—	—
Intelligent Video	Motion, Tripwire, Intrusion, Smart Tracking	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection**, People Counting, Heat Map, E-PTZ	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection**, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Face Detection**, People Counting, Heat Map	Motion, Tripwire, Intrusion, Scene Change	Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object
Compatibility	ONVIF Profile G, CGI	ONVIF, PSIA, CGI	ONVIF Profile S/G, PSIA, CGI	ONVIF Profile S/G, PSIA, CGI	ONVIF, CGI	ONVIF Profile S/G, PSIA, CGI
Audio In/Out	2/2	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 128GB	Micro SD, Max 256GB	Micro SD, Max 128GB
Alarm In/Out	7/3	2/2	1/1	2/2	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), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC36V Max < 84.4 W	AC24V, PoE+ (802.3af Class 4) Max 25.5 W	AC24V, PoE+ (802.3af Class 4) Max 24 W	AC24V, PoE+ (802.3af Class 4) < 25.5 W	AC24V, PoE+ (802.3af Class 4) AC24V: 9.9 W, 31.2 W with IR on PoE: 10.6 W, 23.8 W with IR on	DC12V, PoE (802.3af Class 0) < 6.5 W








Model	People Counting	Network PTZ Cameras				
	DH-IPC-HDW8341XN-3D  UltraSeries	6AE530UNI  UltraSeries	6AE240VNI  UltraSeries	DH-PTZ19240VN-IRB-N  UltraSeries	6AL245UNI  UltraSeries	NEW 8A840WANF  UltraSeries 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/F1.8, each lens	6mm - 180mm (30x Optical Zoom)	4.5mm - 180mm (40x Optical Zoom)	4.5mm - 180mm (40x Optical Zoom)	3.95mm - 177.7mm (45x Optical Zoom)	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+ (Face Recognition, 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)	AC24V: -58°F to +158°F (-50°C to 70°C) Hi-PoE: -40°F to +158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)
Power	DC12V, 1 A or PoE (802.3af, Class 0), <12 W	AC24V, 3A (±25%), Hi-PoE 24 W, 38 W with IR on	AC24V, 3A (±25%), Hi-PoE 24 W, 38 W with IR on	AC24V, 5A (±25%), Hi-PoE 35 W, 60 W with IR and Heater on	AC24V, 3A (±25%), Hi-PoE Max 24 W, 38 W with IR on	AC24V, 3A (±25%), Hi-PoE Max 26 W, 42 W with IR on

Network Products

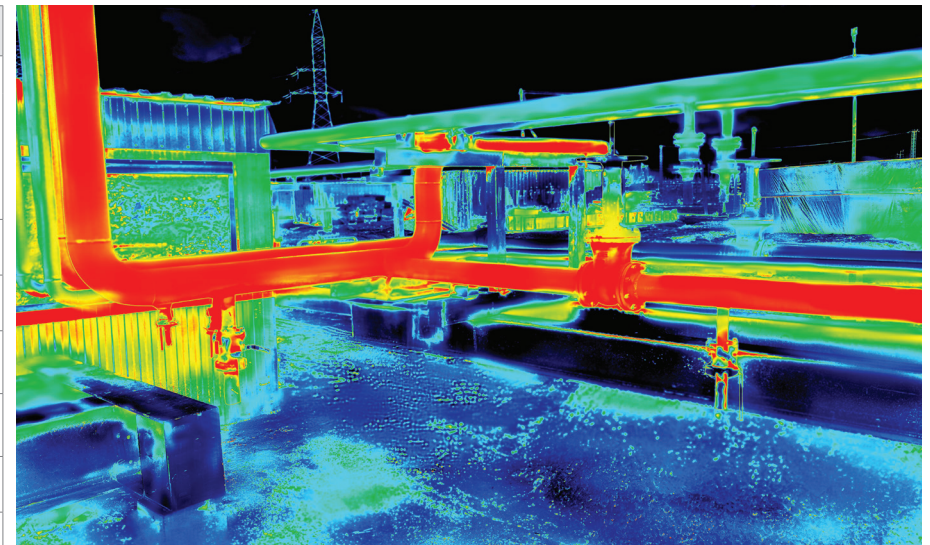
Model	Network PTZ Cameras					
	 6CE445XANR <small>ProSeries</small>	 6CE230UNI <small>ProSeries</small>	 6C430UNI <small>ProSeries</small>	 59430UNI <small>ProSeries</small>	 59230UNI <small>ProSeries</small>	 49225TNI <small>LiteSeries</small>
Image Sensor	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Lens	3.95 mm to 177.75 mm (45x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.8mm - 120mm (25x Optical Zoom)
Horizontal Field of View	70.3° to 1.8°	67.8° to 2.4°	60° to 2.2°	60° to 2.2°	67.8° to 2.4°	59.2° to 2.4°
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)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
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)	328ft (100m)	328ft (100m)	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	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	4 MP (2560 x 1440)	1080p (1920 x 1080)	4MP (2592 x 1520)	4MP (2592 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@4MP	60fps@1080p	30fps@4MP, 3MP 60fps@1080p, 1.3MP, 720p	30fps@ 4MP, 3MP 60fps@1080p, 1.3MP, 720p	60fps@1080p 60fps@720p	30fps@1080p 30fps@720p
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: -15° – 90°, Auto Flip 180°
Preset Speed	Pan: 300° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s
Intelligent Video	Analytics+ (Perimeter Protection, Video Structuralization) 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	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Heat Map, Face Detection**, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned/Missing, Face Detection**
Compatibility	ONVIF (Profile S and G), API	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	7/2	7/2	2/1	2/1	2/1	2/1
Environmental Protection	IP67, IK10	IP67, IK10	IP66	IP66	IP66	IP66
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 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Power	AC24V, 3A (±10%), PoE+ (802.3at Class 4) 13 W, 26 W with IR and heater on	AC24V, 3A (±25%), PoE+ (802.3at Class 4) 17 W, 26 W with IR and heater on	AC24V, 3A (±10%) 10.5 W, 26 W with IR on	AC24V, PoE+ (802.3at Class 4) 13 W, 23 W with IR on	AC24V, PoE+ (802.3at Class 4) 13 W, 23 W with IR on	DC12V, PoE+ (802.3at Class 4) 13 W, 20 W with IR on

Model	Network PTZ Cameras					
	DH-SD40A212TN-HNI  LiteSeries	40212TNI  LiteSeries	50430UNI  ProSeries	50230UNI-A  ProSeries	42212TNI  LiteSeries	22204UENI  LiteSeries
Image Sensor	1/2.7" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	5.1mm - 61.2mm (12x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)
Horizontal Field of View	59.3° to 5.2°	58.2° to 4.8°	60° to 2.2°	67.8° to 2.4°	58.2° to 4.8°	112.5° to 30°
Minimum Illumination	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6
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	—	—	—	—	—	—
Video Compression (Main Stream)	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	H.265, H.264	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	1080p (1920 x 1080)	1080p (1920 x 1080)	4MP (2592 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@1080p 60fps@720p	30fps@1080p	30fps@4MP, 3MP 60fps@1080p, 1.3MP, 720p	60fps@1080p 60fps@720p	30fps@1080p	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: -2° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless; Tilt: -2° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless, Tilt: 0° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° endless, Tilt: 0° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° Endless, Tilt: -2° - 90°, Auto Flip 180°	300 Presets, Pan: 0° - 360° Tilt: 0° - 90°
Preset Speed	Pan: 300° /s; Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100° /s; Tilt: 60° /s
Intelligent Video	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection**
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	—
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	—
Environmental Protection	IP66, IK10	IP66, IK10	IP67, IK10	IP67, IK10	IP66, IK10	IP66, IK10
Working Temperature	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-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)
Power	AC24V, PoE+ (802.3at Class 4) 12W, 22W with heater on	AC24V, 1.5A, PoE+ (802.3at Class 4) 12W, 22W with heater on	AC24V, PoE+ (802.3at Class 4) 13W, 23W with heater on	AC24V (±10%), PoE+ (802.3at Class 4) 13W, 23W with heater on	AC24V, 1.5A, PoE+ (802.3at Class 4) 12W	DC12V, 1.5A, PoE (802.3af Class 0)

Network Products

Model	Network PTZ Cameras				WiFi PTZ Cameras		
	12203TNI  LiteSeries	1A203TNI  LiteSeries	52C430UNI  ProSeries	52C230UNI-A 	42C212TNI  LiteSeries	DH-SD22A204TN-GNI-W  LiteSeries	22204UENI-W  LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.7mm - 8.1mm (3x Optical Zoom)	2.7mm - 8.1mm (3x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)
Horizontal Field of View	105.6° to 35.2°	105.6° to 35.2°	60° to 2.2°	67.8° to 2.4°	58.2° to 4.8°	112.5° to 30°	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)	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	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	—	49ft (15m)	—		—	—	—
Video Compression (Main Stream)	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264		H.265, H.264	Smart H.264+, H.264, MJPEG (sub-stream only)	H.265, H.264, MJPEG (sub-stream only)
Maximum Resolution	1080p (1920 x 1080)	1080p (1920 x 1080)	4MP (2592 x 1520)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)	1080p (1920 x 1080)
Frame Rate	30fps@1080p	30fps@1080p	30fps@4MP 60fps@1080p	60fps@1080p 60fps@720p	30fps@1080p	30fps@1080p	30fps@1080p
Multi-streaming	3 streams	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°	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	Pan: 100° /s; Tilt: 60° /s
Intelligent Video	Motion, Tripwire, Intrusion, Abandoned/Missing Object Detection, Scene Change, Auto-tracking	Motion, Tripwire, Intrusion, Abandoned/ Missing Object Detection, Scene Change, Auto-tracking	Motion, Tripwire, Intrusion, Abandoned/Missing Object Detection, Scene Change, Auto-tracking		Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object Detection	Tripwire, Intrusion, Abandoned/ Missing Object Detection	Motion Detection
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, 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 plus a Built-in Microphone	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	Micro SD, Max 128GB
Alarm In/Out	—	—	2/1		2/1	—	—
Environmental Protection	IP66, IK08	IP66, IK08	IK10		IK10	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)	-22°F to 140°F (-30°C to 60°C)		-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, 1.5A, PoE (802.3af Class 0) 6 W	DC12V, 1.5A, PoE (802.3af Class 0) 7.8 W, 10.5 W with IR on	AC24V, 1.5A (±10%), PoE+ (802.3at Class 4) 13 W		AC24V, 1.5A, PoE+ (802.3at Class 4) 12 W	DC12V, 1.5A 10 W	DC12V, 1.5 5.5 W

Model	Thermal		
	NEW DH-TPC-BF5401N-Bx <small>ProSeries</small>	NEW DH-TPC-BF5601N-Bx <small>ProSeries</small>	NEW DH-TPC-BF2221N-B3 <small>LiteSeries</small>
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
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
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)
Thermal Sensitivity (NETD)	40 mK	< 40 mK	≤ 50 mK
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°	Thermal: 50.6° Visible-light: 80°
Wide Dynamic Range (WDR)	—	—	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)
Maximum Resolution	1280 x 1024	1280 x 1024	Thermal: 1280 x 960 Visible-light: 1920 x 1080
Frame Rate	30fps@1280 x 1024	30fps@1280 x 1024	Thermal: 30fps@1280 x 960 Visible-light: 30fps@1920 x 1080
Multi-streaming	2 streams	2 streams	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
Compatibility	ONVIF (Profile S & G), API	ONVIF (Profile S & G), API	ONVIF (Profile S & G), API
Audio In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max 256GB	Micro SD, Max 256GB	Micro SD, Max 256GB
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	DC12V, 1 A or PoE (802.3af Class 0) Max 13 W	DC12V, 1 A or PoE (802.3af Class 0) Max 13 W	DC12V (±15%), 1 A or PoE (802.3af Class 0) Max 12 W












The Dahua Thermal Network Bullet camera combines an uncooled VOx Microbolometer sensor with an athermalized lens to produce high contrast thermal images. The camera produces clear images in total darkness, and delivers usable images in fog, rain, and snow, offering covert surveillance without the need for external light.








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











Network Products

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

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

Network Products

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








Model	Network Video Recorders				4K WiFi Video Recorders
	DHI-NVR4216-16P-I  ProSeries	N42B3P  LiteSeries	N42B2P  LiteSeries	N42B1P  LiteSeries	N41B1W  LiteSeries
Video Compression	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	Smart H.265+, H.265, Smart H.264+, H.264
IP Video Inputs	16CH Up to 8MP	16CH Up to 8MP	8CH Up to 8MP	4CH Up to 8MP	4CH Up to 8MP
Max Input/Record	200Mbps (80Mbps when AI function enabled)	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	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	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, RCA	1/1, 2-way	1/1, 2-way	1/1, 2-way	-
Alarm In/Out	4/2	4/2	4/2	4/2	-
Ethernet	1 Gigabit Port	1Gigabit Port	1 Gigabit Port	1 Gigabit Port	1x100Mbps Port, Supports two-antennas for a strengthened WiFi signal
PoE	16CH	16 Ports (IEEE802.3at) 130 W total	8 Ports (IEEE802.3af/at) 130 W total	4 Ports (IEEE802.3af/at) 50 W total	-
USB	2 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 2.0
Power	*AC100V-240V, 50/60Hz <6.1 W (Without HDD)*	AC 100V-240V <13.2W (without HDD)	AC 100V-240V <9.6W (without HDD)	DC48V, 2A <9.0W (without HDD)	DC12V, 2A 6.6W (without HDD)
Key Features	4K PoE NVR, IVS, Analytics+, Face Recognition**, People Counting, Heat Map, Fisheye Dewarp, Smart Track, ANR, N+M, 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 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







HDCVI Products

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

Model	HDCVI Bullet Cameras					
	A22CFAZ  LiteSeries	A21CCOZ  ProSeries	DH-HAC-HFW32A1EN-Z  UltraSeries	A22CF63  LiteSeries	A21CF02  LiteSeries	A21BB02 / 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 – 13.5mm, Motorized, Fixed Iris	2.7mm - 12mm, Motorized	2.7mm – 12mm, Motorized, Auto Iris	3.6mm	2.8mm	2.8mm (A21BB02) 3.6mm (A21BB03)
Horizontal Field of View	108.7° to 28.7°	101.7° to 32.3°	95° to 36°	86.9°	106°	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	AC24V (±30%), DC12V (±30%) Max 12 W (with IR on)	DC12V ±30% Max 12.1 W (with IR on)	AC24V (±25%), DC12V (±25%) Max 16.6W	DC12V (±30%) Max 10.1 W (with IR on)	DC12V (±30%) Max 3.7 W (12 VDC, IR on)	DC12V (±25%) Max 4.6W (DC12V with IR on)







HDCVI Products

Model	HDCVI Bullet Cameras	HDCVI Dome Cameras				
	DH-HAC-HUM1220GN /-B  LiteSeries	A83ALBZ  UltraSeries  ProSeries	A82AM5V  ProSeries 	A82AM52  ProSeries 	A52AM9Z-B  ProSeries	A52AM9Z  ProSeries
Image Sensor	1/2.9" 2MP 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	Color: 0.21 lux/F2.0 B/W: 0.002 lux/F2.0	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)
Lens	2.8mm	3.7mm - 11mm, Motorized	3.7mm - 11mm, Motorized	2.8mm	2.7mm - 13.5mm, Motorized	2.7mm - 13.5mm, Motorized
Horizontal Field of View	109.40°	46° to 112°	112° to 46°	110.8°	102° to 29°	102° to 29°
Day/Night	Electronic 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)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080p	3840 x 2160@15 fps 1280 x 720@30 fps	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP
Video Output	HD Multi-analog Technology Requires PFM820 to switch between formats	One (1) BNC HDCVI 4K Ultra High-definition Channel and, One (1) BNC CVBS Channel	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	-	1 Channel In	1 Channel In	1 Channel In	1 Channel In	1 Channel In
Alarm In/Out	-	2/1	-	-	-	-
Installation Angle	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°	Pan: 0° - 355° Tilt: 0° - 65° Rotation: 0° - 355°	Pan: 0° - 355° Tilt: 0° - 75° Rotation: 0° - 355°	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°
Environmental Protection	IP67	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)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V (±25%) Max 0.6W	AC24V (±25%) DC12V (±30%) Max 12.4 W	AC24V (±30%), DC12V (±30%) Max 8.4W (12 VDC, IR on)	DC12V (±30%) Max 7W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 11.8W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 11.8W (12 VDC, IR on)





HDCVI Dome Cameras						
Model	A52AL42  ProSeries	DH-HAC-HDBW32A1EN-Z  UltraSeries	A22CMAZ  ProSeries	A21CM0Z  LiteSeries	A22CL62  ProSeries	A21CL02  LiteSeries
Image Sensor	1/2.8 5MP STARVIS™ CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (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/F1.8 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)
Lens	2.8mm	2.7mm – 12mm, Motorized, Auto Iris	2.7mm – 13.5mm, Motorized, Fixed Iris	2.7mm – 12mm, Motorized	2.8mm	2.8mm
Horizontal Field of View	98°	95° to 36°	108.7° to 28.7°	101.7° to 32.3°	110°	106.0°
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)	164ft (50m)	262ft (80m)	98ft (30m)	98ft (30m)	98ft (30m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)	DWDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D/3D	2D
Frame Rate	20fps@5MP	30fps@1080p 30/60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p
Video Output	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	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
Audio In/Out	1 Channel In	1 Channel in 1 Channel In	1 Channel In plus a Built-in Microphone	—	1 Channel In	—
Alarm In/Out	—	1/1	—	—	—	—
Installation Angle	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	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°
Environmental Protection	IP67, IK10	IP67, IK10	IP67	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-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	DC12V (±30%) Max 5.3 W (12 VDC, IR on)	AC24V (±25%) DC12V (±25%) Max 12.5 W	AC24V (±30%), DC12V (±30%) Max 12 W (with IR on)	DC12V (±30%) Max 6.7 W (12 VDC, IR on)	DC12V (±30%) Max 4.4 W (with IR on)	DC12V (±30%) Max 3.1 W (12 VDC, IR on)







HDCVI Products

HDCVI Eyeball Cameras						
	 A82AH5V ProSeries 	 A82AG52 ProSeries 	 A52AJ6Z ProSeries	 A52AJ62 ProSeries	 A511K02 A511K02-B LiteSeries	 A42BJAZ ProSeries
Image Sensor	1/1.8" 4K (8MP) CMOS	1/1.8" 4K (8MP) CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.8 5MP STARVIS™ CMOS	1/2.7" 5MP 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/F1.5 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
Lens	3.7mm – 11mm, Motorized	2.8mm	2.7mm – 13.5mm, Motorized	2.8mm	2.8mm	3.7mm – 11mm, Motorized
Horizontal Field of View	112° to 46°	87°	102° to 29°	98°	103°	114.3° to 47.2°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day Night	Color
Maximum IR Distance	197ft (60m)	164ft (50m)	197ft (60m)	164ft (50m)	98ft (30m)	—
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D	2D/3D
Frame Rate	15fps@4K (8MP)	15fps@4K (8MP)	20fps@5MP	20fps@5MP	20fps@5MP	30fps@4MP
Video Output	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI 4K (8MP) Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	One (1) HDCVI High-definition Channel or One (1) CVBS Channel, switchable	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 (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
Alarm In/Out	—	—	—	—	—	—
Installation Angle	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°	Pan: 0° – 360° Tilt: 0° – 90° 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)	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V (±30%), DC12V (±30%) Max 12 W (12 VDC, IR on)	DC12V (±30%) Max 8W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 14.1 W (12 VDC, IR on)	DC12V (±30%) Max 7 W (12 VDC, IR on)	DC12V ±30% Max 3.6 W (12 VDC, IR on)	AC24V (±30%), DC12V (±30%) Max 10.3 W





HDCVI Eyeball Cameras						
	NEW A42BJA2  ProSeries	NEW A22CJAZ  ProSeries	NEW A22BJ63  ProSeries NIGHT COLOR	NEW A22CJ62  ProSeries	A211K02  LiteSeries	A21CJ0Z  LiteSeries
Image Sensor	1/1.79 4MP 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	Night Color Color: 0.002 lux/F1.6	Enhanced Starlight Color: 0.004 lux/F1.6 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/F1.8 0 lux (IR On)
Lens	2.8mm	2.7mm – 13.5mm, Motorized, Fixed Iris	3.6mm	2.8mm	2.8mm	2.7mm – 12mm, Motorized
Horizontal Field of View	112.7°	108.7° to 28.7°	89.5°	110°	103°	101.7° to 32.3°
Day/Night	Color	True Day/Night	Color	True Day/Night	True Day Night	True Day/Night
Maximum IR Distance	—	262ft (80m)	—	164ft (50m)	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)	True WDR (120dB)	True WDR (120dB)	DWDR	DWDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D	2D
Frame Rate	30fps@4MP	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@1080p	30fps@1080p 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	1 Channel In plus a Built-in Microphone	—	—
Alarm In/Out	—	—	—	—	—	—
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°	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)	-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	DC12V (±30%) Max 7.1 W	AC24V (±30%), DC12V (±30%) Max 6.9 W (with IR on)	DC12V (±30%) Max 2.4 W	DC12V (±30%) Max 5.3 W (with IR on)	DC12V ±30% Max 3.3 W (12 VDC, IR on)	DC12V (±30%) Max 8.2 W (12 VDC, IR on)


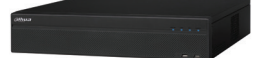



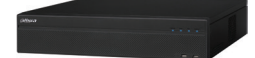
HDCVI Products

	HDCVI Eyeball Cameras	HDCVI Fisheye Cameras		PIR Camera	Multi-sensor HDCVI Camera	HDCVI PTZ Cameras
Model	A21CG02  LiteSeries	A83AR6  UltraSeries	A42AR2  4K ProSeries	DH-HAC-HUM1220A-PIR  LiteSeries	DH-HAC-PFW3601  UltraSeries	6C230IC  ProSeries
Image Sensor	1/2.8" 2MP CMOS	1/1.8" 4K (8MP) CMOS	1/3" 4MP CMOS	1/1.29" 2MP CMOS	1/2.8" 2MP CMOS per sensor (3 sensors total)	1/2.8" 2MP STARVIS™ CMOS
Minimum Illumination	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux (IR on)	Color: 0.005 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 B/W: 0.001 lux/F2.0	Color: 0.02 lux/F2.0 B/W: 0.002 lux/F2.0	Enhanced Starlight Color: 0.005 lux/F1.8 0 lux/F1.8 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Lens	2.8mm	2.25mm	1.18mm	2.8 mm	3.6mm	4.5mm – 135mm, Motorized (30x Optical Zoom)
Horizontal Field of View	106°	180°	180°	100.5°	180°	67.8° to 2.4°
Day/Night	True Day/Night	True Day/Night	Electronic Day/Night	Electronic Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	164ft (50m)	49ft (15m)	—	—	66ft (20m)	492ft (150m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	True WDR (120dB)	DWDR	True WDR (120dB)	True WDR (120dB)
Noise Reduction	2D	2D/3D	2D/3D	2D	2D/3D	Ultra DNR
Frame Rate	30fps@1080p 30/60fps@720p	15fps@3840 x 2160	30fps@4MP	30fps@1080p	15fps@4096x832 30fps@2560x520	30fps@1080p
Video Output	HD Multi-analog Technology: integrated pigtail enables switching between formats	One (1) BNC HDCVI 4K (8MP) Channel and One (1) BNC CVBS Channel	One (1) BNC HDCVI High-definition Channel and One (1) BNC CVBS Channel (switchable)	HD/SD, switchable	One (1) BNC HDCVI Panoramic Output Channel and Three (3) BNC 2MP HDCVI Channels	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TV-I) or CVBS Standard Definition Video Output (switchable)
Pan/Tilt/Zoom	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	—	—	—	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° to 360° endless; Tilt: -15° to 90° Auto flip 180°
Preset Speed	—	—	—	—	—	Pan: 240° /s; Tilt: 200° /s
Audio In/Out	Built-in Microphone	Built-in Microphone	—	—	1/-	1/-
Alarm In/Out	—	2/1	—	—	2/1	2/1
Environmental Protection	IP67	IP67, IK10	IK10	—	IP67, IK10	IP66
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)	14° F to +122° F (-10° C to +50° C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V (±30%) Max 4.7W (12V DC, IR on)	DC12V (±25%), AC24V (±25%) Max 7.4W (IR on)	DC12V (±25%) Max 2.2W	DC12V ± 25% 0.7 W	DC12V (±25%) Max 22W	AC24V Max 23 W

HDCVI PTZ Cameras						
Model	59430IC  UltraSeries	59230IC  ProSeries	49225IC  ProSeries	50230IC  ProSeries	40212IC  LiteSeries	DH-SD22A204IN-GC  LiteSeries
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" STARVIS™ CMOS Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS
Minimum Illumination	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Enhanced Starlight Color: 0.005 lux at F1.6 0 lux (IR on)	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Enhanced Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Lens	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.8mm – 120mm, Motorized (25x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	5.3mm – 64mm, Motorized (12x Optical Zoom)	2.7mm – 11mm, Motorized (4x Optical Zoom)
Horizontal Field of View	60° to 2.2°	67.8° to 2.4°	59.2° to 2.4°	67.8° to 2.4°	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	328ft (100m)	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	Ultra DNR (2D/3D)	Ultra DNR	Ultra DNR (2D/3D)	Ultra DNR	Ultra DNR	2D/3D
Frame Rate	30fps@4MP or 1080p 30/60fps@720p	30fps@1080p	30fps@1080p 60fps@720p	30fps@1080p	30fps@1080p	30fps@1080p 30/60fps@720p
Video Output	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)	HD/SD Switchable
Pan/Tilt/Zoom	Pan: 0° – 360°, endless; Tilt: -15° – 90°; Autoflip 180°	Pan: 0° to 360° endless; Tilt: -15° to 90° Auto flip 180°	Pan: 0° – 360° Endless; Tilt: -15° – 90° Auto Flip 180°	Pan: 0° to 360° endless Tilt: 0° to 90° Auto flip 180°	Pan: 0° to 360° endless Tilt: -2° to 90° Auto flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°
Preset Speed	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100°/s; Tilt: 60° /s
Audio In/Out	1/-	1/-	1/-	1/-	1/-	–
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	–
Environmental Protection	IP66	IP66	IP66	IP67, IK10	IP66, IK10	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) Integrated Heater	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V, 3A (±10%) 13W, 23W (IR on)	AC24V Max 23 W	DC12V, 3A Max 20W (IR on)	AC24V Max 23 W	AC24V Max 19 W	DC12V Max 10W






HDCVI Products

Model	Security System Kits							
	C542E42	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/F1.85	2.8mm/F1.85	2.8mm/F1.85	2.8mm/F1.85	2.8mm/F1.85	2.8mm/F1.6	2.8mm/F1.85	2.8mm/F1.6
Horizontal Field of View	103°	103°	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	X51A1H2	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	Channel 1: • 5 M-N at 10 fps Channels 2 to 4: • 4 M-N or 1080p at 15 fps • 1080N at 30 fps	Channel 1: • 8 MP at 7 fps • 6 MP at 10 fps Channels 2 to 4: • 4 K-N at 7 fps	8 MP at 7 fps; 6 MP at 10 fps at 15 fps; 4 M-N, 1080p at 30 fps	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 10TB ships with a pre-installed 2TB HDD	1 HDD Up to 10TB ships with a pre-installed 2TB HDD	2 HDD Up to 10TB ships with a pre-installed 3TB HDD	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, 2A < 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					
	X74A3L  UltraSeries	X58A3S  UltraSeries	X72A2A  ProSeries	X72A3A  ProSeries	X72B2A  ProSeries	X58A5S  ProSeries
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, 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
Audio Compression	G.711A, G.711U, PCM; AAC first channel only	G.711A, G.711U, PCM	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/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	1st and 9th channels: 4K at 15 fps or 4 MP at 30 fps Other Channels: 4MP at 15 fps; 1080p, 720p, 960H, D1, HD1, BCIF, CIF, QCIF at 30 fps	8 MP at 7 fps; 6 MP at 10 fps, 5 MP at 12 fps, 4 MP or 3 MP at 15 fps; 4 M-N, 1080p, 720p, 960H, D1, CIF or QCIF at 30 fps	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	8 MP at 15 fps; 6 MP or 5 MP at 20 fps; 4 MP, 3 MP, 1080p, 720p, 960H, D1, CIF at 30 fps	Channels 1 and 2: 5 M-N at 20 fps Channels 3 to 32: 4 M-N at 30 fps
Analog Input	Up to 32CH	16CH	8CH/16CH	8CH/16CH	8CH	32CH
IP Input	16+16CH up to 8MP	48CH or 64CH if no IP is used	8+8CH Up to 8MP	16+16CH Up to 8MP	8+8CH Up to 8MP	32CH Up to 8MP
Max Input/Record	128Mbps/128Mbps	256Mbps / 384Mbps	64Mbps/64Mbps	128Mbps/128Mbps	64Mbps/64Mbps	128Mbps /128Mbps
Audio In/Out	4/1, 2-way	16/1, 2-way	4/1, 2-way	4/1, 2-way	4/1, RCA	16/1, 2-way
Maximum HDD	4 SATA Ports, up to 10TB each disk 40TB max	8 SATA Ports, up to 8TB each disk 64TB max	2 SATA Ports, up to 10TB each disk 20TB 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 TV	2 HDMI, 1 VGA, 1 TV	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 BNC
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)	2 USB Ports (1 USB 2.0, 1 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
Alarm In/Out	16/6	16/6	8/3	16/3	8/3	16/6
Ethernet	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	2 Gigabit Port
Remote Login	128	128	128	128	128	128
Dimension	17.32in x 16.42in x 2.99in	17.3in x 17.9in x 3.7in	14.80 in x 11.31 in x 2.09 in	14.80 in x 11.31 in x 2.09 in	14.80 in. x 11.31 in. x 2.09 in.	17.30 in x 17.92 in x 3.74 in
Power	AC100V-240 V, 50/60 Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <50W (Without HDD)	12 VDC, 4 A/5A <10W (Without HDD)/20W	12 VDC, 4 A/5A <10W (Without HDD)/20W	12 VDC, 5A <15W (Without HDD)	AC100V-240 V, 50/60 Hz <35W (Without HDD)
Highlights	4K Penta-brid, Dewarping over web/smartPSS, POS, IVS, Face Detection*, Spot Output, Smart Search	4K Penta-brid, Dewarping over local/web/smartPSS, Plug & Play, P2P, Smart Search, IVS, Spot Output, Loop Out	4K Penta-brid, Dewarping over web/smartPSS, POS, IVS, Face Detection*, Spot Output, Smart Search	4K Penta-brid, Dewarping over web/smartPSS, POS, IVS, Face Detection*, Spot Output, Smart Search	4K@15 fps, IVS, Smart Search, Spot Output	1080P Penta-brid, IVS, Face Detection*, Spot Output, Smart Search

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

HDCVI Products

Model	HDCVI Digital Video Recorders					
	X82A3A  ProSeries	X54A5L  SMD ProSeries	X52A3A / X52A3N  LiteSeries	X51A2E / X51A3E  LiteSeries		X51B1E  LiteSeries
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		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	CH 1-2 10fps@5 M-N CH 3-16: 15fps@4 M-N; 30fps@1080N		CH 1-2: 10fps@5M-N CH 3-8: 15fps@4M-N	CH 1-2: 10fps@5M-N CH 3-16: 15fps@4M-N
Analog Input	16CH	32CH	16CH		8CH	16CH
IP Input	16+16CH Up to 8MP	32CH Up to 8MP	16+8CH Up to 6MP		8+4CH Up to 6 MP	16+8CH Up to 6 MP
Max Input/Record	128Mbps/128Mbps	128Mbps /128Mbps	96Mbps		48Mbps / 48Mbps	96Mbps / 96Mbps
Audio In/Out	4/1, RCA	4/1, 2-way	4/1	1/1	8/1, 2-Way	16/1, 2-Way
Maximum 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		1 SATA Port, up to 10TB max	
Display	1 HDMI, 1 VGA	2 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA		1 HDMI (3840 x 2160), 1 VGA	
eSATA		1	-		-	
USB	2 USB Ports (1 USB 2.0, 1 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)	1 USB 2.0 Port, 1 USB 3.0 Port		Two (2) USB 2.0 Ports	1 USB 2.0 Port, 1 USB 3.0 Ports
External Storage	USB Device/Network	USB Device/Network	USB Device/Network		USB Device/Network	
Alarm In/Out	16/3	16/6	16/3	-	8/3	16/3
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port		100 Mbps Port	1 Gigabit Port
Remote Login	128	128	128		128	
Dimension	14.80 in. x 11.31 in. x 2.09 in.	17.30 in x 16.40 in x 3.0 in	14.80 in x 11.30 in x 2.09 in		12.80 in x 10.04 in x 2.17 in	
Power	< 15 W, without HDD	AC100V-240 V, 50/60 Hz <35W (Without HDD)	12 VDC, 4 A <10W (Without HDD)	12 VDC, 4 A <15W (Without HDD)	< 10 W, without HDD	< 15 W, without HDD
Highlights	SMD Smart Motion Detection, Perimeter Protection	1080P Penta-brid, IVS, Face Detection*, Spot Output, Smart Search	1080P Penta-brid, Plug & Play, P2P, Smart Search, IVS		1080P Penta-brid, Smart Search, Face Detection*, IVS Analytics, P2P, Plug & Play	

	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount	
Vari-focal Dome	N25CL5Z N28BL7Z N45CL5Z N85CL5Z DH-IPC-HDBW7442H-ZFR DH-IPC-HDBW-5831EN-Z5E		PFA138						PFA151		
			PFA138								
						PFB201C					
					PFB210W						
					PFB210W						PFA152-E
		PFA101					PFB300C				
	A21CM0Z A22AM9Z A42AM2Z A42AM2Z-B A52AM9Z A52AM9Z-B A82AM5V A83ALBZ N25BM3Z			PFA137							
				PFA137				PFA200W			
						PFB200C					
					PFB203W						
PFA106			PFB203W							PFA152-E	
			PFB305W					PFA151			
Vari-focal Eyeball	A21BH0V		PFA13C								
				PFB204W							
				PFB204W						PFA152-E	
		PFA106		PFB305W					PFA151		
		PFA106					PFB220C				
	A22AH9Z A42AH2Z		PFA137		PFB203W						
					PFB203W						PFA152-E
		PFA106		PFB305W					PFA151		
		PFA106					PFB220C				
	A21CJ0Z A52AJ6Z A82AH5V N85CM5Z		PFA137								
		PFA130-E		PFB203W							
				PFB203W						PFA152-E	
PFA106			PFB305W					PFA151			
	PFA106					PFB220C					
Vari-focal Bullet	A83ABBZ DH-HAC-HFW32A1EN-Z N25CB5Z N28BB7Z N45CB5Z NK8BB7Z N65CB5Z N85CB5Z DH-IPC-HFW5831EN-Z5E		PFA121								
			PFA121						PFA151		
			PFA121								PFA152-E
			PFA142								
			PFA142								PFA153
	DH-IPC-HFW7442HN-ZFR									PFA154	
	A21CC0Z A42AC2Z A42AC2Z-B A52AF6Z A82AF5V N52BF3Z N53AF5Z			PFA130-E							
				PFA130-E						PFA151	
				PFA130-E							PFA152-E
				PFA142							
			PFA142							PFA153	

Accessories
























	Camera	Adapter	Junction Box	Wall Mount	In-ceiling Mount	Ceiling Mount	Sun/Rain Shield	Parapet Mount	Corner Mount	Pole Mount	
Fixed-lens Dome	A21BL02		PFA136								
	A21BL03		PFA136				PFA200W				
	A42AL22										
	A42AL23			PFB203W							
	A52AL42			PFB203W						PFA152-E	
	N24BL52										
	N24CL52	PFA106		PFB305W					PFA151		
	N44CL52										
	N44CL53										
	N51BL22										
	N51BL23										
	N53AL52	PFA106				PFB220C					
	N64CL52										
	N64CL53										
	N84CL52										
	N84CL54										
	Fixed-lens Eyeball	N41BL12-W		PFA136							
					PFB203W						
				PFB203W						PFA152-E	
A82AM52 DH-IPC-HDBW4239RN- ASE				PFA137							
				PFA137				PFA200W			
					PFB203W	PFB200C					
		PFA106			PFB203W						PFA152-E
		PFA106		PFB305W					PFA151		
N24BN52 N44BN52				PFA139							
					PFA201W						
					PFB204W						PFA152-E
				PFB204W							
DH-IPC-HDBW- 4231FN-E2-M			PFA137								
				PFB203W							
				PFB203W						PFA152-E	
Fixed-lens Eyeball	N51BI22 N51BI23 N53AJ52		PFA136								
			PFA130-E								
				PFB203W							
				PFB203W						PFA152-E	
		PFA106		PFB305W					PFA151		
	PFA106					PFB220C					
	A211K02 A511K02 N41BK22			PFA13A-E							
				PFA130-E							
					PFB204W						
					PFB204W						PFA152-E
		PFA106		PFB305W					PFA151		
	PFA106					PFB220C					
	A21BG02 A21BG03 A42AG23 N24CG52 N44CG52 N44CG53 N84CG52 N84CG54			PFA139							
				PFA130-E							
					PFB204W						
				PFB204W						PFA152-E	
PFA106			PFB305W					PFA151			
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		PFA130-E								
				PFB203W							
				PFB203W						PFA152-E	
		PFA106		PFB305W					PFA151		
		PFA106				PFB220C					
Fixed-lens Bullet/ Box	N41BD22 N51BD22 N51BD23 N41BD12-W N53AB52 A21CF02 A82AF53 DH-IPC-HFW4239TN-ASE		PFA130-E						PFA151		
			PFA130-E							PFA152-E	
			PFA142								
			PFA142								PFA153
			PFA121							PFA151	
			PFA121								PFA152-E
	A21BB02 A21BB03 A42AB23 A52AB62 N44CB33 N64CB32 N84CB34		PFA121								
			PFA121								
			PFA121								PFA152-E
			PFA142								
			PFA142								PFA153
			PFA142								
	NK8BA4 N45BA5 DH-IPC-HF8242FN-FR DH-IPC-HF8835FN				PFB605W						
					PFA162						
					PFA162						PFA150
			PFA121		PFB121W						
			PFA121		PFB121W					PFA151	
			PFA121		PFB121W						PFA152-E
					PFB110W						
			PFA140		PFB604W						
		PFA140		PFB604W						PFA150	
		PFA140		PFB604W							
A83AA9				PFB121W							
		PFA121		PFB121W					PFA151		
		PFA121		PFB121W							
		PFA121		PFB121W						PFA152-E	
						PFB110W					
Fisheye	A42AR2 N55B55		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						PFA151	
			PFA132-E							PFA150	
			PFA132-E								
N55BT5				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-PFW-8800N-A180 DH-IPC-PFW8601N-H-A180		PFA120						PFA151		
			PFA120							PFA150	
			PFA120								
	DH-HAC-PF-W3601N-A180		PFA124-B								
			PFA124-B							PFA151	
			PFA124-B								PFA152-E
Panoramic	DH-IPC-PDB-W8800N-A180	PFA111		PFB303W							
		PFA111	PFA120	PFB303W							
		PFA111		PFB303W						PFA151	
		PFA111		PFB303W							PFA150
		PFA111				PFB300C					
		PFA111						PFB303S			
	DH-IPC-PD-BW5831-B360	PFA108 + PFA111		PFB303W							
		PFA108 + PFA111	PFA120	PFB303W							
		PFA108 + PFA111		PFB303W						PFA151	
		PFA108 + PFA111		PFB303W							PFA150
		PFA108 + PFA111		PFB303W			PFB300C				
		PFA108 + PFA111							PFB303S		
	DH-PSD81602N-A360	PFA710 †		PFB710W †							
		PFA710		PFB710W							PFA153
	DH-PSDW81642M-A360			PFB710W							
				PFB710W							PFA153
							PFB710C				
	PTZ	1A203TNI 12203TNI		PFA120							
			PFA140								
PFA107				PFB305W							
PFA107				PFB305W						PFA151	
PFA107			PFA142	PFB305W							PFA150
PFA107							PFB220C				
SD22A204IN-GC 22204TNI 22204UENI			PFA137								
						PFB200C					
				PFB203W							
				PFB203W						PFA151	
			PFB203W							PFA152-E	
SD22A204TN-GNI-W			PFA137								
				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 DH-SD40A212TN-HNI		PFA120								
			PFA140								
		PFA110 †		PFB300S †					PFA151		
		PFA110		PFB300S						PFA150	
		PFA110		PFB300S							
		PFA110	PFA142	PFB300S							
		PFA110	PFA142	PFB300S						PFA153	
		PFA110				PFB300C					
		PFA110						PFB303S			
	42212TNI		PFA102		PFB302S					PFA151	
			PFA102		PFB302S						PFA150
			PFA102		PFB302S						
			PFA102				PFB300C				
	49225IC 49225TNI			PFA120							
				PFA140							
					PFB305W †					PFA151	
					PFB305W						PFA150
					PFB305W						
				PFA142	PFB305W						
			PFA142	PFB305W					PFA153		
		PFA111					PFB300C				
	50230IC 50230UNI-A 50430UNI 59230IC 59430IC 59230UNI 59430UNI			PFA120							
				PFA140							
		PFA110 †		PFB300S †						PFA151	
		PFA110		PFB300S							PFA150
		PFA110		PFB300S							
		PFA110	PFA142	PFB300S							
		PFA110	PFA142	PFB300S						PFA153	
		PFA110				PFB300C					
		PFA110						PFB303S			
6AE240VNI 6AE530UNI 6AE830VNI 6AL245UNI DH-SD6ALA230FN-HN			PFA120								
			PFA140								
	PFA111 †		PFB303W †								
	PFA111		PFB303W						PFA151		
	PFA111		PFB303W							PFA150	
	PFA111	PFA142	PFB303W								
	PFA111	PFA142	PFB303W						PFA153		
	PFA111				PFB300C						
	PFA111						PFB303S				

<p>4-port: DH-PFL2106-4ET-96 8-port: DH-LR2110-8ET-120 16-port: DH-LR2218-16ET-240 24-port: DH-LR2226-24ET-360</p>	<p>LR1002</p>	<p>LR1002-1ET/ LR1002-1EC</p>	<p>PC-H845-147</p>	<p>PC-H59-D113.6</p>		<p>PFM113</p>	
 	 	 					
<p>ePoE Switch¹</p> <ul style="list-style-type: none"> • 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 	<p>EoC Passive Converter</p> <ul style="list-style-type: none"> • 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 	<p>Single-port EoC Extender</p> <ul style="list-style-type: none"> • 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 	<p>Smoked Polycarbonate Bubble</p> <ul style="list-style-type: none"> • Replacement Bubble for PTZ IP and HDCVI Cameras • Compatible Dahua PTZ models 52C/50XXXXXX 	<p>Smoked Polycarbonate Bubble</p> <ul style="list-style-type: none"> • Replacement Bubble for Vari-focal Dome Cameras • Compatible Dahua IP Models: N45CL5Z, N45CL5Z-B, N25CL5Z, N85CL5Z, HDB5831EN-Z5E • Compatible Dahua HDCVI Model: A83ALBZ 		<p>128 GB Micro SD Card</p> <ul style="list-style-type: none"> • All IP cameras on this guide offer an SD Card Slot up to 128 GB • Cost-effective TLC Storage Medium • High-transmission Speed • Waterproof, Shockproof, and X-ray Proof • High and Low Temperature Resistance 	
<p>DHL49-4K</p>	<p>STx000VX000X</p>	<p>DH-PFL0550-E6D</p>	<p>DH-PFL2070-J12M</p>	<p>DH-PFB610V</p>	<p>DH-PFB610V-IR</p>	<p>PFB604W</p>	<p>DH-PFB605W</p>
							
<p>49-in. 4K LCD</p> <ul style="list-style-type: none"> • 4K (3840 x 2160) Ultra HD Resolution • Industrial-grade DID LCD panel • High-fidelity Digital Signal Processing • Built-in 3D Comb Filter and 3D Noise Reduction • 8 ms Response Time, No Image Ghosting • 16.7M Color Reproduction • Professional Thermal Design • Built-in Power / Low Energy Consumption • HDMI, DVI, VGA, CVBS, and USB Video Inputs 	<p>Skyhawk Series Hard Drives</p> <ul style="list-style-type: none"> • Designed for 24/7 Surveillance-optimized Applications • Firmware Optimized for Continuous Recording; 90% Write and 10% Read • Engineered for Workloads up to 180TB/year • Capacity Up to 10 TB, Supports 64 Cameras per Drive • Low Power Consumption and Startup Current 	<p>6MP 5-50mm Vari-focal Lens</p> <ul style="list-style-type: none"> • 1/2.7-in. 6 MP Image Format • 5 mm to 50 mm Vari-focal Lens • CS-type Mount • Compatible with NK8B4A, N45BA5 	<p>12MP Vari-focal Lens</p> <ul style="list-style-type: none"> • 12MP 4/3-in. Lens • 20-70 mm Lens • M43 Mount • Designed for Extreme Temperature Environments • Compatible with A83AA9 	<p>14 inch Outdoor Housings</p> <ul style="list-style-type: none"> • Compatible with any Dahua box camera • IR up to 328ft. (DH-PFB610V-IR) • Built-in heater (DH-PFB610V-IR) • IP67 • IK10 		<p>Housing Brackets</p> <ul style="list-style-type: none"> • Compatible with DH-PFH610V and DH-PFH610V-IR housings 	
<p>DH-PFM900-E</p>	<p>DH-PFM904</p>	<p>iDMSS</p>	<p>gDMSS</p>	<p>DSS Series</p>		<p>SmartPSS</p>	
							
<p>Integrated Mount Tester</p> <ul style="list-style-type: none"> • 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 	<p>HDCVI Mount Tester</p> <ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • iOS 8.0 and Later • Relay Out Functionality • MJPEG Video Decoding • PIC Channel • Multi-language Interface • Available on App Store 	<ul style="list-style-type: none"> • Android 3.0 and Later • Relay Out Functionality • MJPEG Video Decoding • Add Playback, RealPlay, Image Choices • E-Map Function • Multi-language Interface • Available on Google Play 	<p>Digital Surveillance Management Center</p> <ul style="list-style-type: none"> • Complete Organization, Device, and Event Centralized Management • Manage up to 500 Devices over a Maximum of 2000 Channels • Supports H.265 and H.264 Codec • Support for Video Wall Configuration and Display • Live Video Monitoring and Playback • PTZ Camera Control and Smart Track • Intelligent Video System (IVS) with Business Analysis 		<p>Smart Professional Surveillance System</p> <ul style="list-style-type: none"> • 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 	