GREAT PRODUCTS
GREATER PARTNERSHIPS™



2016 Product Quick Guide

SPRING / SUMMER

HIKVISION®

Hikvision Unauthorized Distributors Policy

Hikvision USA 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 value chain by providing excellent pre- and post-sale customer service, including full firmware and sales engineering support.

Unfortunately, not every distributor advertising Hikvision products has been authorized by Hikvision USA 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 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’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 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®

2016 Product Quick Guide

SPRING / SUMMER

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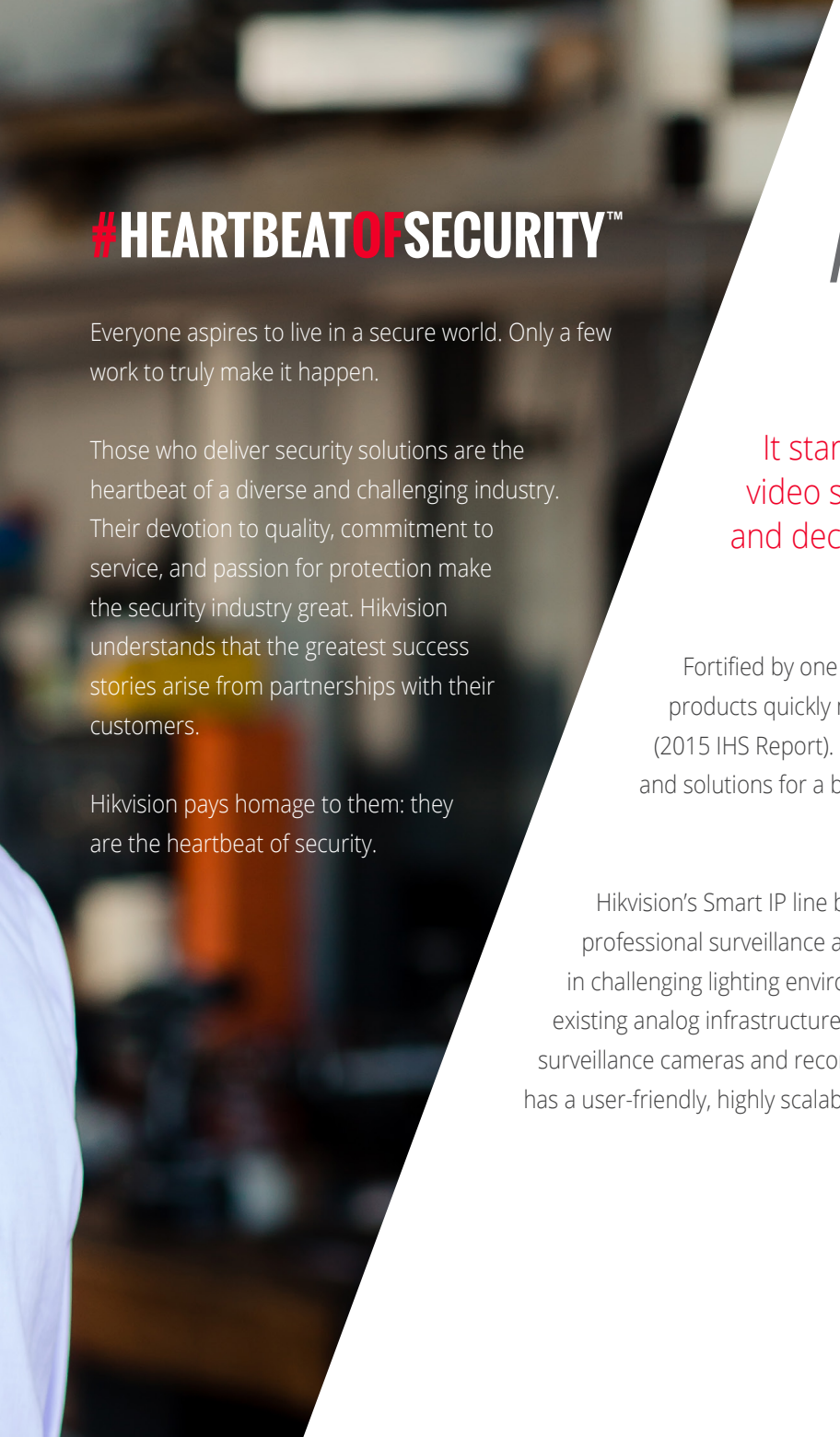
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"The partnership with Hikvision pushes us into the next level of security business."

Daryl Whitt, VP of Operations eCamSecure, Inc.



#HEARTBEATOFSECURITY™

Everyone aspires to live in a secure world. Only a few work to truly make it happen.

Those who deliver security solutions are the heartbeat of a diverse and challenging industry. Their devotion to quality, commitment to service, and passion for protection make the security industry great. Hikvision understands that the greatest success stories arise from partnerships with their customers.

Hikvision pays homage to them: they are the heartbeat of security.

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 leading CCTV equipment provider in the world and #4 in the United States (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 critical infrastructure.

Hikvision's Smart IP line brings intelligence, efficiency, and convenience to video surveillance: an ideal choice for professional surveillance applications. The DarkFighter and LightFighter IP cameras provide outstanding image quality in challenging lighting environments. The TurboHD™ line uses HD-TVI technology to transmit high-definition images over existing analog infrastructure at distances up to 1500 feet. The Value Series and Value Plus Series provide high-quality video surveillance cameras and recorders at a competitive price. Whatever the scope or requirements of the application, Hikvision has a user-friendly, highly scalable product to meet those needs.

A COMPLETE SOLUTION

Hikvision designs and manufactures a full line of innovative video surveillance products.



Video Management Software
iVMS-4200 and iVMS-4500



Network Cameras



Smart IP PTZs



TurboHD™ Cameras



Analog Cameras



NVRs



Tribrid DVRs



Encoders and Decoders



WiFi NVRs

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 resources for dealers, architects, and engineers to enjoy even more successful businesses. Hikvision is committed to protecting and creating business value for its customers.



HIKVISION Diamond-Level PARTNER™

Fostering partner excellence.

Become a Diamond-Level Partner.
Ask us how!

- Designed to meet the needs of enterprise level partners
- Built-in incentives for enhanced profitability
- Enriched training certification and support

Learn more about becoming a Hikvision Dealer Partner

Contact: partners.usa@hikvision.com

FEATURED PRODUCTS



Ultra HD Smart PTZ Camera

This camera provides an array of benefits including Ultra HD 4K image detail in real time (30fps), true WDR, 36x optical zoom lens, and an IR range of 650 feet. Using VCA, the camera determines when line crossing, intrusion, and region entry and exit events have occurred, and 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.

See DS-2DF8836IV-AELW, page 14



Smart Series 32-Channel NVR

This professional series NVR is a reliable addition to IP security systems that require ultra high performance. It supports recording of up to 12 MP camera resolution, Ultra High Definition (UHD) output up to 4K, and 48 TB storage capacity. The recorder offers up to eight SATA interfaces and one eSATA interface for recording and backup. It features Hikvision's unique optimized H.264+ compression, increasing storage space by 50-70%.

See DS-9632NI-I8, page 15



4 MP Value Plus Varifocal Bullet Camera

This competitively priced camera is packed with robust functionality such as 2688x1520 high resolution at 20 fps and a motorized zoom lens of 2.8 mm to 12 mm range. Also included is our Basic Smart Suite of video content analysis: the camera supports line crossing and intrusion detection zones. Hikvision's specialized H.264+ compression technology is also supported, reducing bitrate and file sizes for significant bandwidth and storage savings.

See DS-2CD2642FWD-ISZ, page 17



TurboHD™ 1080p Outdoor Dome Camera

Using HD-TVI technology to provide high definition video over coaxial cable at distances of up to 1500 feet, this incredibly durable, vandal proof camera includes a heater for operation down to -40°F. It offers installer-friendly features such as motorized zoom and focus, dual output of TurboHD and CVBS, and up-the-coax onscreen menus for easy configuration and lens control. Image quality is bolstered by impressive 120 dB WDR.

See DS-2CE56D5T-AVPIR3ZH, page 26

VERTICAL MARKET FOCUS

Retail

Shop and restaurant owners have peace of mind when using Hikvision products, which are high performing and aesthetically pleasing to boot. Compact style bullet, turret, dome and covert cameras provide discreet surveillance in an attractive package. The fisheye camera, available in 3 MP, 4 MP, 6 MP, and new 12 MP models (page 11), sees more on its own than multiple cameras trying to do the same thing. With five channels of video, it single-handedly captures high-quality images from every corner of a retail environment, eliminates blind spots, and dewarps the image to allow for multiple viewing modes.







Critical Infrastructure

Hikvision's Smart Series cameras offer performance and features that are ideal for critical security installations. Low-light DarkFighter technology is ideal for extremely dim or nighttime applications and allows the camera to perform down to.0016 lux level (color). Smart Suite analytics can be programmed to trigger alerts and recordings when suspicious objects appear, the audio or scene changes, and when subjects enter or exit restricted areas. Hikvision offers image resolution up to 4K to capture incredible scene detail, in both fixed cameras and the new 36x PTZ camera with integrated IR. Challenges of high risk, public health, and safety are met with Hikvision products today and tomorrow.

Education

Protection of your loved ones is one of Hikvision's highest priorities, as shown in the reliability and effectiveness of Hikvision cameras. Budget-minded school districts will find Hikvision's product selection unmatched in the industry. The Value Plus series includes the 4 MP Mini Dome Network Camera (DS-2CD2542FWD-IS, page 16), which combines high image quality with high value. With full 1080p high-definition video and up to 120 dB wide dynamic range, it's well suited to capture remarkable detail in interior and exterior environments.

Network Camera - Smart Series

smart IPC	Box Camera							Indoor Dome	
Model	**DS-2CD4012FWD-A**	**DS-2CD6026FHWD-A**	**DS-2CD6026FHWD-A3/A7/A11**	**DS-2CD4025FWD-A**	**DS-2CD4032FWD-A**	**DS-2CD4065F-A**	**DS-2CD4085F-AP**	**DS-2CD4112FWD-IZ**	**DS-2CD4125FWD-IZ**
	 *Lens NOT included 1.3 MP	 DarkFighter *Lens NOT included 2.0 MP	 DarkFighter 2.0 MP	 LightFighter *Lens NOT included 2.0 MP	 *Lens NOT included 3.0 MP	 *Lens NOT included 6.0 MP	 *Lens NOT included 4K	 1.3 MP	 LightFighter 2.0 MP
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	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ ƒ/1.2 B/W: 0.001 @ ƒ/1.2	Color: 0.001 @ ƒ/1.2 B/W: 0.0001 @ ƒ/1.2	Color: 0.0016 @ ƒ/1.5 B/W: 0.00016 @ ƒ/1.5	Color: 0.005 @ ƒ/1.2 B/W: 0.0005 @ ƒ/1.2	Color: 0.1 @ ƒ/1.2 B/W: 0.01 @ ƒ/1.2	Color: 0.02 @ ƒ/1.2 B/W: 0.002 @ ƒ/1.2	Color: 0.01 @ ƒ/1.2 B/W: 0.001 @ ƒ/1.2	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.007 @ ƒ/1.4 B/W: 0 with IR
Lens	Auto back focus, C/CS mount	Auto back focus, C/CS mount	A3: 3.8 to 16 mm ƒ/1.5 A7: 7 to 33 mm ƒ/0.95 A11: 11 to 40 mm ƒ/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	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus
Horizontal Angle of View	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	98.4° to 30.2°	113° to 33.8°
Pan/Tilt/Rotation	---	---	---	---	---	---	---	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	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/140 dB
IR Range Max. (meters)	---	---	---	---	---	---	---	30	30
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	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	3072x2048	4096x2160	1280x960	1920x1080
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 @ 2560×2048, 2560×1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720	30 @ 1280x960 (60 @1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite[1]	Full Smart Suite[1] except Object Counting	Full Smart Suite[1] except Object Counting	Full Smart Suite[1]	Full Smart Suite[1]	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
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	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	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	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IK10, UL/cUL Listed	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.)	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	12 VDC, PoE (802.3af), 10.5 W	12 VDC, PoE (802.3af), 10 W

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

[1]**Full 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

Network Camera - Smart Series

smart IPC	Indoor Dome			Outdoor Bullet					
Model	**DS-2CD4132FWD-IZ**	**DS-2CD4165F-IZ**	**DS-2CD4185F-IZ**	**DS-2CD4212FWD-IZH**	**DS-2CD4212FWD-IZH8**	**DS-2CD4A25FWD-IZH**	**DS-2CD4A25FWD-IZH8**	**DS-2CD4A26FWD-IZH**	**DS-2CD4A26FWD-IZH8**
	 3.0 MP	 6.0 MP	 4K	 1.3 MP	 1.3 MP	 LightFighter EXIR 2.0 MP	 LightFighter EXIR 2.0 MP	 DarkFighter EXIR 2.0 MP	NEW  DarkFighter EXIR 2.0 MP
Image Sensor	1/3” progressive scan CMOS	1/1.8” 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	1/1.8” progressive scan CMOS	1/1.8” progressive scan CMOS
Min. Illumination (lux)	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR	Color: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus
Horizontal Angle of View	91.2° to 28.3°	94.5° to 30.5°	96.0° to 32.6°	98.4° to 30.2°	27.8° to 9.1°	98.4° to 30.2°	27.8° to 9.1°	92° to 32°	28° to 12°
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°	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
BLC/WDR	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/140 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	30	30	30	30	80	50	100	50	100
Video Compression	H.264+/H.264/MPEG4/ 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/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG
Maximum Image Resolution (pixels)	2048x1536	3072x2048	4096x2160	1280x960	1280x960	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	24 @ 3072×2048 30 @ 3072×1728, 2560×2048, 2560×1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 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)	30 @ 1920x1080, 1280x960, 1280x720 (60 @1920x1080 with WDR off)
Multi-Streaming	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] 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
Motion Detection	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	---	---	---	---	---	---
Alarm Input/Output	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	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	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)	-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 (802.3af), 11.5 W	12 VDC, PoE (802.3af), 12.5 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), 21 W	12 VDC, PoE+ (802.3at), 21 W

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

[1]**Full 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

Network Camera - Smart Series

smart IPC	Outdoor Bullet				Outdoor Dome				
Model	**DS-2CD4A35FWD-IZH**	**DS-2CD4A35FWD-IZH8**	**DS-2CD4A65F-IZH**	**DS-2CD4A85F-IZH**	**DS-2CD4312FWD-IZHS**	**DS-2CD4312FWD-IZHS8**	**DS-2CD4324FWD-IZHS**	**DS-2CD4324FWD-IZHS8**	**DS-2CD4526FWD-IZH**
	 EXIR 3.0 MP	 EXIR 3.0 MP	 EXIR 6.0 MP	 EXIR 4K	 1.3 MP	 1.3 MP	 2.0 MP	 2.0 MP	 DarkFighter 2.0 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" 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
Min. Illumination (lux)	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus
Horizontal Angle of View	105° to 32°	29.7° to 9.7°	94.5° to 30.5°	96.0° to 32.6°	98.4° to 30.2°	27.8° to 9.1°	113° to 33.8°	31.2° to 10.2°	92° to 32°
Pan/Tilt/Rotation	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°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	50	100	50	50	30	50	30	50	40
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/MPEG4/ 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)	2048x1536	2048x1536	3072x2048	4096x2160	1280x960	1280x960	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	24 @ 3072×2048, 30 @ 3072×1728, 2560×2048, 2560×1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 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
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]	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
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
Alarm Input/Output	---	---	---	---	2/2	2/2	2/2	2/2	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	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	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)
Power Requirements (max.)	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	24 VAC/PoE+ (802.3at), 14 W	24 VAC, 12 VDC, PoE+ (802.3at), 17.5 W

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

[1]**Full 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

Network Camera - Smart Series

smart IPC	Outdoor Dome					
Model	**DS-2CD4332FWD-IZHS**	**DS-2CD4332FWD-IZHS8**	**DS-2CD4535FWD-IZH**	**DS-2CD4535FWD-IZH8**	**DS-2CD4565F-IZH**	**DS-2CD4585F-IZH**
	 3.0 MP	 3.0 MP	 3.0 MP	 3.0 MP	 6.0 MP	 4K
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS
Min. Illumination (lux)	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	8 to 32 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus
Horizontal Angle of View	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°
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°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital
IR Range Max. (meters)	30	50	40	50	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
Maximum Image Resolution (pixels)	2048x1536	2048x1536	2048x1536	2048x1536	3072x2048	4096x2160
Frame Rate (fps)	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 @ 3072×2048 30 @ 3072×1728, 2560×2048, 2560 × 1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080, 1280x720
Multi-Streaming	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]
Motion Detection	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
Alarm Input/Output	2/2	2/2	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.
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
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)
Power Requirements (max.)	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

Standards: Complies with ONVIF (Profile S and G), PSIA, CGI ASAPI. Contact factory for details.
[1]**Full 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

Ultra HD 4K Technology

More than just a buzzword, 4K is an exciting innovation that provides benefits in an array of security and operational deployments.

It provides ***four times*** more resolution performance than the usual 1080p (2 MP) cameras, resulting in Ultra HD image detail. Hikvision's 4K cameras are well suited for applications that require detailed, high-resolution images for precise identification, such as parking areas, stadiums, airports, campus environments, and prisons. Previous concerns about 4K's effect on bandwidth have been alleviated due to the introduction of Hikvision's H.264+ compression (see page 15 for more information). Noise reduction and built-in IR illumination allow Hikvision's 4K products to ensure crystal-clear images day and night, resulting in high-performing cameras with remarkable picture rendition.

Network Camera - Smart Series

smart IPC | Fisheye

Model	DS-2CD6332FWD-I	DS-2CD6332FWD-IV	DS-2CD6362F-I	DS-2CD6362F-IV	DS-2CD63C2F-IV
	 3.0 MP	 3.0 MP	 6.0 MP	 6.0 MP	NEW  12.0 MP
Image Sensor	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: 0.28 @ ƒ/2.0 B/W: 0 with IR	Color: 0.28 @ ƒ/2.0 B/W: 0 with IR	Color: 0.3 @ ƒ/2.8 B/W: 0 with IR	Color: 0.3 @ ƒ/2.8 B/W: 0 with IR	Color: 0.04 @ ƒ/2.4 B/W: 0 with IR
Lens	1.19 mm @ ƒ/2.0, Fisheye	1.19 mm @ ƒ/2.0, Fisheye	1.27 mm @ ƒ/2.8, Fisheye	1.27 mm @ ƒ/2.8, Fisheye	1.98 mm @ ƒ/2.4
Horizontal Angle of View	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	No/120 dB	No/120 dB	No/Digital	No/Digital	No/Digital
IR Range Max. (meters)	15	15	15	15	15
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	2048x1536	2048x1536	3072x2048	3072x2048	4000x3072
Frame Rate (fps)	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	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	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
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
Alarm Input/Output	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	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)
Power Requirements (max.)	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), PSIA, CGI ASAPI. Contact factory for details.

Network Camera - Smart Series

smart IPC	Covert			
Model	**DS-2CD6412FWD-C2** (Base Unit)	**DS-2CD6412FWD-L10** (Lens/Sensor)	**DS-2CD6412FWD-L20** (Lens/Sensor)	**DS-2CD6412FWD-L30** (Lens/Sensor)
	 *Base unit ONLY	 *Base unit NOT included 1.3 MP	 *Base unit NOT included 1.3 MP	 *Base unit NOT included 1.3 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
Min. Illumination (lux)	---	Color: 0.04 @ ƒ/2.3	Color: 0.04 @ ƒ/2.3	Color: 0.04 @ ƒ/2.0
Lens	---	Fixed, 3.7 mm @ ƒ/2.3	Fixed, 3.7 mm @ ƒ/2.3	Fixed, 2.8 mm, 4 mm @ ƒ/2.0
Horizontal Angle of View	Lens dependent	57°	57°	92.5°, 73.1°
Day/Night	---	Electronic	Electronic	Electronic
BLC/WDR	---	No/120 dB	No/120 dB	No/120 dB
IR Range Max. (meters)	---	---	---	---
Video Compression	H.264+/H.264/MPEG4/ MJPEG	---	---	---
Maximum Image Resolution (pixels)	---	1280x960	1280x960	1280x960
Frame Rate (fps)	30 @ 1280x960, 1280x720	---	---	---
Multi-Streaming	Triple Stream	---	---	---
Smart Features	Full Smart Suite[1] except Object Counting	---	---	---
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	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)
Power Requirements (max.)	12 VDC/PoE (802.3af), 8.5 W	Powered by Base Unit	Powered by Base Unit	Powered by Base Unit

Standards: Complies with ONVIF (Profile S and G), PSIA, CGI ASAPI. Contact factory for details.
[1]**Full 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

Network PTZ Camera - Smart Pro Series

smart IPC	Indoor		
Model	**DS-2DF5276-AE3**	**DS-2DF5220S-DE4/W**	**DS-2DF5286-AE3**
	 1.3 MP	 2.0 MP	 2.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6 B/W: 0.005 @ ƒ/1.6	Color: 0.3 @ ƒ/1.6 B/W: 0.02 @ ƒ/1.6	Color: 0.4 @ ƒ/1.6 B/W: 0.03 @ ƒ/1.6
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
Horizontal Angle of View	57.4° to 2.8°	58.3° to 3.2°	65.5° to 2.11°
Optical Zoom	30x	20x	30x
Pan Range	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-30° to 90° (auto flip)	-5° 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 & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 270°/sec. Tilt: 200°/sec.	Pan: 540°/sec. Tilt: 400°/sec.
Day/Night	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital
Electronic Image Stabilization	Yes	Yes	Yes
IR Range Max. (Meters)	---	---	---
Smart Features/ Presets/Tours/Patterns	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
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IK9, UL/cUL Listed	UL/cUL Listed	IK9, 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)
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

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

Network PTZ Camera - Smart Pro Series

smart IPC	Outdoor				
Model	**DS-2DF5276-AEL**	**DS-2DF5286-AEL**	**DS-2DF6236-AEL**	**DS-2DF6236V-AEL**	**DS-2DF6336V-AEL**
	 1.3 MP	 2.0 MP	 DarkFighter 2.0 MP	 LightFighter 2.0 MP	 3.0 MP
Image Sensor	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
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6 B/W: 0.005 @ ƒ/1.6	Color: 0.4 @ ƒ/1.6 B/W: 0.03 @ ƒ/1.6	Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6
Lens	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
Horizontal Angle of View	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°
Optical Zoom	30x	30x	36x	36x	36x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-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)
Pan & Tilt Speed (Manual)	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 & 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.	Pan: 540°/sec. Tilt: 400°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/140 dB
Electronic Image Stabilization	Yes	Yes	Yes	---	---
IR Range Max. (Meters)	---	---	---	---	---
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
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280×720	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 (60 @ 2048x1536,1920x1080, 1280x960, 1280x720 with WDR off)
Local Storage	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, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, 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)	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)
Power Requirements (max.)	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

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

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

Smart PTZ dome cameras incorporate Hikvision's innovative HD camera modules

Based on Hikvision ISP (Image Signal Processing) technology, the HD camera modules can provide 3 MP (2048 × 1536), 2 MP (1920 × 1080) and 1.3 MP (1280 × 960) real-time HD output. The 36x zoom capability enables a closer view to capture more detail. Using progressive scan sensors, the camera modules deliver true color representation and clear images of fast-moving objects.

Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.

Network PTZ Camera - Smart Pro Series

smart IPC — Outdoor

Model	DS-2DF7276-AEL	DS-2DF7286-AEL	DS-2DF8236I-AEL	DS-2DF8236IV-AEL	DS-2DF8336IV-AEL	DS-2DF8836IV-AEL	DS-2DF8836IV-AELW
	 1.3 MP	 2.0 MP	 DarkFighter 2.0 MP	 LightFighter 2.0 MP	 3.0 MP	 4K	NEW  4K
Image Sensor	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6 B/W: 0.005 @ ƒ/1.6, 0 with IR	Color: 0.4 @ ƒ/1.6 B/W: 0.03 @ ƒ/1.6, 0 with IR	Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5, 0 with IR	Color: 0.05 @ ƒ/1.6 B/W: 0.01, 0 with IR	Color: 0.05 @ ƒ/1.6 B/W: 0.01, 0 with IR	Color: 0.02 @ ƒ/1.5 B/W: 0.002 @ ƒ/1.5 with IR	Color: 0.02 @ ƒ/1.5 B/W: 0.002 @ ƒ/1.5 with IR
Lens	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	6.2 to 202 mm, motorized zoom, autofocus	6.2 to 202 mm, motorized zoom, autofocus
Horizontal Angle of View	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°	56.8° to 2.02°	56.8° to 2.02°
Optical Zoom	30x	30x	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)	-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)
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/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital	Yes/Digital
Electronic Image Stabilization	Yes	Yes	Yes	---	---	---	---
IR Range Max. (Meters)	150	150	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/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	4096x2160	4096x2160
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280×720	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 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, 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)	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)
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, Wiper 2 W

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

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

Network Video Recorder							
	Pro Series						
Model	DS-9616NI-ST	DS-9632NI-ST	DS-9664NI-ST	DS-9632NI-I8	DS-9664NI-I8	DS-96128NI-F24/H[3]	DS-96256NI-F24/H[3]
							
Max. Recording Resolution	6 MP	6 MP	6 MP	12MP	12MP	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), PSIA, CGI ASAPI. Contact factory for details.
[3]Requires 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)

Hikvision's Optimized H.264+ Compression Technology

Hikvision has enhanced its video products through the application of the latest in technology. Our unique H.264+ Advanced Video Coding (AVC) optimizes compression beyond the current H.264 standard. Through the combination of intelligent analysis, predictive encoding, noise suppression, and bitrate control, Hikvision is meeting the demand for higher resolution at reduced bandwidths. Our customers benefit from the lower bitrate provided by H.264+, which reduces bandwidth and storage requirements by 50 to70%, improving network throughput and lowering security system costs.

Network Camera - Value Plus Series

	Outdoor Dome		Outdoor Compact Dome		Outdoor Dome		Outdoor Turret
Model	**DS-2CD2122FWD-IS**	**DS-2CD2142FWD-IS**	**DS-2CD2522FWD-IS**	**DS-2CD2542FWD-IS**	**DS-2CD2722FWD-IZS**	**DS-2CD2742FWD-IZS**	**DS-2CD2322WD-I**
	 2.0 MP	 4.0 MP	 2.0 MP	 4.0 MP	 2.0 MP	 4.0 MP	 EXIR 2.0 MP
Image Sensor	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	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR
Lens	Fixed, 4mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)	Fixed 4mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)	2.8 to 12 mm @ ƒ/1.4, motorized	2.8 to 12 mm @ ƒ/1.4, motorized	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)
Horizontal Angle of View	102° (2.8 mm), 85° (4 mm), 52 ° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	102° (2.8 mm), 85° (4 mm), 52 ° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	106º to 35º	112º to 33.8º	109° (2.8 mm), 90° (4 mm), 54° (6 mm)
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°	0° to 355°/0° to 75°/0° to 355°	0° to 355°/0° to 75°/0° to 355°	0° to 360°/0° to 75°/0° to 360°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	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)	30	30	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
Maximum Image Resolution (pixels)	1920x1080	2688x1520	1920x1080	2688x1520	1920x1080	2688x1520	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	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	---
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.	---
Smart Features	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, 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.)	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), 7.5 W

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

Network Camera - Value Plus Series

	Outdoor Turret	Outdoor Bullet					
Model	**DS-2CD2342WD-I**	**DS-2CD2022WD-I**	**DS-2CD2042WD-I**	**DS-2CD2T22WD-I5**	**DS-2CD2T42WD-I5**	**DS-2CD2622FWD-IZS**	**DS-2CD2642FWD-IZS**
	 EXIR 4.0 MP	 2.0 MP	 4.0 MP	 EXIR 2.0 MP	 EXIR 4.0 MP	 2.0 MP	 4.0 MP
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)	Fixed, 4 mm @ ƒ/2.0 (6mm option)	Fixed, 4 mm @ ƒ/2.0 (6mm option)	2.8 to 12 mm @ ƒ/1.4, motorized	2.8 to 12 mm @ ƒ/1.4, motorized
Horizontal Angle of View	106° (2.8 mm), 83° (4 mm), 56° (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)	106° to 35°	112° to 33.8°
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
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	No/120 dB	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	30	30	30	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
Maximum Image Resolution (pixels)	2688x1520	1920x1080	2688x1520	1920x1080	2688x1520	1920x1080	2688x1520
Frame Rate (fps)	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	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[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]
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	-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), 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

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

Network Camera - Value Series

	Indoor Recessed Dome		Outdoor Dome		Outdoor Compact Dome			
Model	**DS-2CD2E10F**	**DS-2CD2E20F**	**DS-2CD2112F-I**	**DS-2CD2132F-I**	**DS-2CD2510F**	**DS-2CD2512F-I**	**DS-2CD2520F**	**DS-2CD2532F-I**
	 1.3 MP	 2.0 MP	 1.3 MP	 3.0 MP	 1.3 MP	 1.3 MP	 2.0 MP	 3.0 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
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0.0028 @ ƒ/2.0	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0.0028 @ ƒ/2.0	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR
Lens	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 2 mm @ ƒ/2.0	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 2 mm @ ƒ/2.0	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)
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)
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°
Day/Night	Electronic	Electronic	TRUE	TRUE	Electronic	TRUE	Electronic	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	---	---	30	30	---	10	---	10
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
Maximum Image Resolution (pixels)	1280x960	1920x1080	1280x960	2048x1536	1280x960	1280x960	1920x1080	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
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---	---	---
Alarm Input/Output	---	---	---	---	---	---	---	---
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.
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
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)
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

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

Network Camera - Value Series

	Outdoor Dome		Outdoor Turret	Outdoor Bullet				
Model	**DS-2CD2712F-I**	**DS-2CD2732F-I**	**DS-2CD2332-I**	**DS-2CD2012-I**	**DS-2CD2032-I**	**DS-2CD2212-I5**	**DS-2CD2232-I5**	**DS-2CD2612F-I**
	 1.3 MP	 3.0 MP	 EXIR 3.0 MP	 1.3 MP	 3.0 MP	 EXIR 1.3 MP	 EXIR 3.0 MP	 1.3 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
Min. Illumination (lux)	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.01 @ ƒ/1.4 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	Fixed 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed 4 mm @ ƒ/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ ƒ/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ ƒ/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ ƒ/2.0 (6 mm, 12 mm option)	2.8 to 12 mm @ ƒ/1.4, manual
Horizontal Angle of View	98.4° to 30.2°	91.2° to 28.3°	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°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 360°/ 0°to 75°/0° to 360°	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
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	30	30	30	30	30	50	50	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
Maximum Image Resolution (pixels)	1280x960	2048x1536	2048x1536	1280x960	2048x1536	1280x960	2048x1536	1280x960
Frame Rate (fps)	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---	---	---
Alarm Input/Output	---	---	---	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---	---	---	---	MicroSD, 128 GB max.
Ratings	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	IP66, UL/cUL Listed	IP66, 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)
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), 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

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

Network Camera - Value Series

	Outdoor Bullet	Indoor Pinhole	Covert	Indoor Fisheye
Model	**DS-2CD2632F-I**	**DS-2CD2D14WD**	**DS-2CD2D14WD/M**	**DS-2CD2942F-IS**
	 3.0 MP	 1.0 MP	NEW  1.0 MP	 4.0 MP
Image Sensor	1/3" progressive scan CMOS	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.1 @ ƒ/1.4 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0	Color: 0.028 @ ƒ/2.0	Color: 0.018 @ ƒ/1.6 B/W: 0.0018 @ ƒ/1.6 0 with IR
Lens	2.8 to 12 mm @ ƒ/1.4, manual	Pinhole, 3.2 mm @ ƒ/2.5	2.8 mm @ ƒ/2.0 or 4.0 mm @ ƒ/2.0	Fisheye, 1.6 mm, ƒ/1.6
Horizontal Angle of View	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	3-Axis Positioning	0° to 360°/0° to 90°/na	0° to 360°/0° to 90°/na	---
Day/Night	TRUE	Electronic	Electronic	TRUE
BLC/WDR	Yes/Digital	No/100 dB	No/100 dB	Yes/Digital
IR Range Max. (meters)	30	---	---	8
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	2048x1536	1280x720	1280x720	2560x1440
Frame Rate (fps)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x720, 704x576, 640x480	30 @ 1280x720, 704x576, 640x480	15 @ 2560x1440 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite[4]	Basic Smart Suite[4] + tampering alarm, dynamic analysis, motion detection	Basic Smart Suite[4] + tampering alarm, dynamic analysis, motion detection	---
Motion Detection	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.
Ratings	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)	-10° C to 40° C (14° F to 104° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 7 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, PoE (802.3af), 5.55 W

Network PTZ Camera - Value Series

	Indoor PTeZ™		Indoor PTZ
Model	**DS-2DE2103-DE3/W**	**DS-2DE2202I-DE3/W**	**DS-2DE4220-AE3**
	 1.0 MP	 2.0 MP	 2.0 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/2.0 B/W: 0.01 @ ƒ/2.0	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6
Lens	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
Horizontal Angle of View	80° to 33°	80° to 64.5°	58.3° to 3.2°
Optical Zoom	3x	2x	20x
Pan Range	0° to 350°	0° to 350°	360° endless
Tilt Range	0° to 90° (auto flip)	+5° to 90°	+5° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 80°/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: 100°/sec. Tilt: 80°/sec.	Pan: 50°/sec. Tilt: 50°/sec.	Pan: 160°/sec. Tilt: 120°/sec.
Day/Night	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	---	20	---
Smart Features	Basic Smart Suite[5]	Basic Smart Suite[5]	Basic Smart Suite[4]
Presets/Tours/Patterns	300/0/0	300/0/0	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
Maximum Image Resolution (pixels)	1280x720	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x720	30 @ 1920x1080	30 @ 1920x1080, 1280x720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	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)
Power Requirements (max.)	12 VDC, PoE (802.3af), 6 W	12 VDC, PoE (802.3af), 9 W	24 VAC, PoE (802.3af), 18 W

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

[4]**Basic Smart Suite:** Line Crossing, Intrusion Detection

[5]PTeZ™ cameras have a sensor-based zoom

Network PTZ Camera - Value Series

	Indoor PTZ	Outdoor PTZ				Outdoor IR PTZ		
Model	**DS-2DE5184-AE3**	**DS-2DE3304W-DE**	**DS-2DE4220-AE**	**DS-2DE5174-AE**	**DS-2DE5184-AE**	**DS-2DE5220I-AE**	**DS-2DE7174-AE**	**DS-2DE7184-AE**
	 2.0 MP	 NEW 3.0 MP	 2.0 MP	 1.3 MP	 2.0 MP	 2.0 MP	 1.3 MP	 2.0 MP
Image Sensor	1/2.8" 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	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.4 B/W: 0.01 @ ƒ/1.4	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.5 B/W: 0.01 @ ƒ/1.5	Color: 0.05 @ ƒ/1.4 B/W: 0.01 @ ƒ/1.4, 0 with IR	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6, 0 with IR
Lens	4.7 to 94 mm, motorized zoom, autofocus	2.8 to 12 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	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus
Horizontal Angle of View	58.3° to 3.2°	105° to 33.5°	58.3° to 3.2°	58.3° to 3.2°	58.3° to 3.2°	58.3° to 3.2°	58.3° to 3.2°	58.3° to 3.2°
Optical Zoom	20x	4x (16x Digital)	20x	20x	20x	20x	20x	20x
Pan Range	360° endless	0° to 350°	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	+5° to 90°	+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)
Pan & Tilt Speed (Manual)	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: 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 200°/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: 30°/sec. Tilt: 25°/sec.	Pan: 160°/sec. Tilt: 120°/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.
Day/Night	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
IR Range Max. (meters)	---	---	---	---	---	150	100	100
Smart Features	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]	Basic Smart Suite[4]
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
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
Maximum Image Resolution (pixels)	1920x1080	2048x1536	1920x1080	1280x960	1920x1080	1920x1080	1280x960	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 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.
Ratings	IK9, UL/cUL Listed	IP66, UL/cUL Listed	IP66, IK8, 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	-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)	-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	12 VDC, PoE (802.3af), 8 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

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

[4]**Basic Smart Suite:** Line Crossing, Intrusion

Network Video Recorder

	Plug-and-play					
Model	**DS-7604NI-E1/4P**	**DS-7608NI-E2/8P**	**DS-7608NI-I2/8P**	**DS-7616NI-I2/16P**	**DS-7716NI-SP/16**	**DS-7716NI-I4/16P**
						
Max. Recording Resolution	6 MP	6 MP	12 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.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	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
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
Alarm Input/Output	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	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)	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	24 TB	24 TB
Support DVD-RW	---	---	---	---	Yes, replaces 2x SATA	Yes, replaces 2x SATA
Max. Incoming Bandwidth (Mbps)	40	80	80	160	100	160
Maximum Outgoing Bandwidth (Mbps)	80	80	256	256	240	256
Max. Remote Connections	128	128	128	128	128	128
Rack Units	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
PoE Budget	50 W	120 W	180 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, ≤40 W without HDD	100 to 240 VAC, ≤20W without HDD

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

Network Camera - 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-2DE2202I-DE3/W**	**DS-2DF5220S-DE4/W**
	 1.3 MP	 3.0 MP	 2.0 MP	 4.0 MP	 1.3 MP	 3.0 MP	 1.0 MP	 2.0 MP	 2.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" 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 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.28 @ ƒ/2.0 B/W: 0 with IR	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.1 @ ƒ/2.0 B/W: 0.01 @ ƒ/2.0	Color: 0.3 @ ƒ/1.6 B/W: 0.02 @ ƒ/1.6
Lens	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm option)	Fixed, 4 mm @ ƒ/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	0° to 350°/0° to 90°/NA	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	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)	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 PSU included, PoE (802.3af), 5 W	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), PSIA, CGI ASAPI. Contact factory for details.
[5]PTeZ™ cameras have a sensor-based zoom

Network Video Recorder

	Wi-Fi NVR	
Model	**DS-7104NI-SL/W**	**DS-7108NI-E1/V/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

Encoders and Decoders

	Encoder						Decoder		
Model	**DS-6701HWI**	**DS-6704HWI**	**DS-6708HWI**	**DS-6716HWI**	**DS-6708HQHI-SATA**	**DS-6716HQHI-SATA**	**DS-6401HDI-T**	**DS-6404HDI-T**	**DS-6408HDI-T**
									
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), PSIA, CGI ASAPI. Contact factory for details; Command Protocols: Hikvision and Pelco D/P protocols

TurboHD™ Analog Camera - 720p and 1080p

TurboHD	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**
	 *Lens NOT included 1080p	 720p	 1080p	 1080p	 NEW 1080p	 1080p	 720p	 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)
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
HD-TVI Resolution	1920x1080	1280x720	1920x1080	1920x1080	1920x1080	1920x1080	1280x720	1920x1080	1920x1080
CVBS Resolution	600TVL	720TVL	600TVL	600TVL	---	---	720TVL	---	600TVL
Min. Illumination (lux)	Color: 0.1 @ ƒ/1.2 B/W: 0.0001 @ ƒ/1.2	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4, B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens	C/CS mount	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, motorized	2.8 to 12 mm @ ƒ/1.4, manual	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual
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°
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	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
IR Range Max. (meters)	---	30	30	30	30	20	40	40	40
Vertical Synchronization	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
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
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)
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, 24 VAC, 4 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



TurboHD Cameras Accessories: Video Balun DS-1H18. See page 31 for details.

TurboHD™ Analog Camera - 720p and 1080p

TurboHD	Outdoor Dome	Outdoor Turret							
Model	**DS-2CE56D5T-AVPIR3ZH**	**DS-2CE56C2T-IRM**	**DS-2CE56D1T-IRM**	**DS-2CE56D1T-IT1**	**DS-2CE56C5T-IT1**	**DS-2CE56D5T-IT3**	**DS-2CE56C5T-VFIT3**	**DS-2CE56D5T-VFIT3**	**DS-2CE56D5T-IR3Z**
	 1080p	 720p	 1080p	NEW  EXIR 1080p	 EXIR 720p	 EXIR 1080p	 EXIR 720p	 EXIR 1080p	 1080p
Video Out	HD-TVI/CVBS (Dual)	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	1/3" 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	1920x1080	1280x720	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1920x1080
CVBS Resolution	600TVL	---	---	---	720TVL	600TVL	720TVL	600TVL	600TVL
Min. Illumination (lux)	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ ƒ/1.4, motorized	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 8 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 12 mm, option)	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, motorized
Horizontal Angle of View	103° to 32.1°	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°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	No/No	Yes/No	Yes/No	No/Digital	Yes/120 dB	No/Digital	Yes/120 dB	Yes/120 dB
IR Range Max. (meters)	40	20	20	20	20	40	50	50	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP66, IK10, 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)	-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, 9 W 24 VAC, 9 W	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



TurboHD Cameras Accessories: Video Balun DS-1H18. See page 31 for details.

TurboHD™ Analog Camera - 720p and 1080p

TurboHD — Outdoor Bullet

Model	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
	 720p	 1080p	NEW  720p	 EXIR 720p	 EXIR 1080p	 720p	 1080p	 EXIR 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)
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
HD-TVI Resolution	1280x720	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1920x1080	1920x1080
CVBS Resolution	---	---	---	720TVL	600TVL	720TVL	---	600TVL	600TVL
Min. Illumination (lux)	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 8mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 12 mm option)	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, 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°
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
Day/Night	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
IR Range Max. (meters)	20	20	20	20	40	40	40	50	40
Vertical Synchronization	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
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
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)
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



TurboHD Cameras Accessories: Video Balun DS-1H18. See page 31 for details.

TurboHD™ Analog Camera

TurboHD	Outdoor Bullet
Model	DS-2CE16D9T-AIRAZH
	 1080p
Video Out	HD-TVI/CVBS (Dual)
Image Sensor	1/3" progressive scan CMOS
HD-TVI Resolution	1920x1080
CVBS Resolution	600TVL
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR
Lens	5 to 50 mm @ ƒ/2.0 motorized
Horizontal Angle of View	59.8° to 6.2°
Pan/Tilt/Rotation	3-Axis Positioning
Day/Night	TRUE
BLC/WDR	Yes/120 dB
IR Range Max. (meters)	100
Vertical Synchronization	Internal
OSD Menu via Up-the-Coax (UTC)	Yes
Ratings	IP66, UL/cUL Listed
Operating Temperature Range	-40° C to 60° C (-40 ° F to 140° F)
Power Requirements (max.)	12 VDC, 20 W 24 VAC, 20 W

TurboHD™ Analog PTZ Camera - 720p and 1080p

TurboHD	Indoor	Outdoor	Indoor	Outdoor		Outdoor IR	
Model	DS-2AE4223T-A3	DS-2AE4223T-A	DS-2AE5230T-A3	DS-2AE5123T-A	DS-2AE5230T-A	DS-2AE5123TI-A	DS-2AE7230TI-A
	 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, 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 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/1.6	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/1.6	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/1.6	Color: 0.05 @ ƒ/1.4 B/W: 0.005 @ ƒ/1.4, 0 with IR	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/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)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° 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, IK10, UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, 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



TurboHD Cameras Accessories: Video Balun DS-1H18. See page 31 for details.

Digital Video Recorder

TurboHD	TurboHD™ Tribrid DVR Value Series			TurboHD™ Tribrid DVR Pro Series				
Model	**DS-7204HGHI-SH**	**DS-7208HGHI-SH**	**DS-7216HGHI-SH**	**DS-7308HQHI-SH**	**DS-7316HQHI-SH**	**DS-7332HGHI-SH**	**DS-9008HQHI-SH**	**DS-9016HQHI-SH**
								
Max. Recording Resolution	1080p	1080p	1080p	1080p	1080p	1080p	1080p	1080p
Video Compression	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
HDMI/VGA Output	1920x1080/1920x1080, syncronous output	1920x1080/1920x1080, syncronous output	1920x1080/1920x1080, syncronous output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, syncronous output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output
Spot Monitor Output (BNC)	---	---	---	Yes	Yes	---	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	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)	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/2-ch	4-ch/2-ch	4-ch/1-ch	8-ch/2-ch	16-ch/2-ch
Alarm Input/Output	4 /1	8/4	16/4	16/4	16/4	16/4	16/4	16/4
USB 2.0	2	2	2	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	1 (up to 6 TB each)	2 (up to 6 TB each)	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	6 TB	12 TB	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 HD-TVI	30/12	30/12	30/12	30/30	30/30	30/12	30/30	30/30
Max. Analog (CVBS) Resolution	WD1 (960TVL)	WD1 (960TVL)	WD1 (960TVL)	WD1 (960TVL)	WD1 (960TVL)	WD1 (960TVL)	WD1 (960TVL)	WD1 (960TVL)
Disable Turbo/CVBS Channel/Add IPC	---	---	---	Yes	Yes	Yes	Yes	Yes
Hikvision IP Camera Support	1 up to 1080p	2 up to 1080p	2 up to 1080p	2 up to 1080p (up to 10 ch if HD-TVI channels disabled)	2 up to 1080p (up to 18 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)[7]	18 up to 6 MP (up to 32 if HD-TVI channels disabled)[7]
Front Panel Control	---	---	---	Yes	Yes	Yes	Yes	Yes
OSD Menu–Up-the-Coax	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
eSATA Interface	---	---	---	Yes	Yes	Yes	Yes	Yes
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	Up to 1 channel support	Up to 2 channel support	Up to 2 channel support
Smart Play	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	60	96	128	200	200	200	160 (160 with RAID)	260 (260 with RAID)
Max. Network Streams	128	128	128	128	128	128	128	128
User Names	32	32	32	32	32	32	32	32
Remote User Logins	128	128	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	UL/cUL Listed	UL/cUL Listed
Rack Units	1	1	1	1.5	1.5	1.5	2	2
Power Requirements	12 VDC, ≤15 W without HDD	12 VDC, ≤20 W without HDD	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), PSIA, CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P protocols

[6]**Tribrid Smart Suite:** Line Crossing, Intrusion Detection. Turbo channels; VCA supported from Hikvision IP cameras.

[7]6 MP capability available Q1 of 2016

Analog Camera Picadis - 720TVL/960H

	Indoor	Outdoor Turret			Outdoor Bullet		
Model	**DS-2CE55C2N**	**DS-2CE55C2N-IRM**	**DS-2CE56C2N-IT3**	**DS-2CE55C2N-VFIR3**	**DS-2CE15C2N-IR**	**DS-2CE16C2N-IT3**	**DS-2CE15C2N-VFIR3**
			 EXIR			 EXIR	
Image Sensor	1/3" Picadis	1/3" Picadis	1/3" Picadis	1/3" Picadis	1/3" Picadis	1/3" Picadis	1/3" Picadis
Min. Illumination (lux)	Color: 0.34 @ ƒ/2.2	Color: 0.34 @ ƒ/2.2 B/W: 0 with IR	Color: 0.34 @ ƒ/2.2 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR	Color: 0.34 @ ƒ/2.2 B/W: 0 with IR	Color: 0.34 @ ƒ/2.2 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR
CVBS resolution	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL
Lens	Fixed 3.6 mm @ ƒ/2.2	Fixed 3.6 mm @ ƒ/2.2	Fixed 3.6 mm @ ƒ/2.2	2.8 to 12 mm @ ƒ/1.4, manual	Fixed 3.6 mm @ ƒ/2.2	Fixed 3.6 mm @ ƒ/2.2	2.8 to 12 mm @ ƒ/1.4, manual
Horizontal Angle of View	71.4°	71.4°	71.4°	80° to 27.2°	71.4°	71.4°	80° to 27.2°
Pan/Tilt/Rotation	0° to 355°/0° to 90°/0° to 355°	0° to 360°/0° to 75°/0° to 360°	0° to 360°/0° to 75°/0° to 360°	0° to 360°/0° to 75°/0° to 360°	0° to 360°/0° to 90°/0° to 360°	0° to 360°/0° to 90°/0° to 360°	0° to 360°/0° to 90°/0° to 360°
Day/Night	Electronic	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
IR Range Max. (meters)	No	20	40	40	20	40	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu	No	No	No	No	No	No	No
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
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, 1 W	12 VDC, 4.5 W	12 VDC, 5 W	12 VDC, 6.5 W	12 VDC, 4.5 W	12 VDC, 5 W	12 VDC, 6.5 W

	Monitors		
Model	**DS-D5042FL**	**DS-D5032FL**	**DS-D5021FC**
			
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 (H×V)	0.807 mm × 0.807 mm	0.807 mm × 0.807 mm	0.2385 mm × 0.2385 mm
Max. Resolution	1920×1080p	1920×1080p	1920×1080p
Brightness	400cd/m² (Typical)	400cd/m² (Typical)	200cd/m² (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×200 mm	100 mm x 100 mm
Table Mount	190109090	190109088	Included
Wall Mount	190108462	190112360	190112560
Dimension (W×H×D)	962.2 × 570.5 × 71.55 mm (37.9" x 22.5" x 2.8")	737.4 × 452.5 × 70.65 mm (29" x 17.8" x 2.78")	491.55 × 301.12 × 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)

	Ethernet Over Coax			
Model	**DS-1H05-T**	**DS-1H05-R**	**DS-1H05-8R**	**DS-1H05-16R**
				
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)

	HD-TVI Joystick	HD-TVI Monitor	HD-TVI Converter	Balun
Model	**DS-1045**	**DS-TT-X41T**	**DS-1H33**	**DS-1H18**
				
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

PoE Gigabit L2.5 Ethernet Switch

	DS-3D2208P	DS-3D2228P
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
Forwarding	4.2 Mpps	9.6 Mpps
Backplane	5.6 Gbps	12.8 Gbps
PoE Budget	170 W (8 PoE or 4 PoE+)	400 W (24 PoE or 12 PoE+)
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)
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.	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.	1EEE802.1X, ACL (IP/MAC/VLAN), DHCP SNOOPING, DAI, ARP PREVENTION (STATIC/DYNAMIC), RADIUS, SSH.
Operating Temperature Range	0° C to 50° Cw	0° C to 50° C
Power Requirements	110 to 240 VAC, 170 W	110 to 240 VAC, 400 W

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)

Megapixel Auto Iris Lenses

	TV0515D-MPIR	YV2.8x2.8SR4A-SA2	YV3.3x15SR4A-SA2L	DV4x12.5SR4A-SA1	TV2712D-MPIR	TV0550D-MPIR	DV3.8x4SR4A-SA1	DV4X12.5SR4A-SA1L	HV0733D-6MP	HV1140D-8MPIR	HV3816D-8MPIR
Model											
Specifications	1.3 MP, 1/3" imager size, IR, auto iris, 5 to 15 mm, ƒ/1.4, manual zoom, CS mount	3.0 MP, 1/2.7" imager size, auto iris, 2.8 to 8 mm, ƒ/1.3, manual zoom, CS mount	3.0 MP, 1/2.7" imager size, auto iris, 15 to 50 mm, ƒ/1.5, manual zoom, CS mount	5.0 MP, 1/1.8" imager size, auto iris, 12.5 to 50 mm, ƒ/ 1.6, manual zoom, C mount	3.0 MP, 1/2.7" imager ,2.7 to 12 mm, ƒ/1.2, manual zoom, CS mount	3.0 MP, 1/2.7 imager, 5 to 50 mm, ƒ/1.7, manual zoom, CS mount	3.0 MP, 1/1.8 sensor, auto iris, IR, 4 to 15.2 mm, ƒ/1.5, manual zoom, C mount	5.0 MP, 1/1.8 sensor, auto iris, IR, 12.5 to 50 mm, ƒ/1.6, manual zoom, C mount	Lens, 6 MP 1/1.8 sensor, auto iris, 7-33mm, ƒ/0.95, manual zoom, CS Mount	4K, 1/1.8" sensor, auto iris, 11 to 40 mm, ƒ/1.5, IR, manual zoom, CS mount	4K, 1/1.8" sensor, 3.8 to 16 mm, ƒ/1.5, IR, manual zoom, CS mount

	Surveillance Grade Hard Drives					Enterprise Hard Drives			
Model	**HK-HDD1T**	**HK-HDD2T**	**HK-HDD3T**	**HK-HDD4T**	**HK-HDD6T**	**HK-HDD1T-E**	**HK-HDD2T-E**	**HK-HDD3T-E**	**HK-HDD4T-E**
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

DVD-RW	Micro SD Card	
HIK-DVDRW	**DS-UTF32GI-H1**	**DS-UTF64GI-H1**
DVD-RW option for NVR and DVR	32 GB uSD	64 GB uSD

	PTZ Brackets											Camera Housing			Box Camera Brackets		Universal Bracket for Pendant Caps		
Model	**WMP-L**	**JBP -W**	**CPM-S**	**CPM-L**	**CPMPE**	**WMP-S**	**RPM**	**PMPL**	**CMPL**	**CMP**	**PMP**	**CHB**	**CHB-HBW**	**CHB-HB**	**WBS**	**WBL**	**CPM**	**CPME**	**WMS**
Description	Wall Mount PTZ-Long	PTZ Junction box with wall bracket	Ceiling Pendant Mount-Short	Ceiling Pendant Mount-Long	Ceiling Pendant Mount, extension pipe 1.5" diameter	Short wall mount for 4" PTZ	Roof Parapet Mount	Pole Mount Large (requires JBP-W)	Corner Mount Large (requires JBP-W)	Corner Mount Adapter PTZ	Pole Mount Adapter PTZ	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

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

	Universal Brackets *(continued)*				Sun/Rain Shield		DVR/ NVR	Camera Brackets											
Model	**WML**	**RPM**	**PM**	**CM**	**SRSM**	**SRSL**	**WMR***	**PC110**	**PC110T**	**PC120**	**PC130**	**PC130T**	**PC135**	**PC140**	**PC160**	**PC165**	**PC-FE**	**CB110**	**CB-130**
Description	Long Wall Mount, junction box	Roof Parapet Mount	Pole Mount Adapter	Corner Mount Adapter	Med. 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	160 mm Pendant Cap	165 mm Pendant Cap	Pendant Cap for fisheye	Conduit Base	Conduit Base

*WMR is compatible with DS-7608NI-E2/8P and DS-7616NI-E2/16P
Pendant caps are 1.0" thread and come with 1.5" and .75" adaptors

	Camera Brackets *(continued)*																	
Model	**CB135**	**CB165**	**CB-FE**	**CBM**	**CBS**	**CBXS**	**CBT-1**	**AB110**	**AB135**	**AB165**	**AB-FE**	**AB-FE2**	**ABM**	**RCM-1**	**RCM-2**	**RCM-3**	**WM-C**	**WM110**	**GP100**
Description	Conduit Base	Conduit Base	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	Angled Base	Recessed ceiling mount	Recessed ceiling mount	Recessed ceiling mount	Wall Mount Compact	Plastic Wall Mount	Single Gang Plate

Bracket Chart

		Pendant Cap										Conduit Base									Angled Base							Recessed Ceiling Mount			Wall Mount		Sun/Rain Shade		†
	Camera Model	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC160	PC-FE	PC165	CB110	CB130	CB135	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	ABS	RCM-1	RCM-2	RCM-3	WM-C	WM110	SRSL	SRSM	GP100
NETWORK CAMERA - SMART SERIES	DS-2CD41xxFxx-IZ				●									●								●						●					●		
	DS-2CD42xxFxx-IZHx*												●																						
	DS-2CD43xxFWD-IZHSx								●																								●		
	DS-2CD45xxFxx-IZHx										●				●								●												
	DS-2CD4AxxFxx-IZHx*												●						●																
	DS-2CD63xxFxx-Ix									●						●								●											
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																														●				
Wi-Fi SOLUTIONS	DS-2CD21x2F-IWS	●										●									●											●			
	DS-2DE2103-DE3/W																														●				
	DS-2DE2202I-DE3/W																														●				
	DS-2CD25x2FWD-IWS			●																															
		PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC160	PC-FE	PC165	CB110	CB130	CB135	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	ABS	RCM-1	RCM-2	RCM-3	WM-C	WM110	SRSL	SRSM	GP100

* Includes CB130 conduit base
† Gang Plate

Bracket Chart

		Pendant Cap										Conduit Base								Angled Base							Recessed Ceiling Mount			Wall Mount		Sun/Rain Shade		†
	Camera Model	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC160	PC-FE	PC165	CB110	CB130	CB135	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	ABS	RCM-1	RCM-2	RCM-3	WM-C	WM110	SRSL	SRSM	GP100
TurboHD™ CAMERAS	DS-2CE16C2T-IR																		●															
	DS-2CE16C5T-IT1												●					●																
	DS-2CE16xxT-xxxxxx												●					●																
	DS-2CE16D1T-IT1																		●															
	DS-2CE16D1T-IR																		●															
	DS-2CE16D5T-IT3																		●															
	DS-2CE56C2T-IRM		●																●															
	DS-2CE56C5T-AVFIR				●																									●			●		
	DS-2CE56C5T-AVPIR3							●																					●				●		
	DS-2CE56C5T-IT1					●											●									●								
	DS-2CE56C5T-VFIT3					●											●									●								
	DS-2CE56D1T-AVFIR				●																									●			●		
	DS-2CE56D1T-AVPIR3							●																					●				●		
	DS-2CE56D1T-IT1		●															●									●							
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	DS-2CE56D1T-VPIR	●										●									●											●		●
	DS-2CE56D5T-AIRZ				●																									●			●		
	DS-2CE56D5T-AVFIR				●																									●			●		
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	DS-2CE56D5T-AVPIR3ZH							●																					●				●		
	DS-2CE56D5T-IR3Z					●											●									●								
	DS-2CE56D5T-IT3					●											●									●								
	DS-2CE56D5T-VFIT3					●											●									●								
ANALOG CAMERA PICADIS - 720TVL/960H	DS-2CE15C2N-VFIR3												●					●																
	DS-2CE16C2N-IT3																	●																
	DS-2CE55C2N																																		●
	DS-2CE55C2N-IRM		●																																
	DS-2CE55C2N-VFIR3		●														●											●							
	DS-2CE56C2N-IT3	●																	●								●					●			
		PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC160	PC-FE	PC165	CB110	CB130	CB135	CB165	CB-FE	CBM	CBS		CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	ABS	RCM-1	RCM-2	RCM-3	WM-C	WM110	SRSL	SRSM	GP100

† Gang Plate

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 o 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.

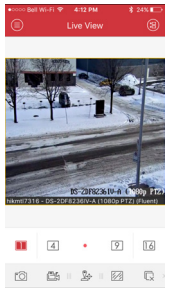
Number of Devices	100 device addresses
Live View	iPhone/Android Phone: 16 cameras
Remote Playback	iPhone/Android Phone/Windows Phone: 1-ch playback; iPad/Android Tablet: up to 4-ch
Configurable Image Quality	Clear, balanced, fluent, and customized
Frame Rate	Up to 25/30 fps (dependant on device and network)
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]



iVMS-4500 quad view



iVMS-4500 single view

[1] iPhone/iPad app must be acquired from the iTunes App Store.
[2] Android app can be obtained at the Android Market or Hikvision.com.
[3] Windows Phone 8 app must be acquired from the Windows Store.

Standard Software is included in the compatible product packages only. No-fee policy applies to license, channel, software support agreement, and technical support access of Standard Software only. Customized software may incur additional fee.

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Hikvision Learning Institute

The Hikvision Learning Institute was created to familiarize designers, integrators, installers, and end-users with the rapidly changing technical challenges that a proper video security installation demands, using state-of-the-art products. From essential understanding of terminology to comprehensive networking analysis using diverse industry-tested theoretical and hands-on training in a supportive environment, Hikvision Learning Institute provides the best training program in the industry.

For more information: training.usa@hikvision.com

Hikvision Partner Program: Fostering Partner Excellence

The Hikvision Dealer Partner program rewards partner loyalty with exciting relationship-based advantages and recognition. Through this program, Hikvision extends exclusive access to products, business assistance, and priority service to key industry partners. In April 2016, Hikvision launched a new category of the Partner Program: Diamond. This tier is designed to meet the needs of enterprise-level partners with built-in incentives for enhanced profitability and enriched training certification and support. For more information about joining our partner network as a Silver, Gold, Platinum, or Diamond level member, contact partners.usa@hikvision.com.

HIKVISION®

GREAT PRODUCTS
GREATER PARTNERSHIPS™

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