2018
Full Product Catalog

alhua TECHNOLOGY

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Intelligent Solutions for a Safer World

Dahua Technology USA brings high-value, total security solutions to the North American market by focusing on leading technology and world class support. We're working hard to make Dahua the first name that comes to mind when you think of innovative video surveillance solutions
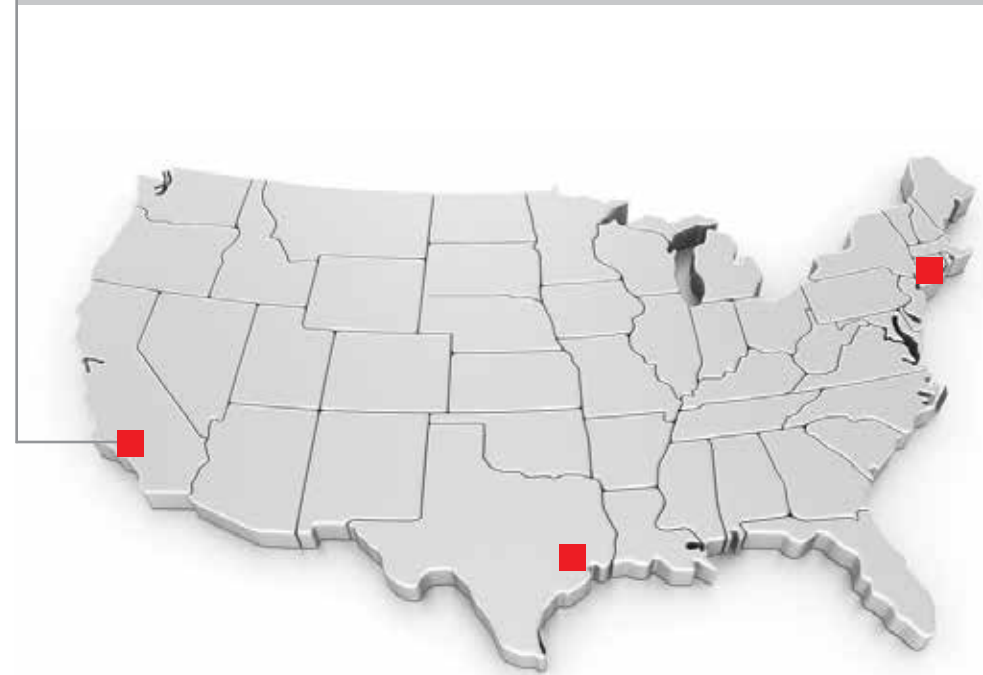
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On-Board Package	√	√	√
5-Year Warranty	√	√	√
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Demo Purchase Program	√	√	√
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Online Training	√	√	√
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Tech Support	General Line	General Line	Priority Line
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Star Reward Points *Coming Soon*	–	√	√
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All-Star Partner Summit	–	–	Eligible

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

UltraSeries

- Advanced security applications for medium and large businesses

- Ultra high resolution (up to 12MP)

- Smart H.265+, built-in Intelligent Video System (IVS) analytics

- IP Pan Tilt Zoom (PTZ) cameras feature a long-range optical zoom and Smart IR illumination over 650 feet

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

ProSeries

- Small-to-mid-size applications

- Built-in IVS analytics, IVS provides the ability to detect and analyze moving objects

- True Wide Dynamic Range (up to 120dB)

- Most IP and HDCVI PTZ cameras feature a short-long range optical zoom

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

LiteSeries

- Small-to-mid-size applications

- Ideal for users with basic surveillance needs and uncomplicated scenes

- Digital Wide Dynamic Range (DWDR)

- IP and HDCVI PTZ camera options offer a short- or mid-range optical zoom

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

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

HDCVI 3.0

HDCVI 3.0, the latest release, includes intelligent features and up to 4K resolution, further extending the life of legacy systems and security investments. HDCVI is an open platform standard developed by Dahua Technology. It allows for up 4K UHD resolution over coaxial cable, extending the life of legacy infrastructure.

SMART H.265+

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

STARLIGHT

Dahua offers 3 levels of Starlight Technology in the good, better, best categories for low-light applications. The 5MP Pro Series cameras *(N51 and N52)*, are a cost effective, basic version of Starlight that provides good images in low-light environments. Dahua's 2MP cameras offer enhanced Starlight Technology for professional applications that require better visibility under dark conditions. Starlight+ 4K cameras provides excellent images in ultra-low conditions where color details are maintained longer.
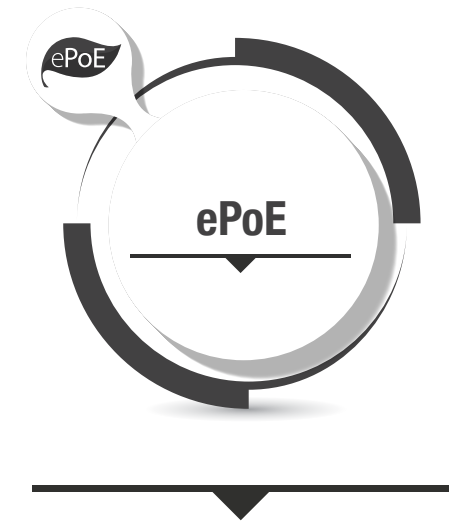
ePoE

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

Dahua's innovative ePoE technology offers a plug-and-play solution to transmit power and data over long distances via Ethernet or coaxial cables, reducing installation time and saving money. ePoE technology is a viable, cost-effective solution for extending transmission distances and for converting existing, coax-based analog systems into IP systems.
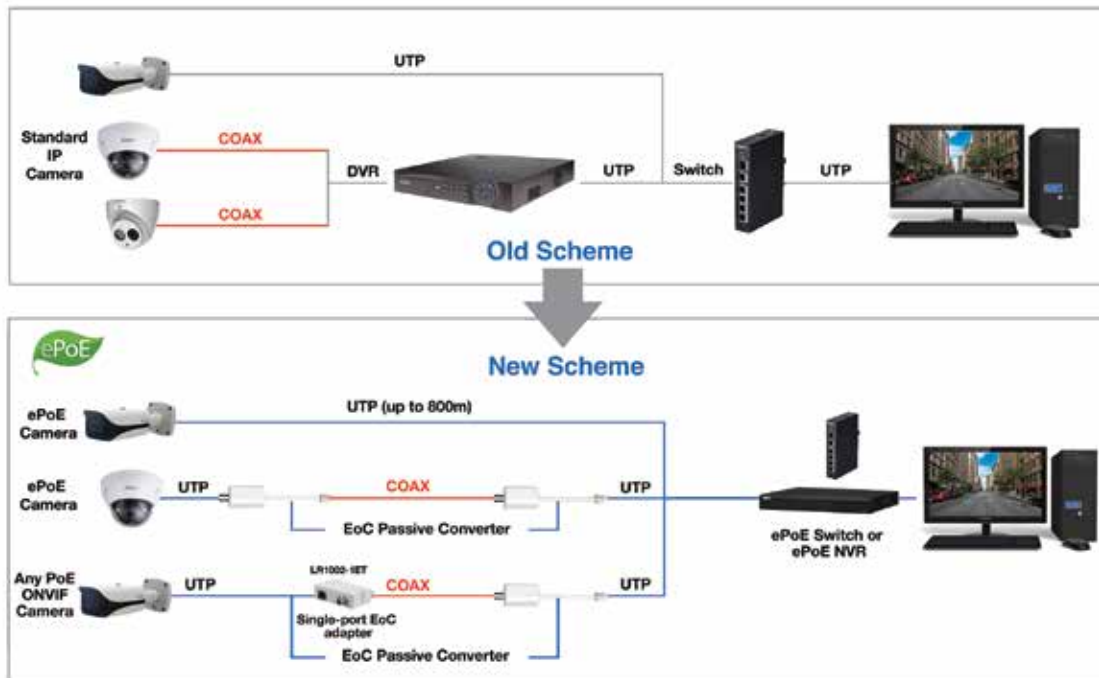
Enhanced PoE encompasses pure IP systems where a single CAT 5 cable can carry signals up to 800 m (2624 ft), and IP/Analog hybrid systems where the technology leverages existing analog infrastructure to transmit power and data up to 1000 m (3281 ft) over RG59 coaxial cable. Enhanced PoE is compatible with three connection modes operating over the same network simultaneously: traditional IP networks, long-distance ePoE networks and coaxial networks. ePoE technology seamlessly integrates the latest high-definition IP cameras with a coaxial infrastructure using the Ethernet over Coaxial (EoC) protocol to convert between analog and IP power and data transmissions.
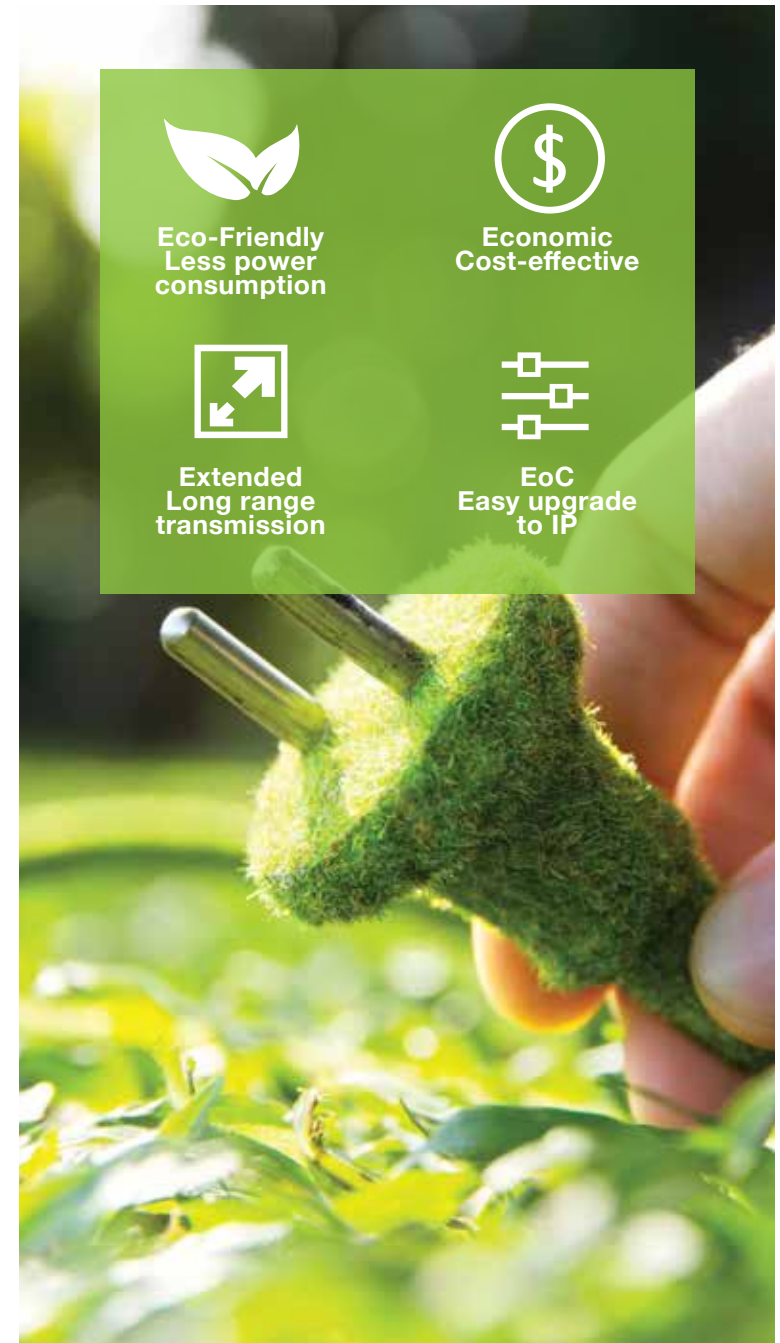
Intelligent Video System (IVS) is an intelligent solution that helps minimize an operator's time searching for data, increases effectiveness, and reduces response time. IVS works by using metadata via the smart search so that evidence can instantly be retrieved for all objects that entered or exited the scene. As a result, IVS saves operators time when searching for an event due to less recorded video to sort through. Thanks to the high level accuracy from IVS rules, fewer false positives trigger data recordings for a higher savings on storage.

STANDARD

Notification of:
- Tampering
- Error writing to an onboard Micro SD card.
- Error sending/receiving data over the network
- Unauthorized access
- Motion

PREMIUM

Detection of:
- Tripwire
- Intrusion
- Abandoned/Missing Object
- Scene Change

ADVANCED

Detection of:
- Facial Detection
- Heat Mapping
- Auto-tracking
- People Counting
- E-PTZ

STANDARD

PREMIUM

ADVANCED

Model	Box Cameras			Bullet Cameras		
	NK8BA4	N45BA5	N25BA5	NK8BB7Z	N84BB14	N65CB5Z
	UltraSeries	ProSeries	ProSeries STARLIGHT	IP67 UltraSeries 4K	IP67 IK10 UltraSeries	IP67 IK10 ProSeries ePoE
Image Sensor	1/1.7" 12MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/1.7" 12MP CMOS	1/2.5" UHD 4K (8MP) CMOS	1/2.9" 6MP CMOS
Lens	Sold Separately	Sold Separately	Sold Separately	4.1mm - 16.4mm/F1.53 Motorized	4mm/F1.6 Manual	2.7mm - 13.5mm, Motorized
Horizontal Field of View	N/A	N/A	N/A	85° - 35°	87°	91° - 27°
Minimum Illumination	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Color: 0.01 lux/F1.2 B/W: 0.001 lux/F1.2	Starlight Color: 0.005 lux/F1.2 B/W: 0.001 lux/F1.2	Color: 0.02 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.04 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)	DWDR	120dB	120dB	DWDR	DWDR	True WDR (120dB)
Maximum IR Distance	N/A	N/A	N/A	164ft (50m)	130ft (40m)	164ft (50m)
Video Compression	Smart H.265+,H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Maximum Resolution	12MP (4000 x 3000)	4MP (2688x1520)	1080p (1920x1080)	12MP (4000 x 3000)	4K (8MP) (3840x2160)	6MP (3072 x 2048)
Frame Rate	20fps@12MP	30fps@4MP	60fps@1080p	20fps@12MP	15fps@4K 30fps@3MP	20fps@6MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, 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, Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1	—	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	—	2/1
Environmental Protection	—	—	—	IP67, IK10	IP67	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V/AC24V, PoE (802.3af), Max <8W	DC12V/AC24V, PoE (802.3af), Max <5W	DC12V/AC24V, PoE (802.3af), Max <5W	DC12 V, PoE+ (802.3at) Max < 13 W	DC12V, PoE (802.3af) Max < 7W	DC12V, PoE (802.3af Class 0) Max < 12.95 W

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	Bullet Cameras					
Model	N64CB32	N64CB33	N52BF3Z	N51BD22	N51BD23	N45BB5Z
	IP67 ProSeries ePoE	IP67 ProSeries ePoE	IP67 ProSeries STARLIGHT	IP67 ProSeries STARLIGHT	IP67 ProSeries STARLIGHT	IP67 ProSeries
Image Sensor	1/2.9" 6MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS
Lens	2.8mm/F1.6	3.6mm/F1.6	2.7mm - 13.5mm, Motorized	2.8mm/F1.6, Manual	3.6mm/F1.6, Manual	2.7mm - 12mm/F1.4 Motorized
Horizontal Field of View	98°	69°	95° - 27°	96°	96°	100°- 35°
Minimum Illumination	Color: 0.04 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.04 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.03 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)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	120dB
Maximum IR Distance	131ft (40m)	131ft (40m)	197ft (60m)	98ft (30m)	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, 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	6MP (3072 x 2048)	6MP (3072 x 2048)	5MP (2592 x 1944)	5MP (2592 x 1944)	5MP (2592 x 1944)	4MP (2688x1520)
Frame Rate	20fps@6MP	20fps@6MP	20fps@5MP	20fps@5MP	20fps@5MP	30fps@4MP
Multi-streaming	3 streams	3 streams	2 streams	2 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, 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
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	–	–	–	Micro SD, Max 128GB
Alarm In/Out	–	–	–	–	–	2/1
Environmental Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, PoE (802.3af Class 0), < 5.2 W	DC12V, PoE (802.3af Class 0), < 7 W	DC12V, PoE (802.3af Class 0) Max < 12.6 W	DC12V, PoE (802.3af Class 0) Max < 4.85 W	DC12V, PoE (802.3af Class 0) Max < 4.85 W	DC12V (±25%), PoE (802.3af) Max <11.5W

	Bullet Cameras					
Model	N42AC3Z IP67 LiteSeries	N28BB7Z IP67 IK10 UltraSeries STARLIGHT	N25BB5Z IP67 ProSeries STARLIGHT	N24BB33 IP67 ProSeries	DH-IPC-HFW23A0RN-ZS IP67 LiteSeries	N44BB33 IP67 ProSeries
Image Sensor	1/3" 4MP CMOS	1/1.9" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 3MP CMOS	1/3" 4MP CMOS
Lens	2.7mm - 12mm/F1.4, Motorized	4.1mm - 16.4mm, Motorized	2.7mm - 12mm/F1.4, Motorized	3.6mm/F2.0, Manual	2.7mm -12mm/F1.4, Motorized	3.6mm/F2.0 Manual
Horizontal Field of View	100°- 35°	80° - 32°	97°- 34°	87°	92° - 28°	87°
Minimum Illumination	Color: 0.1 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.002 lux/F1.53 0 lux/F1.53 (IR on)	Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	120dB	True WDR (120dB)	120dB	120dB	DWDR	120dB
Maximum IR Distance	197ft (60m)	164ft (50m)	164ft (50m)	130ft (40m)	98ft (30m)	130ft (40m)
Video Compression	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	H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Maximum Resolution	4MP (2688 x 1520)	1080p (1920 x 1080p)	1080p (1920x1080)	1080p (1920x1080)	3MP (2048x1536)	4MP (2688x1520)
Frame Rate	20fps@4MP 30fps@3MP	60fps@1080p	60fps@1080p	60fps@1080p	20fps@3MP 30fps@1080p	30fps@4MP
Multi-streaming	2 streams	3 streams	3 streams	3 streams	2 streams	3 streams
Intelligent Video	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection
Compatibility	–	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	ONVIF, PSIA, CGI	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	–	–	–
Environmental Protection	IP67	IP67, IK10	IP67	IP67	IP67	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V (±25%), PoE (802.3af) Max 12.95W	DC12V, PoE+ (802.3at Class 4) < 13 W	DC12V (±25%), PoE (802.3af), Max <11.5W	DC12V (±25%), PoE (802.3af), Max <6W	DC12V (±25%), PoE (802.3af), Max 7.5W	DC12V (±25%), PoE (802.3af), Max <6W

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	Bullet Cameras					
Model	N44BB33-B IP67 ProSeries	DH-IPC-HFW13A0SN IP67 LiteSeries	DH-IPC-HFW11A0SN IP67 LiteSeries	DH-IPC-HFW13A0SN-W IP67 LiteSeries	DH-IPC-HFW11A0SN-W IP67 LiteSeries	NK8BL7Z IP67 IK10 UltraSeries
Image Sensor	1/3" 4MP CMOS	1/3" 3MP CMOS	1/3" 1.3MP CMOS	1/3" 3MP CMOS	1/3" 1.3MP CMOS	1/1.7" 12MP CMOS
Lens	3.6mm/F2.0 Manual	3.6mm/F2.0	3.6mm/F2.0	2.8mm/F2.0 | 3.6mm/F2.0	2.8mm/F2.0 | 3.6mm/F2.0	4.1mm - 16.4mm, Motorized
Horizontal Field of View	87°	81°	71°	100° | 77°	92° | 72°	105° - 35°
Minimum Illumination	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.02 lux/F1.53 0 lux/F1.53 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	120dB	DWDR	DWDR	DWDR	DWDR	DWDR
Maximum IR Distance	130ft (40m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)	164ft (50m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Maximum Resolution	4MP (2688x1520)	3MP (2048××1536)	1.3MP (1280x960)	3MP (2304x1296)	1.3MP (1280x960)	12MP (4000x3000)
Frame Rate	30fps@4MP	20fps@3MP 30fps@1080p	30fps@1.3MP	20fps@3MP 30fps@1080p	30fps@1.3MP	20fps@12MP
Multi-streaming	3 streams	2 streams	2 streams	2 streams	2 streams	3 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	–	–	–	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map
Compatibility	ONVIF, PSIA, CGI	ONVIF, CGI	ONVIF, CGI	ONVIF, CGI, WiFi (IEEE802.11b/g/n) 50m (open field)	ONVIF, CGI, WiFi (IEEE802.11b/g/n) 50m (open field)	ONVIF, PSIA, CGI
Audio In/Out	–	–	–	–	–	1/1
Memory Slot	Micro SD, Max 128GB	–	–	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD card, Max 128GB
Alarm In/Out	–	–	–	–	–	2/1
Environmental Protection	IP67	IP67	IP67	IP67	IP67	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V (±25%), PoE (802.3af), Max <6W	DC12V (±25%), PoE (802.3af), Max 5W	DC12V (±25%), PoE (802.3af), Max 5W	DC12V, IR On Max 5.5W (IR On)	DC12V, IR On Max 5W (IR On)	DC12V, AC24V, PoE+ (802.3at), < 18 W

	Dome Cameras					
Model	N84BL44	N65CL5Z	N64CL52	N64CL53	N52BM3Z	N51BL22
Image Sensor	1/2.5" UHD 4K (8MP) CMOS	1/2.9" 6MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Lens	4mm/F1.6, Manual	2.7mm - 13.5mm, Motorized	2.8mm/F1.6	3.6mm/F1.6	2.7mm - 13.5mm, Motorized	2.8mm/F1.6, Manual
Horizontal Field of View	87°	91° - 27°	98°	69°	95° - 27°	96°
Minimum Illumination	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.04 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.04 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.04 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.008 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	98ft (30m)	164ft (50m)	98ft (30m)	98ft (30m)	98ft (30m)	98ft (30m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
Maximum Resolution	4K (8MP) (3840x2160)	6MP (3072 x 2048)	6MP (3072 x 2048)	6MP (3072 x 2048)	5MP (2592 x 1944)	5MP (2592 x 1944)
Frame Rate	15fps@4K 30fps@3MP	20fps@6MP	20fps@6MP	20fps@6MP	20fps@5MP	20fps@5MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	2 streams	2 streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion	Tripwire, Intrusion
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	—	—
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	—	—
Alarm In/Out	2/1	2/1	1/1	1/1	—	—
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, PoE (802.3af), < 5W	DC12V, AC24V, PoE (802.3at Class 4), < 15 W	DC12V, PoE (802.3af Class 0), < 5.2 W	DC12V, PoE (802.3af Class 0), < 5.2 W	DC12V, PoE (802.3af Class 0), < 6.2 W	DC12V, PoE (802.3af Class 0), < 4.2 W

	Dome Cameras					
Model	N51BL23	N45BL5Z	N44BN52	N42AM3Z	N44BL52 / N44BL52-B / N44BL53	DH-IPC-HDBW23A0RN-ZS
Image Sensor	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 3MP CMOS
Lens	3.6mm/F1.6, Manual	2.7mm - 12mm/F1.4, Motorized	2.8mm/F2.0, Manual	2.7mm - 12mm/F1.4, Motorized	2.8mm/ F2.0, Manual / 3.6mm/ F2.0, Manual	2.7mm - 12mm/F1.4, Motorized
Horizontal Field of View	78°	100°- 35°	104°	100°- 35°	87°	92° - 28°
Minimum Illumination	Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.03 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F1.4 0 lux/F1.4 (IR on)
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)	120dB	120dB	120dB	120dB	DWDR
Maximum IR Distance	98ft (30m)	164ft (50m)	65ft (20m)	98ft (30m)	98ft (30m)	98ft (30m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	H.264, MJPEG
Maximum Resolution	5MP (2592 x 1944)	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 x 1520)	4MP (2688 × 1520)	3MP (2048 x 1536)
Frame Rate	20fps@5MP	30fps@4MP	30fps@4MP	20fps@4MP 30fps@3MP	30fps@4MP	20fps@3MP 30fps@1080p
Multi-streaming	2 streams	3 streams	3 streams	2 streams	3 streams	2 streams
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, 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, Built-in Mic	–	1/1	–
Memory Slot	–	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	–	1/1	1/1	–	1/1	–
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, PoE (802.3af Class 0), < 4.2 W	DC12V, AC24V, PoE (802.3af), Max <12.5W	DC12V, PoE (802.3af), Max < 4.5W	DC12V (±25%), PoE (802.3af), Max 9.75W	DC12V (±25%), PoE (802.3af), Max <7.5W	DC12V (±25%), PoE (802.3af), Max 4.5W

	Dome Cameras					WiFi Dome Cameras
	DH-IPC-HDBW13A0EN	N24BN52	N25BL5Z	N24BL52 / N24BL53	DH-IPC-HDBW11A0EN	DH-IPC-HDBW13A0EN-W
Image Sensor	1/3" 3MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 1.3MP CMOS	1/3" 3MP CMOS
Lens	3.6mm/F2.0, Manual	2.8mm/ F2.0, Manual	2.7mm - 12mm/F1.4, Motorized	2.8mm/F2.0, Manual 3.6mm/F2.0, Manual	2.8mm/F2.0, Manual 3.6mm/F2.0, Manual	2.8mm/F2.0, Manual 3.6mm/F2.0, Manual
Horizontal Field of View	81°	110°	97°- 34°	110°	89° 71°	100° 77°
Minimum Illumination	Color: 0.1 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.006 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F2.0 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	120dB	120dB	120dB	DWDR	DWDR
Maximum IR Distance	98ft (30m)	65ft (20m)	164ft (50m)	98ft (30m)	98ft (30m)	98ft (30m)
Video Compression	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	H.264, MJPEG	H.264, MJPEG
Maximum Resolution	3MP (2048x1536)	1080p (1920x1080)	1080p (1920x1080)	1080p (1920x1080)	1.3MP (1280x960)	3MP (2304×1296)
Frame Rate	20fps@3MP 30fps@1080p	60fps@1080p	60fps@1080p	60fps@1080p	30fps@1.3MP	20fps@3MP 30fps@1080p
Multi-streaming	2 streams	3 streams	3 streams	3 streams	2 streams	2 streams
Intelligent Video	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	–	–
Compatibility	ONVIF, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, CGI	ONVIF, CGI, WiFi (IEEE802.11b/g/n) 50m (open field)
Audio In/Out	–	1/1, Built-in Mic	1/1	1/1	–	–
Memory Slot	–	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	–	Micro SD, Max 128GB
Alarm In/Out	–	1/1	1/1	1/1	–	–
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V (±25%), PoE (802.3af), Max 4W	DC12V (±25%), PoE (802.3af), Max <4.5W	DC12V/AC24V, PoE (802.3af), Max <12.5W	DC12V (±25%), PoE (802.3af), Max <5W	DC12V (±25%), PoE (802.3af), Max 4W	DC12V, Max 4.7W (IR On)

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	WiFi Dome Cameras	Eyeball Cameras				
	DH-IPC-HDBW11A0EN-W	N84BG44	N64CG52	N64CG53	N51BI22	N51BI23
	LiteSeries IP67 IK10	UltraSeries IP67 4K	ProSeries IP67 ePoE	ProSeries IP67 ePoE	ProSeries IP67 IK10 STARLIGHT	ProSeries IP67 IK10 STARLIGHT
Image Sensor	1/3" 1.3MP CMOS	1/2.5" UHD 4K (8MP) CMOS	1/2.9" 6MP STARVIS™ CMOS	1/2.9" 6MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Lens	2.8mm/F2.0, Manual 3.6mm/F2.0, Manual	4mm/F1.6, Manual	2.8mm/F1.6, Manual	3.6mm/F1.6, Manual	2.8mm/F1.6, Manual	3.6mm/F1.6, Manual
Horizontal Field of View	92° 72°	87°	98°	69°	96°	96°
Minimum Illumination	Color: 0. 1 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.04 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.04 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.009 lux/F1.6 0 lux/F1.6 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	DWDR	DWDR	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)	True WDR (120dB)
Maximum IR Distance	98ft (30m)	164ft (50m)	164ft (50m)	164ft (50m)	98ft (30m)	98ft (30m)
Video Compression	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	1.3MP (1280 x 960)	4K (8MP) (3840 x 2160)	6MP (3072 x 2048)	6MP (3072 x 2048)	5MP (2592 x 1944)	5MP (2592 x 1944)
Frame Rate	30fps@1.3MP	15fps@4K 30fps@3MP	20fps@6MP	20fps@6MP	20fps@5MP	20fps@5MP
Multi-streaming	2 streams	3 streams	3 streams	3 streams	2 streams	2 streams
Intelligent Video	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	Tripwire, Intrusion	Tripwire, Intrusion
Compatibility	ONVIF, CGI, WiFi (IEEE802.11b/g/n) 50m (open field)	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	–	Built-in Mic	Built-in Mic	Built-in Mic	–	-
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	–	–	–	-
Alarm In/Out	–	–	–	–	–	-
Environmental Protection	IP67, IK10	IP67	IP67	IP67	IP67, IK10	IP67, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, Max 5.6W (IR on)	DC12V, PoE (802.3af), < 5W	DC12V, PoE (802.3af Class 0), < 5.2 W	DC12V, PoE (802.3af Class 0), < 6 W	DC12V, PoE (802.3af Class 0), < 4 W	DC12V, PoE (802.3af Class 0), < 4 W

Model	Eyeball Cameras					
	N42AH3Z	N44BG52 / N44BG53	DH-IPC-HDW23A0RN-ZS	DH-IPC-HDW13A0SN	N24BG52	DH-IPC-HDW11A0SN
	IP67 LiteSeries	IP67 ProSeries	IP67 LiteSeries	IP67 LiteSeries	IP67 ProSeries STARLIGHT	IP67 LiteSeries
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 3MP CMOS	1/3" 3MP CMOS	1/2.8" 2MP CMOS	1/3" 1.3MP CMOS
Lens	2.7mm - 12mm/F1.4, Motorized	2.8mm/F2.0, Manual / 3.6mm/ F2.0, Manual	2.7mm - 12mm/F1.4, Motorized	2.8mm/ F2.0, Manual / 3.6mm/F2.0, Manual	2.8mm/ F2.0, Manual	2.8mm/ F2.0, Manual / 3.6mm/F2.0, Manual
Horizontal Field of View	100° - 35°	104° / 87°	92° - 28°	92° / 81°	110°	89° / 71°
Minimum Illumination	Color: 0.1 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.08 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F1.4 0 lux/F1.4 (IR on)	Color: 0.1 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.009 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.1 lux/F2.0 0 lux/F2.0 (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	120dB	120dB	DWDR	DWDR	120dB	DWDR
Maximum IR Distance	197ft (60m)	164ft (50m)	197ft (60m)	98ft (30m)	164ft (50m)	98ft (30m)
Video Compression	Smart H.264 +, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	H.264, MJPEG	H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	H.264, MJPEG
Maximum Resolution	4MP (2688 x 1520)	4MP (2688 x 1520)	3MP (2048 x 1536)	3MP (2048 x 1536)	1080p (1920 x 1080)	1.3MP (1280x960)
Frame Rate	20fps@4MP 30fps@3MP	30fps@4MP	20fps@3MP 30fps@1080p	20fps@3MP 30fps@1080p	60fps@1080p	30fps@1.3MP
Multi-streaming	2 streams	3 streams	2 streams	2 streams	3 streams	2 streams
Intelligent Video	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	–	–	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection	–
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, CGI	ONVIF, PSIA, CGI	ONVIF, CGI
Audio In/Out	–	Built-in Mic	–	–	Built-in Mic	–
Memory Slot	Micro SD, Max 128GB	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	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V ±25%, PoE (802.3af), Max 9.75W	DC12V (±25%), PoE (802.3af), Max <5W	DC12V (±25%), PoE (802.3af), Max 7.5W	DC12V (±25%), PoE (802.3af), Max 4W	DC12V (±25%), PoE (802.3af), Max <5W	DC12V (±25%), PoE (802.3af), Max 4W

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	Fisheye Cameras			
	NK8BR4 IP67 IK10 Ultra Series	**N68BA4** IP67 IK10 Ultra Series	**N68BR4V** IP67 IK10 Ultra Series	NEW **N55BS5** IP67 Pro Series
Image Sensor	1/1.7" 12MP CMOS	1/1.8" 6MP CMOS	1/1.8" 6MP CMOS	1/2.5" 5MP CMOS
Lens	1.98mm/F2.8, Manual	1.7mm/F2.0, Manual	1.3mm/F2.8, Manual	1.4mm/F1.6, Manual
Horizontal Field of View	360°	360°	360°	180°
Minimum Illumination	0.001 lux/F2.8 0lux/F2.8 (IR on)	Color: 0.002 lux/F2.0 0 lux/F2.0 (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
Day/Night	True Day/Night	True Day/Night	True Day/Night	Electronic Day Night
Wide Dynamic Range (WDR)	DWDR	DWDR	DWDR	True WDR (120dB)
Maximum IR Distance	33ft (10m)	33ft (10m)	33ft (10m)	–
Video Compression	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	12MP (4000x3000)	6MP (3072x2048)	6MP (3072 x 2048)	5MP (2560 x 1920)
Frame Rate	25fps@12MP 30fps@8MP	30fps@6MP	30fps@6MP	25fps@5MP
Multi-streaming	3 streams	3 streams	3 streams	2 Streams
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, Heat Map
Dewarp Mode	Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures Edge dewarping	Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures Edge dewarping	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	Original, Panoramic, Double Panoramic, 1+3, E-PTZ, 4 Pictures Edge dewarping
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	Built-in Mic
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/2	2/2	2/2	–
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK08
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V, PoE (802.3af), Max <12W	DC12V, PoE (802.3af), Max <12W	DC12V, PoE (802.3af), Max <12W	DC12V, 1A PoE (802.3af Class 0), Max < 3.4 W

Case Study:
Toledo Cathedral
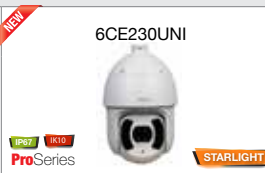
Toledo Cathedral is one of three 13th century High Gothic cathedrals in Spain. Dahua ensured the security of this landmark and the safety of ongoing maintenance operations by providing the cathedral with an integrated system featuring 5MP IP cameras and 2MP HDCVI cameras as well as advanced magnetic, heat, intruder, and fire detection features.

Model	Multi-Sensor Cameras				PTZ Cameras	
	DH-PSD81602N-A360	DH-IPC-PFW8800N-A180	DH-IPC-PFW8601N-H-A180	DH-IPC-PDBW8800N-A180	6AE830VNI	6AE530UNI
Image Sensor	Panoramic: 1/1.9" 2MP CMOS per Sensor (8 sensors total) PTZ: 1/1.9" 2MP CMOS	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/2.8" 2MP CMOS per Sensor (3 sensors total)	1/2.8" 2MP CMOS per Sensor (4 sensors total)	1/1.7" 4K (8MP) CMOS	1/1.9" 5MP CMOS
Lens	Panoramic: 5mm/F2.2, Manual PTZ: 5.5mm - 206mm/F1.5, Motorized	3.0mm/F2.0, Manual	3.6mm/F1.8, Manual	3.0mm/F2.0, Manual	6mm - 180mm (30x Optical Zoom)	6mm - 180mm (30x Optical Zoom)
Horizontal Field of View	Panoramic: 360° PTZ: 65.8° to 2.0°	180°	180°	180°	61.2° – 2.1°	61.2° – 2.1°
Minimum Illumination	Panoramic: 0.002 lux/F2.2 (Color) PTZ: 0.002 lux/F1.5 (Color)	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)	Color: 0.007 lux/F1.8 0 lux/F1.8 (IR on)	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)	Color: 0.05 lux/F1.6 B/W: 0 lux/F1.6 0 lux (IR on)	Color: 0.01 lux/F1.5 B/W: 0 lux/F1.5 0 lux (IR on)
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide Dynamic Range (WDR)	120dB	DWDR	120dB	DWDR	DWDR	DWDR
Maximum IR Distance	–	98ft (30m)	98ft (30m)	98ft (30m)	656ft (200m)	656ft (200m)
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	H.265, H.264
Maximum Resolution	Panoramic: 2 x 4096 x 1800 PTZ: 1080p (1920 x 1080)	2MP per Sensor (4 sensors total)	2MP per Sensor (3 sensors total)	2MP per Sensor (4 sensors total)	3840 (H) x 2160 (V), 4K (8MP)	2560 (H) x 1920 (V), 5MP
Frame Rate	Panoramic: 30fps@2 x 4096 x 1800 PTZ: 30fps@1080p	25fps@4096 x 1800 total output	30fps@4096 x 832 total output	25fps@4096 x 1800 total output	30fps@4K (8MP)	30fps@5MP 60fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	Pan: 0° to 360°, endless Tilt: -20° to 90° Auto flip: 180°	Pan: 0° to 360° Tilt:0° to 90° Rotation: 0° to 360°	Pan: 0° to 360° Tilt:0° to 90° Rotation: 0° to 360°	Pan: 0° to 355° Tilt:0° to 75° Rotation: ± 20°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°
Preset Speed	Pan: 0.1° /s to 240° /s Tilt: 0.1° /s to 120° /s	–	–	–	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map, E-PTZ	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, Heat Map, Auto-tracking
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF Profile S&G, PSIA, CGI	ONVIF Profile S&G, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	2/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	7/2	2/2	1/1	2/2	7/2	7/2
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), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 140°F (-40°C to 60°C), Built-in Heater	-40°F to 158°F (-30°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Power	DC36V < 120W	AC24V, PoE+ (802.3at), Max 25.5W	AC24V, PoE+ (802.3at), Max 24W	AC24V, PoE + (802.3at), < 25.5W	AC24V, Hi-PoE, 24W, 38W with IR on	AC24V/3A (±25%), Hi-PoE 24W, 38W with IR on

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	PTZ Cameras					
Model	6AE240VNI	DH-SD6ALA230FN-HNI	DH-SD6AEA230FN-HNI	59430UNI	59230UNI	49225TNI
Image Sensor	1/2.8" 2MP CMOS	1/1.9" 2MP CMOS	1/1.9" 2MP CMOS	1/3" 4MP CMOS	1.28" 2MP CMOS	1/2.8" 2MP CMOS
Lens	4.5mm - 180mm (40x Optical Zoom)	6mm - 180mm (30x Optical Zoom)	6mm - 180mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.8mm - 120mm (25x Optical Zoom)
Horizontal Field of View	67.5° – 1.7°	61.2° – 2.1°	61.2° – 2.1°	60° – 2.2°	67.8° – 2.4°	59.2° – 2.4°
Minimum Illumination	Color: 0.005 lux/F1.2 0 lux/F1.2 (IR on)	Color: 0.002 lux/F1.5 0 lux/F1.5 (IR on)	Color: 0.002 lux/F1.5 0 lux/F1.5 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Wide Dynamic Range (WDR)	Ultra WDR (140dB)	120dB	120dB	120dB	120dB	120dB
Maximum IR Distance	656ft (200m)	1,640ft (500m)	656ft (200m)	328ft (100m)	492ft (150m)	328ft (100m)
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	H.264, MJPEG	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
Maximum Resolution	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4MP	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p
Frame Rate	60fps@1080p	30fps@1080p 60fps@720p	30fps@1080p 60fps@720p	30fps@ 4MP, 3MP or 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: -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°
Preset Speed	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 400° /s; Tilt: 300° /s	Pan: 240° /s; Tilt: 200° /s
Intelligent Video	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, Heat Map, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, Auto-tracking	Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Face Detection, 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, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	7/2	7/2	7/2	2/1	2/1	2/1
Environmental Protection	IP67, IK10	IP67	IP67, IK10	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 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)	-40°F to 158°F (-40°C to 70°C)
Power	AC24V, 3 A (± 25%), Hi-PoE 24W, 38W with IR on	AC24V/3A (±25%), Hi-PoE Max 24W, 38W (IR ON)	AC24V/3A (±25%), Hi-PoE Max 24W, 38W (IR ON)	AC24V, PoE+ (802.3at) 13W, 23W with IR on	AC24V, PoE+ (802.3at) 13W, 23W with IR on	DC12V, PoE+ (802.3at) 13W, 20W with IR on

Model	PTZ Cameras					
	DH-SD40A212TN-HNI	6C430UNI	50430UNI	50230UNI-A	42212TNI	52C430UNI
Image Sensor	1/2.7" 2MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS
Lens	5.1mm - 61.2mm (12x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	5.3mm - 64mm (12x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)
Horizontal Field of View	59.3° – 5.2°	60° – 2.2°	60° – 2.2°	67.8° – 2.4°	58.2° – 4.8°	60° – 2.2°
Minimum Illumination	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Wide Dynamic Range (WDR)	120dB	120dB	120dB	120dB	120dB	120dB
Maximum IR Distance	–	328ft (100m)	–	–	–	–
Video Compression	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	H.265, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264
Maximum Resolution	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4MP	2592 (H) x 1520 (V), 4MP	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	2592 (H) x 1520 (V), 4MP
Frame Rate	30fp@1080p 60fps@720p	30fps@4MP, 3MP or 60fps@1080p, 1.3MP, 720p	30fps@4MP, 3MP or 60fps@1080p, 1.3MP, 720p	60fps@1080p 60fps@720p	30fps@1080p	30fps@4MP 60fps@1080p
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 360° endless; Tilt: -2° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -15° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Endless, Tilt: -2° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° Endless, Tilt: 0° – 90°, Auto Flip 180°
Preset Speed	Pan: 300°/s; Tilt:200°/s	Pan: 240° /s; Tilt: 200° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 300°/s; Tilt: 200°/s	Pan: 500° /s; Tilt: 500° /s
Intelligent Video	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Heat Map, Auto-tracking	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Heat Map, Auto-tracking
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1
Environmental Protection	IP66, IK10	IP66	IP67, IK10	IP67, IK10	IP66, IK10	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) 12W, 22W with heater on	AC24V, 3A (±10%) 10.5W, 26W with IR on	AC24V, PoE+ (802.3at) 13W, 23W with heater on	AC24V (± 10%), PoE+ (802.3at) 13W, 23W with heater on	AC24V, 1.5A, PoE+ (802.3at) 12W	AC24V, 1.5A (±10%), PoE+ (802.3at) 13W

Model	PTZ Cameras		
	52C230UNI-A	**6CE230UNI**	**DH-SD22A204TN-GNI-W**
	IK10 ProSeries STARLIGHT	IP67 IK10 ProSeries STARLIGHT	IP66 IK10 LiteSeries
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS
Lens	4.5mm - 135mm (30x Optical Zoom)	4.5mm - 135mm (30x Optical Zoom)	2.7mm - 11mm (4x Optical Zoom)
Horizontal Field of View	67.8° – 2.4°	67.8° – 2.4°	112.5° – 30°
Minimum Illumination	Starlight Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Wide Dynamic Range (WDR)	120dB	120dB	120dB
Maximum IR Distance	–	656ft (200m)	–
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.265+, H.265, Smart H.264+, H.264	Smart H.264+, H.264, MJPEG
Maximum Resolution	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p	1920 (H) x 1080 (V), 1080p
Frame Rate	60fps@1080p 60fps@720p	60fps@1080p	30fps@1080p
Multi-streaming	3 streams	3 Streams	3 streams
Pan/Tilt/Zoom	300 Presets, Pan: 0° – 360° Endless, Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -20° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 355°; Tilt: 0° – 90°
Preset Speed	Pan: 500° /s; Tilt: 500° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 100° /s; Tilt: 60° /s
Intelligent Video	Tripwire, Intrusion, Abandoned Object Detection, Missing Object Detection, Face Detection, Heat Map, 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
Compatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	
Memory Slot	Micro SD, Max 128GB	Micro SD, Max 128GB	Micro SD, Max 128GB
Alarm In/Out	2/1	7/2	–
Environmental Protection	IK10	IP67, IK10	IP66, IK10
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40°F to 158°F (-40°C to 70°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V, 1.5A (±10%), PoE+ (802.3at) 13W	AC24V, 3 A (± 25%), PoE+ (802.3at) 17W, 26W with IR/heater on	DC12V, 1.5A Max 10W

Case Study:
Compton School Police Department

Headquartered in a designated facility, the Compton Unified School District (USD) Police Department is committed to providing a safe and secure educational environment for students, staff, and parents.

A total Dahua solution that includes 20 Pro Series 4MP WDR fixed lens WiFi cameras, a 32-channel NVR, three smart switches, one surveillance management center, two 2.4 and 5.6GHz indoor access points, and four 5.6GHz wireless video transmission devices created a locked wireless connection.

Model	Network Video Recorders					
	DHI-NVR7A24DR-256	DHI-NVR6A16DR-128-4KS2	DHI-NVR6A08-128-4KS2	DHI-NVR6A08-64-4KS2	DHI-NVR6A08-32-4KS2	N54A4P
	UltraSeries	**Ultra**Series	**Ultra**Series	**Ultra**Series	**Ultra**Series	**Pro**Series
Video Compression	H.264, MJPEG	H.265, 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, MJPEG, MPEG4
IP Video Inputs	256 CH	128 CH	128 CH	64 CH	32 CH	24 CH
Max Input/Record	512Mbps / 512Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	384Mbps / 384Mbps	320Mbps / 320Mbps
Display	2 HDMI, 1 VGA, 1 LCD	2 HDMI, 1 VGA, 1 LCD	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA
Max HDD	24 HDD Up to 192TB	16 HDD Up to 128TB	8 HDD Up to 64TB	8 HDD Up to 64TB	8 HDD Up to 64TB	4 HDD Up to 40TB
RAID	0/1/5/10/50/60	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/-	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/4	16/8	16/8	16/8	16/8	16/6
Ethernet	4 Gigabit Ports	4 Gigabit Ports, 2 Gigabit Fiber Optical Interfaces	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port
PoE	—	—	—	—	—	24 Ports (IEEE802.3at/af) 210W
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	2 USB 3.0, 1 USB 2.0
Power	AC 100V-240V, Redundant, < 200W (without HDD)	AC100V-240V, Redundant, < 60W (without HDD)	AC100V-240V < 20W (without HDD)	AC100V-240V < 20W (without HDD)	AC100V-240V < 20W (without HDD)	AC100V-240V, 50/60 Hz <18W (without HDD)
Key Features	IVS, Fisheye, N+M	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, ANPR (Optional), N+M	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, ANPR (Optional), N+M	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, ANPR (Optional), N+M	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, ANPR (Optional), N+M	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, ANPR (Optional), N+M, Plug and Pay

	Network Video Recorders					
Model	N52A4P	DHI-NVR58A32-4KS2	DHI-NVR58A16-16P-4KS2	DHI-NVR54A16-16P-4KS2	DHI-NVR52A16-16P-4KS2	N52B3P
	ProSeries	ProSeries	ProSeries	ProSeries	ProSeries	ProSeries ePoE
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
IP Video Inputs	24CH	32CH	16CH	16CH	16CH	16CH
Max Input/Record	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps	320Mbps / 320Mbps
Display	1 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	2 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	2 HDD Up to 20TB	8 HDD Up to 80TB	8 HDD Up to 80TB	4 HDD Up to 40TB	4 HDD Up to 40TB	2 HDD x Up to 20TB
RAID	–	–	–	–	–	–
eSATA/Mini SAS	–	1/–	1/–	1/–	–	–
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	16/6	16/6	16/6	4/2	4/2
Ethernet	1 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	24 Ports (IEEE802.3at) 210 W total	–	16 Ports (IEEE802.3at) 150 W total	16 Ports (IEEE802.3at) 150 W total	16 Ports (IEEE802.3at) 130 W total	16 Ports (IEEE802.3af/at), 150W total Ports 1 to 8 for ePoE and EoC
USB	1 USB 3.0, 1 USB 2.0	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0	2 USB 3.0, 2 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0
Power	AC100V-240V, 50/60 Hz <16W (without HDD)	AC100V-240V <16.7W (without HDD)	AC100V-240V <17.5W (without HDD)	AC100V-240V <17.5W (without HDD)	AC100V-240V < 15.2 W (without HDD)	AC100V - AC240V, 50/60 Hz <15.2W (without HDD)
Key Features	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, Smart Track, POS, ANPR, N+M, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M, Plug and Play

	Network Video Recorders					
Model	N54B3P	DHI-NVR52A08-8P-4KS2	N42B3P	N42B2P	N42B1P	DHI-NVR41A04HS-W-S2
	ProSeries (ePoE)	**Pro**Series	**Lite**Series	**Lite**Series	**Lite**Series	**Lite**Series
Video Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG, MPEG4	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.265, H.264, MJPEG	H.264, MJPEG
IP Video Inputs	16CH	8CH	16CH	8CH	4CH	4CH
Max Input/Record	320Mbps / 320Mbps	320Mbps / 320Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	200Mbps / 200Mbps	80Mbps / 80Mbps
Display	2 HDMI, 2 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	4 HDD x Up to 40TB	2 HDD Up to 20TB	2 HDD Up to 16TB	2 HDD Up to 16TB	2 HDD Up to 16TB	2 HDD Up to 16TB
RAID	–	–	–	–	–	–
eSATA/Mini SAS	Supports 1 eSATA HDD	–	–	–	–	–
Audio In/Out	1/2, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/6	4/2	4/2	4/2	4/2	–
Ethernet	1 Gigabit Port	1 Gigabit Port	1Gigabit Port	1 Gigabit Port	1 Gigabit Port	Supports three-antennas for a strengthened WiFi signal
PoE	16 Ports (IEEE802.3af/at), 130W total Ports 1 to 8 for ePoE and EoC	8 Ports (IEEE802.3at) 130 W total	16 Ports (IEEE802.3at) 130 W total	8 Ports (IEEE802.3at) 130 W total	4 Ports (IEEE802.3at) 50 W total	–
USB	2 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	1 USB 3.0, 1 USB 2.0	2 USB 2.0
Power	AC100V - AC240V, 50/60 Hz <17.5W (without HDD)	AC100V-240V < 14.5 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 10W (without HDD)
Key Features	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Fisheye Dewarp, POS, ANPR, N+M, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Plug and Play	IVS, Face Detection, People Counting, Heat Map, Plug and Play	Plug and Play, P2P

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Model	A83AA9	A83ABBZ	A42AB22/A42AB23	DH-HAC-HFW32A1EN-Z	A21BB02/A21BB03	DH-HAC-HFW22A1EN
Image Sensor	4/3" 4K (8MP) CMOS	1/2" 4K (8MP) CMOS	1/3" 4.1MP CMOS	1/2.8" 2MP CMOS	1/2.9" 2MP CMOS	1/2.7" 2MP CMOS
Minimum Illumination	Color: 0.001 lux/F1.2 (1/3s, 30IRE) Color: 0.0005 lux/F0.95 (1/3s, 30IRE)	Color: 0.0012 lux/F1.5 0 lux (IR on)	Color: 0.03 lux/F1.5 0 lux (IR on)	Color: 0.005 lux/F1.4 0 lux (IR on)	Color: 0.01 lux/F2.0 0 lux (IR on)	Color: 0.03 lux/F2.0 0 lux (IR on)
Lens	Sold Separately	3.7mm – 11mm, Motorized, Auto Iris	2.8mm (A42AB22) / 3.6mm (A42AB23)	2.7mm – 12mm, Motorized, Auto Iris	2.8mm (A21BB02) / 3.6mm (A21BB03)	3.6mm / 6mm / 8mm
Horizontal Field of View	–	112° - 46°	78°	95° – 36°	51.2° / 82.8°	90° / 59.4° / 41.4°
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)	131ft (40m)	328ft (100m)	131ft (40m)	131ft (40m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	140dB	120dB	120dB	120dB	DWDR	120dB
Noise Reduction	2D/3D	2D/3D	2D/3D	2D/3D	2D	2D/3D
Frame Rate	15fps@4K (8MP)	15fps@4K (8MP)	25fps@4MP 30fps@1080p 30fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p	30fps@1080p 30/60fps@720p
Video Output	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	One (1) HDCVI 4K (8MP) Channel and One (1) CVBS Channel	HD/SD Dual-output	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD Dual-output
Audio In/Out	Built-in Mic	1 Input	–	1 Input	–	–
Alarm In/Out	–	2/1	–	1/1	–	–
Pan/Tilt/Rotation	–	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°
Environmental Protection	–	IP67, IK10	IP67	IP67, IK10	IP67	IP67
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40°F to 140°F (-40°C to 60°C)	-22°F to 140°F (-30°C to 60°C)
Power	AC24V (±25%), DC12V (±25%) Max 9W	AC24V (±25%), DC12V (±25%) Max 7W	DC12V (±25%) Max 5.9W	AC24V (±25%), DC12V (±25%) Max 16.6W	DC12V (±25%) Max 4.6W (DC12V with IR on)	DC12V (±25%) Max 5.5W

Model	HDCVI Cameras					
	A21BCOV IP67 LiteSeries	A83ALBZ NEW IP67 IK10 UltraSeries	A42AM2Z / A42AM2Z-B IP67 IK10 ProSeries	A42AL22/A42AL23 IP67 IK10 ProSeries	A22AM9Z IP67 IK10 ProSeries STARLIGHT	DH-HAC-HDBW32A1EN-Z IP67 IK10 UltraSeries STARLIGHT
Image Sensor	1/2.9" 2MP CMOS	1/2" 4K (8MP) CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Minimum Illumination	Color 0.02 lux/F1.3 0 lux (IR on)	Color: 0.01 lux at F1.5 0 lux with IR on	Color: 0.01 lux/F1.3 0 lux (IR on)	Color: 0.03 lux/F1.5 0 lux (IR on)	Color: 0.005 lux/F1.3 0 lux (IR On)	Color: 0.005 lux/F1.4 0 lux (IR on)
Lens	2.7 to 13.5mm, Vari-focal	3.7 - 11 mm, Motorized	2.7mm – 13.5mm, Motorized	2.8mm (A42AL22) / 3.6mm (A42AL23)	2.7 - 13.5 mm, Motorized	2.7mm – 12mm, Motorized, Auto Iris
Horizontal Field of View	96° - 33°	46° - 112°	98° – 26°	79°	102° to 29°	95° – 36°
Day/Night	True Day Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	197ft (60m)	164ft (50m)	98ft (30m)	98ft (30m)	98ft (30m)	164ft (50m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	DWDR	120dB	120dB	120dB	120 dB	120dB
Noise Reduction	2D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080p 60fps@720p	3840 x 2160@15 fps 1280 × 720@30 fps	25fps@4MP 30fps@1080p 30fps@720p	25fps@4MP	30fps@1080p	30fps@1080p 30/60fps@720p
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) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel	HD/SD Dual-output	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD Dual-output, SD Tester-out
Audio In/Out	–	1 Channel In	–	–	–	1 Channel in
Alarm In/Out	–	2/1	–	–	–	1/1
Pan/Tilt/Rotation	Pan: 0° - 360° Tilt: 0° - 87° 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° – 65° Rotation: 0° – 355°	Pan: 0° to 355° Tilt: 0° to 75° Rotation: 0° to 355°	Pan: 0° – 355° Tilt: 0° – 85° Rotation: 0° – 355°
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) Integrated Heater	-40° F to +140° F (-40° C to +60° C)	-22° F to 140°F (-30°C to 60°C)	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C)	-22°F to 140°F (-30°C to 60°C)
Power	DC12V ±25% Max 7.7W	AC24V (±25%) DC12V (±25%) Max 12.4 W	AC24V (±25%), DC12V (±25%) Max 10.1W	DC12V (±25%) Max 4.8W	DC12V (±25%) AC24V (±25%) Max 8W (at DC12V with IR on)	AC24V (±25%) DC12V (±25%) Max 12.5W

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Model	HDCVI Cameras					
	A21BMOV	**DH-HAC-HDBW22A1EN**	**A21BL02/A21BL03**	**A42AC2Z**	**A42AC2Z-B**	**A22AC9Z**
	IP67 IK10 LiteSeries	IP67 IK10 ProSeries	IP67 IK10 LiteSeries	IP67 ProSeries	IP67 ProSeries	IP67 ProSeries STARLIGHT
Image Sensor	1/2.9" 2MP CMOS	1/2.7" 2.1MP CMOS	1/2.9" 2MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS
Minimum Illumination	Color 0.02 lux/F1.3 0 lux (IR on)	Color: 0.03 lux/F2.0 0 lux (IR on)	Color: 0.02 lux/F2.0 0 lux (IR on)	Color: 0.03 lux/F1.8 0 lux (IR on)	Color: 0.03 lux/F1.8 0 lux (IR on)	Color: 0.005 lux/F1.3 0 lux (IR On)
Lens	2.7 to 13.5mm, Vari-focal	2.8mm / 3.6mm / 6mm	2.8mm (A21BL02) / 3.6mm (A21BL03)	2.7mm – 13.5mm, Motorized	2.7mm – 13.5mm, Motorized	2.7mm - 13.5mm, Motorized
Horizontal Field of View	104° - 28°	115.6° / 90° / 59.4°	106° / 82.8°	98° – 26°	98° – 26°	99° to 29°
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)	197ft (60m)	197ft (60m)	197ft (60m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	DWDR	120dB	DWDR	120dB	120dB	120dB
Noise Reduction	2D	2D/3D	2D	2D/3D	2D/3D	2D/3D
Frame Rate	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p	30fps@4MP 30fps@1080p	30fps@4MP 30fps@1080p	30fps@1080p
Video Output	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD Dual-output, SD Tester-out	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD Dual-output	HD/SD Dual-output	HD Multi-analog Technology Requires PFM820 to switch between formats
Audio In/Out	–	–	–	–	–	–
Alarm In/Out	–	–	–	–	–	–
Pan/Tilt/Rotation	Pan: 0° - 355° Tilt: 0° - 75° Rotation: 0° - 355°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 355° Tilt: 0° – 65° Rotation: 0° – 355°	Pan: 0° – 360° Tilt: 0° – 87° Rotation: 0° – 360°	Pan: 0° – 360° Tilt: 0° – 87° Rotation: 0° – 360°	–
Environmental Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67	IP67	IP67
Working Temperature	-40°F to 140°F (-40°C to 60°C) Integrated Heater	-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 ±25% Max 3.4W (12VDC, IR On)	DC12V (±25%) Max 4.5W	DC12V (±25%) Max 2.6W (12 DC12V with IR on)	DC12V (±25%) Max 11.1W	DC12V (±25%) Max 11.1W	AC24V (±25%), DC12V (±25%) Max 14.1W (IR on)

	Eyeball HDCVI Cameras					PIR Camera
	A42AH2Z IP67 ProSeries	**A22AH9Z** IP67 ProSeries STARLIGHT	**A42AG22/A42AG23** IP67 ProSeries	**A21BHOV** IP67 LiteSeries	**A21BG02/A21BG03** IP67 LiteSeries	**DH-HAC-HUM1220AN-PIR** NEW LiteSeries
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.9" 2MP CMOS	1/2.9" 2MP CMOS	1/1.29" 2MP CMOS
Minimum Illumination	Color: 0.01 lux/F1.3 0 lux (IR on)	Color: 0.005 lux/F1.3 0 lux (IR On)	Color: 0.03 lux/F1.5 0 lux (IR on)	Color 0.02 lux/F1.3 0 lux (IR on)	Color: 0.02 lux/F2.0 0 lux (IR on)	Color: 0.02 lux/F2.0 B/W: 0.002 lux/F2.0
Lens	2.7mm – 13.5mm, Motorized	2.7mm - 13.5mm, Motorized	2.8mm (A42AG22) / 3.6mm (A42AG23)	2.7 to 13.5mm, Vari-focal	2.8mm (A21BG02) / 3.6mm (A21BG03)	2.8 mm, Fixed
Horizontal Field of View	98° – 26°	99° to 29°	78°	104° - 28°	106° / 82.8°	100.5°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day Night	True Day/Night	Electronic Day/Night
Maximum IR Distance	197ft (60m)	197ft (60m)	164ft (50m)	98ft (30m)	164ft (50m)	–
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	120dB	120 dB	120dB	DWDR	DWDR	DWDR
Noise Reduction	2D/3D	2D/3D	2D/3D	2D	2D	2D
Frame Rate	25fps@4MP 30fps@1080p 30fps@720p	30fps@1080p	25fps@4MP	30fps@1080p 60fps@720p	30fps@1080p	30fps@1080p
Video Output	One (1) BNC HDCVI High-definition Channel and One (1) BNC CVBS Channel	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD Dual-output	HD Multi-analog Technology Requires PFM820 to switch between formats	HD Multi-analog Technology Requires PFM820 to switch between formats	HD/SD, switchable
Audio In/Out	–	–	–	–	–	–
Alarm In/Out	–	–	–	–	–	–
Pan/Tilt/Rotation	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° - 360° Tilt: 0° – 78° Rotation: 0° - 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° - 360° Tilt: 0° - 90° Rotation: 0° - 360°	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	–
Environmental Protection	IP67	IP67	IP67	IP67	IP67	–
Working Temperature	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C)	-22°F to 140°F (-30°C to 60°C)	-40° F to +140° F (-40° C to +60° C) Integrated Heater	-40°F to 140°F (-40°C to 60°C)	14° F to +122° F (-10° C to +50° C)
Power	AC24V (±25%), DC12V (±25%) Max 11.6W	AC24V (±25%), DC12V (±25%) Max 13W	DC12V (±25%) Max 5.5W	DC12V ±25% Max 4.2W	DC12V (±25%) Max 2.9W	DC12V ± 25%, 0.7 W

	Fixed Mini-Bullet Cameras		HDCVI Fisheye Cameras		Multi-Sensor HDCVI Camera	HDCVI PTZ Cameras
	HAC-HUM1220GN-B-USA	DH-HAC-HUM1220G-USA	A83AR6	A42AR2	DH-HAC-PFW3601	6C430IC
	IP67 LiteSeries	IP67 LiteSeries	IP67 IK10 UltraSeries 4K	IK10 ProSeries	IP67 IK10 UltraSeries STARLIGHT	IP66 UltraSeries
Image Sensor	1/1.29" 2MP CMOS	1/1.29" 2MP CMOS	1/2" 4K (8MP) CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS per sensor (3 sensors total)	1/3" 4MP CMOS
Minimum Illumination	Color: 0.02 lux/F2.0 B/W: 0.002 lux/F2.1	Color: 0.02 lux/F2.0 B/W: 0.002 lux/F2.1	Color: 0.01 lux/F2.0 0 lux/F2.0 (IR on)	Color: 0.01 lux/F2.0 B/W: 0.001 lux/F2.0	Color: 0.005 lux/F1.8 0 lux/F1.8 (IR on)	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)
Lens	2.1 mm, Fixed	2.1 mm, Fixed	2.25mm, Fixed	1.18mm, Fixed	3.6mm, Fixed	4.5mm - 135mm, Motorized (30x Optical Zoom)
Horizontal Field of View	109.4°	109.4°	180°⁺	180°	180°	60° - 2.2°
Day/Night	Electronic Day/Night	Electronic Day/Night	True Day/Night	Electronic Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	–	–	49ft (15m)	—	66ft (20m)	328ft (100m)
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	DWDR	DWDR	120dB	120dB	120dB	120dB
Noise Reduction	2D	2D	2D/3D	2D/3D	2D/3D	Ultra DNR (2D/3D)
Frame Rate	30fps@1080p	30fps@1080p	15fps@3840 x 2160	30fps@4MP	15fps@4096×832 30fps@2560x520	30fps@4MP/1080p 30/60fps@720p
Video Output	HD/SD, switchable	HD/SD, switchable	One (1) BNC HDCVI 4K (8MP)Channel and One (1) BNC CVBS Channel	One (1) BNC HDCVI High-definition Channel and One (1) BNC CVBS Channel (switchable)	One (1) BNC HDCVI Panoramic Output Channel and Three (3) BNC 2MP HDCVI Channels	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)
Pan/Tilt/Zoom	–	–	–	–	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°	Pan: 0° – 360°, endless; Tilt: -15° – 90°; Autoflip 180°
Preset Speed	–	–	–	–	–	Pan: 240° /s; Tilt: 200° /s
Audio In/Out	–	–	Built-in Mic	–	1 Channel In	1 Channel In
Alarm In/Out	–	–	2/1	–	2/1	2/1
Pan/Tilt/Rotation	–	–	–	–	–	–
Environmental Protection	IP67	IP67	IP67, IK10	IK10	IP67, IK10	IP66
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)	-40°F to 140°F (-40°C to 60°C)
Power	DC12V ± 25%, 0.6 W	DC12V ± 25%, 0.6 W	DC12V (±25%), AC24V (±25%) Max 7.4W (IR on)	DC12V (±25%) Max 2.2W	DC12V (±25%) Max 22W	AC24V, 3A (±10%) 13W, 23W (IR on)

	HDCVI PTZ Cameras					
Model	59430IC	50430IC	52C430IC	DH-SD59A230IN-HC-S2	50230IC	59230IC
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Minimum Illumination	Color: 0.05 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.05 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6	Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)
Lens	4.5mm - 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)	4.5mm – 135mm, Motorized (30x Optical Zoom)
Horizontal Field of View	60° - 2.2°	60° – 2.2°	60° – 2.2°	67.8° – 2.4°	67.8° to 2.4°	67.8° to 2.4°
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)	-	492ft (150m)
OSD Menu	Multi-language	Multi-language	Multi-language	Support	Multi-language	Multi-language
Wide Dynamic Range (WDR)	120dB	120dB	120dB	120dB	True WDR (120dB)	True WDR (120dB)
Noise Reduction	Ultra DNR (2D/3D)	Ultra DNR (2D/3D)	Ultra DNR (2D/3D)	2D/3D	Ultra DNR	Ultra DNR
Frame Rate	30fps@4MP or 1080p 30/60fps@720p	30fps@4MP/1080p 30/60fps@720p	30fps@4MP/1080p 30/60fps@720p	30fps@1080p 30/60fps@720p	30fps@1080p	30fps@1080p
Video Output	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	HD/SD 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)
Pan/Tilt/Zoom	Pan: 0° – 360°, endless; Tilt: -15° – 90°; Autoflip 180°	Pan: 0° – 360° Endless; Tilt: 0° – 90°, Auto Flip 180°	Pan: 0° – 360° Endless; Tilt: 0° – 90°, Auto Flip 180°	300 Presets, Pan: 0° – 360° endless; Tilt: -15° – 90°, Auto Flip 180°	Pan: 0° to 360° endless Tilt: 0° to 90° Auto flip 180°	Pan: 0° to 360° endless; Tilt: –15° to 90° Auto flip 180°
Preset Speed	Pan: 400° /s; Tilt: 300° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 400°/s; Tilt: 300° /s	Pan: 500° /s; Tilt: 500° /s	Pan: 400° /s Tilt: 300° /s
Audio In/Out	1 Channel In	1 Channel In	1 Channel In	1 Channel In	1 Channel In	1 Channel In
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1
Environmental Protection	IP66	IP67, IK10	IK10	IP66	IP67, IK10	IP66
Working Temperature	-40°F to 158°F (-40°C to 70°C)	-40°F to 140°F (-40°C to 60°C) Integrated Heater	-22°F to 140°F (-30°C to 60°C)	-40°F to 158°F (-40°C to 70°C) Integrated Heater	-40°F to 140°F (-40°C to 60°C)	-40°F to 158°F (-40°C to 70°C)
Power	AC24V, 3A (±10%) 13W, 23W (IR on)	AC24V, 1.5A (±10%) 13 W, 23 W (Heater on)	AC24V, 1.5A (±10%) 13 W	AC24V, 3A (±10%) Max 13W, 25W (IR on)	AC24V Max 23 W	AC24V Max 23 W

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Model	**HDCVI PTZ Cameras**			
	6C230IC	40212IC	49225IC	DH-SD22A204IN-GC
	IP66 ProSeries STARLIGHT	IP67 IK10 ProSeries STARLIGHT	IP66 LiteSeries STARLIGHT	IP66 IK10 LiteSeries
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" STARVIS™ CMOS Sensor	1/2.7" 2MP CMOS
Minimum Illumination	Color: 0.005 lux/F1.6 0 lux/F1.6 (IR on)	Color: 0.005 lux/F1.6 B/W: 0.0005 lux/F1.6	Color: 0.005 lux at F1.6 0 lux (IR on)	Color: 0.05 lux/F1.6 B/W: 0.005 lux/F1.6
Lens	4.5mm – 135mm, Motorized (30x Optical Zoom)	5.3mm – 64mm, Motorized (12x Optical Zoom)	4.8mm – 120mm, Motorized (25x Optical Zoom)	2.7mm – 11mm, Motorized (4x Optical Zoom)
Horizontal Field of View	67.8° to 2.4°	58.4° to 4.9°	59.2° to 2.4°	112.5° – 39°
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Maximum IR Distance	492ft (150m)	-	328ft (100m)	—
OSD Menu	Multi-language	Multi-language	Multi-language	Multi-language
Wide Dynamic Range (WDR)	True WDR (120dB)	True WDR (120dB)	120 dB	120 dB
Noise Reduction	Ultra DNR	Ultra DNR	Ultra DNR (2D/3D)	2D/3D
Frame Rate	30fps@1080p	30fps@1080p	30fps@1080p 60fps@720p	30fps@1080p 30/60fps@720p
Video Output	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TV≠I) 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)	One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS Channel (switchable)	HD/SD Switchable
Pan/Tilt/Zoom	Pan: 0° to 360° endless; Tilt: –15° to 90° Auto flip 180°	Pan: 0° to 360° endless Tilt: –2° to 90° Auto flip 180°	Pan: 0° – 360° Endless; Tilt: -15° – 90° Auto Flip 180°	300 Presets, Pan: 0° – 355° Tilt: 0° – 90°
Preset Speed	Pan: 240° /s Tilt: 200° /s	Pan: 300° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 100°/s; Tilt: 60° /s
Audio In/Out	1 Channel In	1 Channel In	1 Channel In	-
Alarm In/Out	2/1	2/1	2/1	-
Environmental Protection	IP66	IP66, IK10	IP66	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 158°F (-40°C to 70°C) Integrated Heater	-22°F to 140°F (-30°C to 60°C)
Power	AC24V Max 23 W	AC24V Max 19 W	DC12V, 3A Max 20W (IR on)	DC12V Max 10W

Case Study: G20 Hangzhou Summit

As a core provider for G20 security, Dahua provided over 20,000 sets of equipment, a 600 person security team, and dozens of advanced technologies in core and surrounding areas with around-the-clock uninterrupted surveillance in order to guarantee absolute security for the summit.

	HDCVI Digital Video Recorders					
Model	X38A3S	X58A3S	X28A5S	X24A5L/X24A3L	X32A1A / X32A2A / X32A3A	X22A3N / X22A3A
	UltraSeries	**Ultra**Series	**Pro**Series	**Pro**Series	**Pro**Series	**Pro**Series
Video Compression	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG	Smart H.264+, H.264, MJPEG
Audio Compression	–	–	–	–	–	–
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	30fps@1080p 30fps@D1	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	15fps@1080p 30fps@1080N	15fps@1080p 30fps@1080N	30fps@1080p 30fps@D1	15fps@1080p 30fps@1080N
Analog Input	16CH	16CH	32CH	32CH / 16CH	4CH / 8CH / 16CH	16CH
IP Input	16+8CH Up to 5MP	Up to 64CH Up to 12MP	16+16CH Up to 5MP	16+16CH / 16+8CH Up to 5MP / Up to 5MP	4+2CH / 8+4CH / 16+8CH Up to 5 MB	16+8CH Up to 5 MB
Max Input/Record	96Mbps / 96Mbps	256Mbps / 384Mbps	128Mbps /128Mbps	128Mbps /128Mbps / 96/96Mbps	24Mbps / 24Mbps / 48Mbps / 48Mbps / 96Mbps / 96Mbps	96Mbps / 96Mbps
Audio In/Out	16/1, 2-way	16/1, 2-way	16/1, 2-way	16/1, 2-way / 4/1	4/1, 2-way	1/1 / 4/1
Maximum HDD	8 HDD x Up to 64TB	8 HDD Up to 64TB	8 HDD Up to 64TB	4 HDD Up to 32TB		2 HDD Up to 16TB
Display	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV	2 HDMI, 1 VGA, 1 TV	1 HDMI, 1 VGA	1 HDMI, 1 VGA
eSATA	1	1	1	1	–	–
USB	4 USB Ports (2 USB 2.0, 2 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)	4 USB Ports (2 USB 2.0, 2 USB 3.0)	3 USB Ports (1 USB 2.0, 2 USB 3.0)	2 USB 2.0 Ports / 1 USB 2.0, 1 USB 3.0	1 USB 2.0 Port, 1 USB 3.0 Port
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	16/6	16/6	8/3 / 8/3 / 16/3	– / 16/3
Ethernet	1 Gigabit Port	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 100Mbps Port / 1 Gigabit Port	1 Gigabit Port
Remote Login	128	128	128	128	128	128
Dimension	17.3in x 17.9in x 3.7in	17.3in x 17.9in x 3.7in	17.3in x 17.9in x 3.7in	17.3in x 16.4in × 3.0in	14.70in x 11.20in x 2.20in	14.70in x 11.20in x 2.20in
Power	AC100V-240V, 50/60Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <50W (Without HDD)	AC100V-240V, 50/60Hz <35W (Without HDD)	AC100V-240V, 50/60Hz <30W (Without HDD)	DC12V, 4A <15W (Without HDD) / DC12V, 5A <15W (Without HDD)	DC12V, 4A <15W (Without HDD)
Highlights	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output	Penta-brid, Dewarping, Plug&Play, P2P, 12MP Resolution, Smart Search, IVS, Spot \Output, Loop Out	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output	Penta-brid, Plug&Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output	Penta-brid, Plug & Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output	Penta-brid, Plug & Play, P2P, 5MP Resolution, Smart Search, IVS, Spot Output

Model	HDCVI Digital Video Recorders				
	C52A1N / C52A2N / C52A3N **Pro**Series			X21A1E / X21A2E / X21A3E **Lite**Series	
Video Compression	Smart H.264+, H.264, MJPEG			Smart H.264+, H.264, MJPEG	
Audio Compression	–			G.711	
Video Standard	HDCVI/CVBS (Auto-detect)			HDCVI/TVI/AHD/CVBS (Auto-detect)	
Maximum Record Rate	Analog CH 1: 15fps@4K or 15fps@4MP Other CH: 15fps@4MP or 30fps@1080P			15fps@1080p	
Analog Input	4CH	8CH	16CH	4+2CH / 8+4CH / 16+8CH	
IP Input	4+2CH Up to 8 MP	8+4CH Up to 8 MP	16+8CH Up to 8 MP	8+4CH Up to 5MP	
Max Input/Record	24Mbps / 24Mbps	48Mbps / 48Mbps	96Mbps / 96Mbps	24Mbps / 48Mbps / 96Mbps 24Mbps / 48Mbps / 96Mbps	
Audio In/Out	1/1, 2-Way			1/1	
Maximum HDD	2 HDD Up to 16TB			1 HDD Up to 8TB	
Display	1 HDMI (up to 3840 x 2160), 1 VGA			1 HDMI, 1 VGA	
eSATA	–			–	
USB	1 USB 2.0 Port, 1 USB 3.0 Port			2 USB 2.0	1 USB 3.0, 1 USB 2.0
External Storage	USB Device/Network			USB/SATA	
Alarm In/Out	–			8 / 8 / 16 Input	
Ethernet	1 Gigabit Port			100Mbps Port	1 Gigabit Port
Remote Login	128			128	
Dimension	14.80in x 11.20in x 2.20in			12.8in × 10.0in × 2.2in	
Power	DC12V, 4A, <15W (Without HDD)	DC12V, 5A <15W (Without HDD)		DC12V, 2A 10W (Without HDD)	
Highlights	Plug & Play, P2P, 4K Resolution, Smart Search, IVS, Spot Output			Smart Search, Face Detection, Tripwire Analytics, Spot Output, P2P, Plug & Play, Penta-brid	
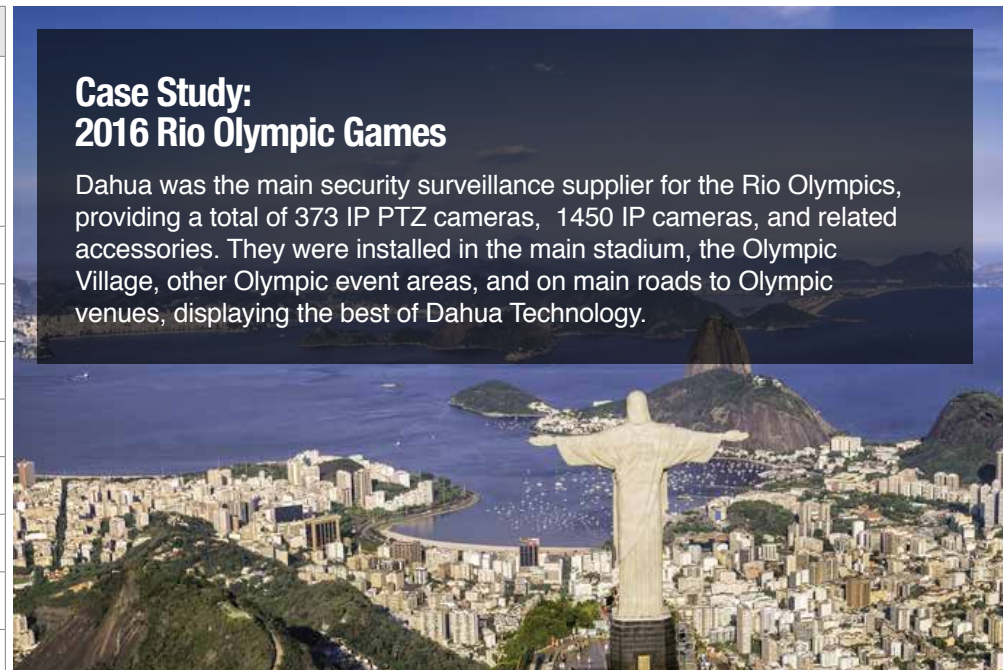
Case Study: 2016 Rio Olympic Games

Dahua was the main security surveillance supplier for the Rio Olympics, providing a total of 373 IP PTZ cameras, 1450 IP cameras, and related accessories. They were installed in the main stadium, the Olympic Village, other Olympic event areas, and on main roads to Olympic venues, displaying the best of Dahua Technology.
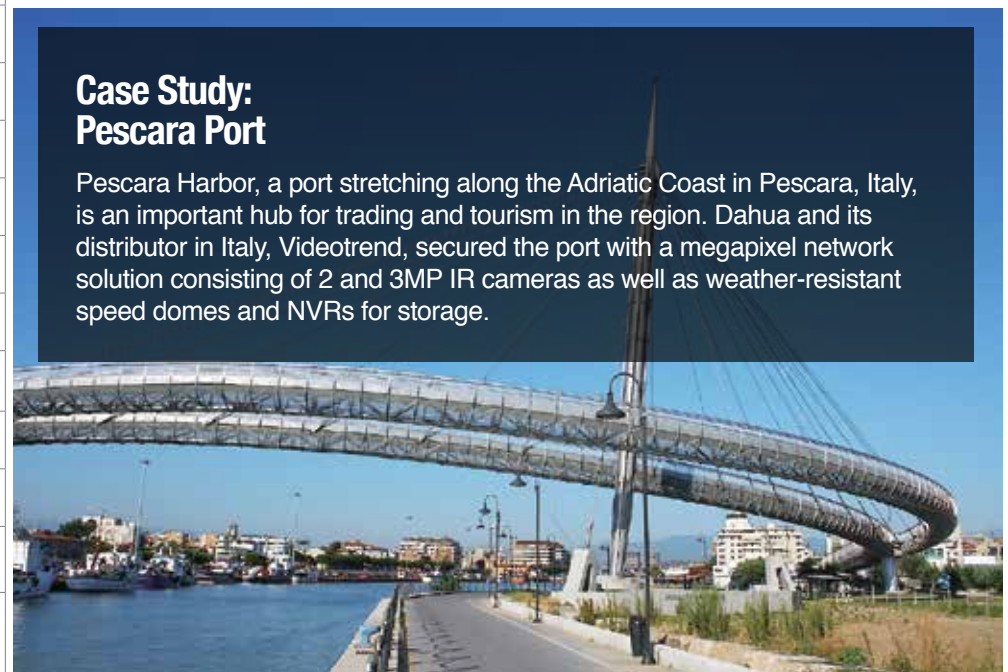
Case Study: Pescara Port

Pescara Harbor, a port stretching along the Adriatic Coast in Pescara, Italy, is an important hub for trading and tourism in the region. Dahua and its distributor in Italy, Videotrend, secured the port with a megapixel network solution consisting of 2 and 3MP IR cameras as well as weather-resistant speed domes and NVRs for storage.

Network IP 4K Cameras Accessories

PFB604W	PFB121W	PFB110W	PFB303W	PFB203W	PFB302S	PFB300C
Wall Mount Bracket	Wall Mount Bracket	Wall/Ceiling Mount Bracket	Waterproof Wall Mount Bracket	Waterproof Wall Mount Bracket	Wall Mount Bracket with Junction Box	Ceiling Mount Bracket
PFA151	**PFB201C**	**PFB204W**	**PFA111**	**PFA101**	**PFA121**	**DH-PFH610V**
Corner Mount	In-ceiling Mount Bracket	Waterproof Wall Mount Bracket	Mount Adapter	Mount Adapter	Junction Box	Vandal-proof Housing
PFA150	**PFA152-E**	**PFA139**	**PFA138**	**PFA136**	**PFB303S**	
Pole Mount Bracket	Pole Mount Bracket	Waterproof Junction Box	Waterproof Junction Box	Waterproof Junction Box	Parapet Mount Bracket	
PFM321	**PFM320**	**PFM113**	**DH-PFS3206-4P-120**			
12 VDC, 1 A Power Adapter	12 VDC, 2 A Power Adapter	128 GB Micro SD Card	4 Port Layer 2 PoE Switch			

- N84BB14
- N84BL44
- N84BG44
- DH-IPC-HF8835FN
- NK8BA4

- NK8BB7Z
- NK8BL7Z

- All IP cameras on this guide offer an SD Card Slot up to 128 GB

- Supports PoE/PoE+/Hi-PoE
- Unmanaged PoE Switch
- Two (2) 1000 Base-X
- One (1) 10/100/1000 Base-T (Hi-PoE / PoE+ / PoE)
- Three (3) 10/100 Base-T (PoE+ / PoE)

Network IP 4K Cameras Mounting Applications

MODEL	Wall Mount	Ceiling Mount	Pole Mount	Corner Mount	Parapet Mount	In-ceiling Mount
N84BB14	PFA121	N/A	PFA121 + PFA152-E	PFA121 + PFA151	N/A	N/A
NK8BB7Z	PFA121	N/A	PFA121 + PFA152-E	PFA121 + PFA151	N/A	N/A
N84BL44	PFB203W	PFA136	PFB203W + PFA152-E	N/A	N/A	N/A
NK8BL7Z	PFB302S	PFA101 + PFB300C or PFA138 (included)	PFA101 + PFB302S + PFA152-E	N/A	N/A	PFB201C
N84BG44	PFB204W	PFA139	PFB204W + PFA152-E	N/A	N/A	N/A
DH-IPC-HF8835FN	DH-PFH610V + PFB604W	PFB110W	PFB121W + PFA121 + PFA152-E	PFA121W + PFA121 + PFA151	N/A	N/A
NK8BA4	DH-PFH610V + PFB604W	PFB110W	PFB121W + PFA121 + PFA152-E	PFA121W + PFA121 + PFA151	N/A	N/A
6AE830VNI	PFA111 + PFB303W	PFA111 + PFB300C	PFA111 + PFB303W + PFA150	PFA111 + PFB303W + PFA151	PFA111 + PFB303S	N/A

Network IP PTZ Cameras Accessories						
PFA102	PFA110	PFA111	PFA114	64FB	PFB203W	PFB300S
Mount Adapter	Mount Adapter	Mount Adapter	Mount Adapter	Wall Mount	Wall Mount	Wall Mount
PFB302S	PFB303W	PFB305W	PFB300C	PFA150	PFA152-E	PFA151
Wall Mount	Wall Mount	Wall Mount	Ceiling Mount	Pole Mount	Pole Mount	Corner Mount
PFB303S	PFB200C	PFA137	PFA120	PFA140		
Parapet Mount	In-Ceiling Mount	Junction Box	Junction Box	Power Box		

Network IP PTZ Cameras Mounting Applications								
Model	Wall Mount	Ceiling Mount	Pole Mount	Corner Mount	Parapet Mount	In-ceiling Mount	Junction Box	Power Box
22204TNI	PFB203W	PFA137	PFB203W+PFA152-E	N/A	N/A	PFB200C	PFA137	N/A
42212TNI	PFA102+PFB302S	PFA102+PFB300C	PFA102+PFB302S+PFA150	PFA102+PFB302S+PFA151	N/A	N/A	N/A	N/A
42C212TNI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52C230UNI-A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52C430UNI	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40212TNI	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
49225TNI	PFB305W*	PFA111+PFB300C	PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
50230UNI-A	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
50430UNI	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
59230UNI	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
59430UNI	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
6AE830VNI	PFA110*+PFB300S*	PFA111+PFB300C	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
6AE530UNI	PFA110*+PFB300S*	PFA111+PFB300C	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
6AE240VNI	PFA110*+PFB300S*	PFA111+PFB300C	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
DH-SD6AEA230FN-HNI	PFA110*+PFB300S*	PFA111+PFB300C	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
6AL245UNI	PFA110*+PFB300S*	PFA111+PFB300C	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
DH-SD6ALA230FN-HNI	PFA110*+PFB300S*	PFA111+PFB300C	PFA111+PFB303W+PFA150	PFA111+PFB303W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
6CE230UNI	PFB305W*	PFA111+PFB300C	PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
6C430UNI	64FB*	PFA114+PFB300C	PFA114+PFB303W+PFA150	PFA114+PFB303W+PFA151	PFA114+PFB303S	N/A	PFA120	PFA140

* Mounting Accessory included with the PTZ camera.

Network Panoramic Cameras Accessories

PFB303W	PFB203W	PFB302S	PFB300C	PFA151	PFA105	PFA100
Waterproof Wall Mount Bracket	Waterproof Wall Mount Bracket	Wall Mount Bracket with Junction Box	Ceiling Mount Bracket	Corner Mount	Fisheye Mount Adapter	Mount Adapter

PFA110	PFB303S	PFA150	PFA152-E	PFA140	PFA120
Mount Adapter	Parapet Mount Bracket	Pole Mount Bracket	Pole Mount Bracket	Waterproof Power Box	Waterproof Junction Box

PFM321	HKKD-11108	PFM113
12 VDC, 1 A Power Adapter	24 VAC, 1.5 A Power Adapter	128 GB Micro SD Card
• N55BS5 • N68BR4 • N68BR4V • NK8BR4	• DH-IPC-PFW8601N-H-A180 • DH-IPC-PFW8800N-A180 • DH-IPC-PDBW8800N-A180	• All IP cameras on this guide offer an SD Card Slot up to 128 GB

Network Panoramic Cameras Mounting Applications

MODEL	Wall Mount	Ceiling Mount	Pole Mount	Corner Mount	Parapet Mount
N68BR4	PFA100 + PFB302S	PFA110 + PFA105 + PFB300C	PFA110 + PFA105 + PFA152-E	N/A	N/A
N68BR4V	PFA100 + PFB302S	PFA110 + PFA105 + PFB300C	PFA110 + PFA105 + PFA152-E	N/A	N/A
NK8BR4	PFA100 + PFB302S	PFA110 + PFA105 + PFB300C	PFA110 + PFA105 + PFA152-E	N/A	N/A
N55BS5	PFB203W	N/A	PFB203W + PFA152-E	N/A	N/A
DH-IPC-PFW8601N-H-A180	PFA120	N/A	PFA120 + PFA150	PFA120 + PFA151	N/A
DH-IPC-PFW8800N-A180	PFA120	N/A	PFA120 + PFA150	PFA120 + PFA151	N/A
DH-IPC-PDBW8800N-A180 *PFA111 included with camera*	PFA111* + PFB303W + PFA120 or PFA111* + PFB303W + PFA140	PFA111* + PFB300C	PFA111* + PFB303W + PFA150	PFA111* + PFB303W + PFA151	PFA111* + PFB303S
DH-PSD81602N-A360	This camera comes with a custom wall mount bracket and DC36V/4.17A power supply; no other accessories are compatible.	N/A	N/A	N/A	N/A

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HDCVI 4K Cameras Accessories						
PFB604W	**PFB121W**	**PFB110W**	**PFB302S**	**PFB300C**	**PFA151**	**PFB201C**
Wall Mount Bracket	Wall Mount Bracket	Wall/Ceiling Mount Bracket	Wall Mount Bracket with Junction Box	Ceiling Mount Bracket	Corner Mount	In-ceiling Mount Bracket
PFA110	**PFA101**	**PFA100**	**PFA105**	**PFA152-E**	**PFA138**	**PFA121**
Mount Adapter	Mount Adapter	Mount Adapter	Fisheye Mount Adapater	Pole Mount Bracket	Waterproof Junction Box	Junction Box
DH-PFH610V	**PFM801-4MP**	**PFM800-4MP**	**PFM320**	**PFM321**		
Vandal-proof Housing	POC Transceiver	Passive HDCVI Balun	12 VDC, 2 A Power Adapter	12 VDC, 1 A Power Adapter		
	Compatible with 4K cameras	Compatible with 4K cameras	Compatible with: • A82AF5V • A82AH5V • A82AM5V • A82AF53 • A82AG52 • A82AM52	Compatible with: • A83AA9 • A83AR6 • A83ABBZ • A83ALBZ • A82AH5V • A82AM5V • A82AF53 • A82AG52 • A82AM52		

HDCVI 4K Cameras Mounting Applications					
MODEL	**Wall Mount**	**Ceiling Mount**	**Pole Mount**	**Corner Mount**	**In-ceiling Mount**
A83AA9	DH-PFH610V + PFB604W	PFB110W	PFB121W + PFA121 + PFA152-E	PFB121W + PFA121 + PFA151	N/A
A83AR6	PFA100 + PFB302S	PFA110 + PFA105 + PFB300C	PFA110 + PFA105 + PFA152-E	N/A	N/A
A83ABBZ	PFA121	N/A	PFA121 + PFA152-E	PFA121 + PFA151	N/A
A83ALBZ	PFB302S	PFA101 + PFB300C or PFA138*	PFA101 + PFB302S + PFA152-E	PFA101 + PFB302S + PFA151	PFB201C
A82AF5V	PFA130-E*	N/A	PFA130-E* + PFA152-E	PFA130-E*+PFA152-A	N/A
A82AF53	PFA130-E*	N/A	PFA130-E* + PFA152-E	PFA130-E*+PFA152-A	N/A
A82AM5V	PFB203W or PFA137 + PFA200W	PFA137*	PFB203W + PFA152-E or PFA137 + PFB203W + PFA152-E	N/A	PFB200C
A82AM52	PFB203W or PFA137 + PFA200W	PFA137*	PFB203W + PFA152-E or PFA137 + PFB203W + PFA152-E	N/A	PFB200C
A82AH5V	PFB203W	PFA130-E*	PFB203W + PFA152-E	N/A	N/A
A82AG52	PFB204W	PFA130-E*	PFB204W + PFA152-E	N/A	N/A

* Accessory is optional for the mounting application.

HDCVI PTZ Cameras Accessories						
PFA110	**PFA111**	**PFA114**	**64FB**	**PFB203W**	**PFB300S**	**PFB303W**
Mount Adapters	Mount Adapters	Mount Adapters	Mount Adapters	Wall Mount	Wall Mount	Wall Mount
PFB305W	**PFB300C**	**PFA150**	**PFA152-E**	**PFA151**	**PFB303S**	**PFB200C**
Wall Mount	In-Ceiling Mount	Pole Mounts	Pole Mount	Corner Mount	Parapet Mount	In-Ceiling Mount
PFA137	**PFA120**	**PFA140**				
Junction Box	Junction Box	Power Box				

HDCVI PTZ Cameras Mounting Applications								
Model	Wall Mount	Ceiling Mount	Pole Mount	Corner Mount	Parapet Mount	In-ceiling Mount	Junction Box	Power Box
DH-SD22A204IN-GC	PFB203W or PFA137 + PFB203W	PFA137	PFB203W+PFA152-E	N/A	N/A	PFB200C	PFA137	N/A
40212IC	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
49225IC	PFB305W*	PFA111+PFB300C	PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB303S	N/A	PFA120	PFA140
DH-SD59A230IN-HC-S2	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
6C230IC	64FB* or PFA114+PFB303W+PFA120	PFA114+PFB300C	PFA114+PFB303W+PFA150	PFA114+PFB303W+PFA151	PFA114+PFB303S	N/A	PFA120	PFA140
50230IC	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
59230IC	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
6C430IC	64FB* or PFA114+PFB303W+PFA120	PFA114+PFB300C	PFA114+PFB303W+PFA150	PFA114+PFB303W+PFA151	PFA114+PFB303S	N/A	PFA120	PFA140
59430IC	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
50430IC	PFA110*+PFB300S*	PFA110+PFB300C	PFA110+PFB300S+PFA150	PFA110+PFB300S+PFA151	PFA110+PFB303S	N/A	PFA120	PFA140
52C430IC	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Mounting Accessory included with the PTZ camera.

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ePoE Cameras Accessories						
PFA101	**PFB203W**	**PFB204W**	**PFB300C**	**PFA200W**	**PFA152-E**	**PFA151**
Mount Adapter	Wall Mount	Wall Mount	Ceiling Mount	Rain/Sun Shield	Pole Mount	Corner Mount
PFB201C	**PFA121**	**PFA136**	**PFA138**	**PFA139**	**DH-PFL2106-4ET-96**	**LR1002-1ET**
In-Ceiling Mount	Junction Box	Junction Box	Junction Box	Junction Box	ePoE Switch	Single-port EoC Transmitter
LR1002-1EC	**LR1002**	**PFM320**	**PFM321**			
Single-port EoC Receiver	EoC Passive Converter	12 VDC, 2 A Power Adapter	12 VDC, 1 A Power Adapter			
		Compatible with: • N65CB5Z • N65CL5Z	Compatible with: • N64CB32/N64CB33 • N64CL52/N64CL53 • N64CG52/N64CG53			

ePoE Diagram
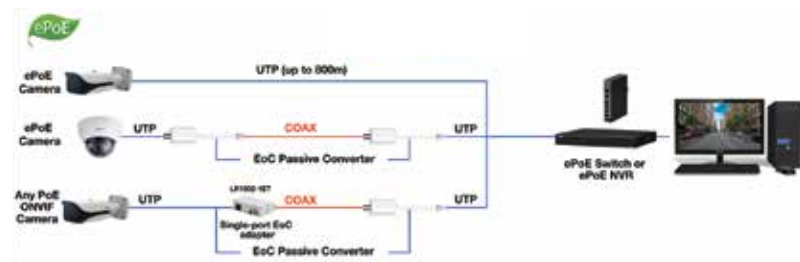
ePoE Cameras Mounting Applications						
Model	Wall Mount	Ceiling Mount	Pole Mount	Corner Mount	In-ceiling Mount	Junction Box
N65CB5Z	PFA121	N/A	PFA121 + PFA152-E	PFA151	N/A	PFA121
N64CB32	PFA121	N/A	PFA121 + PFA152-E	PFA151	N/A	PFA121
N64CB33	PFA121	N/A	PFA121 + PFA152-E	PFA151	N/A	PFA121
N65CL5Z	PFA101 + PFB302S	PFA101 + PFB300C or PFA138	PFA101 + PFB302S + PFA152-E	N/A	PFB201C	PFA138
N64CL52	PFB203W or PFB203W + PFA200W	PFA136	PFB203W + PFA152-E or PFB203W + PFA152-E + PFA200W	N/A	N/A	PFA136
N64CL53	PFB203W or PFB203W + PFA200W	PFA136	PFB203W + PFA152-E or PFB203W + PFA152-E + PFA200W	N/A	N/A	PFA136
N64CG52	PFB204W	PFA139	PFB204W + PFA152-E	N/A	N/A	PFA139
N64CG53	PFB204W	PFA139	PFB204W + PFA152-E	N/A	N/A	PFA139

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