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**THE ART/OF
VIDEO
SURVEILLANCE**

**PRODUCT
QUICK
GUIDE**
FALL/
WINTER
16_17

HIKVISION[®]

GREAT PRODUCTS - GREATER PARTNERSHIPS -

HIKVISION UNAUTHORIZED DISTRIBUTORS POLICY

Hikvision USA and Hikvision Canada sells products only through authorized distributors. We value our industry partners and are proud of the relationships we have developed to help expand the use of our innovative technology products and solutions. These authorized distributors have committed to serve as a link in the Hikvision USA and Hikvision Canada value chain by providing excellent pre- and post-sale customer service, including full firmware and sales engineering support.

Not every distributor advertising Hikvision products has been authorized by Hikvision USA and Hikvision Canada to advertise or sell those products. We warn potential customers against purchasing these "gray market" products from unauthorized distributors. Unauthorized distributors may be selling counterfeit, used, or damaged product. Much of the products sold by unauthorized distributors have been altered with modified firmware. Since this means that it is no longer in original factory condition, Hikvision warranty is void, per company policy.

We warn potential customers against purchasing from unauthorized distributors. Purchasing through authorized Hikvision USA and Hikvision Canada distributors ensures that you receive the benefits of technical support, project registration, dealer loyalty programs and advance replacement of any camera, recorder, monitor, video server, or software, in addition to Hikvision USA and Hikvision Canada's full warranty. Additionally, products purchased through authorized distribution partners have additional features and capabilities that distinguish the North American offering.

If you have any questions or concerns about the official status of your Hikvision distributor before your purchase, please contact Hikvision USA and Hikvision Canada Customer Service at csr.usa@hikvision.com to confirm their authorized status.

Thank you for your continued support of our industry-leading video surveillance products.



Hikvision is an arrangement of creative minds and talents working in harmony to bring the most advanced solutions to the security industry. Much like our surveillance technologies that operate as part of a larger infrastructure, our teams collaborate to create an ensemble that is greater than the sum of its parts. There is an artistry that goes into becoming the world's leading supplier of video surveillance equipment. We call this the Art of Video Surveillance.

ABOUT HIKVISION

It started with cutting-edge technology: high-definition IP cameras, digital video servers, hybrid and standalone DVRs, NVRs, speed domes, encoders, and decoders.

Fortified by one of the largest R&D teams in the video surveillance industry, the innovation behind these products quickly made Hikvision the #1 CCTV and video surveillance equipment provider in the world (2015 IHS Report). A total solution provider, Hikvision manufactures a full suite of video surveillance products and solutions for a broad range of vertical markets, including retail, education, and many others. Whatever the scope or requirements of the application, Hikvision has a user-friendly, highly scalable product to meet those needs.



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PROFESSIONAL SOLUTIONS

- Box Camera
- Indoor/Outdoor Dome
- Outdoor Bullet
- Multi-Sensor
- Counting Camera
- Ultra-Wide Panoramic
- Fisheye
- Covert
- Height Strip
- Indoor/Outdoor PTZ
- Specialty Dome and PTZ
- NVR



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VALUE PLUS SOLUTIONS

- Outdoor Dome
- Outdoor Compact Dome
- Outdoor Turret
- Outdoor Bullet



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VALUE SOLUTIONS

- Indoor Recessed Dome
- Outdoor Dome
- Outdoor Compact Dome
- Outdoor Turret
- Outdoor Bullet
- Indoor Pinhole
- Covert
- Indoor Fisheye
- Indoor PTeZ™
- Indoor/Outdoor PTZ
- Outdoor IR PTZ
- Plug-and-Play NVR



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WI-FI SOLUTIONS

- Outdoor Wi-Fi Dome
- Compact Wi-Fi Dome
- Wi-Fi Cube
- Indoor Wi-Fi PTeZ™
- Indoor PTZ
- Wi-Fi NVR



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TurboHD™ 3.0 ANALOG SOLUTIONS_ 3 MP + 2 MP

- Outdoor Dome
- Outdoor Bullet
- Outdoor Turret
- TurboHD™ 3.0 Tribrid DVR



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TurboHD™ ANALOG SOLUTIONS_

720p + 1080p

- Indoor Box
- Indoor/Outdoor Dome
- Outdoor Turret
- Outdoor Bullet
- Indoor/Outdoor Analog PTZ
- TurboHD™ Tribrid DVR
- Encoder
- Decoder



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ACCESSORIES

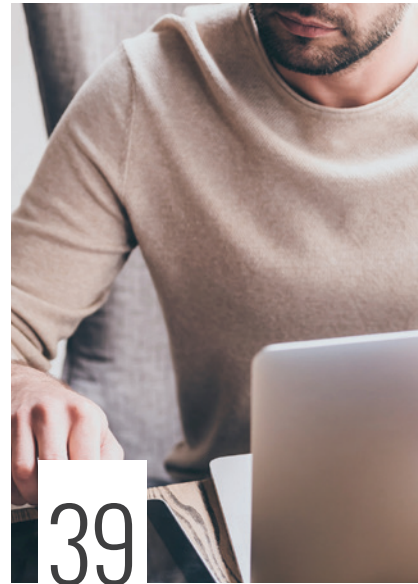
- Monitors
- HD-TVI Accessories
- Keyboards
- PoE Gigabit L2.5 Ethernet Switches
- PoE Unmanaged Switches
- Ethernet Over Coax
- Megapixel Auto Iris Lenses
- Storage Product
- Storage Expansion
- Hard Drives
- DVD-RW
- Micro SD Card



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BRACKETS AND BRACKET CHART

- PTZ Brackets
- Stainless Steel Brackets
- Camera Housings
- Box Camera Brackets
- Universal Brackets for Pendant Caps
- Sun/Rain Shield
- DVR/NVR Bracket
- Camera Brackets



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iVMS CLIENT SOFTWARE

- iVMS-4200
- iVMS-4500



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REFERENCE GUIDE

VERTICAL MARKET FOCUS

TRANSPORTATION

Hikvision offers a wide assortment of solutions to meet the needs of transport hubs, roads, highways, and more. Effects of exhaust, sand, winter salt, snow, sleet, and high winds are not an issue for Hikvision cameras, which are highly rated and made to resist severe outdoor conditions

HEALTHCARE

Patient monitoring, emergency rooms, pharmacies, specialty departments, and restricted areas are all critical zones that require reliable security equipment. Just as we all depend on our physician for keeping us well, we can depend on Hikvision's solutions to ensure the security of healthcare facilities.

GOVERNMENT

With strained budgets and changing priorities, safety remains an important issue for government facilities. Significant upgrades to existing analog infrastructures are possible using our TurboHD™ line of HD-TVI solutions, which deliver HD analog video without the high costs of networked systems.

SAFE CITIES

Hikvision is dedicated to helping solve public safety issues by providing surveillance systems that address emergency response, disaster management, and overall public safety. A key responsibility of any city is to ensure its citizens feel safe, which is why cities trust Hikvision.



RETAIL

Shop and restaurant owners have peace of mind when using Hikvision's high performing products, which are aesthetically pleasing to boot. In each camera category are compact bullet, turret, dome and covert varieties, which provide discreet surveillance in attractive packaging. POS integration, heat mapping, and special counting cameras provide significant business management information. Data collected can then be managed through Hikvision's smart recording equipment.



EDUCATION

Protection of your loved ones is one of Hikvision's highest priorities. Budget-minded school districts find Hikvision's product selection unmatched in the industry. High resolution cameras offer excellent image quality with high value for a market-leading price. Image enhancements, such as wide dynamic range and high definition video, make our products well suited to capture remarkable detail in exterior and interior settings.



CRITICAL INFRASTRUCTURE

Hikvision's Smart Series and Specialty cameras offer performance and features that are ideal for critical security installations. Resolutions of 12 MP, 8 MP (4K), 6 MP and more deliver detailed video images. DarkFighter and LightFighter solutions provide clear images in any lighting condition. Stainless-steel, high impact and weather-rated cameras withstand harsh environments. Built-in smart analytics provide pre- and post-event details. Data recording and storage products keep records safe and ready for forensic research. Every critical infrastructure setting has its own set of needs. With Hikvision products, these needs are all met.



GREATER PARTNERSHIPS

The company's remarkable accomplishments in North America speak to more than just top-tier products. Hikvision firmly believes that a company's success depends on superior customer support.

From inside sales to engineering support, from customer service to technical support, Hikvision goes the extra mile to provide customers with all of the elements they need for a first-class security system. Hikvision's Dealer Partner program and A&E program provide additional resources for dealers, architects, and engineers to help promote business success through knowledge and valuable tools. Hikvision is committed to protecting and creating business value for its customers.

To learn more about our Partner programs, please contact us at partners.usa@hikvision.com

Hikvision offers several choices when it comes to networked IP products.

Smart Pro IP Solutions

The Smart Pro IP solutions are an ideal option for professional applications, as they bring intelligence, efficiency, and convenience to video surveillance. The DarkFighter and LightFighter IP cameras provide outstanding image quality in challenging lighting environments. Camera styles vary from indoor and outdoor domes, bullets, turrets, covert, fisheye models, and various PTZ options. Key features include high resolution up to 12MP, 180° panoramic viewing, smart analytics, and H.264+ compression. With so many options, the Smart Pro Series can easily meet the high performance and storage requirements of enterprise projects.

Value Plus Series and Value Series

The Value Plus Series and Value Series provide similar choices of high-quality video surveillance cameras and recorders at conservative prices. Key Hikvision features—such as WDR, 3DDNR, BLC, motorized zoom lenses, and EXIR—are not compromised in these sensible series. Value recording products offer simplicity in installation with Plug and Play technology. For recording efficiency, Value items also support H.264+ and H.265 video compression. Whatever the application scope or requirements, Hikvision has a user-friendly, highly scalable product to meet those needs.

BOX CAMERA

	DS-2CD4012FWD-A	DS-2CD6026FHW-A	DS-2CD6026FHW-A3/A7/A11	DS-2CD4025FWD-A	DS-2CD4032FWD-A	DS-2CD4065F-A	DS-2CD4085F-AP
Model	 <i>*Lens NOT included</i> 1.3 MP	 DarkFighter <i>*Lens NOT included</i> 2 MP	 DarkFighter 2 MP	 LightFighter <i>*Lens NOT included</i> 2 MP	 <i>*Lens NOT included</i> 3 MP	 <i>*Lens NOT included</i> 6 MP	 <i>*Lens NOT included</i> 4K
Image Sensor	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2	Color: 0.001 @ f/1.2 B/W: 0.0001 @ f/1.2	Color: 0.0016 @ f/1.5 B/W: 0.00016 @ f/1.5	Color: 0.005 @ f/1.2 B/W: 0.0005 @ f/1.2	Color: 0.1 @ f/1.2 B/W: 0.01 @ f/1.2	Color: 0.02 @ f/1.2 B/W: 0.002 @ f/1.2	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2
Lens	Auto back focus, C/CS mount	Auto back focus, C/CS mount	A3: 3.8 to 16 mm f/1.5 A7: 7 to 33 mm f/0.95 A11: 11 to 40 mm f/1.5 Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount
Horizontal Angle of View	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent
Pan/Tilt/Rotation	---	---	---	---	---	---	---
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital	Yes/Digital
IR Range Max. (meters)	---	---	---	---	---	---	---
Video Compression	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	3072x2048	4096x2160
Frame Rate (fps)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x720 20 @ 2048x1536	24 @ 3072x2048 30 @ 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹ except Counting	Full Smart Suite ¹ except Counting	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	24 VAC, 12 VDC, PoE (802.3af), 8.5 W	24 VAC, 12 VDC, PoE (802.3af), 12 W	24 VAC, 12 VDC, PoE (802.3af), 12 W	24 VAC, 12 VDC, PoE (802.3af), 8.5 W	24 VAC, 12 VDC, PoE (802.3af), 10 W	24 VAC, 12 VDC, PoE (802.3af), 8 W	24 VAC, 12 VDC, PoE (802.3af), 8 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

INDOOR DOME

OUTDOOR BULLET

	DS-2CD4112FWD-IZ	DS-2CD4125FWD-IZ	DS-2CD4132FWD-IZ	DS-2CD4165F-IZ	DS-2CD4185F-IZ	DS-2CD41C5F-IZ	DS-2CD4212FWD-IZH	DS-2CD4212FWD-IZH8	DS-2CD4A24FWD-IZH	DS-2CD4A25FWD-IZH	DS-2CD4A25FWD-IZH8
Model	 1.3 MP	 LightFighter 2 MP	 3 MP	 6 MP	 4K	 12 MP NEW	 1.3 MP	 1.3 MP	 EXIR 2 MP NEW	 LightFighter EXIR 2 MP	 LightFighter EXIR 2 MP
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	4.7-94 mm @ F1.4 motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	98.4° to 30.2°	113° to 33.8°	91.2° to 28.3°	94.5° to 30.5°	96.0° to 32.6°	93.6° to 31.8°	98.4° to 30.2°	27.8° to 9.1°	53.8° to 3.1°	98.4° to 30.2°	27.8° to 9.1°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/140 dB	Yes/140 dB
IR Range Max. (meters)	30	30	30	30	30	30	30	80	120	50	100
Video Compression	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	2048x1536	3072x2048	4096x2160	4000x3000	1280x960	1280x960	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720	15 @ 4000x3000 22 @ 4096x2160 24 @ 3840x2160 30 @ 3072x1728, 2560x1440, 1920x1080, 1280x720	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	---	---	---	---	---
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-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)
Power Requirements (max.)	12 VDC, PoE (802.3af), 10.5 W	12 VDC, PoE (802.3af), 10 W	12 VDC, PoE (802.3af), 11.5 W	12 VDC, PoE (802.3af), 12.5 W	12 VDC, PoE (802.3af), 13 W	12 VDC, PoE (802.3af), 13 W	12 VDC, PoE+ (802.3at), 12 W	12 VDC, PoE+ (802.3at), 12 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

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OUTDOOR BULLET

OUTDOOR DOME

	DS-2CD4A26FWD-IZH	DS-2CD4A26FWD-IZH8	DS-2CD4A35FWD-IZH	DS-2CD4A35FWD-IZH8	DS-2CD4A65F-IZH	DS-2CD4A85F-IZH	DS-2CD4AC5F-IZH NEW	DS-2CD4312FWD-IZHS	DS-2CD4312FWD-IZHS8	DS-2CD4324FWD-IZHS	DS-2CD4324FWD-IZHS8
Model	 DarkFighter EXIR 2 MP	 DarkFighter EXIR 2 MP	 EXIR 3 MP	 EXIR 3 MP	 EXIR 6 MP	 EXIR 4K	 EXIR 12 MP	 1.3 MP	 1.3 MP	 2 MP	 2 MP
Image Sensor	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	92° to 32°	28° to 12°	105° to 32°	29.7° to 9.7°	94.5° to 30.5°	96.0° to 32.6°	93.6° to 31.8°	98.4° to 30.2°	27.8° to 9.1°	113° to 33.8°	31.2° to 10.2°
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	50	100	50	100	50	50	50	30	50	30	50
Video Compression	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG
Maximum Image Resolution (pixels)	1920x1080	1920x1080	2048x1536	2048x1536	3072x2048	4096x2160	4000x3000	1280x960	1280x960	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	24 @ 3072x2048, 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 3072x1728, 1280x720	15 @ 4000x3000, 22 @ 4096x2160, 24 @ 3840x2160, 30 @ 3072x1728, 2560x1440, 1920x1080, 1280x720	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹ except Audio feature	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	--	--	--	--	--	--	--	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	--	--	--	--	--	--	--	2/2	2/2	2/2	2/2
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed
Operating Temperature Range	-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 (-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)
Power Requirements (max.)	12 VDC, PoE+ (802.3at), 21 W	12 VDC, PoE+ (802.3at), 21 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	24 VAC, PoE (802.3af), 13 W	24 VAC, PoE (802.3af), 13 W	24 VAC, PoE+ (802.3at), 14 W











Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

OUTDOOR DOME

MULTI-SENSOR

COUNTING CAMERA

	DS-2CD4526FWD-IZH	DS-2CD4332FWD-IZHS	DS-2CD4332FWD-IZHS8	DS-2CD4535FWD-IZH	DS-2CD4535FWD-IZH8	DS-2CD4565F-IZH	DS-2CD4585F-IZH	DS-2CD45C5F-IZH	DS-2CD6986F-H	iDS-2CD6412FWD/C
Model	 DarkFighter 2 MP	 3 MP	 3 MP	 3 MP	 3 MP	 6 MP	 4K	 12 MP	 DarkFighter 8 MP	 1.3 MP
Image Sensor	1/1.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.8" Progressive Scan CMOS	1/3" Progressive Scan CMOS
Min. Illumination (lux)	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.002 Lux @ (F2.2, AGC ON)	Color: 0.028 Lux @ (F2.0, AGC ON) B/W: 0.0028 Lux @ (F2.0, AGC ON)
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	5mm x 4, adjustable, Pan 180°, Tilt: 78.4°	2.1mm @ f/2.2 2.8mm @ f/2.0
Horizontal Angle of View	92° to 32°	91.2° to 28.3°	26° to 8.54°	105° to 32°	29.7° to 9.7°	94.5° to 30.5°	96.0° to 32.6°	93.6° to 31.8°	180° stitched image	115° (2.1mm) 92.5° (2.8mm)
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	Pan: 0° to 360°, tilt: 45° to 90°	---
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	Electronic
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/120 dB
IR Range Max. (meters)	40	30	50	40	50	40	40	40	---	---
Video Compression	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264/MJPEG	H.264/MJPEG/MPEG4
Maximum Image Resolution (pixels)	1920x1080	2048x1536	2048x1536	2048x1536	2048x1536	3072x2048	4096x2160	4000x3000	4096 x 1800	1280x960
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1080 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1080 with WDR off)	24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080, 1280x720	15 @ 4000x3000 22 @ 4096x2160 24 @ 3840x2160 30 @ 3072x1728, 2560x1440, 1920x1080, 1280x720	Mode 1: 30 @ 4096x1800, 3840x1680 Mode 2: 24 @ 2400x3840 30 @ 1200x1920	30 @ 1280x960, 1280x720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Double	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	---	Basic Smart Suite ²
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	1/1	2/2	2/2	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-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 (-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)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	24 VAC, 12 VDC, PoE+ (802.3at), 17.5 W	24 VAC, PoE (802.3af), 13 W	24 VAC, PoE (802.3af), 13 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W	24 VAC, PoE+ (802.3at), 22 W	12 VDC, 7.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog







²Basic Smart Suite: Counting, ROI, EIS, Defog

Multi-Sensor DarkFighter Panoramic IP camera

[< PRODUCT DETAILS ON PREVIOUS PAGE](#)

Hikvision's new Multi-Sensor DarkFighter Panoramic IP camera (DS-2CD6986F-H, page 9) offers a variety of features for outstanding 180° panoramic performance. It includes up to 7.3 MP resolution (4096 × 1800) with PoE, defogging technology, 3D digital noise reduction, and IP66 and IK10 protection ratings. Its four 5mm lenses provide a horizontal 180° view, eliminating blind spots and providing broad coverage in enclosed spaces. From Hikvision's DarkFighter series and with the ability to capture high quality color images in very dim environments (0.002 lux), this camera is an ideal choice for low-light situations.










A close companion product is our new I-Series Value NVRs, which is a reliable addition to IP security systems that require ultra high performance at an economic price. These NVRs support recording of up to 12 MP camera resolution, Ultra High Definition (UHD) output up to 4K, and up to 24 TB storage capacity. The recorder offers up to four SATA interfaces and one eSATA interface for recording and backup. It features Hikvision's unique optimized H.264+ and H.265 compression, increasing storage space by 50-70%.

	ULTRA-WIDE PANORAMIC	FISHEYE				
	DS-2CD6W32FWD-IVS	DS-2CD6332FWD-I	DS-2CD6332FWD-IV	DS-2CD6362F-I	DS-2CD6362F-IV	DS-2CD632C-F-IV
Model	 3 MP	 3 MP	 3 MP	 6 MP	 6 MP	 12 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS
Min. Illumination (lux)	Color: 0.1 @ f/1.2, AGC On B/W: 0 with IR	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	Color: 0.04 @ f/2.4 B/W: 0 with IR
Lens	2mm @ f/2.4	1.19 mm @ f/2.0, Fisheye	1.19 mm @ f/2.0, Fisheye	1.27 mm @ f/2.8, Fisheye	1.27 mm @ f/2.8, Fisheye	1.98 mm @ f/2.4
Horizontal Angle of View	135°, 98° vertical (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	No/120 dB	No/120 dB	No/Digital	No/Digital	No/Digital
IR Range Max. (meters)	15	15	15	15	15	15
Video Compression	H.264	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	2048x1536	2048x1536	2048x1536	3072x2048	3072x2048	4000x3072
Frame Rate (fps)	30 @ 2048x1536	Fisheye (FE): M: 1536x1536; S: 720x720 Panorama (P): M: 1600x1200; S: 704x480 ePTZ: M: 800x600 M1: 20 @ FE(M), 20 @ P(M), 20 @ ePTZ(M)×3 M2: 30 @ FE(M) OR 30 @ ePTZ(M)×4 M3: 30 @ FE(M), 30 @ FE(S), 15 @ ePTZ(M)×3 M4: 30 @ P(M), 30 @ P(S)	Fisheye (FE): M: 1536x1536; S: 720x720 Panorama (P): M: 1600x1200; S: 704x480 ePTZ: M: 800x600 M1: 20 @ FE(M), 20 @ P(M), 20 @ ePTZ(M)×3 M2: 30 @ FE(M) OR 30 @ ePTZ(M)×4 M3: 30 @ FE(M), 30 @ FE(S), 15 @ ePTZ(M)×3 M4: 30 @ P(M), 30 @ P(S)	Fisheye (FE): M: 3072x2048; S: 720x720 Panorama (P): M: 2048x1536; S: 704x480 ePTZ: M: 1024x768 M1: 15 @ FE(M), 15 @ P(M), 15 @ 3XePTZ(M) M2: 30 @ FE(M) OR 30 @ 4XePTZ(M) M3: 15 @ FE (M), 15 @ FE (S), 15 @ 3X ePTZ(M) M4: 30 @ P(M), 30 @ P(S)	Fisheye (FE): M: 3072x2048; S: 720x720 Panorama (P): M: 2048x1536; S: 704x480 ePTZ: M: 1024x768 M1: 15 @ FE(M), 15 @ P(M), 15 @ 3XePTZ(M) M2: 30 @ FE(M) OR 30 @ 4XePTZ(M) M3: 15 @ FE (M), 15 @ FE (S), 15 @ 3X ePTZ(M) M4: 30 @ P(M), 30 @ P(S)	Fisheye (FE): M: 4000x3072; S: 720x720 Panorama (P): M: 3072x2304; S: 704x576 ePTZ: M: 1600x1200 M1: 10 @ FE(M), 10 @ FE(S), 10 @ 3XePTZ(M) M2: 15 @ P(M), 15 @ P(S) M3: 15 @ 4XePTZ(M) M4: 20 @ FE(M), 25 @ FE(3072x3072), 15 @ FE(S)
Multi-Streaming	Dual	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4
Smart Features	Basic Smart Suite ² , ROI	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic
Alarm Input/Output	1/1	---	---	---	---	---
Local Storage	MicroSD 64 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, IK10, UL/cUL Listed	UL/cUL Listed	IP67, IK10, UL/cUL Listed	UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3af), 12.5 W	12 VDC, PoE (802.3af), 12.5 W	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3af), 12 W	12 VDC/PoE (802.3af), 14.7 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

COVERT

HEIGHT STRIP

	DS-2CD6412FWD-C2 (Base Unit)	DS-2CD6412FWD-L10 (Lens/Sensor)	DS-2CD6412FWD-L20 (Lens/Sensor)	DS-2CD6412FWD-L30 (Lens/Sensor)	DS-2CD6424FWD-10	DS-2CD6424FWD-20	DS-2CD6424FWD-30	DS-2CD6424FWD-40/E1	DS-2CD6424FWD-40/E2	DS-2CD6424FWD-20/E
Model	 <small>*Base unit ONLY</small>	 <small>*Base unit NOT included</small> 1.3 MP	 <small>*Base unit NOT included</small> 1.3 MP	 <small>*Base unit NOT included</small> 1.3 MP	 NEW 2 MP	 NEW 2 MP	 NEW 2 MP	 NEW 2 MP	 NEW 2 MP	 NEW 2 MP
Image Sensor	Supports (2) L10, L20, or L30 lenses/sensor units (not included)	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS
Min. Illumination (lux)	---	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.0	Color: 0.028 Lux @ f2.0, AGC ON	Color: 0.028 Lux @ f2.0, AGC ON	Color: 0.028 Lux @ f2.0, AGC ON	Color: 0.028 Lux @ f2.0, AGC ON	Color: 0.028 Lux @ f2.0, AGC ON	Color: 0.028 Lux @ f2.0, AGC ON
Lens	---	Fixed, 3.7 mm @ f/2.3	Fixed, 3.7 mm @ f/2.3	Fixed, 2.8 mm, 4 mm @ f/2.0	Fixed 3.7mm @ f2.5, cylindrical pinhole	Fixed 3.7mm @ f2.5, L-shaped, pinhole	Fixed 2.8mm @ f2.0, Tube	Fixed 2.8mm @ f2.0, Ball with Turret mount	Fixed 2.8mm @ f2.0, Ball with In-ceiling mount	Fixed 3.7mm @f2.5, L-shaped, pinhole
Horizontal Angle of View	Lens dependent	57°	57°	92.5°, 73.1°	65°	65°	115°	109.4°	109.4°	78.5°
Day/Night	---	Electronic	Electronic	Electronic	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	---	No/120 dB	No/120 dB	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	---	---	---	---	---	---	---	---	---	---
Video Compression	H.264/MPEG4/MJPEG	---	---	---	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	---
Maximum Image Resolution (pixels)	---	1280x960	1280x960	1280x960	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	---	---	---	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
Multi-Streaming	Triple Stream	---	---	---	---	---	---	---	---	Triple
Smart Features	Basic Smart Suite ²	---	---	---	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ² + ROI, Defog
Motion Detection	Yes	---	---	---	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line/mic OUT: 1 line	---	---	---	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	1/1	---	---	---	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	---	---	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-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)
Power Requirements (max.)	12 VDC, PoE (802.3af), 8.5 W	Powered by Base Unit	Powered by Base Unit	Powered by Base Unit	12 VDC, PoE (802.3af), 6.5 W	12 VDC, PoE (802.3af), 6.5 W	12 VDC, PoE (802.3af), 6.5 W	12 VDC, PoE (802.3af), 6.5 W	12 VDC, PoE (802.3af), 6.5 W	12 VDC, PoE (802.3af), 6.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

²Basic Smart Suite: Counting, ROI, EIS, Defog

NETWORK PTZ CAMERAS - SMART PRO SERIES








INDOOR

OUTDOOR

	DS-2DF5276-AE3	DS-2DF5220S-DE4/W	DS-2DF5286-AE3	DS-2DF5276-AEL	DS-2DF5286-AEL	DS-2DF6236-AEL	DS-2DF6236V-AEL	DS-2DF6336V-AEL	DS-2DF7276-AEL
Model	 1.3 MP	 2 MP	 2 MP	 1.3 MP	 2 MP	 DarkFighter 2 MP	 LightFighter 2 MP	 3 MP	 1.3 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.3 @ f/1.6 B/W: 0.02 @ f/1.6	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6, 0 with IR
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	4.5 to 162 mm, motorized zoom, autofocus	4.5 to 162 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus
Horizontal Angle of View	57.4° to 2.8°	58.3° to 3.2°	65.5° to 2.11°	57.4° to 2.8°	65.5° to 2.11°	58.7° to 2.0°	60.6° to 3.68°	60.6° to 3.68°	57.4° to 2.8°
Optical Zoom	30x	20x	30x	30x	30x	36x	36x	36x	30x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-30° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-2° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 150°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 270°/sec. Tilt: 200°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital
Electronic Image Stabilization	Yes	Yes	Yes	Yes	Yes	Yes	---	---	Yes
IR Range Max. (Meters)	---	---	---	---	---	---	---	---	150
Smart Features/Presets/Tours/Patterns	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG/MPEG4
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	1280x960
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 2048x1536, 1920x1080, 1280x720 (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 1280x960, 1280x720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IK9, UL/cUL Listed	UL/cUL Listed	IK9, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)
Power Requirements (max.)	24 VAC, PoE+ (802.3at), 25 W, PoE injector included	12 VDC, PoE+ (802.3at), 25 W, PoE injector included	24 VAC, PoE+ (802.3at), 25 W, PoE injector included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P
²PTZ Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Sudden Audio Increase/Decrease, Audio Loss, Defog

OUTDOOR

Model	DS-2DF7286-AEL	DS-2DF8236I-AEL	DS-2DF8236IV-AEL	DS-2DF8336I-AEL	DS-2DF8336IV-AELW	DS-2DF8836I-AEL	DS-2DF8836IV-AELW
 2 MP	 DarkFighter 2 MP	 LightFighter 2 MP	 3 MP	 Wiper 3 MP	 4K	 Wiper 4K	
Image Sensor	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6, 0 with IR	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5 with IR	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5 with IR
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus
Horizontal Angle of View	65.5° to 2.11°	58.7° to 2.0°	60.6° to 3.68°	60.6° to 3.68°	60.6° to 3.68°	56.8° to 2.02°	56.8° to 2.02°
Optical Zoom	30x	36x	36x	36x	36x	36x	36x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-2° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
Pan & Tilt Speed (Preset)	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital
Electronic Image Stabilization	Yes	Yes	---	---	---	---	---
IR Range Max. (Meters)	150	200	200	200	200	200	200
Smart Features/ Presets/Tours/Patterns	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	2048x1536	2048x1536	4096x2160	4096x2160
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off)	24 @ 4096x2160 (30 @ 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720)	24 @ 4096x2160 (30 @ 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720)
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)
Power Requirements (max.)	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P
²PTZ Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Sudden Audio Increase/Decrease, Audio Loss, Defog

FEATURED PRODUCT

Ultra HD Smart PTZ Camera

< DS-2DF8836IV-AELW

As a winner of the 2016 ISC West New Product Showcase, the DS-2DF8836IV-AELW Ultra HD Smart PTZ Camera provides an array of benefits, including Ultra HD 4K image detail in real time (30fps), true WDR, a 36x optical zoom lens, and an IR range of 650 feet. Using video content analysis, the camera determines when line crossing, intrusion, and region entry and exit events have occurred, and it immediately sends alerts to the user. ROI encoding and Smart Tracking allow for even more efficient video surveillance, making this camera as useful as it is cutting-edge.

Specialty Camera Solutions

Part of our Smart/Pro series, Hikvision is proud to introduce its first line of Specialty Camera Solutions. Intended to bring Hikvision's advanced technology capabilities to the North American market, these specialized camera systems will add to Hikvision's wide selection of innovative solutions. This means more options for end users and more business opportunities for our customers.

Whether it is a coastline or food processing site, airport or highway, solar farm or critical infrastructure, Hikvision is committed to delivering solutions for demanding applications. Our specialty line also features advanced analytics and all of the smart essentials Hikvision customers have come to expect.

We invite you to explore these new product offerings and expand your business when you provide your customers with more options. Talk to your Hikvision representative, or visit our website for more information.

Stainless Steel Cameras

Constructed of 316L stainless steel and designed to anti-corrosion standards.

Upright PTZ Cameras

Featuring DarkFighter technology and Smart Suite Analytics

Thermal Imaging Cameras






Industry leading dual sensor technology with thermography as standard.

OUTDOOR DOME

	 DarkFighter  2 MP
Model	DS-2CD6626DS-IZHS
Image Sensor	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.002 @ f/1.2 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	92° to 32°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE
BLC/WDR	Yes/120 dB
IR Range Max. (Meters)	30
Video Compression	H.264+/H.264/MPEG4/MJPEG
Maximum Image Resolution (pixels)	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960 1280x720 with WDR off)
Multi-Streaming	Triple
Smart Features	Full Smart Suite ¹
Motion Detection	Yes
Audio Input/Output	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	1/1
Local Storage	MicroSD 128 GB max.
Ratings	316L Stainless Steel, IP67, IK10, UL/cUL Listed, Anti-corrosion, NEMA 4X, WF2, C5-M
Operating Temperature Range	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	24 VAC, 12 VDC, PoE (802.3af), 16 W

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

OUTDOOR PTZ

	 DarkFighter  2 MP	 DarkFighter 2 MP	 DarkFighter 2 MP	 DarkFighter 2 MP
Model	DS-2DT6223-AELY	DS-2DY5223W-AE	DS-2DY9188-A	DS-2DY9188-AI2
Image Sensor	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5 AGC On	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On
Lens	5.9 to 135.7 mm, motorized zoom, autofocus	5.9 to 135.7 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus
Horizontal Angle of View	59.8° to 3.0°	59.8° to 3.0°	58.7° to 2°	58.7° to 2°
Optical Zoom	23x	23x	36x	36x
Pan Range	360° endless	360° endless	360° endless	360° endless
Tilt Range	-20° to 90° (auto flip)	-90° to 90°	-40° to 90°	-40° to 90°
Pan & Tilt Speed (Manual)	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 200°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 40°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 40°/sec.
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
Electronic Image Stabilization	Yes	Yes	Yes	Yes
IR Range Max. (Meters)	---	150	---	200
Smart Features/ Presets/Tours/Patterns	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	PTZ Suite ² / 256/8/4	PTZ Suite ² / 256/8/4
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	316L Stainless Steel, IP67, IK10,UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149°)	-40° C to 65° C (-40° F to 149° F)
Power Requirements (max.)	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 45 W, PoE Injector Included	24 VAC, 60 W	24 VAC, 60 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P

²PTZ Suite: Line Crossing Detection, Intrusion Detection, Region Entrance, Region Exiting, Sudden Audio Increase/Decrease Detection, Audio Loss Detection, Defog

PRO SERIES

	DS-9616NI-ST	DS-9632NI-ST	DS-9664NI-ST	DS-9632NI-I8	DS-9664NI-I8	DS-96128NI-F24/H ⁴	DS-96256NI-F24/H ⁴
Model							
Max. Recording Resolution	6 MP	6 MP	6 MP	12 MP	12 MP	4K	4K
Video Compression	H.264, H.264+	H.264, H.264+	H.264, H.264+	H.264, H264+, H.265	H.264, H264+, H.265	H.264	H.264
HDMI/VGA Output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	14 HDMI and 1 VGA at 1920x1080 Resolution, HDMI1/VGA/LCD Synchronous. HDMI2 to HDMI14 are Independent	14 HDMI and 1 VGA at 1920x1080 Resolution, HDMI1/VGA/LCD Synchronous. HDMI2 to HDMI14 are Independent
IP Video Inputs	16	32	64	32	64	128	256
Alarm Input/Output	16/4	16/4	16/4	16/4	16/4	16/8	16/8
USB	3 USB 2.0	3 USB 2.0	3 USB 2.0	2 USB 2.0; 1 USB 3.0	2 USB 2.0; 1 USB 3.0	1 USB 2.0; 2 USB 3.0	1 USB 2.0; 2 USB 3.0
RAID Support	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10
Internal SATA	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	24 SATA interfaces (up to 6 TB each)	24 SATA interfaces (up to 6 TB each)
Maximum Internal Storage	48 TB	48 TB	48 TB	48 TB	48 TB	144 TB	144 TB
eSATA Interface	Yes	Yes	Yes	Yes	Yes	---	---
Support DVD-RW	Yes, replaces 4x SATA	Yes, replaces 4x SATA	Yes, replaces 4x SATA	Yes, replaces 4x SATA	Yes, replaces 4x SATA	---	---
Max. Incoming Bandwidth (Mbps)	100 (100 with RAID)	200 (100 with RAID)	200 (100 with RAID)	320 (200 with RAID)	320 (200 with RAID)	400	640 (400 with RAID)
Maximum Outgoing Bandwidth (Mbps)	240 (100 with RAID)	160 (100 with RAID)	160 (100 with RAID)	256 (200 with RAID)	256 (200 with RAID)	400	400
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	2	2	2	2	2	4	4
Power Requirements	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Power Consumption	≤45 W without HDD	≤45 W without HDD	≤45 W without HDD	≤30 W without HDD or DVD-R/W	≤30 W without HDD or DVD-R/W	≤100 W without HDD or DVD-R/W	≤100 W without HDD or DVD-R/W

Standards: Complies with ONVIF (Profile S), CGI ASAPI. Contact factory for details.

⁴Requires rack shelf (not included) to mount in a 19" equipment rack; it is not recommended to rack mount the unit using rack rails and rack ears (not included) due to the weight. Weight without HDD ≤15.86 Kg (31.79 lb)

NETWORK CAMERAS - VALUE PLUS SERIES

	OUTDOOR DOME		OUTDOOR COMPACT DOME			OUTDOOR DOME			
Model	DS-2CD2122FWD-IS*  *Black model available DS-2CD2122FWD-ISB 2 MP	DS-2CD2142FWD-IS*  *Black model available DS-2CD2142FWD-ISB 4 MP	DS-2CD2152F-IS  5 MP	DS-2CD2522FWD-IS*  *Black model available DS-2CD2522FWD-ISB 2 MP	DS-2CD2542FWD-IS*  *Black model available DS-2CD2542FWD-ISB 4 MP	DS-2CD2552F-IS  5 MP	DS-2CD2722FWD-IZS*  *Black model available DS-2CD2722FWD-IZSB 2 MP	DS-2CD2742FWD-IZS*  *Black model available DS-2CD2742FWD-IZSB 4 MP	DS-2CD2752F-IZS  5 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	Fixed, 4mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 4mm @ f/2.0 (6 mm option)	Fixed 4mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 4mm @ f/2.0 (2.8 mm, 6 mm option)	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, motorized
Horizontal Angle of View	102° (2.8 mm), 85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	89° (4 mm), 54.7° (6 mm)	102° (2.8 mm), 85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	86° (2.8 mm), 89° (4 mm), 54.7° (6 mm)	106° to 35°	112° to 33.8°	91° to 28°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	-30° to 30°/ 0° to 75°/0° to 360°	-30° to 30°/ 0° to 75°/0° to 360°	-30° to 30°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	No/120 dB	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/Digital
IR Range Max. (meters)	30	30	30	10	10	10	30	30	30
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520	2688x1520
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560x1920, 30 @ 2048x1536, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560x1920, 30 @ 2048x1536, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	Mic: Built in OUT: 1 line	Mic: Built in OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ³	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²
Ratings	IP67 ⁵ , IK10, UL/cUL Listed	IP67 ⁵ , IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP67 ⁵ , IK10, UL/cUL Listed	IP67 ⁵ , IK10, UL/cUL Listed	IP67 ⁵ , IK10, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-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)
Power Requirements (max.)	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.











²Basic Smart Suite: Line Crossing Detection, Intrusion Detection

³IP67: effective June 2016 production

NETWORK CAMERAS - VALUE PLUS SERIES

OUTDOOR TURRET

OUTDOOR BULLET

	DS-2CD2322WD-I	DS-2CD2342WD-I	DS-2CD2352-I	DS-2CD2022WD-I	DS-2CD2042WD-I	DS-2CD2T22WD-I5	DS-2CD2T42WD-I5	DS-2CD2T52-I5	DS-2CD2622FWD-I5ZS	DS-2CD2642FWD-I5ZS
Model										
	EXIR 2 MP	EXIR 4 MP	EXIR 5 MP	2 MP	4 MP	EXIR 2 MP	EXIR 4 MP	EXIR 5 MP	2 MP	4 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, motorized
Horizontal Angle of View	109° (2.8 mm), 90° (4 mm), 54° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	112° (2.8 mm), 89° (4 mm), 54.7° (6 mm)	85° (4 mm), 52° (6 mm)	82° (4 mm), 55° (6 mm)	90° (4 mm), 54° (6 mm)	83° (4 mm), 56° (6 mm)	89° (4 mm), 54.7° (6 mm)	106° to 35°	112° to 33.8°
Pan/Tilt/Rotation	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/Digital	No/120 dB	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	30	30	30	30	30	50	50	50	30	30
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520, 30 @ 1920x1080, 1280x720	20 @ 2560x1920, 30 @ 2048x1536, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520, 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520, 30 @ 1920x1080, 1280x720	20 @ 2560x1920, 30 @ 2048x1536, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520, 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	--	--	--	--	--	--	--	--	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	--	--	--	--	--	--	--	--	1/1	1/1
Local Storage	--	--	--	--	--	--	--	--	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ⁴	Basic Smart Suite ²	Basic Smart Suite ⁴	Basic Smart Suite ⁴
Ratings	IP67 ³ , UL/cUL Listed	IP67 ³ , UL/cUL Listed	IP66, UL/cUL Listed	IP67 ³ , UL/cUL Listed ³	IP67 ³ , UL/cUL Listed	IP67 ³ , UL/cUL Listed	IP67 ³ , UL/cUL Listed	IP66, UL/cUL Listed	IP67 ³ , UL/cUL Listed	IP67 ³ , UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-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)
Power Requirements (max.)	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.

²Basic Smart Suite: Line Crossing, Intrusion

³IP67: effective June 2016 production

NETWORK CAMERAS - VALUE SERIES

	INDOOR RECESSED DOME	INDOOR RECESSED DOME	OUTDOOR DOME	OUTDOOR DOME	OUTDOOR COMPACT DOME	OUTDOOR COMPACT DOME	OUTDOOR COMPACT DOME	OUTDOOR COMPACT DOME	OUTDOOR DOME	OUTDOOR DOME
Model	 1.3 MP	 2 MP	 1.3 MP	 3 MP	 1.3 MP	 1.3 MP	 2 MP	 3 MP	 1.3 MP	 3 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.4 B/W: 0 with IR
Lens	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 2 mm @ f/2.0	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2 mm @ f/2.0	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual
Horizontal Angle of View	92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm)	106° (2.8 mm), 85° (4 mm), 52° (6 mm)	92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm), 22° (12 mm)	86° (2.8 mm), 70° (4 mm), 43.3 (6 mm), 20.6° (12 mm)	115° (2 mm)	92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm)	126° (2 mm)	86° (2.8 mm), 70° (4 mm), 43.3° (6 mm)	98.4° to 30.2°	91.2° to 28.3°
Pan/Tilt/Rotation	0° to 355°/0° to 80°/na	0° to 355°/0° to 80°/na	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	±15°/0° to 90°/±15°	±30°/0° to 75°/0° to 360°	±15°/0° to 90°/±15°	±30°/0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	Electronic	Electronic	TRUE	TRUE	Electronic	TRUE	Electronic	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	---	---	30	30	---	10	---	10	30	30
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1280x960	2048x1536	1280x960	1280x960	1920x1080	2048x1536	1280x960	2048x1536
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536, 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720, 704x576	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---	---	---	---	---
Alarm Input/Output	---	---	---	---	---	---	---	1/1	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed
Operating Temperature Range	-10° C to 40° C (14° F to 104° F)	-10° C to 40° C (14° F to 104° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 4.2 W	12 VDC, PoE (802.3af), 4.5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 4 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 4 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
²Basic Smart Suite: Line Crossing, Intrusion

NETWORK CAMERAS - VALUE SERIES

	OUTDOOR TURRET	OUTDOOR BULLET					INDOOR PINHOLE	COVERT	INDOOR FISHEYE	
Model	 EXIR 3 MP	 1.3 MP	 3 MP	 EXIR 1.3 MP	 EXIR 3 MP	 1.3 MP	 3 MP	 1 MP	 1 MP	 4 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.1 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0	Color: 0.028 @ f/2.0	Color: 0.018 @ f/1.6 B/W: 0.0018 @ f/1.6 0 with IR
Lens	Fixed 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	Pinhole, 3.2 mm @ f/2.5	2.8 mm @ f/2.0 or 4.0 mm @ f/2.0	Fisheye, 1.6 mm, f/1.6
Horizontal Angle of View	86° (2.8 mm), 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	73.1° (4 mm), 46° (6 mm), 22° (12 mm)	70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	73.1° (4 mm), 46° (6 mm), 22° (12 mm)	70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	98.4° to 30.2°	91.2° to 28.3°	65° (3.2 mm)	67.3° (2.8 mm), 53° (4.0 mm)	186° (horizontal), 106° (vertical)
Pan/Tilt/Rotation	0° to 360°/ 0° to 75°/0° to 360°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 360°/0° to 90°/na	0° to 360°/0° to 90°/na	---
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	Electronic	Electronic	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	No/100 dB	No/100 dB	Yes/Digital
IR Range Max. (meters)	30	30	30	50	50	30	30	---	---	8
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	2048x1536	1280x960	2048x1536	1280x960	2048x1536	1280x960	2048x1536	1280x720	1280x720	2560x1440
Frame Rate (fps)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x720, 704x576, 640x480	30 @ 1280x720, 704x576, 640x480	15 @ 2560x1440 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ² + tampering alarm, dynamic analysis, motion detection	Basic Smart Suite ² + tampering alarm, dynamic analysis, motion detection	---
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---	---	---	---	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	---	---	---	---	---	---	1/1
Local Storage	---	---	---	---	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---	MicroSD, 128 GB max.
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-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)	-10° C to 40° C (14° F to 104° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 9 W	12 VDC, PoE (802.3af), 9 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, PoE (802.3af), 5.55 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
²Basic Smart Suite: Line Crossing, Intrusion

FEATURED PRODUCT

3 MP Mini PTZ Repositionable IP Dome

Not only does the DS-2DE3304W-DE mini dome camera deliver an incredible image during daytime scenes, it also produces clear images down to 0.01 lux. The 2.8 to 12mm autofocus zoom lens yields 4x optical zoom and presents the perfect solution for limited areas, such as doorways, perimeter gates, or guard booths. It is designed for installations that do not require the 360° high speed positioning of traditional PTZ cameras but that do need occasional pan/tilt/zoom capabilities, including presets, patrols, and patterns. Its IP66 and IK10 ratings along with its RCM-4 recessed ceiling mount allow the camera to be discreetly mounted in outdoor soffits for unobtrusive, compact installations.

NETWORK PTZ CAMERAS - VALUE SERIES

	INDOOR PTeZ™	INDOOR PTZ	INDOOR PTZ	INDOOR PTZ	OUTDOOR PTZ	OUTDOOR PTZ
Model	DS-2DE2103-DE3/W  1 MP	DS-2DE22021-DE3/W  2 MP	DS-2DE4220-AE3  2 MP	DS-2DE5184-AE3  2 MP	DS-2DE3304W-DE  3 MP	DS-2DE4220-AE  2 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/2.0 B/W: 0.01 @ f/2.0	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6
Lens	3.6 to 11 mm, 3x (effective) ³ via PTeZ™	3.6 to 8.6 mm, 2x (effective) ³ via PTeZ™	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	2.8 to 12 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus
Horizontal Angle of View	80° to 33°	80° to 64.5°	58.3° to 3.2°	58.3° to 3.2°	105° to 33.5°	58.3° to 3.2°
Optical Zoom	3x	2x	20x	20x	4x (16x Digital)	20x
Pan Range	0° to 350°	0° to 350°	360° endless	360° endless	0° to 350°	360° endless
Tilt Range	0° to 90° (auto flip)	+5° to 90°	+5° to 90° (auto flip)	-5° to 90° (auto flip)	+5° to 90°	+5° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 50°/sec. Tilt: 0.1° to 40°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
Pan & Tilt Speed (Preset)	Pan: 50°/sec. Tilt: 40°/sec.	Pan: 50°/sec. Tilt: 50°/sec.	Pan: 160°/sec. Tilt: 120°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 50°/sec. Tilt: 50°/sec.	Pan: 160°/sec. Tilt: 120°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	---	20	---	---	---	---
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²
Presets/Tours/Patterns	300/0/0	300/0/0	300/8/4	300/8/4	300/8/4	300/8/4
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n	---	---	---	---
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x720	1920x1080	1920x1080	1920x1080	2048x1536	1920x1080
Frame Rate (fps)	30 @ 1280x720	30 @ 1920x1080	30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	IK8, UL/cUL Listed	IK9, UL/cUL Listed	IP67, UL/cUL Listed	IP66, IK8, UL/cUL Listed
Operating Temperature range	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 6 W	12 VDC, PoE (802.3af), 9 W	24 VAC, PoE (802.3af), 18 W	24 VAC, PoE+ (802.3at), 18 W	12 VDC, PoE (802.3af), 8 W	24 VAC, PoE+ (802.3at), 18 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P


²Basic Smart Suite: Line Crossing, Intrusion Detection

³PTeZ™ cameras have a sensor-based zoom

NETWORK PTZ CAMERAS - VALUE SERIES

OUTDOOR PTZ

OUTDOOR IR PTZ

	DS-2DE5174-AE	DS-2DE5184-AE	DS-2DE5130W-AE	DS-2DE5230W-AE	DS-2DE5220I-AE	DS-2DE7174-AE	DS-2DE7184-AE	DS-2DE7130IW-AE	DS-2DE7230IW-AE
Model	 1.3 MP	 2 MP	 1.3 MP NEW	 2 MP NEW	 2 MP	 1.3 MP	 2 MP	 1.3 MP NEW	 2 MP NEW
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.5 B/W: 0.01 @ f/1.5	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6, 0 with IR	Color: 0.05 @ f/1.6, AGC On B/W: 0.01 @ f/1.6, 0 with IR	Color: 0.05 @ f/1.6, AGC On B/W: 0.01 @ f/1.6, 0 with IR
Lens	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.3 to 129 mm, motorized zoom, autofocus	4.3 to 129 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.3 to 129 mm, motorized zoom, autofocus	4.3 to 129 mm, motorized zoom, autofocus
Horizontal Angle of View	58.3° to 3.2°	58.3° to 3.2°	57.4° to 2.8°	65.5° to 2.1°	58.3° to 3.2°	58.3° to 3.2°	58.3° to 3.2°	65.5° to 2.1°	65.5° to 2.1°
Optical Zoom	20x	20x	30x	30x	20x	20x	20x	30x	30x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 400°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
Pan & Tilt Speed (Preset)	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 400°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	---	---	---	---	150	150	150	150	150
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²
Presets/Tours/Patterns	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4
Wireless	---	---	---	---	---	---	---	---	---
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1280x960	1920x1080	1920x1080	1280x960	1920x1080	1280x960	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature range	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)
Power Requirements (max.)	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, Hi-PoE (802.3at), 32 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details; Command Protocols: Hikvision and Pelco D/P
²Basic Smart Suite: Line Crossing, Intrusion

NETWORK VIDEO RECORDERS

PLUG-AND-PLAY

	DS-7604NI-E1/4P	DS-7608NI-E2/8P	DS-7608NI-I2/8P	DS-7616NI-E2/16P	DS-7616NI-I2/16P	DS-7716NI-SP/16	DS-7716NI-I4/16P
Model							
Max. Recording Resolution	6 MP	6 MP	12 MP	6 MP	12 MP	6 MP	12 MP
Video Compression	H.264, H.264+	H.264, H.264+	H.264, H.264+, H.265	H.264, H.264+	H.264, H.264+, H.265	H.264, H.264+	H.264, H.264+, H.265
HDMI/VGA Output	1920x1080/1920x1080, synchronized output	1920x1080/1920x1080, synchronized output	3840x2160/1920x1080, 1920x1080/1920x1080, independent output	1920x1080/1920x1080, synchronized output	3840x2160/1920x1080, 1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	3840x2160/1920x1080, 1920x1080/1920x1080, independent output
IP Video Input	4-ch IPC with integrated 4-port 802.3af/at PoE switch	8-ch IPC with integrated 8-port 802.3af/at PoE switch	8-ch IPC with integrated 8-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch
Audio Input/Output	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out
Alarm Input/Output	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	16 ch/4 ch	16 ch/4 ch
USB	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	3 USB 2.0	3 USB 2.0
Internal SATA	1 SATA interface (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)
eSATA Interface	--	--	--	--	--	Yes	Yes
Max. Internal Storage	6 TB	12 TB	12 TB	12 TB	12 TB	24 TB	24 TB
Support DVD-RW	--	--	--	--	--	Yes, replaces 2x SATA	Yes, replaces 2x SATA
Max. Incoming Bandwidth (Mbps)	40	80	80	160	160	100	160
Maximum Outgoing Bandwidth (Mbps)	80	80	256	80	256	240	256
Max. Remote Connections	128	128	128	128	128	128	128
Rack Units	1	1	1	1	1	1.5	1.5
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
PoE Budget	50 W	120 W	180 W	200 W	280 W	200 W	300 W
Power Requirements	48VDC, ≤10W without HDD	100 to 240 VAC, ≤10W without HDD	100 to 240 VAC, ≤15W without HDD	100 to 240 VAC, ≤15W without HDD	100 to 240 VAC, ≤15W without HDD	100 to 240 VAC, ≤40 W without HDD	100 to 240 VAC, ≤20W without HDD



Standards: Complies with ONVIF (Profile S), CGI ASAPI. Contact factory for details; Command Protocols: Hikvision and Pelco D/P

NETWORK CAMERAS - VALUE SERIES

	OUTDOOR WI-FI DOME		WI-FI COMPACT DOME		WI-FI CUBE		INDOOR WI-FI PTeZ™		INDOOR PTZ
Model	DS-2CD2112F-IWS	DS-2CD2132F-IWS	DS-2CD2522FWD-IWS	DS-2CD2542FWD-IWS	DS-2CD2412F-IW	DS-2CD2432F-IW	DS-2DE2103-DE3/W	DS-2DE22021-DE3/W	DS-2DF5220S-DE4/W
									
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.1 @ f/2.0 B/W: 0.01 @ f/2.0	Color: 0.3 @ f/1.6 B/W: 0.02 @ f/1.6
Lens	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm option)	3.6 to 11 mm, 3x (effective) ⁵ via PTeZ™	3.6 to 8.6 mm, 2x (effective) ⁵ via PTeZ™	4.7 to 94 mm, motorized zoom, autofocus, 20x
Horizontal Angle of View	92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm)	98.5° (2.8 mm), 79° (4 mm), 49° (6 mm)	85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	92.5° (2.8 mm), 73.1° (4 mm)	86° (2.8 mm), 79° (4 mm)	80° to 33°	80° to 64.5°	58.3° to 3.2°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	-30° to 30°/ 0° to 75°/ 0° to 360°	-30° to 30°/ 0° to 75°/ 0° to 360°	3-Axis Positioning	3-Axis Positioning	Pan: 0.1° to 50°/sec. Tilt: 0.1° to 40°/sec.	0° to 350°/ 0° to 90°/NA	360° endless/ -30° to 90° (auto flip)/NA
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	No/120 dB	No/120 dB	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	30	30	10	10	10	10	—	20	—
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	2048x1536	1920x1080	2688x1520	1280x960	2048x1536	1280x720	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	20 @ 2048x1536, 30 @ 1920 x 1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080	30 @ 1280x720	30 @ 1920x1080	30 @ 1920x1080, 1280x960, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	OUT: 1 line Mic: Built in	OUT: 1 line Mic: Built in	Built-in mic and speaker	Built-in mic and speaker	OUT: 1 line Mic: Built in	OUT: 1 line Mic: Built in	IN: 1 line OUT: 1 line
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK8, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-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)	0° C to 40° C (-22° F to 104° F)	0° C to 40° C (-22° F to 104° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5.5 W, PSU included	12 VDC, PoE (802.3af), 9 W, PSU included	12 VDC, PoE+ (802.3at), 24 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
⁵PTeZ™ cameras have a sensor-based zoom

NETWORK VIDEO RECORDERS

	WI-FI NVR	
Model	DS-7104NI-SL/W	DS-7108NI-E1/W/W/1T (with 1 TB HDD)
		
Video Compression	H.264	H.264
HDMI/VGA Output	1920x1080/ 1920x1080	1920x1080 /-
IP Video Input	4-ch	8-ch
Network Interface	1 LAN	1 WAN, 3 LAN
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Audio Input/Output	1 / 1	- / 1 (HDMI) /-
USB	2 USB 2.0	1 USB 3.0
Internal SATA	1 (up to 4 TB)	1 (1 TB HDD included)
Max. Incoming Bandwidth (Mbps)	25 Mbps	50 Mbps
Maximum Outgoing Bandwidth (Mbps)	40 Mbps	80 Mbps
Max. Remote Connections	128	128
Ratings	UL/cUL Listed	UL/cUL Listed
Power Requirements	12 VDC, PSU included	12 VDC, PSU included
Max. Total Power w/ full HDD load	16 W	12 W

Standards: Complies with ONVIF (Profile S), PSIA, CGI ASAPI. Contact factory for details; Command Protocols: Hikvision and Pelco D/P protocols

Enjoy HD with existing cabling

Based on HD-TVI technology, Hikvision's TurboHD™ products provide high definition (HD) video over coaxial cable at distances of up to 1500 feet. Specially designed for analog users who want a high-definition surveillance system, this line allows users to enjoy HD without upgrading to IP or even replacing their existing cabling structures. Providing impressive image quality, the camera line offers incredibly durable, vandal proof products with features such as OSD menu via Up-the-Coax (UTC), EXIR illumination, motorized zoom and focus, and 120 dB WDR.

The TurboHD™ Plug and Play DVR products offer several models scaled for small to medium businesses with 4 to 32 channels. All TurboHD DVRs are tribrid—a true revolution in the professional surveillance market—supporting traditional analog (CVBS), HD-TVI, and IP cameras. Thanks to autosensing technology, installation is a breeze. These DVR products also provide H.264 and Hikvision's unique H.264+ video compression, and up to 48TB of recording space.





	OUTDOOR DOME	OUTDOOR BULLET	OUTDOOR TURRET	OUTDOOR BULLET	OUTDOOR TURRET	OUTDOOR BULLET	OUTDOOR TURRET
Model	DS-2CE56D7T-VPIT  EXIR 2 MP	DS-2CE16D7T-IT  EXIR 2 MP	DS-2CE56D7T-ITM  EXIR 2 MP	DS-2CE16D7T-IT5  EXIR 2 MP	DS-2CE56D7T-IT3  EXIR 2 MP	DS-2CE16D7T-AIT3Z  EXIR 2 MP	DS-2CE56D7T-IT3Z  EXIR 2 MP
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI
Image Sensor	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS
HD-TVI Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
CVBS Resolution	---	---	---	---	---	---	---
Min. Illumination (lux)	Color: 0.034 @ f/2.0 B/W: 0 with IR	Color: 0.034 @ f/2.0 B/W: 0 with IR	Color: 0.034 @ f/2.0 B/W: 0 with IR	Color: 0.034 @ f/2.0 B/W: 0 with IR	Color: 0.034 @ f/2.0 B/W: 0 with IR	Color: 0.03 @ f/1.4 B/W: 0 with IR	Color: 0.03 @ f/1.4 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ f/2.5 (6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm option)	Fixed, 3.6 mm @ f/2.5 (6 mm, 12mm option)	Fixed, 2.8mm @ f/2.5 (3.6mm, 6mm option)	2.8 -12mm, motorized lens	2.8 -12mm, motorized lens
Horizontal Angle of View	82.2° (3.6mm), 54° (6mm)	103° (2.8mm), 82.2° (3.6mm), 54° (6mm)	103° (2.8mm), 82.2° (3.6mm)	82.2°(3.6mm), 54°(6mm), 24.3°(12mm)	103° (2.8mm), 82.2° (3.6mm), 54° (6mm)	35.1° to 114.5°	35.1° to 114.5°
Pan/Tilt/Rotation	0° to 340°/ 0° to 75°/0° to 355°	3-Axis Positioning	0° to 360°/ 0° to 75°/0° to 360°	3-Axis Positioning	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 75°/0° to 360°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	20	20	20	80	40	40	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-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 (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 6 W 24 VAC, 9 W	12 VDC, 6 W



TurboHD™ 3.0 ANALOG CAMERAS - 2 MP AND 3 MP

	INDOOR DOME	OUTDOOR DOME	OUTDOOR BULLET	OUTDOOR TURRET	OUTDOOR BULLET	OUTDOOR TURRET	OUTDOOR BULLET	OUTDOOR TURRET	INDOOR DOME	OUTDOOR DOME	
Model	DS-2CE56D7T-AITZ  NEW EXIR 2 MP	DS-2CE56D7T-AVPIT3Z  NEW EXIR 2 MP	DS-2CE56F7T-VPIT  NEW EXIR 3 MP	DS-2CE16F7T-IT  NEW EXIR 3 MP	DS-2CE56F7T-ITM  NEW EXIR 3 MP	DS-2CE16F7T-IT5  NEW EXIR 3 MP	DS-2CE56F7T-IT3  NEW EXIR 3 MP	DS-2CE16F7T-AIT3Z  NEW EXIR 3 MP	DS-2CE56F7T-IT3Z  NEW EXIR 3 MP	DS-2CE56F7T-AITZ  NEW EXIR 3 MP	DS-2CE56F7T-AVPIT3Z  NEW EXIR 3 MP
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	
Image Sensor	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	
HD-TVI Resolution	1920x1080	1920x1080	1920x1536	1920x1536	1920x1536	1920x1536	1920x1536	1920x1536	1920x1536	1920x1536	
CVBS Resolution	---	---	---	---	---	---	---	---	---	---	
Min. Illumination (lux)	Color: 0.03 @ f/1.4 B/W: 0 with IR	Color: 0.03 @ f/1.4 B/W: 0 with IR	Color: 0.045 @ f/2.0 B/W: 0 with IR	Color: 0.045 @ f/2.0 B/W: 0 with IR	Color: 0.045 @ f/2.0 B/W: 0 with IR	Color: 0.045 @ f/2.0 B/W: 0 with IR	Color: 0.045 @ f/2.0 B/W: 0 with IR	Color: 0.038 @ f/1.4 B/W: 0 with IR	Color: 0.038 @ f/1.4 B/W: 0 with IR	Color: 0.038 @ f/1.4 B/W: 0 with IR	
Lens	2.8 -12 mm, motorized lens	2.8 -12 mm, motorized lens	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm option)	Fixed, 3.6 mm @ f/2.5 (6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	2.8 -12mm, motorized lens	2.8 -12mm, motorized lens	2.8 -12mm, motorized lens	
Horizontal Angle of View	35.1° to 114.5°	35.1° to 114.5°	84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm)	84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm)	84° (2.8 mm), 67.8° (3.6 mm)	67.8° (3.6 mm), 44.6 (6 mm)	84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm)	26.8° to 83°	26.8° to 83°	26.8° to 83°	
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 340°/ 0° to 75°/0° to 355°	0° to 340°/ 0° to 75°/0° to 355°	3-Axis Positioning	0° to 360°/ 0° to 75°/0° to 360°	3-Axis Positioning	0° to 360°/ 0° to 75°/0° to 360°	3-Axis Positioning	0° to 360°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	
IR Range Max. (meters)	30	40	20	20	20	80	40	40	40	30	
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Ratings	UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	UL/cUL Listed	
Operating Temperature Range	-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 (-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)	
Power Requirements (max.)	12 VDC, 4.5 W 24 VAC, 6.5 W	12 VDC, 4.5 W 24 VAC, 6.5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 6W 24 VAC, 9W	12 VDC, 6W	12 VDC, 4.5W 24 VAC, 6.5W	

TurboHD™ ANALOG CAMERAS - 720p AND 1080p

	INDOOR BOX	INDOOR DOME	OUTDOOR DOME							
Model	DS-2CC12D9T-A	DS-2CE56C5T-AVFIR	DS-2CE56D5T-AVFIR*	DS-2CE56D5T-AIRZ	DS-2CE56D1T-AVFIR*	DS-2CE56D1T-VPIR*	DS-2CE56C5T-AVPIR3	DS-2CE56D1T-AVPIR3*	DS-2CE56D5T-AVPIR3*	DS-2CE56D5T-AVPIR3ZH
	 <i>*Lens NOT included</i> 1080p	 720p	 <i>*Black model available DS-2CE56D5T-AVFIRB</i> 1080p	 1080p	 <i>*Black model available DS-2CE56D1T-AVFIRB</i> 1080p	 <i>*Black model available DS-2CE56D1T-VPIRB</i> 1080p	 720p	 <i>*Black model available DS-2CE56D1T-AVPIR3B</i> 1080p	 <i>*Black model available DS-2CE56D5T-AVPIR3B</i> 1080p	 1080p
Video Out	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1920x1080	1280x720	1920x1080	1920x1080	1920x1080	1920x1080	1280x720	1920x1080	1920x1080	1920x1080
CVBS Resolution	600TVL	720TVL	600TVL	600TVL	---	---	720TVL	---	600TVL	600TVL
Min. Illumination (lux)	Color: 0.1 @ f/1.2 B/W: 0.0001 @ f/1.2	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4, B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	C/CS mount	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, manual	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized
Horizontal Angle of View	Dependent on lens	78° to 28°	92° to 32°	103° to 32.1°	105.2° to 32.8°	90° (2.8 mm), 80° (3.6 mm), 55.4° (6 mm)	78° to 28°	105.2° to 32.8°	92° to 32°	103° to 32.1°
Pan/Tilt/Rotation	---	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	No/Digital	Yes/120 dB	Yes/120 dB	Yes/No	Yes/No	No/Digital	Yes/No	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	---	30	30	30	30	20	40	40	40	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed
Operating Temperature Range	-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)	-20° C to 45° C (-4° F to 113° F)	-20° C to 45° C (-4° F to 113° F)	-40° C to 60° C (-40° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	12 VDC, 24 VAC, 4.5 W	12 VDC, 3.5 W 24 VAC, 5 W	12 VDC, 4.5 W 24 VAC, 6.5 W	12 VDC, 6 W 24 VAC, 6 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 3.5 W 24 VAC, 5 W	12 VDC, 24 VAC, 4 W	12 VDC, 4.5 W 24 VAC, 6.5 W	12 VDC, 9 W 24 VAC, 9 W



TurboHD Cameras Accessories: Video Balun DS-1H18. See page 33 for details.

OUTDOOR TURRET

	DS-2CE56C2T-IRM	DS-2CE56D1T-IRM* NEW	DS-2CE56D1T-IT1	DS-2CE56C5T-IT1	DS-2CE56D5T-IT3* NEW	DS-2CE56C5T-VFIT3	DS-2CE56D5T-VFIT3	DS-2CE56D5T-IR3Z
Model								
	720p	*Black model available DS-2CE56D1T-IRMB 1080p EXIR	1080p EXIR	720p EXIR	*Black model available DS-2CE56D5T-IT3B 1080p EXIR	720p EXIR	1080p EXIR	1080p
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HDTVI/CVBS (Dual)	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
Image Sensor	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1280x720	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1920x1080
CVBS Resolution	---	---	---	720TVL	600TVL	720TVL	600TVL	600TVL
Min. Illumination (lux)	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm, 8 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm, 12 mm, option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized
Horizontal Angle of View	76.88° (3.6 mm), 99.73° (2.8 mm), 50.1° (6 mm)	105° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	71.43° (3.6 mm), 92.45° (2.8 mm), 46.9° (6 mm), 34.5° (8 mm)	80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm)	78° to 28°	92° to 32°	103° to 32.1°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	No/No	Yes/No	Yes/No	No/Digital	Yes/120 dB	No/Digital	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	20	20	20	20	40	50	50	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-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)	-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)
Power Requirements (max.)	12 VDC, 3.5 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 5 W	12 VDC, 6 W	12 VDC, 7 W	12 VDC, 6 W



OUTDOOR BULLET






	DS-2CE16C2T-IR	DS-2CE16D1T-IR	DS-2CE16D1T-IT1	DS-2CE16C5T-IT1	DS-2CE16D5T-IT3	DS-2CE16C5T-VFIR3	DS-2CE16D1T-AVFIR3	DS-2CE16D5T-AVFIT3	DS-2CE16D5T-AIR3ZH	DS-2CE16D9T-AIRAZH
Model	 720p	 1080p	 EXIR 1080p	 EXIR 720p	 EXIR 1080p	 720p	 1080p	 EXIR 1080p	 1080p	 1080p
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (selectable)	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
Image Sensor	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1280x720	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1920x1080	1920x1080	1920x1080
CVBS Resolution	---	---	---	720TVL	600TVL	720TVL	---	600TVL	600TVL	600TVL
Min. Illumination (lux)	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm, 8 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm, 12 mm option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized	5 to 50 mm @ f/2.0 motorized
Horizontal Angle of View	76.88° (3.6 mm), 99.73° (2.8 mm), 50.1° (6 mm)	90° (2.8 mm), 80° (3.6 mm), 55.4° (6 mm)	90° (2.8 mm), 80° (3.6 mm), 55.4° (6 mm)	71.43° (3.6 mm), 92.45° (2.8 mm), 46.9° (6 mm), 34.5° (8 mm)	80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm)	78° to 28°	102° to 35°	92° to 32°	103° to 32.1°	59.8° to 6.2°
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	No/No	Yes/No	Yes/No	No/Digital	Yes/120 dB	No/Digital	Yes/No	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	20	20	20	20	40	40	40	50	40	100
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-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)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	12 VDC, 3.5 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 5 W	12 VDC, 4 W	12 VDC, 24 VAC, 6 W	12 VDC, 7 W 24 VAC, 10 W	12 VDC, 12 W 24 VAC, 12 W	12 VDC, 20 W 24 VAC, 20 W



	INDOOR	OUTDOOR	INDOOR	OUTDOOR	OUTDOOR IR	OUTDOOR IR	
	DS-2AE4223T-A3	DS-2AE4223T-A	DS-2AE5230T-A3	DS-2AE5123T-A	DS-2AE5230T-A	DS-2AE5123TI-A	DS-2AE7230TI-A
Model	 1080p	 1080p	 1080p	 720p	 1080p	 720p	 1080p
Video Out	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.05 @ f/1.4 B/W: 0.005 @ f/1.4, 0 with IR	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6, 0 with IR
HD-TVI Resolution	1920x1080	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080
CVBS Resolution	600TVL	600TVL	600TVL	600TVL	600TVL	600TVL	600TVL
Lens	4 to 92 mm, motorized zoom, autofocus	4 to 92 mm, motorized zoom, autofocus	4 to 120 mm, motorized zoom, autofocus	4 to 92 mm, motorized zoom, autofocus	4 to 120 mm, motorized zoom, autofocus	4 to 92 mm, motorized zoom, autofocus	4 to 120 mm, motorized zoom, autofocus
Horizontal Angle of View	49° to 2.2°	49° to 2.2°	58° to 1.7°	49° to 2.2°	58° to 1.7°	49° to 2.2°	58° to 1.7°
Optical Zoom	23x	23x	30x	23x	30x	23x	30x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 400°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
Pan & Tilt Speed (Preset)	Pan: 160°/sec. Tilt: 120°/sec.	Pan: 160°/sec. Tilt: 120°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 400°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	No/Digital
IR Range Max. (meters)	---	---	---	---	---	150	120
Presets/Tours/Patterns	256/8/4	256/8/4	256/8/4	256/8/4	256/8/4	256/8/4	256/8/4
Up-the Coax Control	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C
RS485 Control	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P
Ratings	UL/cUL Listed	IP66, UL/cUL Listed	UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-10° C to 50° C (14° F to 122° F)	-30° C to 65° C (-22° F to 149° F)	-10° C to 50° C (14° F to 122° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)
Power Requirements (max.)	24 VAC, 12 W	24 VAC, 18 W/12 W (heater on/off)	24 VAC, 12 W	24 VAC, 20 W/12 W (heater on/off)	24 VAC, 20 W/12 W (heater on/off)	24 VAC, 20 W/12 W (heater on/off)	24 VAC, 40 W

Tribrid DVRs detect CVBS, TVI, and IP cameras

The new DS-7200HUHI series of TurboHD DVRs supports all the new 3 MP TurboHD cameras in models with 4, 8, and 16 channel inputs. Now, razor sharp images at 1920x1536 resolution can be displayed and recorded with HD quality. These tribrid DVRs can auto-detect a standard analog (CVBS), TVI camera, and an IP camera input of up to 4 MP. They also support Hikvision's unique H.264+ video compression, and they include great features ranging from front panel controls to real-time recording and a 24TB internal recording capability.

	TurboHD™ TRIBRID DVR - VALUE SERIES			TurboHD™ 3.0 TRIBRID DVR - VALUE SERIES	
	DS-7204HGHI-SH	DS-7208HGHI-SH	DS-7216HGHI-SH	DS-7204HUHI-F1/N	DS-7208HUHI-F2/N
Model				 NEW	 NEW
Max. Recording Resolution	1080p	1080p	1080p	3MP	3MP
Video Compression	H.264	H.264	H.264	H.264+	H.264+
HDMI/VGA Output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, synchronous output	1920 x 1080, VGA 3840 x 2160, HDMI, synchronous output
Spot Monitor Output (BNC)	---	---	---	Yes	Yes
Analog Input	4-Ch 1.0 Vp-p, 75 Ω	8-Ch 1.0 Vp-p, 75 Ω	16-Ch 1.0 Vp-p, 75 Ω	4-Ch 1.0 Vp-p, 75 Ω	8-Ch 1.0 Vp-p, 75 Ω
Video Standard	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)
Audio Input/Output	1-ch/1-ch	1-ch/1-ch	1-ch/1-ch	4-ch/1-ch	4-ch/1-ch
Alarm Input/Output	4/1	8/4	16/4	4/1	8/4
USB 2.0	2	2	2	2	Front panel: 1 x USB 2.0, Rear panel: 1 x USB 3.0
RAID Support	---	---	---	---	---
Internal SATA	1 (up to 6 TB each)	2 (up to 6 TB each)	2 (up to 6 TB each)	1 (up to 6 TB each)	2 (up to 6 TB each)
Max. Internal Storage	6 TB	12 TB	12 TB	6 TB	12 TB
Support DVD-RW	---	---	---	---	---
Max. fps 720p/1080p/3 MP HD-TVI	30/12	30/12	30/12	30/30/15	30/30/15
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	---	---	---	Yes	Yes
Hikvision IP Camera Support	1 up to 1080p	2 up to 1080p	2 up to 1080p	2 up to 4MP	2 up to 4MP
Front Panel Control	---	---	---	Yes	Yes
OSD Menu-Up-the-Coax	Yes	Yes	Yes	Yes	Yes
eSATA Interface	---	---	---	---	---
Turbo Channel VCA (Video Content Analysis) ⁶	Up to 1 channel support	Up to 1 channel support	Up to 1 channel support	Up to 2 channel support	Up to 2 channel support
Smart Play	Yes	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	60	96	128	60	128
Max. Network Streams	128	128	128	128	128
User Names	32	32	32	32	32
Remote User Logins	128	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	1	1	1	1	1
Power Requirements	12 VDC, ≤15 W without HDD	12 VDC, ≤20 W without HDD	12 VDC, ≤20 W without HDD	12 VDC, ≤15 W without HDD	12 VDC, ≤20 W without HDD

Standards: Complies with ONVIF (Profile S), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P protocols
⁶Tribrid Smart Suite: Line Crossing, Intrusion Detection. Turbo channels; VCA supported from Hikvision IP cameras.

TurboHD™ 3.0 TRIBRID DVR - VALUE SERIES TurboHD™ TRIBRID DVR - PRO SERIES

Model	DS-7216HUHI-F2/N	DS-7308HQHI-SH	DS-7316HQHI-SH	DS-7332HGHI-SH	DS-9008HQHI-SH	DS-9016HQHI-SH
						
Max. Recording Resolution	3MP	1080p	1080p	1080p	1080p	1080p
Video Compression	H.264+	H.264	H.264	H.264	H.264	H.264
HDMI/VGA Output	1920 x 1080, VGA 3840 x 2160, HDMI, synchronous output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output
Spot Monitor Output (BNC)	Yes	Yes	Yes	---	Yes	Yes
Analog Input	16-Ch 1.0 Vp-p, 75 Ω	8-Ch 1.0 Vp-p 75 Ω	16-Ch 1.0 Vp-p 75 Ω	32-Ch 1.0 Vp-p 75 Ω	8-Ch 1.0 Vp-p 75 Ω	16-Ch 1.0 Vp-p 75 Ω
Video Standard	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)
Audio Input/Output	4-ch/1-ch	4-ch/2-ch	4-ch/2-ch	4-ch/1-ch	8-ch/2-ch	16-ch/2-ch
Alarm Input/Output	16/4	16/4	16/4	16/4	16/4	16/4
USB 2.0	Front panel: 1 x USB 2.0, Rear panel: 1 x USB 3.0	3	3	3	3	3
RAID Support	---	---	---	---	RAID 0, RAID 1, RAID 5, RAID 10 (up to 16TB)	RAID 0, RAID 1, RAID 5, RAID 10 (up to 16TB)
Internal SATA	2 (up to 6 TB each)	4 (up to 6 TB each)	4 (up to 6 TB each)	4 (up to 6 TB each)	8 (up to 6 TB each)	8 (up to 6 TB each)
Max. Internal Storage	12 TB	24 TB	24 TB	24 TB	48 TB	48 TB
Support DVD-RW	---	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 4x SATA	Yes, replaces 4x SATA
Max. fps 720p/1080p/3 MP HD-TVI	30/30/15	30/30	30/30	30/12	30/30	30/30
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	Yes	Yes	Yes	Yes	Yes	Yes
Hikvision IP Camera Support	2 up to 4MP	2 up to 1080p (up to 10 ch if HD-TVI channels disabled)	2 up to 1080p (up to 10 ch if HD-TVI channels disabled)	8 up to 1080p (up to 32 ch if HD-TVI channels disabled)	10 up to 6 MP (up to 18 if HD-TVI channels disabled)	18 up to 6 MP (up to 32 if HD-TVI channels disabled)
Front Panel Control	Yes	Yes	Yes	Yes	Yes	Yes
OSD Menu-Up-the-Coax	Yes	Yes	Yes	Yes	Yes	Yes
eSATA Interface	---	Yes	Yes	Yes	Yes	Yes
Turbo Channel VCA (Video Content Analysis) ⁶	Up to 2 channel support	Up to 2 channel support	Up to 2 channel support	Up to 1 channel support	Up to 2 channel support	Up to 2 channel support
Smart Play	Yes	Yes	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	128	200	200	200	160 (160 with RAID)	260 (260 with RAID)
Max. Network Streams	128	128	128	128	128	128
User Names	32	32	32	32	32	32
Remote User Logins	128	128	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	1	1.5	1.5	1.5	2	2
Power Requirements	12 VDC, ≤20 W without HDD	100 to 240 VAC, 50 to 60 Hz, ≤40 W without HDD	100 to 240 VAC, 50 to 60 Hz, ≤55 W without HDD	100 to 240 VAC, 50 to 60 Hz, ≤65 W without HDD	100 to 240 VAC, 47 to 63 Hz, ≤45 W without HDD	100 to 240 VAC, 47 to 63 Hz, ≤65 W without HDD

Standards: Complies with ONVIF (Profile S), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P protocols
⁶Tribrid Smart Suite: Line Crossing, Intrusion Detection. Turbo channels; VCA supported from Hikvision IP cameras.

ENCODERS AND DECODERS

ENCODER

DECODER

	DS-6701HWI	DS-6704HWI	DS-6708HWI	DS-6716HWI	DS-6708HQHI-SATA	DS-6716HQHI-SATA	DS-6401HDI-T	DS-6404HDI-T	DS-6408HDI-T
Model									
Frame Rate (fps)	30	30	30	30	30	30	Per video input	Per video input	Per video input
Multi-Streaming	Yes	Yes	Yes	Yes	Yes	Yes	1 video output	4 video outputs	8 video outputs
Video Input	1-ch, BNC (1.0 Vp-p, 75 Ω)	4-ch, BNC (1.0 Vp-p, 75 Ω)	8-ch, BNC (1.0 Vp-p, 75 Ω)	16-ch, BNC (1.0 Vp-p, 75 Ω)	8-ch, BNC (1.0 Vp-p, 75 Ω)	16-ch, BNC (1.0 Vp-p, 75 Ω)	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP
Video Output	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	1 HDMI, 1 VGA, 1 BNC	4 HDMI, 4 VGA, 2 BNC (via DB-15 connector)	8 HDMI, 8 VGA, 4 BNC (via DB-15 connector)
Network Interface	1 RJ-45 10/100 Mbps Ethernet (PoE)	1 RJ-45 10/100 Mbps Ethernet (PoE)	1 RJ-45 10/100/1000 Mbps Ethernet	1 RJ-45 10/100/1000 Mbps Ethernet	1 RJ-45 10/100/1000 Mbps Ethernet	1 RJ-45 10/100/1000 Mbps Ethernet	1 10/100/1000 Mbps Ethernet	1 10/100/1000 Mbps Ethernet	1 10/100/1000 Mbps Ethernet
Storage	---	---	---	---	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	---	---	---
Audio Input/Output	1 line in/1 line out	4 line in/1 line out	8 line in/1 line out	16 line in/1 line out	4 line in/1 line out	4 line in/1 line out	1 line in/1 line out	4 line in/4 line out	8 line in/8 line out
Voice Talk Input	1-ch	1-ch	1-ch	1-ch	---	---	1-ch	1-ch	1-ch
Alarm Input/Output	1/1	4/2	8/4	16/4	8/4	16/4	4/4	4/4	4/4
RS-232	---	Yes	Yes	Yes	---	---	Yes	Yes	Yes
RS-485	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resolution In	WD1 (960H)/4CIF/2CIF/CIF/qCIF	WD1 (960H)/4CIF/2CIF/CIF/qCIF	WD1 (960H)/4CIF/2CIF/CIF/qCIF	WD1 (960H)/4CIF/2CIF/CIF/qCIF	HD-TVI: 8-ch 30fps @ 1080p and 720p	HD-TVI: 16-ch 30fps @ 1080p and 720p	---	---	---
Resolution Out	---	---	---	---	---	---	5 MP: 2-ch, 1080p; 4-ch 720p; 8-ch, 4CIF: 16-ch	5 MP: 4-ch, 1080p; 8-ch 720p; 16-ch, 4CIF: 32-ch	5 MP: 8-ch, 1080p; 16-ch 720p; 32-ch, 4CIF: 64-ch
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Power Requirements	12 VDC, ≤5 W	12 VDC, ≤7 W	12 VDC ≤10 W	12 VDC ≤22 W	12 VDC ≤30 W without HDD	12 VDC ≤45 W without HDD	12 VDC ≤15 W	100 to 240 VAC ≤70 W	100 to 240 VAC ≤70 W

Standards: Complies with ONVIF (Profile S), CGI ASAPI contact for factory details: Command Protocols: Hikvision and Pelco D/P protocols

ACCESSORIES

MONITORS

	DS-D5042FL	DS-D5032FL	DS-D5021FC
Model			
Bezel Material	Metal	Metal	Plastic
Working Time	7x24 h	7x24 h	7x24 h
Display Type	LED-Backlit TFT LCD	LED-Backlit TFT LCD	LED-Backlit TFT LCD
Screen Size	42"	32"	20.7"
Pixel Pitch (HxV)	0.807 mm x 0.807 mm	0.807 mm x 0.807 mm	0.2385 mm x 0.2385 mm
Max. Resolution	1920x1080p	1920x1080p	1920x1080p
Brightness	400cd/m ² (Typical)	400cd/m ² (Typical)	200cd/m ² (Typical)
Contrast	4000:1	4000:1	600:1
Response Time	8 ms	8 ms	3.5 ms
Color	16.7 M	16.7 M	16.7 M
Viewing Angle	Horizontal 178°, Vertical 178°	Horizontal 178°, Vertical 178°	Horizontal 170°, Vertical 160°
Inputs	1x HDMI, VGA, DVI, BNC, USB	1x HDMI, VGA, DVI, BNC, USB	1x HDMI, VGA, BNC
Audio input	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack
Audio Out	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack	—
Speaker	3 W x 2	3 W x 2	2 W x 2
Ratings	CE, FCC	CE, FCC	CE, FCC
Power Supply	100-220 VAC, 50/60 Hz	100-220 VAC, 50/60 Hz	100-220 VAC, 50/60 Hz
Power Consumption	140 W (Normal working), 1 W (Standby)	75 W (Normal working), 1 W (Standby)	30 W (Normal working), 5 W (Standby)
Operation Temperature	0° C to 40° C	0° C to 40° C	0° C to 40° C
Operating Humidity	10% to 85% (No Condensation)	10% to 85% (No Condensation)	10% to 85% (No Condensation)
Storage Temperature	-20° C to 55° C	-20° C to 55° C	-20° C to 60° C
VESA Mount	Not VESA compliant 394 mm x 307 mm	200 mm x 200 mm	100 mm x 100 mm
Table Mount	190109090	190109088	Included
Wall Mount	190108462	190112360	190112560
Dimension (WxHxD)	962.2 x 570.5 x 71.55 mm (37.9" x 22.5" x 2.8")	737.4 x 452.5 x 70.65 mm (29" x 17.8" x 2.78")	491.55 x 301.12 x 53.54 mm (19.35 x 11.86" x 2.1")
Weight	28 Kg (62 lbs)	19 Kg (42 lbs)	4.0 Kg (9 lbs)

HD-TVI JOYSTICK

HD-TVI MONITOR

HD-TVI CONVERTER

BALUN

	DS-1045	DS-TT-X41T	DS-1H33	DS-1H18
Model				
Description	HD-TVI Joystick Controller	Multifunction Video Tester, test a variety of video signals, including TurboHD, HDMI, CVBS, and VGA.	Converter from HD-TVI video signal to HDMI signal	Unshielded twisted pair (UTP) Baluns







KEYBOARDS

	DS-1003KI	DS-1005KI	DS-1100KI
Model			
RS-485	Yes	No	Yes
USB	No	Yes	Yes
Interface Port	RS-485	USB 2.0	RS-232, RS-485, RJ-45, USB 2.0
Control	Serial	Serial	TCP/IP
Audio	N/A	N/A	IN: 1 line OUT: 1 line
Decoding	N/A	N/A	1-ch @ 1080p
LCD Screen	5" x 2.5"	N/A	7" TFT touchscreen at 800 x 480 resolution
Joystick	3-Axis	3-Axis	3-Axis
Resolution	N/A	N/A	1920x1080
Network	N/A	N/A	Yes
Power Requirements	12 VDC (<10 W)	5 VDC via USB (≤5 W)	12 VDC (<15 W)

ACCESSORIES

PoE GIGABIT L2.5 ETHERNET SWITCHES

PoE UNMANAGED SWITCHES

	DS-3D2208P	DS-3D2228P	DS-3E0105P-E	DS-3E0109P-E	DS-3E0318P-E	DS-3E0326P-E
Model						
Ports	8p 10/100 Base-T, 2p 10/100/1000 Base-T, 2p 1000Mbps SFP, 1p console	24p 10/100 Base-T, 4p 10/100/1000 Base-T, 4p 1000Mbps SFP, 1p console	4p 10/100 Base-T, 1 uplink 10/100	8p 10/100 Base-T, 1uplink 10/100	16p 10/100 Base-T, 2 uplinks10/100/1000	24p 10/100 Base-T, 2 uplinks 10/100/1000
Forwarding	4.2 Mpps	9.6 Mpps	0.74Mpps	1.34Mpps	5.36Mpps	6.55Mpps
Backplane	5.6 Gbps	12.8 Gbps	1Gbps	1.8Gbps	7.2Gbps	8.8Gbps
PoE Budget	170 W (8 PoE or 4 PoE+)	400 W (24 PoE or 12 PoE+)	58W	123W	230W	370W
PoE Support	8 ports 802.3af (up to 15.4 W/port) or 5 ports 802.3at (up to 30 W/port)	24 ports 802.3af (up to 15.4 W/port) or 12 ports 802.3at (up to 30 W/port)	4 ports 802.3af (up to 15.4 W/port) or 2 ports 802.3at (up to 30 W/port)	8 ports 802.3af (up to 15.4 W/port) or 4 ports 802.3at (up to 30 W/port)	16 ports 802.3af (up to 15.4 W/port) or 8 ports 802.3at (up to 30 W/port)	24 ports 802.3af (up to 15.4 W/port) or 12 ports 802.3at (up to 30 W/port)
Standards	STP (IEEE 802.1D), RSTP (IEEE802.1w), MSTP (802.1S), VLAN (802.1Q), QinQ, GVRP, MULTICAST (IGMP SNOOPING V1/V2/V3),LACP, SNMP (V1/V2), RMON (GROUP 1/2/3/9) TELNET, SNTP, QOS. 1EEE802.1X, ACL (IP/MAC/VLAN), DHCP SNOOPING, DAI, ARP PREVENTION (STATIC/DYNAMIC), RADIUS, SSH.	STP (IEEE 802.1D), RSTP (IEEE802.1w), MSTP (802.1S), VLAN (802.1Q), QinQ, GVRP, MULTICAST (IGMP SNOOPING V1/V2/V3),LACP, SNMP (V1/V2), RMON (GROUP 1/2/3/9) TELNET, SNTP, QOS. 1EEE802.1X, ACL (IP/MAC/VLAN), DHCP SNOOPING, DAI, ARP PREVENTION (STATIC/DYNAMIC), RADIUS, SSH.	Unmanaged, Plug-and-play installation IEEE802.3x full duplex, Optimized packet buffering (2.75M) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)	Unmanaged, Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-2 (if switch is over capacity, 94 of 100 packets will route first here)	Unmanaged, Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-4(if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)	Unmanaged, Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-4(if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)
Operating Temperature Range	0° C to 50° Cw	0° C to 50° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C
Power Requirements	110 to 240 VAC, 170 W	110 to 240 VAC, 400 W	110 to 240 VAC, 170 W	110 to 240 VAC, 400 W	110 to 240 VAC, 170 W	110 to 240 VAC, 400 W

ETHERNET OVER COAX

	DS-1H05-T	DS-1H05-R	DS-1H05-8R	DS-1H05-16R
Model				
Input Interface	RJ-45 interface and BNC	BNC	8 - BNC	16 - BNC
Output Interface	BNC	RJ-45 Interface and BNC	4 - RJ-45 Interface	4 - RJ-45 Interface
Maximum Bandwidth (Mbps)	36 (downstream)	11 (upstream)	11 (upstream)	11 (upstream)
Distance	Up to 1,500 feet with RG6/U cable	Up to 1,500 feet with RG6/U cable	Up to 1,500 feet with RG6/U cable	Up to 1,500 feet with RG6/U cable
Dimensions	80 x 96 x 27 mm	80 x 96 x 27 mm	440 x 44.5 x 195 mm	440 x 44.5 x 195 mm
Operating Conditions (max.)	-10° C to +55° C	-10° C to +55° C	-10° C to +55° C	-10° C to +55° C
Power Requirements (max.)	12 VDC, PSU included, 5 W (does not power camera)	12 VDC, PSU included, 5 W (does not power camera)	12 VDC, PSU included, 5 W (does not power camera)	12 VDC, PSU included, 5 W (does not power camera)

MEGAPIXEL AUTO IRIS LENSES

	TV0515D-MPIR	YV2.8x2.8SR4A-SA2	YV3.3x15SR4A-SA2L	DV4x12.5SR4A-SA1	TV2712D-MPIR	TV0550D-MPIR
Model						
Specifications	1.3 MP, 1/3" imager size, IR, auto iris, 5 to 15 mm, f/1.4, manual zoom, CS mount	3.0 MP, 1/2.7" imager size, auto iris, 2.8 to 8 mm, f/1.3, manual zoom, CS mount	3.0 MP, 1/2.7" imager size, auto iris, 15 to 50 mm, f/1.5, manual zoom, CS mount	5.0 MP, 1/1.8" imager size, auto iris, 12.5 to 50 mm, f/ 1.6, manual zoom, C mount	3.0 MP, 1/2.7" imager, 2.7 to 12 mm, f/1.2, manual zoom, CS mount	3.0 MP, 1/2.7 imager, 5 to 50 mm, f/1.7, manual zoom, CS mount
Model						
Specifications	3.0 MP, 1/1.8 sensor, auto iris, IR, 4 to 15.2 mm, f/1.5, manual zoom, C mount	5.0 MP, 1/1.8 sensor, auto iris, IR, 12.5 to 50 mm, f/1.6, manual zoom, C mount	Lens, 6 MP 1/1.8 sensor, auto iris, 7-33mm, f/0.95, manual zoom, CS Mount	4K, 1/1.8" sensor, auto iris, 11 to 40 mm, f/1.5, IR, manual zoom, CS mount	4K, 1/1.8" sensor, 3.8 to 16 mm, f/1.5, IR, manual zoom, CS mount	

ACCESSORIES










STORAGE PRODUCTS

	DS-A81016S	DS-A82024D
Model	 NEW	 NEW
Controller/Processor	Single, 64-bit multi-core processor	Double, 64-bit multi-core processor
High-speed buffer	4 GB (expandable to 8G)	4 GB (expandable to 8G)
Video Input/Output	IPSAN: 180-ch (2 Mbps) CVR:320-ch (2 Mbps)	IPSAN: 256-ch (2 Mbps) CVR:448-ch (2 Mbps)
Operating system	Windows, Linux, Solaris, HP-UX, AIX, MacOS	Windows, Linux, Solaris, HP-UX, AIX, MacOS
HDD slot	16	24
HDD interface	SATA /1 TB, 2 TB, 3 TB, 4 TB	SAS/1 TB, 2 TB 3 TB 4 TB, (SSD is optional)
Hot-swap disk	Supported	Supported
RAID level	RAID 0, 1, 3, 5, 6,10,50, JBOD, Hot-Spare	RAID 0, 1, 3, 5, 6,10,50, JBOD, Hot-Spare
Disk management	S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)	S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
LUN management	iSCSI Volume, Record Volume	iSCSI Volume, Record Volume
Data protection	Real-time backup of system information, LUN clone	Real-time backup of system information, LUN clone
Recording type	Continuous/Manual / Main and Sub Stream/ Motion /Sensor, etc.	Continuous/Manual / Main and Sub Stream/ Motion /Sensor, etc.
Recording backup	Local backup; Remote backup	Local backup; Remote backup
Recording protection	Lock key video file for protection, N+1 hot spare system, ANR, video loss alarm	Lock key video file for protection, N+1 hot spare system, ANR, video loss alarm
Search mode	By time / type	By time / type
Download mode	Quick download, batch download, segment download, merging download	Quick download, batch download, segment download, merging download
Device Management method	Web-based GUI, CLI serial port, integrated management of multiple units	Web-based GUI, CLI serial port, integrated management of multiple units
Alarm type	Sound, Flash LED, Email, SMS, Warning on device management page	Sound, Flash LED, Email, SMS, Warning on device management page
Log download	Auto-download by USB flash drive, Remote backup via web browsing	Auto-download by USB flash drive, Remote backup via web browsing
Network Protocol	RTSP / ONVIF / PSIA / iSCSI	iSCSI/ NFS/ CIFS/ FTP/ HTTP/ AFP/ FCP
External data port	6x1000M self-adaptive Ethernet interface	4x1000M self-adaptive Ethernet interface
Management port	1x100M self-adaptive Ethernet interface	1x100M self-adaptive Ethernet interface
SAS expansion port	1 (6 Gbps)	1 (6 Gbps)
VGA output	1	1
COM interface	2 (1 for hyper terminal and 1 for mobile phone alarm/UPS)	2 (1 for hyper terminal and 1 for mobile phone alarm/UPS)
USB interface	2	2
Power Supply	Redundant (1+1); single power available	Redundant (1+1); single power available
Power consumption	Max. 460 W (with HDD, redundant power); Max. 400 W (with HDD, single power)	Working Consumption: ≤ 380 (with HDD or DVD/RW) Rating Power Consumption: ≤ 1050W
Temperature	Operating: 5°-40°; Storage: -20°-70°	Operating 5 °C~40 °C Storing: -20 °C~70 °C

STORAGE EXPANSION

	DS-AJ6816S	DS-AJ6824D
Model	 NEW	 NEW
Controller	Single Controller	Double Controller
SAS interface (Upper-level)	1 (6 Gbps)	2 (6 Gbps)
SAS Interface (Lower-level)	1 (6 Gbps)	1 (6 Gbps)
HDD Interfaces	16	24
HDD Interface Type	SAS	SAS
Hot Swap HDD	Supported	Supported
Power	Redundant (1+1)	Redundant (1+1)
Applicable Models	DS-A81016S	DS-A82024D
Power Consumption	≤ 550 W (with HDD's)	≤ 550 W (with HDD's)
Working Temperature	5°C ~ 40°C (41°F ~ 104°F)	5°C ~ 40°C (41°F ~ 104°F)

SURVEILLANCE GRADE HARD DRIVES

	HK-HDD1T	HK-HDD2T	HK-HDD3T	HK-HDD4T	HK-HDD6T	HK-HDD1T-E	HK-HDD2T-E	HK-HDD3T-E	HK-HDD4T-E
Model									
Capacity	1 TB	2 TB	3 TB	4 TB	6 TB	1 TB	2 TB	3 TB	4 TB
Interface	SATA	SATA	SATA	SATA	SATA	SATA 6 Gb/sec.	SATA 6 Gb/sec.	SATA 6 Gb/sec.	SATA 6 Gb/sec.
Classification	Audio/Video	Audio/Video	Audio/Video	Audio/Video	Audio/Video	Audio/Video	Audio/Video	Audio/Video	Audio/Video
Operation	24/7 continuous	24/7 continuous	24/7 continuous	24/7 continuous	24/7 continuous	24/7 continuous	24/7 continuous	24/7 continuous	24/7 continuous

ENTERPRISE HARD DRIVES

HDD FOR STORAGE PRODUCTS

DVD-RW

MICRO SD CARD

	HDD-SAS4T	HIK-DVDRW	DS-UTF32GI-H1	DS-UTF64GI-H1
Model	 NEW			
Description	HDD for DS-A81016S, DS-A82024D, DS-AJ6816S, DS-AJ6824D	DVD-RW option for NVR and DVR	32 GB uSD	64 GB uSD

ACCESSORIES

PTZ BRACKETS

STAINLESS STEEL BRACKETS

	WMP-S	WMP-L	CMP	PMP	JBP-W	PMPL	CMPL	CPM-S	CPM-L	CPMPE	RPM	WBPT-S	WBPT	WMP-SS	CPM-SS	WMS-SS	JBM-SS
Model																	
Description	Short wall mount for 4" PTZ	Wall Mount PTZ-Long	Corner Mount for WMP-L and WMP-S	Pole Mount for WMP-L and WMP-S	PTZ Junction box with wall bracket	Pole Mount Large (for JBP-W)	Corner Mount Large (for JBP-W)	Ceiling Pendant Mount-Short	Ceiling Pendant Mount-Long	Ceiling Pendant Mount, extension pipe 1.5" diameter	Roof Parapet Mount	Wall Mount for DS-2DY5223IW-AE Upright PTZ	Wall Mount for DS-2DY9xxx Series Upright PTZs	Pendant Wall Mount for DS-2DT6223-AELY	Pendant Ceiling Mount for DS-2DT6223-AELY	Pendant Wall Mount for DS-2CD6626DS-IZHS	Medium Junction Box

*PTZ brackets are for series; DS-2AE5xxx; DS-2AE7xxx; DS-2DE4xxx; DS-2DE5xxx; DS-2DE6xxx; DS-2DE7xxx; DS-2DF5xxx; DS-2DF6xxx; DS-2DF8xxx

CAMERA HOUSING

BOX CAMERA BRACKETS

UNIVERSAL BRACKET FOR PENDANT CAPS

	CHB	CHB-HBW	CHB-HB	WBS	WBL	CPM	CPME	WMS*	WML	RPM	PM	CM
Model												
Description	Camera Housing with Bracket	Camera Housing with Bracket, Heater, Blower, Wiper	Camera Housing with Bracket, Heater, Blower	Suitable for box camera, wall Mount	Suitable for box camera and housing, wall mount	Camera Ceiling Pendant Mount	Camera Ceiling Pendant Mount, Extension Pipe 1" diameter	Short Wall Mount, junction box	Long Wall Mount, junction box	Roof Parapet Mount	Pole Mount Adapter	Corner Mount Adapter

SUN/RAIN SHIELD

DVR/NVR

CAMERA BRACKETS

	SRS	SRSM	SRSL	WMR*	PC110*	PC110T*	PC120*	PC130*	PC130T*	PC135*	PC140*	PC140PT	PC160	PC165	PC210	PC-FE	CB110*	CB-130	CB135*	CB140PT	CB165
Model																					
Description	Wall mount dome rain and sun protection	Medium for outdoor dome rain and sun protection	Large for outdoor dome rain and sun protection	Wall Mounted Bracket for DVR/NVR	110 mm Pendant Cap	110TRS Pendant Cap	120 mm Pendant Cap	130 mm Pendant Cap	130TRL Pendant Cap	135 mm Pendant Cap	140 mm Pendant Cap	140 mm Pendant Cap for DS-2DE3304W-DE	160 mm Pendant Cap	165 mm Pendant Cap	210mm Pendant Cap for DS-2CD6986F-H	Pendant Cap for fisheye	Conduit Base	Conduit Base	Conduit Base	Conduit Base for DS-2DE3304W-DE	Conduit Base

Compatible with WMS and WML

Compatible with WML

*Wall Mounted Bracket for DVR/NVR is compatible with DS-7608NI-E2/8P and DS-7616NI-E2/16P

CAMERA BRACKETS

	CB-FE	CBM	CBS*	CBXS*	CBT-1	AB110*	AB135*	AB165	AB-FE	AB-FE2	AB-FE45*	ABS*	ABM	RCM-1*	RCM-2*	RCM-3*	RCM-4	WM-C	WM110*	GP100
Model																				
Description	Conduit base for Fisheye	Conduit Base	Conduit Base	Conduit Base	Conduit Base	Angled Base	Angled Base	Angled Base	Angled Base for Fisheye	Angled Base for Fisheye	45° Angled Wall Mount for Fisheye	ABS Angled Base	Angled Base	Recessed ceiling mount	Recessed ceiling mount	Recessed ceiling mount	Recessed ceiling mount*	Wall Mount Compact	Plastic Wall Mount	Single Gang Plate

*Recessed ceiling mount for DS-2DE3304W-DE

BRACKET CHART

Camera Model	PENDANT CAP								CONDUIT BASE								ANGLED BASE								RECESSED CEILING MOUNT				WALL MOUNT		SUN/RAIN SHADE			GP													
	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC140PT	PC160	PC210	PC-FE	PC165	CB110	CB130	CB135	CB140PT	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	AB-FE45	ABM	ABS	RCM-1	RCM-2	RCM-3	RCM-4	WM-C	WM110	SRS	SRSL	SRSIM	GP100							
PROFESSIONAL SOLUTIONS																																															
DS-2CD41xxFxx-IZ				●										●										●																●	●						
DS-2CD42xxFxx-IZHx*													●																													●	●				
DS-2CD43xxFWD-IZHSx								●																																		●	●				
DS-2CD45xxFxx-IZHx											●															●																					
DS-2CD4AxxFxx-IZHx*													●								●																										
DS-2CD63xxFxx-lx										●									●								●		●																		
DS-2CD6W32FWD-IVS																																															
DS-2CD6986F-H									●																																						
VALUE PLUS SOLUTIONS																																															
DS-2CD20xxWD-I																																															
DS-2CD21xxFWD-IS	●												●											●																		●	●		●		
DS-2CD23x2WD-I																				●																											
DS-2CD25x2FWD-IS				●																																											
DS-2CD26x2FWD-IZS*														●																																	
DS-2CD27x2FWD-IZS															●																												●	●			
DS-2CD2Tx2WD-I														●																																	
VALUE SOLUTIONS																																															
DS-2CD20xx-I																																															
DS-2CD21x2F-I	●												●											●																		●	●		●		
DS-2CD22x2-I5																																															
DS-2CD23x2-I																																															
DS-2CD25xxF-xx				●																																											
DS-2CD26x2F-I*															●																																
DS-2CD27x2F-I																																															
DS-2CD2942F-IS																																															
PTZ CAMERA																																															
DS-2DE2103-DE3/W																																															
DS-2DE2202I-DE3/W																																															
DS-2DE3304W-DE																																															
WI-FI SOLUTIONS																																															
DS-2CD21x2F-IWS	●												●																																		
DS-2DE2103-DE3/W																																															
DS-2DE2202I-DE3/W																																															
DS-2CD25x2FWD-IWS				●																																											

*Includes CB130 conduit base
GP = Gang Plate

BRACKET CHART

TurboHD™ | ANALOG MIGRATION SOLUTIONS

Camera Model	PENDANT CAP													CONDUIT BASE								ANGLED BASE							RECESSED CEILING MOUNT				WALL MOUNT		SUN/RAIN SHADE			GP												
	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC140PT	PC160	PC210	PC-FE	PC165	CB110	CB130	CB135	CB140PT	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	AB-FE45	ABM	ABS	RCM-1	RCM-2	RCM-3	RCM-4	WM-C	WM110	SRS	SRL	SRLM	GP100										
DS-2CE16C2T-IR																																																		
DS-2CE16C5T-IT1																																																		
DS-2CE16C5T-VFIR3																																																		
DS-2CE16xxT-xxxxxx																																																		
DS-2CE16D1T-IT1																																																		
DS-2CE16D1T-IR																																																		
DS-2CE16D5T-IT3																																																		
DS-2CE16D9T-AIRAZH																																																		
DS-2CE56C2T-IRM																																																		
DS-2CE56C5T-AVFIR																																																		
DS-2CE56C5T-AVPIR3																																																		
DS-2CE56C5T-IT1																																																		
DS-2CE56C5T-VFIT3																																																		
DS-2CE56D1T-AVFIR																																																		
DS-2CE56D1T-AVPIR3																																																		
DS-2CE56D1T-IT1																																																		
DS-2CE56D1T-IRM																																																		
DS-2CE56D1T-VPIR																																																		
DS-2CE56D5T-AIRZ																																																		
DS-2CE56D5T-AVFIR																																																		
DS-2CE56D5T-AVPIR3																																																		
DS-2CE56D5T-AVPIR3ZH																																																		
DS-2CE56D5T-IR3Z																																																		
DS-2CE56D5T-IT3																																																		
DS-2CE56D5T-VFIT3																																																		

GP = Gang Plate

VIDEO MANAGEMENT CLIENT SOFTWARE - iVMS-4200 AND iVMS-4500

iVMS-4200 CLIENT SOFTWARE (WINDOWS AND MAC COMPATIBLE) – NO LICENSING FEE!

Live View	Support up to 4 output screens, recommend maximum of 32 live views
Encoding Device	Up to 256 encoded devices
Decoding Device	Up to 64 decoding devices
Imported Camera	Up to 1024 imported cameras
Camera Group	Up to 256 camera groups, with 64 maximum cameras in one group
Storage Server	Up to 16 storage servers, each server's recording performance is 64*2 Mbps
Stream Media Server	Up to 16 stream media servers, each server is with incoming connections of 64*2 Mbps and outgoing connections of 200*2 Mbps
Playback	16 channel playback. For best performance, 1 to 4 cameras at a time are recommended for remote playback
Download	Up to 16 simultaneous download tasks
User	Up to 51 users
System Log	Configurable, 1 to 6 months
Map	Supports PNG, BMP, and JPEG images. Nested maps supported.
PTZ	Control, presets, patrols, patterns supported
Device Search	Supports Search Activated Device Protocol (SADP)
Device Configuration	Supports remote programming and configuration of any connected device. Features Add Device Wizard.
Minimum Server System Requirements	Windows 2003/Windows 7/ Windows 8/ Windows 8.1 / Windows Server 2008 (32-bit or 64-bit), Windows Server 2008 R2 / Windows Server 2012 (64-bit)

iVMS-4500 MOBILE CLIENT APPLICATION FOR SMARTPHONES AND TABLETS

Mobile client software can be used to monitor the live video remotely from embedded hybrid DVR, NVR, DVR recorders, IP camera, IP speed dome or DVS/encoder via wireless network.

Number of Devices	100 device addresses
Live View	iPhone/Android Phone: 16 cameras
Remote Playback	iPhone/Android Phone/Windows Phone: 1-ch playback; iPad/Android Tablet: up to 4-ch
Configurable Image Quality	Clear, balanced, fluent, and customized
Frame Rate	Up to 25/30 fps (dependant on device and network)
Resolution	Up to 1080p
Stream Type	Video and audio
PTZ Control	Pan, tilt, zoom
Snapshot	Snapshot and video recording in Live View
Compatible Devices	Apple iOS (iPhone/iPad) ¹ Android (1.6 or higher) ² Windows Mobile ³

¹iPhone/iPad app must be acquired from the iTunes App Store.

²Android app can be obtained at the Android Market or www.hikvision.com.

³Windows Phone 8 app must be acquired from the Windows Store.



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QUICK REFERENCE GUIDE - SORTED ALPHABETICALLY

AB-FE	36	DS-2AE5123T1-A	29	DS-2CD2D14WD/M	19	DS-2CD6332FWD-IV	10	DS-2CE56D5T-AV FIR/B	26	DS-2DF7276-AEL	12	DS-7716NI-SP/16	22	PC120	36
AB-FE2	36	DS-2AE5230T-A	29	DS-2CD2E10F	18	DS-2CD6362F-I	10	DS-2CE56D5T-AVPIR3/B	26	DS-2DF7286-AEL	13	DS-9008HQHI-SH	31	PC130	36
AB-FE45	36	DS-2AE5230T-A3	29	DS-2CD2E20F	18	DS-2CD6362F-IV	10	DS-2CE56D5T-AVPIR3ZH	26	DS-2DF8236I-AEL	13	DS-9016HQHI-SH	31	PC130T	36
AB110	36	DS-2AE7230T1-A	29	DS-2CD2T22WD-I5	17	DS-2CD63C2F-IV	10	DS-2CE56D5T-IR3Z	27	DS-2DF8236I-AEL	13	DS-96128NI-F24/H	15	PC135	36
AB135	36	DS-2CC12D9T-A	26	DS-2CD2T42WD-I5	17	DS-2CD6412FWD-C2	11	DS-2CE56D5T-IT3/B	27	DS-2DF8336I-AEL	13	DS-9616NI-ST	15	PC140	36
AB165	36	DS-2CD2012-I	19	DS-2CD2T52-I5	17	DS-2CD6412FWD-L10	11	DS-2CE56D5T-VFIT3	27	DS-2DF8336I-AELW	13	DS-96256NI-F24/H	15	PC140PT	36
ABM	36	DS-2CD2022WD-I	17	DS-2CD4012FWD-A	6	DS-2CD6412FWD-L20	11	DS-2CE56D7T-AITZ	25	DS-2DF8836I-AEL	13	DS-9632NI-H8	15	PC160	36
ABS	36	DS-2CD2032-I	19	DS-2CD4025FWD-A	6	DS-2CD6412FWD-L30	11	DS-2CE56D7T-IT3	24	DS-2DF8836I-AELW	13	DS-9632NI-ST	15	PC165	36
CB-130	36	DS-2CD2042WD-I	17	DS-2CD4032FWD-A	6	DS-2CD6424FWD-10	11	DS-2CE56D7T-IT3Z	24	DS-2DT6223-AELY	14	DS-9664NI-H8	15	PC210	36
CB-FE	36	DS-2CD2112F-I	18	DS-2CD4065F-A	6	DS-2CD6424FWD-20	11	DS-2CE56D7T-ITM	24	DS-2DY5223IW-AE	14	DS-9664NI-ST	15	PM	36
CB110	36	DS-2CD2112F-IWS	23	DS-2CD4085F-AP	6	DS-2CD6424FWD-20/E	11	DS-2CE56D7T-VPIT	24	DS-2DY9188-A	14	DS-A81016S	35	PMP	36
CB135	36	DS-2CD2122FWD-IS/B	16	DS-2CD4112FWD-IZ	7	DS-2CD6424FWD-30	11	DS-2CE56D7T-AVPIT3Z	25	DS-2DY9188-AI2	14	DS-A82024D	35	PMPL	36
CB140PT	36	DS-2CD2132F-I	18	DS-2CD4125FWD-IZ	7	DS-2CD6424FWD-40/E1	11	DS-2CE56F7T-AITZ	25	DS-3D2208P	34	DS-AJ6816S	35	RCM-1	36
CB165	36	DS-2CD2132F-IWS	23	DS-2CD4132FWD-IZ	7	DS-2CD6424FWD-40/E2	11	DS-2CE56F7T-IT3	25	DS-3D2228P	34	DS-AJ6824D	35	RCM-2	36
CBM	36	DS-2CD2142FWD-IS/B	16	DS-2CD4165F-IZ	7	DS-2CD6626DS-IZHS	14	DS-2CE56F7T-IT3Z	25	DS-3E0105P-E	34	DS-D5021FC	33	RCM-3	36
CBS	36	DS-2CD2152F-I	16	DS-2CD4185F-IZ	7	DS-2CD6986F-H	9	DS-2CE56F7T-ITM	25	DS-3E0109P-E	34	DS-D5032FC	33	RCM-4	36
CBT-1	36	DS-2CD2212-I5	19	DS-2CD41C5F-IZ	7	DS-2CD6W32FWD-IVS	10	DS-2CE56F7T-VPIT	25	DS-3E0318P-E	34	DS-D5042FL	33	RPM	36
CBXS	36	DS-2CD2232-I5	19	DS-2CD4212FWD-IZH	7	DS-2CE16C2T-IR	28	DS-2CE56F7T-AVPIT3Z	25	DS-3E0326P-E	34	DS-TT-X41T	33	RPM	36
CHB	36	DS-2CD2322WD-I	17	DS-2CD4212FWD-IZH8	7	DS-2CE16C5T-IT1	28	DS-2DE2103-DE3/W	20	DS-6401HDI-T	32	DS-UTF32GH-I1	35	SRS	36
CHB-HB	36	DS-2CD2332-I	19	DS-2CD4312FWD-IZHS	8	DS-2CE16C5T-VFIR3	28	DS-2DE2103-DE3/W	23	DS-6404HDI-T	32	DS-UTF64GH-I1	35	SRS	36
CHB-HBW	36	DS-2CD2342WD-I	17	DS-2CD4312FWD-IZHS8	8	DS-2CE16D1T-AV FIR3	28	DS-2DE2202I-DE3/W	20	DS-6408HDI-T	32	DV3.8x4SR4A-SA1	34	SRSM	36
CM	36	DS-2CD2352-I	17	DS-2CD4324FWD-IZHS	8	DS-2CE16D1T-IR	28	DS-2DE2202I-DE3/W	23	DS-6701HWI	32	DV4x12.5SR4A-SA1	34	TV0515D-MPIR	34
CMP	36	DS-2CD2412F-IW	23	DS-2CD4324FWD-IZHS8	8	DS-2CE16D1T-IT1	28	DS-2DE3304W-DE	20	DS-6704HWI	32	DV4X12.5SR4A-SA1L	34	TV0550D-MPIR	34
CMPL	36	DS-2CD2432F-IW	23	DS-2CD4332FWD-IZHS	9	DS-2CE16D5T-AIR3ZH	28	DS-2DE4220-AE	20	DS-6708HWI-SATA	32	GP100	36	TV2712D-MPIR	34
CPM	36	DS-2CD2510F	18	DS-2CD4332FWD-IZHS8	9	DS-2CE16D5T-AV FIR3	28	DS-2DE4220-AE3	20	DS-6708HWI	32	HDD-SAS4T	35	WBL	36
CPM-L	36	DS-2CD2512F-I	18	DS-2CD4526FWD-IZH	9	DS-2CE16D5T-IT3	28	DS-2DE5130W-AE	21	DS-6716HWI-SATA	32	HIK-DVDRW	35	WBPT	36
CPM-S	36	DS-2CD2520F	18	DS-2CD4535FWD-IZH	9	DS-2CE16D7T-IT	24	DS-2DE5174-AE	21	DS-6716HWI	32	HK-HDD1T	35	WBPT-S	36
CPM-SS	36	DS-2CD2522FWD-IS/B	16	DS-2CD4535FWD-IZH8	9	DS-2CE16D7T-IT5	24	DS-2DE5184-AE	21	DS-7104NI-SL/W	23	HK-HDD1T-E	35	WBS	36
CPME	36	DS-2CD2522FWD-IWS	23	DS-2CD4565F-IZH	9	DS-2CE16D7T-AIT3Z	24	DS-2DE5184-AE3	20	DS-7108NI-E1/V/W/1T	23	HK-HDD2T	35	WM-C	36
CPMPE	36	DS-2CD2532F-I	18	DS-2CD4585F-IZH	9	DS-2CE16D9T-AIRAZH	28	DS-2DE5220I-AE	21	DS-7204HGHI-SH	30	HK-HDD2T-E	35	WM110	36
DS-1003KI	33	DS-2CD2542FWD-IS/B	16	DS-2CD45C5F-IZH	9	DS-2CE16F7T-IT	25	DS-2DE5230W-AE	21	DS-7204HUHI-F1/N	30	HK-HDD3T	35	WML	36
DS-1003KI	33	DS-2CD2542FWD-IWS	23	DS-2CD4A24FWD-IZH	7	DS-2CE16F7T-IT5	25	DS-2DE7130I-W-AE	21	DS-7208HGHI-SH	30	HK-HDD3T-E	35	WMP-L	36
DS-1005KI	33	DS-2CD2552F-I	16	DS-2CD4A25FWD-IZH	7	DS-2CE16F7T-AIT3Z	25	DS-2DE7174-AE	21	DS-7208HUHI-F2/N	30	HK-HDD4T	35	WMP-S	36
DS-1045	33	DS-2CD2612F-I	19	DS-2CD4A25FWD-IZH8	7	DS-2CE56C2T-IRM	27	DS-2DE7184-AE	21	DS-7216HGHI-SH	30	HK-HDD4T-E	35	WMP-SS	36
DS-1100KI	33	DS-2CD2622FWD-IZS	17	DS-2CD4A26FWD-IZH	8	DS-2CE56C5T-AV FIR	26	DS-2DE7230I-W-AE	21	DS-7216HUHI-F2/N	30	HK-HDD6T	35	WMR	36
DS-1H05-16R	34	DS-2CD2632F-I	19	DS-2CD4A26FWD-IZH8	8	DS-2CE56C5T-AVPIR3	26	DS-2DF5220S-DE4/W	23	DS-7308HQHI-SH	31	HV0733D-6MP	34	WMS	36
DS-1H05-8R	34	DS-2CD2642FWD-IZS	17	DS-2CD4A35FWD-IZH	8	DS-2CE56C5T-IT1	27	DS-2DF5220S-DE4/W	12	DS-7316HQHI-SH	31	HV1140D-8MPIR	34	WMS-SS	36
DS-1H05-R	34	DS-2CD2712F-I	18	DS-2CD4A35FWD-IZH8	8	DS-2CE56C5T-VFIT3	27	DS-2DF5276-AE3	12	DS-7332HGHI-SH	31	HV3816D-8MPIR	34	YV2.8x2.8SR4A-SA2	34
DS-1H05-T	34	DS-2CD2722FWD-IZS/B	16	DS-2CD4A65F-IZH	8	DS-2CE56D1T-AV FIR/B	26	DS-2DF5276-AEL	12	DS-7604NI-E1/4P	22	IDS-2CD6412FWD/C	9	YV3.1x3SR4A-SA2L	34
DS-1H18	33	DS-2CD2732F-I	18	DS-2CD4A85F-IZH	8	DS-2CE56D1T-AVPIR3/B	26	DS-2DF5286-AE3	12	DS-7608NI-E2/8P	22	JBM-SS	36		
DS-1H33	33	DS-2CD2742FWD-IZS/B	16	DS-2CD4AC5F-IZH	8	DS-2CE56D1T-IRM/B	27	DS-2DF5286-AEL	12	DS-7608NI-H2/8P	22	JBPW	36		
DS-2AE4223T-A	29	DS-2CD2752F-IZS	16	DS-2CD6026FHW-A	6	DS-2CE56D1T-IT1	27	DS-2DF6236-AEL	12	DS-7616NI-E2/16P	22	PC-FE	36		
DS-2AE4223T-A3	29	DS-2CD2942F-IS	19	DS-2CD6026FHW-A3/A7/A11	6	DS-2CE56D1T-VPIR/B	26	DS-2DF6236V-AEL	12	DS-7616NI-H2/16P	22	PC110	36		
DS-2AE5123T-A	29	DS-2CD2D14WD	19	DS-2CD6332FWD-I	10	DS-2CE56D5T-AIRZ	26	DS-2DF6336V-AEL	12	DS-7716NI-H4/16P	22	PC110T	36		

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