

HIKVISION[®]



**GREAT
PRODUCTS
GREATER
PARTNERSHIPS** /

Product
Quick Guide

2015 FALL/WINTER

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[®]

Product
Quick Guide

2015 FALL / WINTER

Contents

7-15 Professional Solutions

- Box Camera
- Indoor/Outdoor Dome
- Outdoor Bullet
- Fisheye
- Covert
- Indoor/Outdoor PTZ
- Outdoor IR PTZ
- NVR

16-17 Value Plus Solutions

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

18-22 Value Solutions

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

23-24 Wi-Fi Solutions

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

24-30 TurboHD/Analog Migration Solutions

- Encoders/Decoders
- TurboHD Analog Camera - 720p and 1080p
- TurboHD Analog PTZ Camera - 720p and 1080p
- TurboHD Tribrid DVR
- Analog Camera Picadis - 720TVL/960H

31-32 Accessories

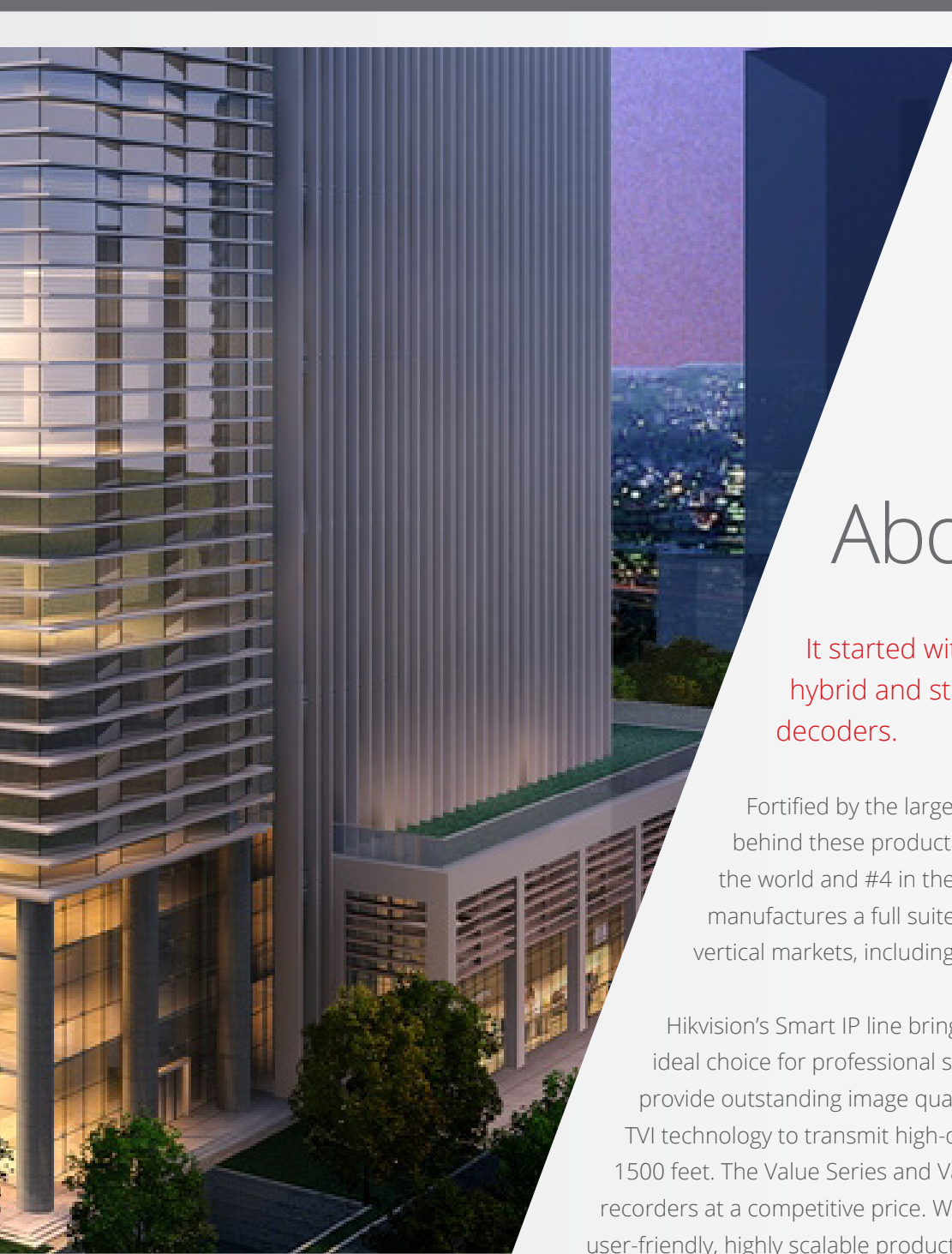
- Ethernet Over Coax
- PoE Gigabit L2.5 Ethernet Switch
- Keyboards
- HD-TVI Accessories
- Megapixel Auto Iris Lenses
- Hard Drives
- Camera Brackets and Housings

33-34 Bracket Chart

35 iVMS Client Software

36 Quick Reference Guide





The Leading CCTV Equipment Provider in the World

2015 IHS Report

About Hikvision

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

Fortified by the largest R&D team 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 banking and finance, retail, and education.

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.

Hikvision designs and manufactures a full line of innovative products.



Video Management Software
iVMS-4200 and iVMS-4500



Network Cameras



Smart IP PTZs



TurboHD Cameras



Analog Cameras

Learn more about becoming a Hikvision Dealer Partner

Contact partners.usa@hikvision.com

GREAT PRODUCTS 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.



NVRs



Tribrid DVRs



Encoders and Decoders



WiFi NVRs

Featured Products



3 MP 36x Network IR PTZ Camera

See [DS-2DF8336IV-AEL](#) Page 14

Hikvision's 3 MP Network PTZ Dome Camera boasts 120 dB true WDR, integrated Smart IR at a distance of up to 600 feet, and 36x optical zoom. Smart tracking allows the camera to detect progressively moving objects and follow them within its area of coverage. Smart defog and HLC/BLC improve image quality in challenging conditions. This camera is an excellent choice for situations that require attention to detail over expansive areas.



4 MP WDR Varifocal Network Dome Camera

See [DS-2CD2742FWD-IZ](#) Page 16

This Value Plus camera from Hikvision offers a variety of features, including a 2.8–12 mm remote zoom/focus lens, at a competitive price. With up to 4 MP resolution, the camera boasts impressive image quality that includes 120 dB WDR, 3D digital noise reduction, and up to 120 feet (~40 meters) of Smart IR range. Alerts are generated for intrusion detection, line crossing detection, motion detection, and more.



TurboHD™ 2 MP Motorized Varifocal IR Bullet Camera

See [DS-2CE16D9T-AIRAZH](#) Page 27

Part of Hikvision's TurboHD line, this camera transmits 1080p images over coax or UTP cable. Key features include a 2 MP CMOS sensor with 120 dB WDR capability. It also features installer-friendly up-the-coax (UTC) on-screen menu control, and a remote zoom/focus lens for easy setup and configuration. A heater enables the camera to withstand a broad range of temperatures. Smart IR and true day/night allow for high-quality night images.



TurboHD™ "Tribrid" DVR

See [DS-9016HQHI-SH](#) Page 29

Hikvision's TurboHD DVR uses HD-TVI technology to provide a powerful "tribrid" solution, connecting analog, IP, and HD-TVI cameras. It boasts 16 analog inputs that auto-detect HD-TVI or traditional analog and 16 IP inputs that support cameras up to 6 MP resolution. This recorder is the perfect way to bring a legacy system into an HD future.

Vertical Markets at a Glance

Hikvision meets the needs of a variety of vertical markets with its diverse array of products and features.

Retail

The Fisheye Camera, available in 3 MP and 6 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.

"Hikvision's products have more features and functionality than the competitors'."

Domenic DiPietra, security consultant,
Imperial Surveillance

Education

The 4 MP Mini Dome Network Camera (DS-2CD2542FWD-IS, page 16) combines high image quality with high value. With near real-time (20 fps) 4 MP high resolution and up to 120 dB wide dynamic range, it's well suited to capture remarkable detail in interior and exterior environments.

"Hikvision cameras are the best I've ever seen."

Malcolm Wentworth, COO, Texans
Can and Cars for Kids










Banking/ Finance

Hikvision's Covert Camera (page 11) is ideal for ATMs and banking environments. Different options for lens and mounting type allow users to choose a model that fits their surveillance needs. Though the camera's small size lets it remain discreet, its robust image processing capabilities and onboard storage make it a powerful surveillance tool.

"As an integrator, we have the opportunity to sell any number of different brands, but we chose Hikvision because it's easy to use, easy to install, very low maintenance, and very high quality."






Fred Harris, core commercial sales
representative, ASG Security

Network Camera - Smart Series

smart IPC		Box Camera						Indoor Dome	
Model	DS-2CD4012FWD-A	DS-2CD6026FHW-A	DS-2CD6026FHW-A3/A11	DS-2CD4025FWD-A	DS-2CD4032FWD-A	DS-2CD4065F-A	DS-2CD4085F-A	DS-2CD4112FWD-IZ	DS-2CD4125-FWD-IZ
		 NEW		 NEW					 NEW
	*Lens NOT included 1.3 MP	*Lens NOT included 2.0 MP	DarkFighter 2.0 MP	*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 @ f/1.2 B/W: 0.001 @ f/1.2	Color: 0.001 @ f/1.2 B/W: 0.0001 @ f/1.2	Color: 0.0016 @ f/1.5 B/W: 0.00016 @ f/1.5	Color: 0.005 @ f/1.2 B/W: 0.0005 @ f/1.2	Color: 0.1 @ f/1.2 B/W: 0.01 @ f/1.2	Color: 0.02 @ f/1.2 B/W: 0.002 @ f/1.2	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4 B/W: 0 with IR
Lens	Auto back focus, C/CS mount	Auto back focus, C/CS mount	A11: 11 to 40 mm f/1.5 A3: 3.8 to 16 mm f/1.5 Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/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/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Max. 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.

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

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
	 3.0 MP	 6.0 MP	 4K	 1.3 MP	 1.3 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
Min. Illumination (lux)	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/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°
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
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB
IR Range max (meters)	30	30	30	30	80
Video Compression	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Max. Image Resolution (pixels)	2048x1536	3072x2048	4096x2160	1280x960	1280x960
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)
Multi-Streaming	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
Motion Detection	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.
Ratings	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, 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)	-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

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

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










Why Smart IP?

Smart IP brings intelligence, efficiency, and convenience to video surveillance. Enriched with Smart technologies, Hikvision's Smart IP cameras, Smart PTZ Dome cameras, and Smart NVRs are all designed to deliver Smart security in the modern marketplace.

Easily meeting all bandwidth and storage utilization requirements, Hikvision's Smart IP Camera Series offers unparalleled image quality and customer convenience. Similarly, Hikvision's Smart PTZ Dome Camera Series features excellent HD, smooth pan/tilt/zoom, and Smart tracking functions to ensure the elimination of blind spots within the camera's area of coverage. Smart detection features include line crossing, intrusion, region entrance, region exiting, unattended baggage, object removal, scene change, sudden audio increase/decrease, audio loss, and defocus. Object counting and image defog are also supported, completing a full suite of significant and useful features.

At the core of this solution is Hikvision's Smart NVR. With the ability to connect all Hikvision Smart cameras into a single integrated system, it simplifies the experience even further. Features such as live viewing, recorded video, Smart video playback, and event playback/backup are available. In addition, the Smart NVR boasts multi-channel recording, HD video preview, massive storage capacity, and system stability, providing an ideal choice for professional surveillance applications.










Network Camera - Smart Series

Model	Outdoor Bullet							Outdoor Dome	
	DS-2CD4A25FWD-IZH	DS-2CD4A25FWD-IZH8	DS-2CD4A26FWD-IZH	DS-2CD4A35FWD-IZH	DS-2CD4A35FWD-IZH8	DS-2CD4A65F-IZH	DS-2CD4A85F-IZH	DS-2CD4312FWD-IZHS	DS-2CD4312FWD-IZHS8
									
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	98.4° to 30.2°	27.8° to 9.1°	92° to 32°	105° to 32°	29.7° to 9.7°	92.4° to 31.8°	96.0° to 32.6°	98.4° to 30.2°	27.8° to 9.1°
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	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/140 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB
IR Range max (meters)	50	100	50	50	100	50	50	50	50
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Max. Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	2048x1536	2048x1536	3072x2048	4096x2160	1280x960	1280x960
Frame Rate (fps)	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@2048x1536 (45@2048x1536, 60@1920x1280 with WDR off)	30@2048x1536 (45@2048x1536, 60@1920x1280 with WDR off)	24 @ 3072x2048, 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720	30 @ 1280x960, (60 @ 1280x720 with WDR off)	30 @ 1280x960, (60 @ 1280x720 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 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
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---	---	IN: 2 line OUT: 2 line	IN: 2 line OUT: 2 line
Alarm Input/Output	---	---	---	---	---	---	---	2/2	2/2
Local Storage	MicroSD 128 GB max.	MicroSD 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed
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), 21 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	24 VAC/PoE (802.3af), 13 W	24 VAC/PoE (802.3af), 13 W

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

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









Network Camera - Smart Series

Network Camera - Smart Series									
smart IPC	Outdoor Dome								
Model	DS-2CD4324FWD-IZH5	DS-2CD4324FWD-IZH5S	DS-2CD4526FWD-IZH	DS-2CD4332FWD-IZH5	DS-2CD4332FWD-IZH5S	DS-2CD4535FWD-IZH	DS-2CD4535FWD-IZH8	DS-2CD4565F-IZH	DS-2CD4585F-IZH
 2.0 MP	 2.0 MP	 DarkFighter 2.0 MP	 3.0 MP	 3.0 MP	 3.0 MP	 3.0 MP	 6.0 MP	 4K	
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	113° to 33.8°	31.2° to 10.2°	92° to 32°	91.2° to 28.3°	26° to 8.54°	105° to 32°	29.7° to 9.7°	94.5° to 30.5°	96.0° to 32.6°
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	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital
IR Range max (meters)	30	50	40	30	50	40	50	40	40
Video Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG/MPEG 4	H.264/MJPEG/MPEG 4	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	2048x1536	2048x1536	2048x1536	2048x1536	3072x2048	4096x2160
Frame Rate (fps)	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)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 2048x1536, (45 @ 2048x1536, 60 @ 1920x1080 with WDR off)	30 @ 2048x1536, (45 @ 2048x1536, 60 @ 1920x1080 with WDR off)	24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560 x 1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080, 1280x720
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	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: 2 line OUT: 2 line	IN: 2 line OUT: 2 line	IN: 1 line OUT: 1 line	IN: 2 line OUT: 2 line	IN: 2 line OUT: 2 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	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.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed
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.)	24 VAC/PoE+ (802.3at), 14 W	24 VAC/PoE+ (802.3at), 14 W	24 VAC, 12 VDC, PoE+ (802.3at), 17.5 W	24 VAC/PoE (802.3af), 13 W	24 VAC/PoE (802.3af), 13 W	12 VDC, 24 VAC/PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC/PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W

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

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	Fisheye				Covert			
Model	DS-2CD6332FWD-I	DS-2CD6332FWD-IV	DS-2CD6362F-I	DS-2CD6362F-IV	DS-2CD6412FWD-C2 (Base Unit)	DS-2CD6412FWD-L10 (Lens/Sensor)	DS-2CD6412FWD-L20 (Lens/Sensor)	DS-2CD6412FWD-L30 (Lens/Sensor)
	 3.0 MP	 3.0 MP	 6.0 MP	 6.0 MP	 6.0 MP <i>*Base unit ONLY</i>	 1.3 MP <i>*Base unit NOT included</i>	 1.3 MP <i>*Base unit NOT included</i>	 1.3 MP <i>*Base unit NOT included</i>
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	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: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	---	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.0
Lens	1.19 mm @ f/2.0, Fisheye	1.19 mm @ f/2.0, Fisheye	1.27 mm @ f/2.8, Fisheye	1.27 mm @ f/2.8, Fisheye	---	Fixed, 3.7 mm @ f/2.3	Fixed, 3.7 mm @ f/2.3	Fixed, 2.8 mm, 4 mm @ f/2.0
Horizontal Angle of View	180°	180°	180°	180°	Lens dependent	57°	57°	92.5°, 73.1°
Day/Night	TRUE	TRUE	TRUE	TRUE	---	Electronic	Electronic	Electronic
BLC/WDR	No/120 dB	No/120 dB	No/Digital	No/Digital	---	No/120 dB	No/120 dB	No/120 dB
IR Range max (meters)	10	10	10	10	---	---	---	---
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	---	---	---
Max. Image Resolution (pixels)	2048x1536	2048x1536	3072x2048	3072x2048	---	1280x960	1280x960	1280x960
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)	30 @ 1280x960, 1280x720	---	---	---
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	Triple Stream	---	---	---
Smart Features	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Full Smart Suite ¹ except Object Counting	---	---	---
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	IN: 1 line/mic OUT: 1 line	---	---	---
Alarm Input/Output	---	---	---	---	1/1	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---	---
Ratings	UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
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), 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.

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









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
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.3 @ f/1.6 B/W: 0.02 @ f/1.6	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6
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
Max. 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

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

The Smart PTZ dome incorporates innovative lens design, ISP (Image Signal processing) and Smart analytics. It provides options with real-time 25fps at 4K, 3MP True WDR, and 2MP DarkFighter and LightFighter options, all with precision 36x optical zoom. 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

 Outdoor								
Model	 1.3 MP	 2.0 MP	 DarkFighter 2.0 MP	 DarkFighter 2.0 MP NEW	 LightFighter 2.0 MP	 3.0 MP	 4K NEW	
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/1.7" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6	Color: 0.005 @ f/1.5 B/W: 0.0005 @ f/1.5	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5	
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	5.9 to 135.7 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	5.7 to 205.2 mm, motorized zoom, autofocus	
Horizontal Angle of View	57.4° to 2.8°	65.5° to 2.11°	59.8° to 3.0°	58.7° to 2.0°	60.6° to 3.68°	60.6° to 3.68°	61.7° to 2.0°	
Optical Zoom	30x	30x	23x	36x	36x	36x	36x	
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)	-15° to 90° (auto flip)	-25° 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 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 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.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	
BLC/WDR	Yes/Digital	Yes/Digital	No/120 dB	No/120 dB	No/140 dB	No/120 dB	Yes/Digital	
Electronic Image Stabilization	Yes	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	PTZ Suite ² / 300/8/4	PTZ Suite ² / 300/8/4	
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	
Max. Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	1920x1080	2048x1536	4096x2160	
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720, (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720, (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off)	25 @ 4096x2160, 30 @ 3840x2160	
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, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	
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, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, 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
²PTZ Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Sudden Audio Increase/Decrease, Audio Loss, Defog

Network PTZ Camera - Smart Pro Series

		Outdoor						
Model	DS-2DF7276-AEL	DS-2DF7286-AEL	DS-2DF8223I-AEL	DS-2DF8236I-AEL	DS-2DF8236IV-AEL	DS-2DF8336IV-AEL	DS-2DF8836IV-AEL	
	 1.3 MP	 2.0 MP	 DarkFighter 2.0 MP	 DarkFighter 2.0 MP NEW	 LightFighter 2.0 MP	 3.0 MP	 4K NEW	
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/1.7" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6, 0 with IR	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6, 0 with IR	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5, 0 with IR	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5 with IR	
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	5.9 to 135.7 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	5.7 to 205.2 mm, motorized zoom, autofocus	
Horizontal Angle of View	57.4° to 2.8°	65.5° to 2.11°	59.8° to 3.0°	58.7° to 2.0°	60.6° to 3.68°	60.6° to 3.68°	61.7° to 2.0°	
Optical Zoom	30x	30x	23x	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)	-15° to 90° (auto flip)	-25° 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	No/120 dB	No/120 dB	No/140 dB	No/120 dB	Yes/Digital	
Electronic Image Stabilization	Yes	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/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	
Max. Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	1920x1080	2048x1536	4096x2160	
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720, (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off)	25 @ 4096x2160, 30 @ 3840x2160	
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, IK10, UL/cUL Listed	IP66, 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)	-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	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
²PTZ 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
				 NEW	 NEW	 NEW	 NEW
Max. Recording Resolution	6 MP	6 MP	6 MP	4K	4K	4K	4K
Video Compression	H.264	H.264	H.264	H.264, H264+, H.265	H.264, H264+, H.265	H.264, H264+, H.265	H.264, H264+, H.265
HDMI/VGA Output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080 (HDMI1), 3840x2160 (HDMI2), independent output	1920x1080 (HDMI1), 3840x2160 (HDMI2), independent output	1920x1080 (HDMI1), 3840x2160 (HDMI2), independent output	1920x1080 (HDMI1), 3840x2160 (HDMI2), independent output
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), 1 eSATA	8 SATA interfaces (up to 6 TB each), 1 eSATA	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
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.

³Requires rack shelf (not included) to mount in a 19" equipment rack; it is not recommended to rack mount the unit using rack rails and rack ears (not included) due to the weight. Weight without HDD ≤ 15.86 Kg (31.79 lb).

Network 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-ISZ	DS-2CD2742FWD-ISZ	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 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR
Lens	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 4mm @ f/2.0 (6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, motorized	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)
Horizontal Angle of View	106° (2.8 mm), 85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	106° to 35°	112° to 33.8°	106° (2.8 mm), 85° (4 mm), 52° (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/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. 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	IN: 1 mic OUT: 1 line	IN: 1 mic 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, IK8, 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.

⁴Basic Smart Suite: Line Crossing, Intrusion








Network Camera - Value Plus Series

	Outdoor Turret	Outdoor Bullet					
	DS-2CD2342WD-I	DS-2CD2022WD-I	DS-2CD2042WD-I	DS-2CD2T22WD-I5	DS-2CD2T42WD-I5	DS-2CD2622FWD-ISZ	DS-2CD2642FWD-ISZ
Model	 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 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/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/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/ MJPEG	H.264/MJPEG
Max. 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.

⁴Basic Smart Suite: Line Crossing, Intrusion

Network Camera - Value Series

	Indoor Recessed Dome		Outdoor Dome		Outdoor Compact Dome			
Model	DS-2CD2E10F  1.3 MP	DS-2CD2E20F  2.0 MP	DS-2CD2112F-I  1.3 MP	DS-2CD2132F-I  3.0 MP	DS-2CD2510F  1.3 MP	DS-2CD2512F-I  1.3 MP	DS-2CD2520F  2.0 MP	DS-2CD2532F-I  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 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.19 @ f/2.0 B/W: 0 with IR
Lens	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 2 mm @ f/2.0	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2 mm @ f/2.0	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)
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	TRUE	TRUE	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 (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
Max. 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, 704 x 576	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	---	---	---	---	---	OUT: 1 MIC: Built in	---	OUT: 1 line MIC: Built in
Alarm Input/Output	---	---	---	---	---	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.
Ratings	UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, 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.

⁴Basic Smart Suite: Line Crossing, Intrusion

Network Camera - Value Series

	Outdoor Dome		Outdoor Turret	Outdoor Bullet		
Model	DS-2CD2712F-I  1.3 MP	DS-2CD2732F-I  3.0 MP	DS-2CD2332-I  EXIR 3.0 MP	DS-2CD2012-I  1.3 MP	DS-2CD2032-I  3.0 MP	DS-2CD2212-I5  EXIR 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
Min. Illumination (lux)	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.4 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	Fixed 4 mm @ f/2.0 (2.8mm, 6mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6mm, 12 mm option)
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)
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
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (meters)	30	30	30	30	30	50
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280x960	2048x1536	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
Multi-Streaming	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
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---
Alarm Input/Output	---	---	---	---	---	---
Local Storage	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
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 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

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

⁴Basic Smart Suite: Line Crossing, Intrusion

Value Series for unprecedented features-to-cost ratio



Basic functionality doesn't have to mean feature-poor compromises.

Hikvision's Value Series provides popular features at moderate prices. Wide dynamic range (WDR) extends the light range that a camera can capture. Motorized lenses offer convenient remote focusing. Line crossing and intrusion detection help monitor surveillance areas with automatic entry/exit/movement detection. Bottom line: Value Series cameras bring sophisticated features to your surveillance system, easily and inexpensively.

Network Camera - Value Series

	Outdoor Bullet			Indoor Pinhole	Indoor Fisheye
	DS-2CD2232-1S	DS-2CD2612F-1	DS-2CD2632F-1	DS-2CD2D14WD	DS-2CD2942F-1S
Model	 EXIR 3.0 MP	 1.3 MP	 3.0 MP	 1.0 MP	 4.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/4" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.1 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0	Color: 0.018 @ f/1.6 B/W: 0.0018 @ f/1.6 0 with IR
Lens	Fixed 4 mm @ f/2.0 (6mm, 12 mm option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	Pinhole, 2.8 mm @ f/2.0	Fisheye, 1.6 mm, f/1.6
Horizontal Angle of View	70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	98.4° to 30.2°	91.2° to 28.3°	67.3°	186° (horizontal), 106° (vertical)
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 360°/0° to 90°/na	---
Day/Night	TRUE	TRUE	TRUE	Electronic	Electronic
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	No/100 dB	Yes/Digital
IR Range (meters)	50	30	30	---	8
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	2048x1536	1280x960	2048x1536	1280x720	2560x1440
Frame Rate (fps)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x720, 704x576, 640x480	15 @ 2560x1440 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite ⁴	Basic Smart Suite ⁴	Basic Smart Suite ⁴	Basic Smart Suite ⁴ + tampering alarm, dynamic analysis, motion detection	---
Motion Detection	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	---	1/1
Local Storage	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	MicroSD, 128 GB max.
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	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)	-10° C to 40° C (14° F to 104° F)
Power Requirements (max.)	12 VDC, PoE (802.3af), 9 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, 3 W	12 VDC, PoE (802.3af), 5.55 W

Network PTZ Camera - Value Series









	Indoor PTeZ™	
	DS-2DE2103-DE3/W	DS-2DE22021-DE3/W
Model	 1.0 MP	 2.0 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/2.0 B/W: 0.01 @ f/2.0
Lens	3.6 to 11 mm, 3x (effective) ⁵ via PTeZ™	3.6 to 8.6 mm, 2x (effective) ⁵ via PTeZ™
Horizontal Angle of View	80° to 33°	80° to 64.5°
Optical Zoom	3x	2x
Pan Range	0° to 350°	0° to 350°
Tilt Range	0° to 90° (auto flip)	+5° to 90°
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 & Tilt Speed (Preset)	Pan: 100°/sec. Tilt: 80°/sec.	Pan: 50°/sec. Tilt: 50°/sec.
Day/Night	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital
IR Range max (meters)	---	20
Smart Features	Basic Smart Suite ⁵	Basic Smart Suite ⁵
Presets/Tours/Patterns	300/0/0	300/0/0
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Video Compression	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280x720	1920x1080
Frame Rate (fps)	30 @ 1280x720	30 @ 1920x1080
Local Storage	MicroSD, 128 GB max	MicroSD, 128 GB max
Ratings	UL/cUL Listed	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)
Power Requirements (max.)	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 9 W

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

⁴Basic Smart Suite: Line Crossing, Intrusion Detection





⁵PTeZ™ cameras have a sensor-based zoom

Network PTZ Camera - Value Series

	Indoor PTZ		Outdoor PTZ			Outdoor IR PTZ		
Model	DS-2DE4220-AE3  2.0 MP	DS-2DE5184-AE3  2.0 MP	DS-2DE4220-AE  2.0 MP	DS-2DE5174-AE  1.3 MP	DS-2DE5184-AE  2.0 MP	DS-2DE5220I-AE  2.0 MP	DS-2DE7174-AE  1.3 MP	DS-2DE7184-AE  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 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.5 B/W: 0.01 @ f/1.5	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6, 0 with IR
Lens	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	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°	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°	58.3° to 3.2°
Optical Zoom	20x	20x	20x	20x	20x	20x	20x	20x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	+5° to 90° (auto flip)	+5° to 90° (auto flip)	+5° to 90° (auto flip)	-5° to 90° (auto flip)	-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 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 250°/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 120°/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: 160°/sec. Tilt: 120°/sec.	Pan: 300°/sec. Tilt: 200°/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
Max. Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	1280x960	1920x1080	1920x1080	1280x960	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x720	30 @ 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	IK8, UL/cUL Listed	IK9, 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)	-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)
Power Requirements (max.)	24 VAC, PoE (802.3af), 12 W	24 VAC, PoE+ (802.3at), 14 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE+ (802.3at), 22 W/14 W (heater on/off)	24 VAC, PoE+ (802.3at), 22 W/14 W (heater on/off)	24 VAC, PoE+ (802.3at), 30 W	24 VAC, PoE+ (802.3at), 60 W/21 W (heater on/off)	24 VAC, Hi-PoE, 60 W/21 W (heater on/off)









Standards: Complies with ONVIF (Profile S and G), PSIA, CGI ASAPI. Contact factory for details.; Command Protocols; Hikvision and Pelco D/P
⁴Basic Smart Suite: Line Crossing, Intrusion

Network Video Recorder



Network Video Recorder				
	Plug and Play			
	DS-7604NI-E1/4P	DS-7608NI-E2/8P	DS-7616NI-E2/16P	DS-7716NI-SP/16
Model				
Video Compression	H.264, H.264+	H.264, H.264+	H.264, H.264+	H.264, H.264+
HDMI/VGA Output	1920x1080/1920x1080, synchronized output	1920x1080/1920x1080, synchronized output	1920x1080/1920x1080, synchronized output	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	16-ch IPC with integrated 16-port 802.3af/at and at PoE switch	16-ch IPC with integrated 16-port 802.3af/at and 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
Alarm Input/Output	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	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)	4 SATA interfaces (up to 6 TB each)
eSATA Interface	---	---	---	Yes
Max Internal Storage	6 TB	12 TB	12 TB	24 TB
Support DVD-RW	---	---	---	Yes, replaces 2x SATA
Max Incoming Bandwidth (Mbps)	40	80	160	100
Maximum Outgoing Bandwidth (Mbps)	80	80	80	240
Max. Remote Connections	128	128	128	128
Rack Units	1	1	1	1.5
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
PoE Budget	50 W	120 W	200 W	200 W
Power Requirements	48 VDC, ≤10W without HDD	100 to 240 VAC, ≤10W without HDD	100 to 240 VAC, ≤15 W without HDD	100 to 240 VAC, ≤40 W without HDD










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

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-2CD2421F-IW	DS-2CD2432F-IW	DS-2DE2103-DE3/W	DS-2DE2201-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 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.1 @ f/2.0 B/W: 0.01 @ f/2.0	Color: 0.3 @ f/1.6 B/W: 0.02 @ f/1.6
Lens	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm option)	3.6 to 11 mm, 3x (effective) ² via PTeZ™	3.6 to 8.6 mm, 2x (effective) ² 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
Max. Image Resolution (pixels)	1280x960	2048x1536	1920x1080	2688x1520	1280x960	2048x1536	1280x720	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	20 @ 2048x1536, 30 @ 1920x1080, 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	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	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.
²PTeZ™ 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
Model									
Frame Rate (fps)	30	30	30	30	30	30	Per video input	Per video input	Per video input
Multi-Streaming	Yes	Yes	Yes	Yes	Yes	Yes	1 video output	4 video outputs	8 video outputs
Video Input	1-ch, BNC (1.0 Vp-p, 75 Ω)	4-ch, BNC (1.0 Vp-p, 75 Ω)	8-ch, BNC (1.0 Vp-p, 75 Ω)	16-ch, BNC (1.0 Vp-p, 75 Ω)	8-ch, BNC (1.0 Vp-p, 75 Ω)	16-ch, BNC (1.0 Vp-p, 75 Ω)	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP
Video Output	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	H.264/MPEG4 TCP/IP	1 HDMI, 1 VGA, 1 BNC	4 HDMI, 4 VGA, 2 BNC (via DB-15 connector)	8 HDMI, 8 VGA, 4 BNC (via DB-15 connector)
Network Interface	1 RJ-45 10/100 Mbps Ethernet (PoE)	1 RJ-45 10/100 Mbps Ethernet (PoE)	1 RJ-45 10/100/1000 Mbps Ethernet	1 RJ-45 10/100/1000 Mbps Ethernet	1 RJ-45 10/100/1000 Mbps Ethernet	1 RJ-45 10/100/1000 Mbps Ethernet	1 10/100/1000 Mbps Ethernet	1 10/100/1000 Mbps Ethernet	1 10/100/1000 Mbps Ethernet
Storage	---	---	---	---	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	---	---	---
Audio Input/Output	1 line in/1 line out	4 line in/1 line out	8 line in/1 line out	16 line in/1 line out	4 line in/1 line out	4 line in/1 line out	1 line in/1 line out	4 line in/4 line out	8 line in/8 line out
Voice Talk Input	1-ch	1-ch	1-ch	1-ch	---	---	1-ch	1-ch	1-ch
Alarm Input/Output	1/1	4/2	8/4	16/4	8/4	16/4	4/4	4/4	4/4
RS-232	---	Yes	Yes	Yes	---	---	Yes	Yes	Yes
RS-485	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resolution In	WD1 (960H)/4CIF/2CIF/CIF/qCIF	WD1 (960H)/4CIF/2CIF/CIF/qCIF	WD1 (960H)/4CIF/2CIF/CIF/qCIF	WD1 (960H)/4CIF/2CIF/CIF/qCIF	HD-TVI: 8-ch 30fps @ 1080p and 720p	HD-TVI: 16-ch 30fps @ 1080p and 720p	---	---	---
Resolution Out	---	---	---	---	---	---	5 MP: 2-ch, 1080p; 4-ch 720p; 8-ch, 4CIF: 16-ch	5 MP: 4-ch, 1080p; 8-ch 720p; 16-ch, 4CIF: 32-ch	5 MP: 8-ch, 1080p; 16-ch 720p; 32-ch, 4CIF: 64-ch
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Power Requirements	12 VDC, ≤5 W	12 VDC, ≤7 W	12 VDC ≤10 W	12 VDC ≤22 W	12 VDC ≤30 W without HDD	12 VDC ≤45 W without HDD	12 VDC ≤15 W	100 to 240 VAC ≤70 W	100 to 240 VAC ≤70 W

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

TurboHD Analog Camera -720p and 1080p

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












Hikvision is committed to manufacturing highly scalable, versatile products that easily adapt to the ever-changing security landscape.

We are the largest video surveillance manufacturer in the world using HD-TVI, which is found in our TurboHD line of cameras and recorders. HD-TVI is a revolutionary technology that supports full HD video transmission over coaxial or UTP cable at distances up to 1,500 feet. Superior image quality means that users benefit from high-definition digital video at an analog price. Video signals and data can be transmitted through the same cable, so no additional cables are required. Everything automatically connects through plug-and-play technology. Our TurboHD DVRs are "tribrid" recorders that connect standard-definition analog cameras, TurboHD cameras, and megapixel IP cameras seamlessly. This analog-to-HD migration solution enables users to utilize existing cabling, maximizing the ROI on video surveillance equipment.



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










TurboHD Analog Camera -720p and 1080p

Model	Outdoor Dome		Outdoor Turret						
	DS-2CE56D5T-AVPIR3	DS-2CE56D5T-AVPIR3ZH	DS-2CE56C2T-IRM	DS-2CE56D1T-IRM	DS-2CE56C5T-IT1	DS-2CE56D5T-IT3	DS-2CE56C5T-VFIT3	DS-2CE56D5T-VFIT3	DS-2CE56D5T-IR3Z
		 NEW		 NEW					 NEW
	1080p	1080p	720p	1080p	EXIR 720p	EXIR 1080p	EXIR 720p	EXIR 1080p	1080p
Video Out	HD-TVI/CVBS-(Dual)	HD-TVI/CVBS (Dual)	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	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1920x1080
CVBS Resolution	600TVL	600TVL	---	---	720TVL	600TVL	720TVL	600TVL	600TVL
Min. Illumination (lux)	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm, 12 mm, option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized
Horizontal Angle of View	92° to 32°	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)	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	Yes/120 dB	No/No	Yes/No	No/Digital	Yes/120 dB	No/Digital	Yes/120 dB	Yes/120 dB
IR Range max (meters)	40	40	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	Yes	No	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	-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)	-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, 4.5 W 24 VAC, 6.5 W	12 VDC, 9 W 24 VAC, 9 W	12 VDC, 3.5 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 24 VAC, 6 W



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

TurboHD Analog Camera -720p and 1080p


TurboHD	Outdoor Bullet								
Model	 720p	 1080p	 720p EXIR	 1080p EXIR	 720p	 1080p	 1080p EXIR	 1080p NEW	 1080p NEW
Video Out	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (selectable)	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
Image Sensor	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1280x720	1920x1080	1280x720	1920x1080	1280x720	1920x1080	1920x1080	1920x1080	1920x1080
CVBS Resolution	---	---	720TVL	600TVL	720TVL	---	600TVL	600TVL	600TVL
Min. Illumination (lux)	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.034 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.043 @ f/2.5 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm, 12 mm option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized	5 to 50 mm @ f/2.0 motorized
Horizontal Angle of View	76.88° (3.6 mm), 99.73° (2.8 mm), 50.1° (6 mm)	90° (2.8 mm), 80° (3.6 mm), 55.4° (6 mm)	71.43° (3.6 mm), 92.45° (2.8 mm), 46.9° (6 mm), 34.5° (8 mm)	80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm)	78° to 28°	102° to 35°	92° to 32°	103° to 32.1°	59.8° to 6.2°
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	No/No	Yes/No	No/Digital	Yes/120 dB	No/Digital	Yes/No	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range max (meters)	20	20	20	40	40	40	50	40	100
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	IP67, 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)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)
Power Requirements (max.)	12 VDC, 3.5 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 5 W	12 VDC, 4 W	12 VDC, 24 VAC, 6 W	12 VDC, 7 W 24 VAC, 10 W	12 VDC, 12 W 24 VAC, 12 W	12 VDC, 20 W 24 VAC, 20 W











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

TurboHD Analog PTZ Camera - 720p and 1080p

TurboHD	Indoor	Outdoor	Indoor	Outdoor	Outdoor	Outdoor IR	Outdoor IR
Model	DS-2AE4223T-A3  NEW 1080p	DS-2AE4223T-A  NEW 1080p	DS-2AE5230T-A3  1080p	DS-2AE5123T-A  720p	DS-2AE5230T-A  1080p	DS-2AE5123TI-A  720p	DS-2AE7230TI-A  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 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.05 @ f/1.4 B/W: 0.005 @ f/1.4, 0 with IR	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6, 0 with IR
HD-TVI Resolution	1920x1080	1920x1080	1920x1080	1280x720	1920x1080	1280x720	1920x1080
CVBS Resolution	600TVL	600TVL	600TVL	600TVL	600TVL	600TVL	600TVL
Lens	4 to 92 mm, motorized zoom, autofocus	4 to 92 mm, motorized zoom, autofocus	4 to 120 mm, motorized zoom, autofocus	4 to 92 mm, motorized zoom, autofocus	4 to 120 mm, motorized zoom, autofocus	4 to 92 mm, motorized zoom, autofocus	4 to 120 mm, motorized zoom, autofocus
Horizontal Angle of View	49° to 2.2°	49° to 2.2°	58° to 1.7°	49° to 2.2°	58° to 1.7°	49° to 2.2°	58° to 1.7°
Optical Zoom	23x	23x	30x	23x	30x	23x	30x
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-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/12W (heater on/off)	24 VAC, 12 W	24 VAC, 20 W/12W (heater on/off)	24 VAC, 20 W/12W (heater on/off)	24 VAC, 20 W/12W (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				
	DS-7204HGHI-SH	DS-7208HGHI-SH	DS-7216HGHI-SH	DS-7308HQHI-SH	DS-7316HQHI-SH	DS-7332HGHI-SH	DS-9008HQHI-SH	DS-9016HQHI-SH
Model						 NEW		
Video Compression	H.264	H.264	H.264	H.264	H.264	H.264	H.264	H.264
HDMI/VGA Output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output
Spot Monitor Output (BNC)	---	---	---	Yes	Yes	Yes	Yes	Yes
Analog Input	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
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 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)	8 up to 6 MP (up to 16 if HD-TVI channels disabled) ⁷	16 up to 6 MP (up to 16 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	260
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




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



⁷6 MP capability available end of 2015

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 @ f/2.2	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR
CVBS resolution	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL
Lens	Fixed 3.6 mm @ f/2.2	Fixed 3.6 mm @ f/2.2	Fixed 3.6 mm @ f/2.2	2.8 to 12 mm @ f/1.4, manual	Fixed 3.6 mm @ f/2.2	Fixed 3.6 mm @ f/2.2	2.8 to 12 mm @ f/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 (meters)	No	20	40	40	20	40	30-40
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

Ethernet Over Coax		
Model	DS-1H05-T	DS-1H05-R
		
Input Interface	RJ-45 interface and BNC	BNC
Output Interface	BNC	RJ-45 Interface and BNC
Maximum Bandwidth (Mbps)	36 (downstream)	11 (upstream)
Distance	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
Operating Conditions (max.)	-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)

Megapixel Auto Iris Lenses			
Model	HD-TVI Joystick	HD-TVI Monitor	Balun
	DS-1045	DS-TT-X41T	DS-1H18
			
Description	HD-TVI Joystick Controller	Multifunction Video Tester, test a variety of video signals, including TurboHD, HDMI, CVBS, and VGA.	Unshielded twisted pair (UTP) Baluns

PoE Gigabit L2.5 Ethernet Switch			
Model	DS-3D2208P	DS-3D2216P	DS-3D2228P
			
Ports	8p 10/100 Base-T, 2p 10/100/1000 Base-T, 2p 1000Mbps SFP, 1p console	16p 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	5.4 Mpps	9.6 Mpps
Backplane	5.6 Gbps	7.2 Gbps	12.8 Gbps
PoE Budget	170 W (8 PoE or 4 PoE+)	400 W (16 PoE or 12 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)	16 ports 802.3af (up to 15.4 W/port) or 12 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, SNMP, 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, SNMP, 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, SNMP, 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.	1EEE802.1X, ACL (IP/MAC/VLAN), DHCP SNOOPING, DAI, ARP PREVENTION (STATIC/DYNAMIC), RADIUS, SSH.
Operating Temperature Range	0° C to 50° C	0° C to 50° C	0° C to 50° C
Power Requirements	110 to 240 VAC, 170 W	110 to 240 VAC, 400 W	110 to 240 VAC, 400 W

Keyboards			
Model	DS-1003KI	DS-1005KI	DS-1100KI
			
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											
Model	TV0515D-MPIR	YV2.8x2.8SR4A-SA2	YV3.3x15SR4A-SA2L	DV4x12.5SR4A-SA1	TV2712D-MPIR	TV0550D-MPIR	DV3.8x45R4A-SA1	DV4X12.5SR4A-SA1L	HV30733D-6MP	HV1140D-8MPIR	HV3816D-8MPIR
											
Specifications	1.3 MP, 1/3" imager size, IR, auto iris, 5 to 15 mm, f/1.4, manual zoom, CS mount	3.0 MP, 1/2.7" imager size, auto iris, 2.8 to 8 mm, f/1.3, manual zoom, CS mount	3.0 MP, 1/2.7" imager size, auto iris, 15 to 50 mm, f/1.5, manual zoom, CS mount	5.0 MP, 1/1.8" imager size, auto iris, 12.5 to 50 mm, f/1.6, manual zoom, C mount	3.0 MP, 1/2.7" imager, 2.7 to 12 mm, f/1.2, manual zoom, CS mount	3.0 MP, 1/2.7" imager, 5 to 50 mm, f/1.7, manual zoom, CS mount	3.0 MP, 1/1.8 sensor, auto iris, IR, 4 to 15.2 mm, f/1.5, manual zoom, C mount	5.0 MP, 1/1.8 sensor, auto iris, IR, 12.5 to 50 mm, f/1.6, manual zoom, C mount	Lens, 6 MP 1/1.8 sensor, auto iris, 7-33mm, f/0.95, manual zoom, CS Mount	4K, 1/1.8" sensor, auto iris, 11 to 40 mm, f/1.5, IR, manual zoom, CS mount	4K, 1/1.8" sensor, 3.8 to 16 mm, f/1.5, IR, manual zoom, CS mount

	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

	PTZ Brackets									Camera Housing			Box Camera Housing		Universal Bracket for Pendant caps			
Model	WMP-L	JBP-W	CPM-S	CPM-L	CPMPE	WMP-S	RPM	PMPL	CMPL	CHB	CHB-HBW	CHB-HB	WBS	WBL	CPM	CPME	WMS	WML
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 Adapter PTZ	Corner Mount Adapter PTZ	Camera Housing with Bracket	Camera Housing w Bracket, Heater, Blower, Wiper	Camera Housing w Bracket, Heater, Blower	Suitable for box camera, wall Mount	Suitable for box camera and housing, wall mount	Camera Ceiling Pendant Mount	Camera Ceiling Pendant Mount, Extension Pipe 1" diameter	Short Wall Mount, junction box	Long Wall Mount, junction box

	Universal Bracket for Pendant caps Brackets (continued)						Camera Brackets												
Model	RPM	PM	CM	SRSM	SRSL	WMR*	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC160	PC165	PC-FE	CB110	CB-130	
Description	Roof Parapet Mount	Pole Mount Adapter	Corner Mount Adapter	Medium for outdoor dome rain and sun protection	Large for outdoor dome rain and sun protection	Wall Mounted Bracket for DVR/ NVR	110 mm Pendant Cap	110TRS Pendant Cap	120 mm Pendant Cap	130 mm Pendant Cap	130TRL Pendant Cap	135 mm Pendant Cap	140 mm Pendant Cap	160 mm Pendant Cap	165 mm Pendant Cap	Pendant Cap for fisheye	Wire Intake Box	Conduit Base	

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

	Camera Brackets (continued)																		
Model	CB135	CB165	CB-FE	CBM	CBS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	RCM-1	RCM-2	RCM-3	WM-C	WM110	GP100	
Description	Wire Intake Box	Junction Box	Wire Intake Box (Conduit base for Fisheye)	Junction Box	Junction Box	Wire Intake Box	Inclined Ceiling Mount	Inclined ceiling mount	Inclined Ceiling Mount	Inclined Ceiling Mount for fisheye (Angled Base)	Inclined Ceiling Mount for fisheye (Angled Base)	Inclined ceiling mount	In-Ceiling Mount	Recessed ceiling mount	Recessed ceiling mount	Wall Mount Compact	Plastic Wall Mount	Single Gang Plate	

Bracket Chart

	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	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	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-lx									●						●								●												
VALUE PLUS SOLUTIONS	●				●						●									●											●		●		
DS-2CD21xxFWD-IS	●										●									●											●		●		
DS-2CD23x2WD-I					●																														
DS-2CD25x2FWD-IS			●																																
DS-2CD26x2FWD-ISZ												●						●																	
DS-2CD27x2FWD-ISZ						●							●							●						●						●			
DS-2CD2Tx2WD-I												●						●																	
VALUE SOLUTIONS	●										●									●											●		●		
DS-2CD21x2F-I	●										●									●											●		●		
DS-2CD22x2-IS												●																							
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			●																																

* Includes CB130 conduit base

† Gang Plate

Bracket Chart

TurboHD / ANALOG MIGRATION SOLUTIONS

ANALOG CAMERA PICADIS - 720TVL/960H

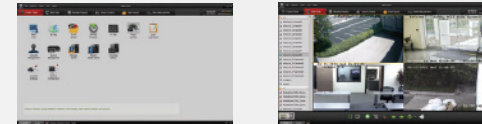
Camera Model	Pendant Cap										Conduit Base							Angled Base					Recessed Ceiling Mount			Wall Mount		Sun/Rain Shade		†					
	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC160	PC-FE	PC165	CB110	CB130	CB135	CB165	CB-FE	CBM	CBS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	ABM	RCM-1	RCM-2	RCM-3	WM-C	WM110		SRL	SRLM	GP100		
DS-2CE16C5T-IT1																																			
DS-2CE16xxT-xxxxxx																																			
DS-2CE56C2T-IRM																																			
DS-2CE56C5T-AVFIR																																			
DS-2CE56C5T-AVPIR3																																			
DS-2CE56C5T-IT1																																			
DS-2CE56C5T-VFIT3																																			
DS-2CE56D1T-AVPIR3																																			
DS-2CE56D1T-IRM																																			
DS-2CE56D1T-VPIR																																			
DS-2CE56D5T-AIRZ																																			
DS-2CE56D5T-AVFIR																																			
DS-2CE56D5T-AVPIR3																																			
DS-2CE56D5T-AVPIR3ZH																																			
DS-2CE56D5T-IR3Z																																			
DS-2CE56D5T-IT3																																			
DS-2CE56D5T-VFIT3																																			
DS-2CE15C2N-VFIR3																																			
DS-2CE16C2N-IT3																																			
DS-2CE55C2N																																			
DS-2CE55C2N-IRM																																			
DS-2CE55C2N-VFIR3																																			
DS-2CE56C2N-IT3																																			

† Gang Plate

iVMS-4200 Client Software (Windows and Mac Compatible) No Licensing Fee!

Live View	Support up to 4 output screens for live view, and upmost 64 cameras in live view screens
Encoding Device	Up to 256 encoded devices
Decoding Device	Up to 64 decoding devices
Imported Camera	Up to 1024 imported cameras
Camera Group	Up to 256 camera groups, and maximum 64 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 server, each server is with incoming connections of 64*2 Mbps and outgoing connections of 200*2 Mbps
Playback	Up to 16 channels playback
Download	Up to 16 simultaneous download tasks
User	Up to 51 users
System Log	Unlimited
Map	Supports PNG, BMP, and JPEG images. Nested maps supported.
PTZ	Control, presets, patrols, pattern 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



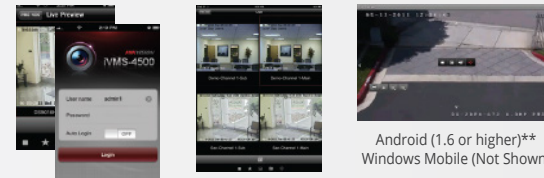
Windows 2003/Windows 7/ Windows 8/ Windows 8.1 /
Windows Server 2008 (32-bit or 64-bit), Windows Server 2008 R2 /
Windows Server 2012 (64-bit)

iVMS-4500 Mobile Client Applications 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: up to 4 cameras; iPad/Android Tablet: up to 16 cameras; Windows Phone: up to 4 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



Android (1.6 or higher)**
Windows Mobile (Not Shown)

Apple iOS (iPhone/iPad)*

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

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Product List (sorted alphabetically)

AB-FE 32	DS-2AE5123T-A 28	DS-2CD2632F-I 20	DS-2CD4565F-IZH 10	DS-2CE55C2N-VFIR3 30	DS-2DF5286-AE3 12	DS-7332HGHI-SH 29	PC110 32
AB-FE2 32	DS-2AE5123TI-A 28	DS-2CD2642FWD-ISZ 17	DS-2CD4585F-IZH 10	DS-2CE56C2N-IT3 30	DS-2DF5286-AEL 13	DS-7604NI-E1/4P 22	PC110T 32
AB110 32	DS-2AE5230T-A 28	DS-2CD2712F-I 19	DS-2CD4A25FWD-IZH 9	DS-2CE56C2T-IRM 26	DS-2DF6223-AEL 13	DS-7608NI-E2/8P 22	PC120 32
AB135 32	DS-2AE5230T-A3 28	DS-2CD2722FWD-ISZ 16	DS-2CD4A35FWD-IZH8 9	DS-2CE56C5T-AVFIR 25	DS-2DF6236-AEL 13	DS-7616NI-E2/16P 22	PC130 32
AB165 32	DS-2AE7230TI-A 28	DS-2CD2732F-I 19	DS-2CD4A26FWD-IZH 9	DS-2CE56C5T-AVPIR3 25	DS-2DF6236V-AEL 13	DS-7716NI-SP/16 22	PC130T 32
ABM 32	DS-2CC12D9T-A 25	DS-2CD2742FWD-ISZ 16	DS-2CD4A35FWD-IZH 9	DS-2CE56C5T-IT1 26	DS-2DF6336V-AEL 13	DS-9008HQHI-SH 29	PC135 32
CB-130 32	DS-2CD2012-I 19	DS-2CD2942F-IS 20	DS-2CD4A35FWD-IZH8 9	DS-2CE56C5T-VFIT3 26	DS-2DF6836V-AEL 13	DS-9016HQHI-SH 29	PC140 32
CB-FE 32	DS-2CD2022WD-I 17	DS-2CD2D14WD 20	DS-2CD4A65F-IZH 9	DS-2CE56D1T-AVPIR3 25	DS-2DF7276-AEL 14	DS-96128NI-F24/H 15	PC160 32
CB110 32	DS-2CD2032-I 19	DS-2CD2E10F 18	DS-2CD4A85F-IZH 9	DS-2CE56D1T-IRM 26	DS-2DF7286-AEL 14	DS-9616NI-ST 15	PC165 32
CB135 32	DS-2CD2042WD-I 17	DS-2CD2E20F 18	DS-2CD6026FHW-A 7	DS-2CE56D1T-VPIR 25	DS-2DF8223I-AEL 14	DS-96256NI-F24/H 15	PM 32
CB165 32	DS-2CD2112F-I 18	DS-2CD2T22WD-IS 17	DS-2CD6026FHW-A3/A11 7	DS-2CE56D5T-AIRZ 25	DS-2DF8236I-AEL 14	DS-9632NI-H8 15	PMPL 32
CBM 32	DS-2CD2112F-IWS 23	DS-2CD2T42WD-IS 17	DS-2CD6332FWD-I 11	DS-2CE56D5T-AVFIR 25	DS-2DF8236IV-AEL 14	DS-9632NI-ST 15	RCM-1 32
CBS 32	DS-2CD2122FWD-IS 16	DS-2CD4012FWD-A 7	DS-2CD6332FWD-IV 11	DS-2CE56D5T-AVPIR3 26	DS-2DF8336IV-AEL 14	DS-9664NI-H8 15	RCM-2 32
CBT-1 32	DS-2CD2132F-I 18	DS-2CD4025FWD-A 7	DS-2CD6362F-I 11	DS-2CE56D5T-AVPIR3ZH 26	DS-2DF8836IV-AEL 14	DS-9664NI-ST 15	RCM-3 32
CHB 32	DS-2CD2132F-IWS 23	DS-2CD4032FWD-A 7	DS-2CD6362F-IV 11	DS-2CE56D5T-IR3Z 26	DS-3D2208P 31	DS-TT-X41T 31	RPM 32
CHB-HB 32	DS-2CD2142FWD-IS 16	DS-2CD4065F-A 7	DS-2CD6412FWD-C2 11	DS-2CE56D5T-IT3 26	DS-3D2216P 31	DV3.8x4SR4A-SA1 31	RPM 32
CHB-HBW 32	DS-2CD2212-IS 19	DS-2CD4085F-A 7	DS-2CD6412FWD-L10 11	DS-2CE56D5T-VFIT3 26	DS-3D2228P 31	DV4x12.5SR4A-SA1 31	SRSL 32
CM 32	DS-2CD2232-IS 20	DS-2CD4112FWD-IZ 7	DS-2CD6412FWD-L20 11	DS-2DE2103-DE3/W 20	DS-6401HDI-T 24	DV4x12.5SR4A-SA1L 31	SRSM 32
CMPL 32	DS-2CD2322WD-I 16	DS-2CD4125-FWD-IZ 7	DS-2CD6412FWD-L30 11	DS-2DE2103-DE3/W 23	DS-6404HDI-T 24	GP100 32	TV0515D-MPIR 31
CPM 32	DS-2CD2332-I 19	DS-2CD4132FWD-IZ 8	DS-2CE15C2N-IR 30	DS-2DE2202I-DE3/W 20	DS-6408HDI-T 24	HK-HDD1T 32	TV0550D-MPIR 31
CPM-L 32	DS-2CD2342WD-I 17	DS-2CD4165F-IZ 8	DS-2CE15C2N-VFIR3 30	DS-2DE2202I-DE3/W 23	DS-6701HWI 24	HK-HDD1T-E 32	TV2712D-MPIR 31
CPM-S 32	DS-2CD2412F-IW 23	DS-2CD4185F-IZ 8	DS-2CE16C2N-IT3 30	DS-2DE4220-AE 21	DS-6704HWI 24	HK-HDD2T 32	WBL 32
CPME 32	DS-2CD2432F-IW 23	DS-2CD4212FWD-IZH 8	DS-2CE16C2T-IR 27	DS-2DE4220-AE3 21	DS-6708HQHI-SATA 24	HK-HDD2T-E 32	WBS 32
CPMPE 32	DS-2CD2510F 18	DS-2CD4212FWD-IZH8 8	DS-2CE16C5T-IT1 27	DS-2DE5174-AE 21	DS-6708HWI 24	HK-HDD3T 32	WM-C 32
DS-1003KI 31	DS-2CD2512F-I 18	DS-2CD4312FWD-IZHS 9	DS-2CE16C5T-VFIR3 27	DS-2DE5184-AE 21	DS-6716HQHI-SATA 24	HK-HDD3T-E 32	WM110 32
DS-1005KI 31	DS-2CD2520F 18	DS-2CD4312FWD-IZHS8 9	DS-2CE16D1T-AVFIR3 27	DS-2DE5184-AE3 21	DS-6716HWI 24	HK-HDD4T 32	WML 32
DS-1045 31	DS-2CD2522FWD-IS 16	DS-2CD4324FWD-IZHS 10	DS-2CE16D1T-IR 27	DS-2DE5220I-AE 21	DS-7104NI-SL/W 24	HK-HDD4T-E 32	WMP-L 32
DS-1100KI 31	DS-2CD2522FWD-IWS 23	DS-2CD4324FWD-IZHS8 10	DS-2CE16D5T-AIR3ZH 27	DS-2DE7174-AE 21	DS-7108NI-E1/W/W/1T 24	HK-HDD6T 32	WMP-S 32
DS-1H05-R 31	DS-2CD2532F-I 18	DS-2CD4332FWD-IZHS 10	DS-2CE16D5T-AVFT3 27	DS-2DE7184-AE 21	DS-7204HGHI-SH 29	HV1140D-8MPIR 31	WMR 32
DS-1H05-T 31	DS-2CD2542FWD-IS 16	DS-2CD4332FWD-IZHS8 10	DS-2CE16D5T-IT3 27	DS-2DF5220S-DE4/W 12	DS-7208HGHI-SH 29	HV30733D-6MP 31	WMS 32
DS-1H18 31	DS-2CD2542FWD-IWS 23	DS-2CD4526FWD-IZH 10	DS-2CE16D9T-AIRAZH 27	DS-2DF5220S-DE4/W 23	DS-7216HGHI-SH 29	HV3816D-8MPIR 31	YV2.8x2.8SR4A-SA2 31
DS-2AE4223T-A 28	DS-2CD2612F-I 20	DS-2CD4535FWD-IZH 10	DS-2CE55C2N 30	DS-2DF5276-AE3 12	DS-7308HQHI-SH 29	JBP -W 32	YV3.3x15SR4A-SA2L 31
DS-2AE4223T-A3 28	DS-2CD2622FWD-ISZ 17	DS-2CD4535FWD-IZH8 10	DS-2CE55C2N-IRM 30	DS-2DF5276-AEL 13	DS-7316HQHI-SH 29	PC-FE 32	

Hikvision Technical Support

Hikvision strives to provide industry-leading support to our customer base and we work continuously to innovate video surveillance technology. From product installation questions to technical troubleshooting to firmware upgrades, dedicated telephone support guides you to the solution.

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Hikvision Learning Institute

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.

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