PRODUCT GUIDE

Fall/Winter 2017-18

PARTNER
WIN.

FEEL THE THRILL OF WINNING

Partner.Win.

HIKVISION

About Hikvision

The foundation of our business is cutting-edge technology: high-definition IP and Analog cameras, hybrid, Plug and Play and standalone DVRs, NVRs, PTZ domes, network switches, encoders, and decoders, phone apps, VMS software, Central Management Systems, Monitors, and Latest technology innovations like AI Deep Learning algorithms.

Fortified by one of the largest R&D teams in the video surveillance industry, the innovation behind these products combined with our outstanding team members and partners has made Hikvision the No. 1 video surveillance equipment provider in the world, according to global research firm IHS Markit. A total solution provider, Hikvision manufactures a full suite of video surveillance products and solutions for a broad range of vertical markets including retail, education, healthcare, critical infrastructure, enterprise and many others. Whatever the scope or requirements of the application, Hikvision has a user-friendly, highly scalable solution, and a support team to help our integrators meet their customers' needs.

No. 1 Physical Security Solution Provider in 2016
A&S

1,300
PATENTS GRANTED

20,000+ EMPLOYEES

9,300+ R&D ENGINEERS

6
R&D CENTERS GLOBALLY

63
BRANCHES GLOBALLY

No. 1 Video Surveillance Equipment and Solution Provider Globally from 2011-2016
IHS MARKIT

ISO/IEC 27001
CERTIFIED
INFORMATION SECURITY MANAGEMENT

2001
ESTABLISHED

150+ COUNTRIES SELLING HIKVISON PRODUCTS AND SOLUTIONS

Architects & Engineers Partners

Hikvision has a dedicated team of security industry professionals who focus solely on supporting and educating the A&E and consultant community about Hikvision products and solutions. Covering the entirety of North America both in the US and Canada, this seasoned group works alongside our sales organization to offer the resources required by the A&E community, including BIM modules, A&E specifications, design tools, and design support. Additionally, the A&E team manages Hikvision's online A&E portal to provide quick access to the resources needed by our partners in the A&E community.
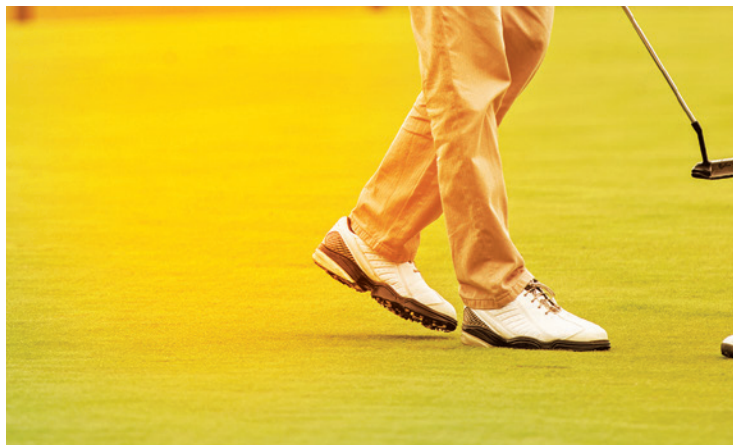
Dealer Partners

It's an exciting time to partner with Hikvision. As the world's leading video surveillance manufacturer, we take a team approach to winning business, working alongside our partners through the entire business cycle. You can rely on our extensive field support team, which is staffed by knowledgeable professionals. Their goal is to help our integrators fortify and grow their businesses.

Our efforts support our mutual success through product selection, sales, technical training, engineering, installation and post-sales support.

We invest heavily in R&D, hundreds of millions of dollars per year, to supply the market with reliable, secure and innovative technology with unmatched value. We believe that's the best game plan to provide Hikvision dealers with a competitive advantage out in the field.

Hikvision goes the extra mile to provide customers with all of the resources they need for a first-class security system. Hikvision's Dealer Partner (HDP) program and A&E program provide additional resources for dealers, architects and engineers to promote business success through knowledge and valuable tools. Hikvision is committed to creating and protecting business value for its customers and partners.

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

Real Support Adds Value for Integrator Partners

Hikvision has a highly experienced team of sales, engineering and technical support professionals that understand the unique needs of their local and regional SMB and enterprise markets. They are on the ground, in local markets, and available to back up our integrators when they need them.

HEALTHCARE

Healthcare customers want scalable, cost effective and efficient solutions that can solve security and technology challenges in a sometimes chaotic and stressful environment. Hikvision has an extensive range of cameras, recording platforms and solutions that fit any type of application, scenario or environment. Patient monitoring, emergency rooms, pharmacies, specialty departments, and restricted areas are all critical zones that require reliable security equipment. Just as we depend on healthcare providers to keep us well, integrators can depend on Hikvision's solutions to ensure the security of healthcare facilities.

EDUCATION

Hikvision offers an unmatched product selection designed to protect educational facilities, students and faculty, all at a value that budget-minded school districts need. High-resolution cameras offer excellent image quality with high value for a market-leading price. Image enhancements, such as wide dynamic range and high definition video, make our products well suited to capture remarkable detail in exterior and interior settings. Our DarkFighter Low Light cameras provide school districts with clear video footage, even after the lights are turned off and staff and students have returned home.

CRITICAL INFRASTRUCTURE

Hikvision's Smart Series and Specialty cameras have features and performance that are ideal for critical security installations, with resolutions of 12 MP, 8 MP (4K), 6 MP. DarkFighter and LightFighter provide clear images in any lighting condition. Stainless-steel, high impact and weather-rated cameras withstand harsh environments. Hikvision Thermal standard and bi-spectrum camera systems provide advanced solutions for perimeter, temperature monitoring and fire detection. Built-in smart analytics provide pre- and post-event details. Data recording and storage products keep records safe and ready for forensic research.

RETAIL

Shop and restaurant owners as well as nationwide retail chains gain peace of mind using Hikvision's high performing products to manage loss prevention. These products also provide business intelligence data to give retailers important insight into business operations and new revenue-generating opportunities. In each camera category are compact bullet, turret, dome and covert varieties, which provide discreet surveillance in attractive packaging. POS integration, heat mapping, and special counting cameras provide significant business information. Data collected can then be managed through Hikvision's smart recording equipment.

Enterprise Solutions

Hikvision is a global organization that supports the enterprise market with sophisticated products, consistent quality, a supportive dealer program and worldwide distribution. We have dedicated teams that work with architects, engineers and consultants to provide support throughout the sales process, from pre-design to installation, including technical and warranty items. This facilitates our partners' growth and meets the demand for excellent service from the global enterprise customer.

Learning & Development

Our Learning and Development Team provides designers, integrators, installers, and end-users with effective learning tools and certifications that enable them to meet today's rapidly changing technical challenges. From essential understanding of terminology to comprehensive knowledge of surveillance solutions, the Hikvision Online Learning Center offers industry-tested online and instructor-led training in a supportive environment.

For more information visit
hikvisionlearning.com

Technical Support

Hikvision strives to provide industry-leading technical support to our North American customer base via phone, chat and online resources, including how-to videos. From product installation questions, technical troubleshooting and firmware upgrades, dedicated telephone support personnel will guide you through the resolution of any issue.

Hikvision USA and Hikvision Canada Technical Support:
Toll-free: +1-866-200-6690 (U.S. and Canada)
Phone: +1-909-895-0400
Email: techsupport.usa@hikvision.com
Online: tech.hikvisionusa.com

Hikvision Unauthorized Distributors Policy

Hikvision USA Inc., and Hikvision Canada Inc. (Hikvision USA and Hikvision Canada), sell 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. Hikvision's authorized distributors serve as an important link in the Hikvision USA and Hikvision Canada value chain by providing excellent pre- and post-sale customer service, including firmware updates and sales engineering support.

Not every distributor advertising Hikvision products has been authorized by Hikvision USA or Hikvision Canada to advertise or sell those products. We warn potential customers against purchasing products from unauthorized distributors. Unauthorized distributors may be selling products that are counterfeit, used, have modified firmware or are otherwise damaged. The Hikvision warranty is void, per company policy, on any product that is not purchased through a Hikvision USA or Hikvision Canada authorized distributor.

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

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

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

Contents

Professional Solutions

The Smart Pro IP solutions are an analytics-rich option for professional applications. Enriched with Hikvision Smart technologies, Hikvision's Smart IP cameras, Smart PTZ Dome cameras, and Smart NVRs are designed to deliver intelligent security for the modern marketplace. The Smart series delivers technology for high performance and enterprise applications. Whether you're securing a large campus facility or small business, you will find the most advanced products in the Smart Pro IP product range.

01

DARKFIGHTER/LIGHTFIGHTER CAMERAS
DS-2CD4A2xFWD-IZH/8
PAGE 14

02

16 MP OUTDOOR PANOVU
DS-2DP1636Z-D
PAGE 22

DeepinMind NVR
iDS-9632NXI-I8/16S

Capable of detecting and recording subjects identified as human objects. It eliminates false detections of irrelevant movement in the surroundings and animals or other non-human objects.

DarkFighterX Camera
DS-2CD5028G0/E-HI5

This series camera has an innovative dual sensor design: one sensor for IR imaging that guarantees image brightness, the other sensor for visible light guarantees vivid color. The camera then combines the two images formed by different spectra into full Color in extreme low lighting of 0.001 lux.

DarkFighterX PTZ
DS-2DF8225IH-AELW

One of the most feature-rich PTZs in the Hikvision lineup, this unique camera system builds on the foundation of the DarkFighterX true day/night camera, features a 25x lens with rapid focus and 200m IR capabilities for 0 lux environments. The dual sensor design produces industry-leading color low light imaging down to 0.001 lux, advanced and improved Smart Tracking, and the full PTZ Suite of Hikvision analytics. The camera also supports H.265+ and Region of Interest Encoding, making it the ultimate solution for the most demanding applications.

01. **DARKFIGHTER/LIGHTFIGHTER**
Challenging lighting conditions are met with our trademark DarkFighter (new DarkFighterX) and LightFighter technology, EXIR 2.0 infrared night viewing and Thermal camera products.

02. **16 MP PANOVU**
Image quality requirements are met with industry-leading camera products from 16 MP PanoVu in addition to 12 MP and 4K HD-resolution imaging sensors.

SMART PRO SERIES NVR
DS-96256NI-I24/H
PAGE 26

- 12 MP INPUT
- 4K OUTPUT
- 192 TB STORAGE
- H.265+ COMPRESSION
  INCREASES
  SPACE BY 70%

04

OUTDOOR BI-SPECTRUM PTZ DOME
DS-2TD4035D-25/50
PAGE 24

360°

120°

05

HUMAN DETECTION
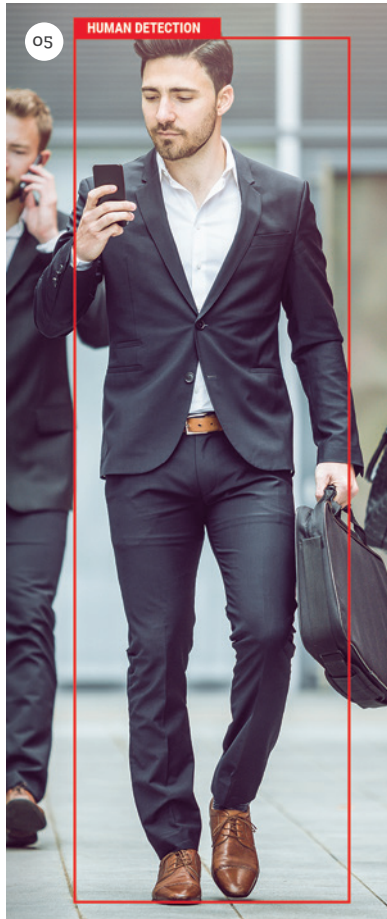
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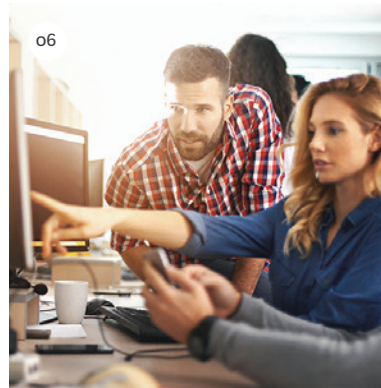
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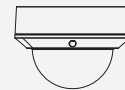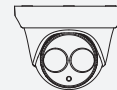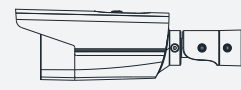
DOME   TURRET   BULLET   COMPACT DOME

08
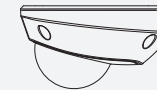
07. DIFFERENT FORM FACTORS

Applications vary and we are ready with all the standard form factors: dome, bullet, turret and also unique multi-sensor, counting, fisheye, covert and stainless cameras.

03. SUPER NVR

Meeting all bandwidth and storage utilizationrequirements, the Smart Pro NVRs support recording of up to 12 MP camera resolution, Ultra High Definition (UHD) output up to 4K, up to 192 TB of storage capacity and H.265+ compression increasing storage space by 50-70 percent.

04. SMART PTZ

The Smart PTZ Dome Camera series features excellent HD imaging, smooth Pan/Tilt/Zoom, long range lenses and IR along with smart tracking functions to ensure the elimination of all blind spots within the camera's area of coverage.

05. DEEP LEARNING

Deep Learning algorithms are being introduced to NVR and camera products to enhance video analytics to over 90 percent accuracy rates, enhancing any security application.

06. CENTRAL MANAGEMENT SYSTEM

Central Management products include the Blazer Express and HikCentral, which are Windows-based devices designed for central management of distributed sites or a large pool of cameras recording on Hikvision NVRs, DVRs, and CVRs.

08. SMART ANALYTICS

Smart Analytics round out the high performance capabilities and include: Human Detection, Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog and new LPR (License Plate Recognition) technology.

Professional Solutions

smart IPC

	BOX CAMERA							INDOOR DOME		
Model	DS-2CD4012FWD-A	DS-2CD6026FHWD-A	DS-2CD6026FHWD-A3/A7/A11	DS-2CD4025FWD-A	DS-2CD4032FWD-A	DS-2CD4065F-A	DS-2CD4085F-AP	DS-2CD4112FWD-IZ	DS-2CD4125FWD-IZ	DS-2CD4132FWD-IZ
	Lens NOT included **1.3 MP**	**DarkFighter** *Lens NOT included* **2 MP**	**DarkFighter** **2 MP**	**LightFighter** *Lens NOT included* **2 MP**	*Lens NOT included* **3 MP**	*Lens NOT included* **6 MP**	*Lens NOT included* **4K**	**1.3 MP**	**LightFighter** **2 MP**	**3 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 tCMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ ƒ/1.2 B/W: 0.001 @ ƒ/1.2	Color: 0.001 @ ƒ/1.2 B/W: 0.0001 @ ƒ/1.2	Color: 0.0016 @ ƒ/1.5 B/W: 0.00016 @ ƒ/1.5	Color: 0.005 @ ƒ/1.2 B/W: 0.0005 @ ƒ/1.2	Color: 0.1 @ ƒ/1.2 B/W: 0.01 @ ƒ/1.2	Color: 0.02 @ ƒ/1.2 B/W: 0.002 @ ƒ/1.2	Color: 0.009 @ ƒ/1.2 B/W: 0.012 @ ƒ/1.2	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.007 @ ƒ/1.4 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR
Lens/ Horizontal Angle of View	Auto back focus, C/CS mount	Auto back focus, C/CS mount	A3: 3.8 to 16 mm ƒ/1.5 A7: 7 to 33 mm ƒ/0.95 A11: 11 to 40 mm ƒ/1.5 Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 98.4° to 30.2°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 113° to 33.8°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 91.2° to 28.3°
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°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/140 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/140 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	---	---	---	---	---	---	---	30	30	30
Video Compression	H.264+/H.264/MPEG4/ MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/ MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	3072x2048	4096x2160	1280x960	1920x1080	2048x1536
Frame Rate (fps)	30 @ 1280×960, 1280×720 (30 @ 1280×960, 60 @ 1280×720 with WDR off)	60 @ 1920×1080	60 @ 1920×1080	60 @ 1920×1080	30 @ 1920x1080, 20 @ 2048x1536	20 @ 3072x2048, 30 @ 3072x1728	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080	30 @ 1280x960 (60 @1280x720 with WDR off)	60 @ 1920×1080	20 @ 2048x1536, 30 @ 1920x1080
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite[1]	Full Smart Suite[1] except Counting	Full Smart Suite[1] except Counting	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]
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	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	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IK10, 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)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	24 VAC, 12V DC, PoE (802.3af), 9 W	24 VAC, 12V DC, PoE (802.3af), 12 W	24 VAC, 12V DC, PoE (802.3af), 12 W	24 VAC, 12V DC, PoE (802.3af), 9 W	24 VAC, 12V DC, PoE (802.3af), 10 W	24 VAC, 12V DC, PoE (802.3af), 9 W	24 VAC, 12V DC, PoE (802.3af), 9 W	12V DC, PoE (802.3af), 10.5 W	12V DC, PoE (802.3af), 10 W	12V DC, PoE (802.3af), 11.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[1]Full Smart Suite: Motion Detection, Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

Professional Solutions

smart IPC

INDOOR DOME   **OUTDOOR BULLET**

Model	DS-2CD4165F-IZ	DS-2CD4185F-IZ	DS-2CD41C5F-IZ	DS-2CD4212FWD-IZH	DS-2CD4212FWD-IZH8	DS-2CD4A24FWD-IZH	DS-2CD4A25FWD-IZH	DS-2CD4A25FWD-IZH8	DS-2CD4A26FWD-IZH	DS-2CD4A26FWD-IZH8
	6 MP	4K	12 MP	1.3 MP	1.3 MP	EXIR / 2 MP	LightFighter EXIR / 2 MP	LightFighter EXIR / 2 MP	DarkFighter EXIR / 2 MP	DarkFighter EXIR / 2 MP
Image Sensor	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.012 @ ƒ/1.4, B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.007 @ ƒ/1.4	Color: 0.007 @ ƒ/1.4, B/W: 0 with IR	Color: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR
Lens/ Horizontal Angle of View	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 94.5° to 30.5°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 96.0° to 32.6°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 93.6° to 31.8°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 98.4° to 30.2°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 27.8° to 9.1°	4.7-94mm @ F1.4 motorized, autofocus/ 53.8° to 3.1°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 98.4° to 30.2°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 27.8° to 9.1°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 92° to 32°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 28° to 12°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night/BLC/WDR	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/140 dB	TRUE/Yes/140 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	30	30	30	30	80	120	50	100	50	100
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/ MPEG4/MJPEG
Maximum Image Resolution (pixels)	3072x2048	4096x2160	4000x3000	1280x960	1280x960	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	20 @ 3072x2048, 30 @ 3072x1728	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080	15 @ 4000 × 3000, 22 @ 4096 × 2160, 24 @ 3840 × 2160, 30 @ 3072 × 1728	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	60 @ 1920×1080	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	60 @ 1920×1080	60 @ 1920×1080
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1] 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
Audio Input/Output	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	---	---	---	---	---	---	---
Alarm Input/Output	1/1	1/1	1/1	---	---	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 12.5 W	12V DC, PoE (802.3af), 13 W	12V DC, PoE (802.3af), 13 W	12V DC, PoE+ (802.3af), 12 W	12V DC, PoE+ (802.3af), 12 W	12V DC, PoE+ (802.3at), 15.5 W	12V DC, PoE+ (802.3at), 15.5 W	12V DC, PoE+ (802.3at), 15.5 W	12V DC, PoE+ (802.3at), 21 W	12V DC, PoE+ (802.3at), 21 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[1]Full Smart Suite: Motion Detection, Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

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OUTDOOR BULLET   **OUTDOOR DOME**

	DS-2CD4A35FWD-IZH	DS-2CD4A35FWD-IZH8	DS-2CD4A65F-IZH	DS-2CD4A85F-IZH	DS-2CD4AC5F-IZH	DS-2CD4312FWD-IZHS	DS-2CD4312FWD-IZHS8	DS-2CD4324FWD-IZHS	DS-2CD4324FWD-IZHS8	DS-2CD4526FWD-IZH
Model	EXIR 3 MP	EXIR 3 MP	EXIR 6 MP	EXIR 4K	EXIR 12 MP	1.3 MP	1.3 MP	2 MP	2 MP	DarkFighter 2 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.007 @ ƒ/1.4, B/W: 0 with IR	Color: 0.007 @ ƒ/1.4, B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.012 @ ƒ/1.4, B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR
Lens/ Horizontal Angle of View	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 105° to 32°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 29.7° to 9.7°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 94.5° to 30.5°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 96.0° to 32.6°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 93.6° to 31.8°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 98.4° to 30.2°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 27.8° to 9.1°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 113° to 33.8°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 31.2° to 10.2°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 92° to 32°
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355° /0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	50	100	50	50	50	30	50	30	50	40
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/ MPEG4/MJPEG
Maximum Image Resolution (pixels)	2048x1536	2048x1536	3072x2048	4096x2160	4000x3000	1280x960	1280x960	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	20 @ 3072×2048, 30 @ 3072×1728	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080	15 @ 4000×3000 22 @ 4096x2160 24 @ 3840x2160 30 @ 3072×1728	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080	30 @ 1920x1080	60 @ 1920x1080
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite[1] except Audio feature	Full Smart Suite[1] except Audio feature	Full Smart Suite[1] except Audio feature	Full Smart Suite[1] except Audio feature	Full Smart Suite[1] except Audio feature	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]	Full Smart Suite[1]
Audio Input/Output	---	---	---	---	---	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	---	---	2/2	2/2	2/2	2/2	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	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	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)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	12V DC, PoE+ (802.3at), 16.75 W	12V DC, PoE+ (802.3at), 16.75 W	12V DC, PoE+ (802.3at), 15.5 W	12V DC, PoE+ (802.3at), 15.5 W	12V DC, PoE+ (802.3at), 15.5 W	24 VAC, PoE (802.3af), 13 W	24 VAC, PoE (802.3af), 13 W	24 VAC, PoE+ (802.3at), 14 W	24 VAC, PoE+ (802.3at), 14 W	24 VAC, 12V DC, PoE+ (802.3at), 17.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[1] **Full Smart Suite:** Motion Detection, Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog

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	OUTDOOR DOME							DARKFIGHTERX	MULTI-SENSOR
Model	DS-2CD4332FWD-IZHS	DS-2CD4332FWD-IZHS8	DS-2CD4535FWD-IZH	DS-2CD4535FWD-IZH8	DS-2CD4565F-IZH	DS-2CD4585F-IZH	DS-2CD45C5F-IZH	DS-2CD5028G0/E-HI5	DS-2CD6986F-H
	3 MP	3 MP	3 MP	3 MP	6 MP	4K	12 MP	DarkFighterX / 2 MP	DarkFighter / 8 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/1.7" progressive scan CMOS	Dual sensor: 2 x 1/2.8" proressive scan CMOS	1/1.8" Progressive Scan CMOS
Min. Illumination (lux)	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4, B/W: 0 with IR	Color: 0.007 @ f/1.4, B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.012 @ f/1.4, B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.001 @ f/1.5, AGC ON B/W: 0.0001 @ f/1.5, AGC ON, 0 with IR	Color: 0.002 Lux @ f/1.2, AGC ON
Lens/ Horizontal Angle of View	2.8 to 12 mm @ f/1.4, motorized, autofocus/ 91.2° to 28.3°	8 to 32 mm @ f/1.4, motorized, autofocus/ 26° to 8.54°	2.8 to 12 mm @ f/1.4, motorized, autofocus/ 105° to 32°	8 to 32 mm @ f/1.4, motorized, autofocus/ 29.7° to 9.7°	2.8 to 12 mm @ f/1.4, motorized, autofocus/ 94.5° to 30.5°	2.8 to 12 mm @ f/1.4, motorized, autofocus/ 96.0° to 32.6°	2.8 to 12 mm @ f/1.4, motorized, autofocus/ 93.6° to 31.8°	5 to 50 mm @ f/1.5 to f/2.9, motorized, autofocus/ 60.5° to 6.3°	5 mm × 4, adjustable, Pan 180°, Tilt: 78.4°/ 180° stiched image
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°	Fixed Housing	Pan: 0° to 360°, Tilt: 45° to 90°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/Digital
IR Range Max. (meters)	30	50	40	50	40	40	40	100	---
Video Compression	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/ MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.265+/H.264+/H.264/ MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	2048x1536	2048x1536	2048x1536	2048x1536	3072x2048	4096x2160	4000x3000	1920 x 1080	4096 × 1800
Frame Rate (fps)	20 @ 2048×1536, 30 @ 1920×1080	20 @ 2048x1536, 30 @ 1920x1080	45 @ 2048×1536, 60 @ 1920×1080	45 @ 2048×1536, 60 @ 1920×1080	24 @ 3072×2048, 30 @ 3072×1728	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080, 1280x720	15 @ 4000×3000, 22 @ 4096×2160, 24 @ 3840×2160, 30 @ 3072×1728	30 @ 1920 x 1080	Mode 1: 30 @ 4096x1800, 3840×1680 Mode 2: 24 @ 2400×3840, 30 @1200×1920
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Double
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]	---
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	2/2	2/2	1/1	1/1	1/1	1/1	1/1	2/2	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	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, 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 (802.3af), 13 W	24 VAC, PoE (802.3af), 13 W	12V DC, 24 VAC, PoE+ (802.3at), 17.5 W	12V DC, 24 VAC, PoE+ (802.3at), 17.5 W	12V DC, 24 VAC, PoE+ (802.3at), 17.5 W	12V DC, 24 VAC, PoE+ (802.3at), 17.5 W	12V DC, 24 VAC, PoE+ (802.3at), 17 W	24 VAC, PoE+ (802.3at), 43 W with heater	24 VAC, PoE+ (802.3at), 22 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[1] **Full Smart Suite:** Motion Detection, Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Object Counting, Defog
[2] **Basic Smart Suite:** Counting, ROI, EIS, Defog

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	COUNTING CAMERA		LICENSE PLATE RECOGNITION		ULTRA-WIDE PANORAMIC	INDOOR FISHEYE	OUTDOOR FISHEYE	INDOOR FISHEYE	OUTDOOR FISHEYE	OUTDOOR FISHEYE
Model	iDS-2CD6412FWD/C 1.3 MP	iDS-2CD6810F/C 0.6 MP	DS-2CD4A26FWD-IZH/P NEW 2 MP	DS-2CD4A26FWD-IZH8/P NEW 2 MP	DS-2CD6W32FWD-IVS NEW 3 MP	DS-2CD6332FWD-I 3 MP	DS-2CD6332FWD-IV 3 MP	DS-2CD6362F-I 6 MP	DS-2CD6362F-IV 6 MP	DS-2CD63C2F-IV 12 MP
Image Sensor	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 Lux @ ƒ/2.0, AGC ON B/W: 0.0028 Lux @ ƒ/2.0, AGC ON	B/W: 1.2 Lux @ ƒ/2.0	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR	Color: 0.4 @ ƒ/2.4, AGC On B/W: 0 with IR	Color: 0.28 @ ƒ/2.0 B/W: 0 with IR	Color: 0.28 @ ƒ/2.0 B/W: 0 with IR	Color: 0.3 @ ƒ/2.8 B/W: 0 with IR	Color: 0.3 @ ƒ/2.8 B/W: 0 with IR	Color: 0.04 @ ƒ/2.4 B/W: 0 with IR
Lens/ Horizontal Angle of View	2.1 mm @ ƒ/2.2 (HV 115°) 2.8 mm @ ƒ/2.0 (HV 92.5°)	2 mm @ ƒ/2.2 (HV 89°) 2.8 mm @ ƒ/2.0 (HV 68°) 4 mm @ ƒ/2.2 (HV 55°)	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 92° to 32°	8 to 32 mm @ ƒ/1.4, motorized, autofocus/ 28° to 12°	2 mm @ ƒ/2.4/ 135°, 98° vertical (wall)	1.19 mm @ ƒ/2.0, Fisheye/ 180°/360° (wall)	1.19 mm @ ƒ/2.0, Fisheye/ 180°/360° (wall)	1.27 mm @ ƒ/2.8, Fisheye/ 180°/360° (wall)	1.27 mm @ ƒ/2.8, Fisheye/ 180°/360° (wall)	1.98 mm @ ƒ/2.4/ 180°/360° (wall)
Day/Night/BLC/WDR	Electronic/Yes/120 dB	Electronic/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/No/120 dB	TRUE/No/120 dB	TRUE/No/Digital	TRUE/No/Digital	TRUE/No/Digital
IR Range Max. (meters)	---	---	50	100	15	15	15	15	15	15
Video Compression	H.264/MJPEG/MPEG4	H.264	H.264+/H.264/MPEG4/ MJPEG	H.264+/H.264/MPEG4/ MJPEG	H.264	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	640 × 960	1920x1080	1920x1080	2048x1536	2048x1536	2048x1536	3072x2048	3072x2048	4000x3072
Frame Rate (fps)	30 @ 1280 x 960, 1280 x 720	24 @ 640 × 480	30 @ 1920x1080 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080 (60 @ 1920x1080 with WDR off)	30 @ 2048x1536	Varies by Mode and View Setting	Varies by Mode and View Setting	Varies by Mode and View Setting	Varies by Mode and View Setting	Varies by Mode and View Setting
Multi-Streaming	Triple	Dual	Triple	Triple	Dual	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4	Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4
Smart Features	Basic Smart Suite[2], Counting, ROI, EIS, Defog	---	License Plate Recognition (LPR) Full Smart Suite1 except Audio feature	License Plate Recognition (LPR) Full Smart Suite1 except Audio feature	Basic Smart Suite[2], ROI	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing
Audio Input/Output	IN: 1 line/mic OUT: 1 line	---	---	---	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic	Built-in speaker and mic
Alarm Input/Output	1/1	1/1	---	---	1/1	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD 64 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	---	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed	IP67, IK10, UL/cUL Listed	UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-10 °C to +40 °C (+14 °F to +104 °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)	-10 °C to 50 °C (14 °F to 122 °F)	-30° C to 60° C (-22° F to 140° F)	-10 °C to 50 °C (14 °F to 122 °F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12V DC, 7.5 W	12V DC, 7 W	12V DC, PoE+ (802.3at), 21 W	12V DC, PoE+ (802.3at), 21 W	12V DC, PoE (802.3af), 12 W	12V DC, PoE (802.3af), 12.5 W	12V DC, PoE (802.3af), 12.5 W	12V DC, PoE (802.3af), 12 W	12V DC, PoE (802.3af), 12 W	12V DC/PoE (802.3af), 14.7 W

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

Professional Solutions

17

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	COVERT									HEIGHT STRIP
Model	DS-2CD6412FWD-C2 (Base Unit)	DS-2CD6412FWD-L10 (Lens/Sensor)	DS-2CD6412FWD-L20 (Lens/Sensor)	DS-2CD6412FWD-L30 (Lens/Sensor)	DS-2CD6424FWD-10	DS-2CD6424FWD-20	DS-2CD6424FWD-30	DS-2CD6424FWD-40/E1	DS-2CD6424FWD-40/E2	DS-2CD6424FWD-20/E
	*Base unit ONLY	*Base unit NOT included — 1.3 MP	*Base unit NOT included — 1.3 MP	*Base unit NOT included — 1.3 MP	2 MP	2 MP	2 MP	2 MP	2 MP	2 MP
Image Sensor	Supports (2) L10, L20, or L30 lenses/sensor units (not included)	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS
Min. Illumination (lux)	---	Color: 0.04 @ ƒ/2.3	Color: 0.04 @ ƒ/2.3	Color: 0.04 @ ƒ/2.0	Color: 0.028 lux @ ƒ/2.0, AGC ON	Color: 0.028 lux @ ƒ/2.0, AGC ON	Color: 0.028 lux @ ƒ/2.0, AGC ON	Color: 0.028 lux @ ƒ/2.0, AGC ON	Color: 0.028 lux @ ƒ/2.0, AGC ON	Color: 0.028 lux @ ƒ/2.0, AGC ON
Lens/ Horizontal Angle of View	---	Fixed, 3.7 mm @ ƒ/2.3/ 57°	Fixed, 3.7 mm @ ƒ/2.3/ 57°	Fixed, 2.8 mm, 4 mm @ ƒ/2.0/ 92.5°, 73.1°	Fixed 3.7 mm @ f2.5, cylindrical pinhole/ 65°	Fixed 3.7 mm @ f2.5, L-shaped, pinhole/ 65°	Fixed 2.8 mm @ f2.0, Tube/ 115°	Fixed 2.8 mm @ f2.0, Ball with Turret mount/ 109.4°	Fixed 2.8 mm @ f2.0, Ball with In-ceiling mount/ 109.4°	Fixed 3.7 mm @f2.5, L-shaped, pinhole/ 78.5°
Day/Night/BLC/WDR	---	Electronic/No/120 dB	Electronic/No/120 dB	Electronic/No/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	---	---	---	---	---	---	---	---	---	---
Video Compression	H.264/MPEG4/MJPEG	---	---	---	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	---
Maximum Image Resolution (pixels)	---	1280x960	1280x960	1280x960	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	---	---	---	30 @ 1920×1080	30 @ 1920×1080	30 @ 1920×1080	30 @ 1920×1080	30 @ 1920×1080	30 @ 1920×1080
Multi-Streaming	Triple Stream	---	---	---	---	---	---	---	---	Triple
Smart Features	Basic Smart Suite[2]	---	---	---	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2] + ROI, Defog
Audio Input/Output	IN: 1 line/mic OUT: 1 line	---	---	---	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	1/1	---	---	---	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	---	---	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 8.5 W	Powered by Base Unit	Powered by Base Unit	Powered by Base Unit	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 6.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]Basic Smart Suite: Line Crossing, Intrusion Detection, DeFocus, Audio Exception, Scene Change

Professional Solutions

smart IPC

Professional Solutions

	INDOOR	OUTDOOR								DARKFIGHTERX
Model	DS-2DF5232X-AE3	DS-2DF5232X-AEL	DS-2DF6225X-AEL	DS-2DF7232IX-AELW	DS-2DF8236IX-AELW	DS-2DF8236I5W-AELW	DS-2DF8250I5X-AELW	DS-2DF8836IX-AELW	DS-2DF8836I5V-AELW	DS-2DF8225IH-AELW
	NEW / 2 MP	NEW / 2 MP	NEW / DarkFighter / 2 MP	NEW / 2 MP	NEW / DarkFighter / 2 MP	DarkFighter / 2 MP	NEW / *Optical Image Stabilization / 2 MP	NEW / 4K	4K	NEW / DarkFighterX / 2 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	2/3" progressive scan CMOS	1/1.9" progressive scan CMOS	2× 1/2.8" Progressive Scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.8 B/W: 0.01 @ ƒ/1.8	Color: 0.05 @ ƒ/1.8 B/W: 0.01 @ ƒ/1.8	Color: 0.002 Lux @ ƒ/1.5 B/W: 0.0002 Lux @ ƒ/1.5	Color: 0.05 @ ƒ/1.8 B/W: 0.01 @ ƒ/1.8	Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5	Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5, 0 with IR	Color: 0.05 @ ƒ/1.8 B/W: 0.01 @ ƒ/1.8	Color: 0.005 @ ƒ/1.5 B/W: 0.0005 @ ƒ/1.5	Color: 0.02 @ ƒ/1.5 B/W: 0.002 @ ƒ/1.5 with IR	Color: 0.001 Lux @ ƒ/1.5 B/W: 0.0001 Lux @ ƒ/1.5
Lens/ Horizontal Angle of View	4.5 to 144 mm, motorized zoom, autofocus/ 61.4° to 2.1°	4.5 to 144 mm, motorized zoom, autofocus/ 61.4° to 2.1°	5.7 to 142.5 mm, motorized zoom, autofocus/ 59.8° to 2.8°	4.5 to 144 mm, motorized zoom, autofocus/ 61.4° to 2.1°	5.7 to 205.2 mm, motorized zoom, autofocus/ 59.8° to 2.0°	5.7 to 205.2 mm, motorized zoom, autofocus/ 58.7° to 2.0°	6.6 to 330 mm, motorized zoom, autofocus/ 41.3° to 1.1°	7.5 to 270 mm, motorized zoom, autofocus/ 56.1° to 1.5°	5.7 to 205.2 mm, motorized zoom, autofocus/ 56.8° to 2.02°	4.8 to 120 mm, motorized zoom, autofocus/ 58.2° to 3.2°
Optical Zoom (Digital Zoom)	32x (16x)	32x (16x)	25x (16x)	32x (16x)	36x (16x)	36x (16x)	50x (16x)	36x (16x)	36x (16x)	25x (16x)
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-10° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1°/s to 300°/sec. Tilt: 0.1°/s to 240°/sec.	Pan: 0.1°/s to 300°/sec. Tilt: 0.1°/s to 240°/sec.	Pan: 0.1°/s to 300°/sec. Tilt: 0.1°/s to 240°/sec.	Pan: 0.1°/s to 210°/sec. Tilt: 0.1°/s to 150°/sec.	Pan: 0.1°/s to 210°/sec. Tilt: 0.1°/s to 150°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1°/s to 160°/sec. Tilt: 0.1°/s to 120°/sec.	Pan: 0.1°/s to 210°/sec. Tilt: 0.1°/s to 150°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1°/s to 210°/sec. Tilt: 0.1°/s to 150°/sec.
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 280°/sec. Tilt: 250°/sec.	Pan: 280°/sec. Tilt: 250°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 280°/sec. Tilt: 250°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 280°/sec. Tilt: 250°/sec.
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital
Image Stabilization	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Optical	Electronic	No	Electronic
IR Range Max. (Meters)	---	---	---	150	200	500	500	200	500	200
Smart Features/ Presets/Tours/Patterns	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4
Video Compression	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.264/MJPEG	H.265+/H.265/ H.264+/H.264	H.265+/H.265/ H.264+/H.264	H.264/MJPEG	H.265+/H.265/ H.264+/H.264
Maximum Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	3840×2160	4096x2160	1920x1080
Frame Rate (fps)	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1920×1080, 1280×960, 1280×720 with WDR off	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1920×1080, 1280×960, 1280×720 with WDR off	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1920×1080, 1280×960, 1280×720 with WDR off	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1920×1080, 1280×960, 1280×720 with WDR off	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1920×1080, 1280×960, 1280×720 with WDR off	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1920×1080, 1280×960, 1280×720 with WDR off	30 @ 3840×2160, 3072×1728, 2560×1440, 1920×1080, 1280×960, 1280×720	24 @ 4096x2160 30 @ 3840×2160, 3072x1728, 2560x1440, 1920x1080, 1280x720	30 @ 1920×1080, 1280×960, 1280×720
Local Storage	MicroSD, 256 GB max.	MicroSD, 256 GB max.	MicroSD, 256 GB max.	MicroSD, 256 GB max.	MicroSD, 256 GB max.	MicroSD, 128 GB max.	MicroSD, 256 GB max.	MicroSD, 256 GB max.	MicroSD, 128 GB max.	MicroSD, 256 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IP66, UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-10°C to 50°C (14°F to 122°F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)
Power Requirements (max.)	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included

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

OUTDOOR DOME

Model	DS-2XC6122FWD-IS	DS-2CD6626DS-IZHS	DS-2CD6626BS-R	DS-2CD6626B/E-HIR5	DS-2CD6626B/E-HIRA
	NEW · 2 MP	DarkFighter · 2 MP	DarkFighter · 2 MP	DarkFighter · 2 MP	DarkFighter · 2 MP
Image Sensor	1/2.7" Progressive Scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 Lux @ ƒ/1.2 B/W: 0.028 Lux @ ƒ/2.0	Color: 0.002 @ ƒ/1.2 B/W: 0 with IR	Color: 0.002 @ ƒ/1.2, AGC On B/W: 0.0002 @ f/1.2, AGC On	Color: 0.002 @ ƒ/1.2, AGC On B/W: 0.0002 @ f/1.2, AGC On, 0 with IR	Color: 0.002 @ ƒ/1.2, AGC On B/W: 0.0002 @ f/1.2, AGC On, 0 with IR
Lens/ Horizontal Angle of View	2.8 mm/ 100° 4 mm/ 91° 6 mm/ 60°	2.8 to 12 mm @ ƒ/1.4, motorized, autofocus/ 92° to 32°	16 mm/ 25°	3.8 to 16 mm/ 100.6° to 27.3°	11 to 40 mm/ 35.8° to 11.2°
Pan/Tilt/Rotation	0° to 75°/ -30° to 30°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	---	---	---
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max (meters)	10	30	---	50	100
Video Compression	H.265/H.264	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Max. Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	24 @ 1920×1080, 1280×960, 1280×720	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960 1280x720 with WDR off)	60 @ 1920x1080, 1280x960, 1280x720	60 @ 1920x1080, 1280x960, 1280x720	60 @ 1920x1080, 1280x960, 1280x720
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]
Image Enhancement	3D DNR, BLC, AWB, WDR	3D DNR, EIS, Defog	3D DNR, AWB, EIS, Defog	3D DNR, AWB, EIS, Defog	3D DNR, AWB, EIS, Defog
Audio Input/Output	---	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD 128 GB max.	MicroSD 128 GB max.	No	MicroSD 128 GB max.	MicroSD 128 GB max.
Ratings	316L Stainless Steel, IP67, UL/cUL Listed, Anti-corrosion, NEMA 4X, WF2, C5-M	316L Stainless Steel, IP67, IK10, UL/cUL Listed, Anti-corrosion, NEMA 4X, WF2, C5-M	316L Stainless Steel, IP67, IK10, UL/cUL Listed, Anti-corrosion, NEMA 4X, WF2, C5-M	316L Stainless Steel, IP67, IK10, UL/cUL Listed, Anti-corrosion, NEMA 4X, WF2, C5-M	316L Stainless Steel, IP67, IK10, UL/cUL Listed, Anti-corrosion, NEMA 4X, WF2, C5-M
Operating Temperature Range	-30° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 5 W	24 VAC, 12V DC, PoE (802.3af), 16 W	24 VAC, 12V DC, PoE (802.3af), 13 W	24 VAC, 60 W	24 VAC, 60 W

OUTDOOR PTZ

Model	DS-2DT6223-AELY
	DarkFighter · 2 MP
Image Sensor	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5 AGC On
Lens/ Horizontal Angle of View	5.9 to 135.7 mm, motorized zoom, autofocus/ 59.8° to 3.0°
Optical Zoom	23x (16x Digital)
Pan Range	360° endless
Tilt Range	-20° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.
Day/Night/BLC/WDR	TRUE/Yes/120 dB
Electronic Image Stabilization	Yes
IR Range Max. (Meters)	---
Smart Features/ Presets/Tours/Patterns	PTZ Suite[3]/ 300/8/4
Video Compression	H.264/MJPEG/MPEG4
Maximum Image Resolution (pixels)	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280×720
Local Storage	MicroSD, 128 GB max.
Ratings	316L Stainless Steel, IP67, IK10,UL/cUL Listed
Operating Temperature Range	-40° C to 65° C (-40° F to 149° F)
Power Requirements (max.)	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included

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

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

Professional Solutions

SS Stainless Steel

OUTDOOR PTZ

Model	DS-2DY5223IW-AE	DS-2DY9188-A	DS-2DY9188-AI2	DS-2DY9188-AIA	DS-2DY9250X-A	DS-2DY9250IX-A	DS-2DY9250IAX-A
	DarkFighter — 2 MP	DarkFighter — 2 MP	DarkFighter — 2 MP	DarkFighter — 2 MP	NEW — 2 MP	NEW — 2 MP	NEW — 2 MP
Image Sensor	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On, 0 with IR	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On, 0 with IR	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On, 0 with IR	Color: 0.002 @ f/1.5, AGC On B/W: 0.0002 @ f/1.5, AGC On, 0 with IR	Color: 0.05 @ f/1.8 B/W: 0.01 @ f/1.8	Color: 0.05 @ f/1.8 B/W: 0.01 @ f/1.8	Color: 0.05 @ f/1.8 B/W: 0.01 @ f/1.8
Lens	5.9 to 135.7 mm, motorized zoom, autofocus/ 59.8° to 3.0°	5.7 to 205.2 mm, motorized zoom, autofocus/ 58.7° to 2°	5.7 to 205.2 mm, motorized zoom, autofocus/ 58.7° to 2°	5.7 to 205.2 mm, motorized zoom, autofocus/ 58.7° to 2°	6.6 to 330 mm, motorized zoom, autofocus/ 41.3° to 1.1°	6.6 to 330 mm, motorized zoom, autofocus/ 41.3° to 1.1°	6.6 to 330 mm, motorized zoom, autofocus/ 41.3° to 1.1°
Optical Zoom (Digital Zoom)	23x (16x)	36x (16x)	36x (16x)	36x (16x)	50x (16x)	50x (16x)	50x (16x)
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-90° to 90°	-40° to 90°	-40° to 90°	-40° to 90°	-40° to 90°	-40° to 90°	-40° to 90°
Pan & Tilt Speed (Manual)	Pan: 0.1° to 200°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 40°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 40°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 40°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 50°/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: 100°/sec. Tilt: 100°/sec.	Pan: 100°/sec. Tilt: 100°/sec.	Pan: 100°/sec. Tilt: 100°/sec.
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital
Image Stabilization	Electronic	Electronic	Electronic	Electronic	Optical	Optical	Optical
IR Range Max. (Meters)	150	---	200	1000 (Laser)	---	150	1000 (Laser)
Smart Features/ Presets/Tours/Patterns	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 256/8/4	PTZ Suite[1]/ 256/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG/MPEG4	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Maximum Image Resolution (pixels)	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280×720	30 @ 1920x1080, 1280x960, 1280×720	30 @ 1920x1080, 1280x960, 1280×720	30 @ 1920×1080, 1280×960, 1280×720 60 @ 1920×1080, 1280×960, 1280×720	30 @ 1920×1080, 1280×960, 1280×720 60 @ 1920×1080, 1280×960, 1280×720	30 @ 1920×1080, 1280×960, 1280×720 60 @ 1920×1080, 1280×960, 1280×720
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 256 GB max.	MicroSD, 256 GB max.	MicroSD, 256 GB max.
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149°)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 70° C (-40° F to 158° F)	-40° C to 70° C (-40° F to 158° F)	-40° C to 70° C (-40° F to 158° F)
Power Requirements (max.)	24 VAC, Hi-PoE (802.3at), 45 W, PoE Injector Included	24 VAC, 60 W	24 VAC, 60 W	24 VAC, 60 W	24 VAC, 110W	24 VAC, 110W	24 VAC, 110W

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

Professional Solutions

smart IPC

OUTDOOR PANOVU

Model	DS-2DP1636Z-D	DS-2DP0818Z-D	DS-2DP1636-D
	16 MP	8 MP	16 MP
Panoramic Image Sensors	1/1.9" Progressive Scan CMOS (8)	1/1.9" Progressive Scan CMOS (4)	1/1.9" Progressive Scan CMOS (4)
Min. Illumination (lux)	Color: 0.005 lux @ ƒ/2.2, AGC On B/W: 0.0005 lux @ ƒ/2.2, AGC On	Color: 0.005 lux @ ƒ/2.2, AGC On B/W: 0.0005 lux @ ƒ/2.2, AGC On	Color: 0.005 lux @ ƒ/2.2, AGC On B/W: 0.0005 lux @ ƒ/2.2, AGC On
Lens/ Horizontal Angle of View	5mm (8), f/2.2/ 360° (2x180° stitched streams) at up to 4096x1800 @30 fps per stream	5mm (8), f/2.2/ 180° stitched stream at up to 4096x1800 @30 fps	4 mm (8), ƒ/1.8/ 360° (2x180° stitched streams) at up to 2400x3840 @25 fps per stream
Stitched Image(s) linkage to PTZ	Yes, 3D intelligent positioning	Yes, 3D intelligent positioning	---
PTZ Image Sensor / Megapixels	1/1.9" Progressive Scan CMOS / 2.0	1/1.9" Progressive Scan CMOS / 2.0	1/1.9" Progressive Scan CMOS
PTZ Lens	5.7 to 205mm, 36x (16x digital)	5.7 to 205mm, 36x (16x digital)	---
Min. Illumination (lux)	Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On (True Day/Night)	Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On (True Day/Night)	Color: 0.004 @ ƒ/1.8, AGC On B/W: 0.0004 @ ƒ/1.8, AGC On
Pan/Tilt Rotation	Pan: 360° endless Tilt: -15° to 90° (autoflip)	Pan: 360° endless Tilt: -15° to 90° (autoflip)	Pan: ePTZ, 360° Tilt: 180°
Pan & Tilt Speed Manual / Preset	Pan: 0.1° to 300° per sec. / 540° per sec. Tilt: 0.1° to 120° per sec. / 400° per sec.	Pan: 0.1° to 300° per sec. / 540° per sec. Tilt: 0.1° to 120° per sec. / 400° per sec.	---
Image Enhancement	3D DNR, BLC, AWB, WDR, EIS, Defog	3D DNR, BLC, AWB, WDR, EIS, Defog	3D DNR, BLC, WDR, Defog
Smart Features/ Presets/Tours/Patterns	PTZ Suite[1]/ 300/8/4	PTZ Suite[1]/ 300/8/4	---
Smart Tracking	Yes	Yes	No
Video Compression	H.264 (Base/Main/High Profile)/MJPEG	H.264 (Base/Main/High Profile)/MJPEG	H.264 (Base/Main/High Profile)/MJPEG
Main Stream (fps)	Panoramic: 2 x 30 @ 4096x1800, 3840x1680, 2720x1192 PTZ: 30 @ 1920x1080, 1280x960, 1280x720	Panoramic: 30 @ 4096x1800, 3840x1680, 2720x119 2PTZ: 30 @ 1920x1080, 1280x960, 1280x720	2 x 25 @ 2400x3840, 1792x2880, 1600x2560, 1200x1920
Sub Stream (fps)	Panoramic: 2 x 30 @ 176x144, 352x288, 704x320 PTZ: 30 @ 704x480, 352x240, 176x120	Panoramic: 30 @ 176x144, 352x288, 704x320 PTZ: 30 @ 704x480, 352x240, 176x120	2 x 25 @ 320x512, 480x720
Third Stream (fps)	Panoramic: 2 x 30 @ 176x144, 352x288, 704x320, 1280x960, 1280x720, 1920x1080 PTZ: 30 @ 1920x1080, 1280x960, 1280x720, 704x480, 352x240, 176x120	Panoramic: 30 @ 176x144, 352x288, 704x320, 1280x960, 1280x720, 1920x1080 PTZ: 30 @ 1920x1080, 1280x960, 1280x720, 704x480, 352x240, 176x120	2 x 30 @ 2400x3840, 1200x1920
Alarm Input/Output	7/2	7/2	7/2
Audio Input/Output	2/1	2/1	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
Operating Temperature Range	-40° C to 65° C (40° F to 149° F)	-40° C to 65° C (40° F to 149° F)	-40° C to 65° C (40° F to 149° F)
Power Requirements (max.)	36 VDC, 120W	36 VDC, 70W	36 VDC, 110W

OUTDOOR EXPLOSION PROOF PTZ

Model	DS-2DF6223-CX
	DarkFighter SS Explosion Proof · 2 MP
Image Sensor	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.002 Lux @ ƒ/1.5 B/W: 0.0002 Lux @ ƒ/1.5
Lens/ Horizontal Angle of View	5.9 to 135.7 mm, motorized zoom, autofocus/ 59.8° to 3.0°
Optical Zoom	23x
Pan Range	360° endless
Tilt Range	0° to 90° (Auto Flip)
Pan & Tilt Speed (Manual)	Pan: 0.1°/s to 300°/sec Tilt: 0.1°/s to 240°/sec
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.
Day/Night/BLC/WDR	TRUE/Yes/120 dB
Electronic Image Stabilization	Yes
IR Range Max (Meters)	---
Smart Features/ Presets/Tours/Patterns	PTZ Suite[1]/ 300/8/4
Video Compression	H.265+/H.265/ H.264+/H.264
Max. Image Resolution (pixels)	1920 × 1080
Frame Rate (fps)	30 @ 1920×1080, 1280×960, 1280×720 60 @ 1920×1080, 1280×960, 1280×720 with WDR off
Local Storage	MicroSD, 128 GB max.
Material/Ratings	316L, IP68
Operating Temperature Range	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	100 VAC to 240 VAC, Max.: 60 W
Certifications	II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80oC Db IP68

OUTDOOR EXPLOSION PROOF BULLET

Model	DS-2XE6222F-IS				
	Explosion Proof SS · 2 MP				
Image Sensor	1/2.7" Progressive Scan CMOS				
Min. Illumination (lux)	Color: 0.01 Lux @ ƒ/1.2 B/W: 0.001 Lux @ ƒ/1.2				
Lens/ Horizontal Angle of View	4 mm/ 91°	6 mm/ 60°	8 mm/ 41.5°	12 mm/ 26.6°	16 mm/ 20.6°
Pan/Tilt/Rotation	---				
Day/Night/BLC/WDR	TRUE/Yes/120 dB				
IR Range Max (meters)	30				
Video Compression	H.265/H.264				
Max. Image Resolution (pixels)	1920 × 1080				
Frame Rate (fps)	30 @1920×1080, 1280×960, 1280×720				
Multi-Streaming	Triple				
Smart Features	Full Smart Suite[1]				
Image Enhancement	BLC/3D DNR				
Motion Detection	Yes				
Alarm Input/Output	2/2				
Local Storage	MicroSD, 128 GB max.				
Material/Ratings	316L, IP68, NEMA 4X, C5-M				
Operating Temperature Range	-30°C to +60 °C				
Power Requirements (max.)	AC 100 V to 240 V, PoE (802.3af), 6W				
Certifications	II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T80oC Db IP68				

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

SS Stainless Steel

Professional Solutions

OUTDOOR BULLET   **OUTDOOR ACCURATE TEMPERATURE BULLET**

	DS-2TD2136-7/10/15/25/35					DS-2TD2166-7/15/25/35				DS-2TD2336-50/75/100			DS-2TD2366-50/75/100			DS-2TD2136T-10/15/25		
Model	RESOLUTION: **Medium**					RESOLUTION: **High**				RESOLUTION: **Medium**			RESOLUTION: **High**			RESOLUTION: **Medium**		
Thermal Sensor	Vanadium Oxide UFPA					Vanadium Oxide UFPA				Vanadium Oxide UFPA			Vanadium Oxide UFPA			Vanadium Oxide UFPA		
Resolution/Pixel Pitch	384x288/17 µm					640x512/17 µm				384x288 /17 µm			640x512/17 µm			384x288/17 µm		
Thermal Lens	7 mm	10 mm	15 mm	25 mm	35 mm	7 mm	15 mm	25 mm	35 mm	50 mm	75 mm	100 mm	50 mm	75 mm	100 mm	10 mm	15 mm	25 mm
Field of View (HxV)	60°×43.8°	36°x27°	24.6°x18.5°	14.9°x11.2°	11°x8°	88.5°×73.2°	40.0°x32.4°	24.6°x19.8°	17.7°x14.2°	7.5°×5.6°	5.0°×3.7°	3.74°×2.8°	12.4°×10.0°	8.3°×6.6°	6.2°×5.0°	36° × 27°	24.6°×18.5°	14.9°×11.2°
MRAD	2.42	1.7	1.13	0.68	0.49	2.42	1.13	0.68	0.49	0.34	0.23	0.17	0.34	0.23	0.17	1.70	1.13	0.68
Minimum Focus Distance	0.8 m	1 m	2.5 m	13 m	40 m	0.8 m	2.5 m	13 m	40 m	7.5 m	8 m	10 m	7.5 m	8 m	10 m	1 m	2.5 m	13 m
Spectral Response	8 µm to 14 µm					8 µm to 14 µm				8µm to 14µm			8µm to 14µm			8µm to 14µm		
NETD	<40mK					<40mK				<40mK			<40mK			<40mK		
Psuedo Colors	15					15				15			15			15		
Image Enhancement	3D DNR, Adaptive AGC, DDE					3D DNR, Adaptive AGC, DDE				3D DNR, Adaptive AGC, DDE			3D DNR, Adaptive AGC, DDE			3D DNR, Adaptive AGC, DDE		
Pan/Tilt/Rotation	3-axis Positioning					3-axis Positioning				3-axis Positioning			3-axis Positioning			3-axis Positioning		
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG					H.265+/H.265/H.264+/H.264/MJPEG				H.265+/H.265/H.264+/H.264/MJPEG			H.265+/H.265/H.264+/H.264/MJPEG			H.265+/H.265/H.264+/H.264/MJPEG		
Main Stream (fps)	50 @ 384x288					50 @ 640x512, 384x288, 352x288				50 @ 384x288			50 @ 384x288			50 @ 384x288		
Sub Stream (fps)	50 @ 384x288					50 @ 640x512, 384x288, 352x288				50 @ 384x288			50 @ 384x288			50 @ 384x288		
Third Stream (fps)	50 @ 384x288					50 @ 640x512, 384x288, 352x288				50 @ 384x288			50 @ 384x288			50 @ 384x288		
Smart Features	Line cross, Intrusion, Region Entrance/Exit, ROI					Line cross, Intrusion, Region Entrance/Exit, ROI				Line cross, Intrusion, Region Entrance/Exit			Line cross, Intrusion, Region Entrance/Exit			Line cross, Intrusion, Region Entrance/Exit		
Alarm on Temperature	Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points and Regions					Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points and Regions				Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions			Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions			Accuracy: Max (±2°C ±2%), Temp range: -20 to 550°C range for 1-Line, 10-Points and 10 Regions		
Accurate Fire Detection	10 detections					10 detections				10 detections			10 detections			10 detections		
Alarm Input/Output	2/2, configurable					2/2, configurable				2/2, configurable			2/2, configurable			2/2, configurable		
Audio Input/Output	1/1					1/1				1/1			1/1			1/1		
Local Storage	MicroSD 64 GB max.					MicroSD 64 GB max.				MicroSD 64 GB max.			MicroSD 64 GB max.			MicroSD 64 GB max.		
Ratings	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 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.)	24VAC, 12VDC/3A, PoE+ (802.3at), 22 W					24VAC, 12VDC/3A, PoE+ (802.3at), 22 W				24VAC, 12VDC/3A, 22 W			24VAC, 12VDC/3A, 22 W			POE+ (802.3at), 24VAC, 12VDC/3A, 20 W		

Standards: Complies with ONVIF (Profile S and G), ISAPI.

Professional Solutions

OUTDOOR ACCURATE TEMPERATURE BULLET / OUTDOOR STAINLESS STEEL BULLET

Model	DS-2TD2166T-15/25		DS-2TD2466-25Y/50Y	
	NEW RESOLUTION: High		**NEW** RESOLUTION: High (SS)	
Thermal Sensor	Vanadium Oxide UFPA		Vanadium Oxide UFPA	
Resolution/Pixel Pitch	640x512/17 µm		640x512/17 µm	
Thermal Lens	15 mm	25 mm	25 mm	50 mm
Field of View (HxV)	39.9°×32.4°	24.6°×19.8°	24.6°×19.8°	12.4°×10.0°
MRAD	1.13	0.68	0.68	0.34
Minimum Focus Distance	2.5 m	13 m	2 m	5 m
Spectral Response	8µm to 14µm		8µm to 14µm	
NETD	<40mK		<40mK	
Psuedo Colors	15		15	
Image Enhancement	3D DNR,Adaptive AGC, DDE		3D DNR,Adaptive AGC, DDE	
Pan/Tilt/Rotation	3-axis Positioning		3-axis Positioning	
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG		H.265+/H.265/H.264+/H.264/MJPEG	
Main Stream (fps)	50 @ 384x288		50 @ 640x512	
Sub Stream (fps)	50 @ 384x288		50 @ 640x512	
Third Stream (fps)	50 @ 384x288		50 @ 640x512	
Smart Features	Line cross, Intrusion, Region Entrance/Exit		Line cross, Intrusion, Region Entrance/Exit	
Alarm on Temperature	Accuracy: Max (±2°C ±2%), Temp range: -20 to 550°C range for 1-Line, 10-Points and 10 Regions		Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions	
Accurate Fire Detection	10 detections		10 detections	
Alarm Input/Output	2/2, configurable		2/2, configurable	
Audio Input/Output	1/1		1/1	
Local Storage	MicroSD 64 GB max.		MicroSD 64 GB max.	
Ratings	IP66 UL/cUL Listed		IP66 UL/cUL Listed	
Operating Temperature Range	-40° C to 65° C (-40° F to 149° F)		-40° C to 65° C (-40° F to 149° F)	
Power Requirements (max.)	POE+ (802.3at), 24VAC, 12V DC/3A, 22 W		POE+ (802.3at), 24VAC, 12V DC/3A, 22 W	

OUTDOOR BI-SPECTRUM BULLET

Model	DS-2TD2235D-25/50	
	RESOLUTION: Medium	2 MP
Thermal Sensor	Vanadium Oxide UFPA	
Resolution / Pixel Pitch	384x288/25 µm	
Lens	25 mm	50 mm
Field of View	21.7°x16.4°	11.0°x8.2°
Spectral Response / NETD	8µm to 14µm / <50mk	
MRAD	1	0.5
Minimum Focus Distance	13m	50m
Psuedo Colors	15	
Optical Sensor	1/1.8" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.002 @ ƒ/1.2, AGC On	
Lens/ Field of View	11 mm (36.2°x20.9°)	23 mm (17.8°x10.1°)
Day / Night	TRUE	
IR Range Max (meters)	120m, Smart IR	
Image Enhancement	3D DNR, BLC, AWB, WDR (120dB), EIS, Defog	
Smart Features	Line cross, Intrusion, Region Entrance/Exit	
Alarm on Temperature	Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions	
Accurate Fire Detection	10 detections	
Video Compression	H.264/MJPEG, H.264+ encoding with Baseline/ Main/High Profile	
Main Stream (fps)	Thermal: 25 @ 384x288 Visible: 30 @ 1920x1080, 1280x960, 1280x720	
Sub Stream (fps)	Thermal: 25 @ 160x120 Visible: 30 @ 704x480, 352x240, 176x120	
Alarm Input/Output	1/1	
Audio Input/Output	1/1	
Local Storage	MicroSD, 64 GB max.	
Ratings	IP66 UL/cUL Listed	
Operating Temperature Range	-40° C to 55° C (40° F to 131° F)	
Power Requirements (max.)	24VAC, 40 W	

OUTDOOR BI-SPECTRUM PTZ DOME

Model	DS-2TD4035D-25/50	
	RESOLUTION: Medium	2 MP
Thermal Sensor / Resolution / Pixel Pitch	Vanadium Oxide UFPA / 384x288 / 25 µm	
Lens / Field of View	25 mm / 21.7°x16.4°	50 mm / 11.0°x8.2°
Spectral Response / NETD	8 µm to 14 µm / <50mK	
Psuedo Colors	15	
Optical Sensor	1/2.8" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.3 @ ƒ/1.6, 1/30 sec, 50 IRE, AGC On B/W: 0.02 @ ƒ/1.6, 1/30 sec, 50 IRE, AGC On (True Day/Night)	
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	
Optical Zoom (Digital Zoom)	30x (16x)	
Pan Range / Tilt Range	360° endless / -15° to 90° (auto flip)	
Pan & Tilt Speed (Manual)	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	
Pan & Tilt Speed (Preset)	Pan: 240°/sec. Tilt: 200°/sec.	
Image Enhancement	BLC, 3D DNR. WDR, EIS	
IR Range Max (Meters)	150 m, Smart IR	
Smart Features/Presets/Tours/Patterns	PTZ Suite[1]/300/8/4	
Smart Tracking	Linkage between thermal and visible; panorama and event tracking	
Alarm on Temperature	Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions	
Accurate Fire Detection	10 detections with visible zoom, even while scannng	
Video Compression	H.264 (Base/Main/High Profile)/MJPEG/MPEG4	
Main Stream (fps)	Thermal: 25 @ 384x288 Visible: 30 @ 1920x1080, 1280x960, 1280x720	
Sub Stream (fps)	Thermal: 25 @ 384x288 Visible: 30 @ 704x480, 352x240, 176x120	
Alarm Input/Output	7/2	
Audio Input/Output	1/1	
Local Storage	MicroSD, 64 GB max.	
Ratings	IP66 UL/cUL Listed	
Operating Temperature Range	-40° C to 60° C (40° F to 140° F)	
Power Requirements (max.)	24VAC, 60W	

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI.

(SS) Stainless Steel

Professional Solutions

Professional Solutions

OUTDOOR BI-SPECTRUM UPRIGHT PTZ

MONOCULAR HANDHELD CAMERA

Model	DS-2TD4166-25/50		DS-2TD6135-50/75B2L		DS-2TD6166-50/75B2L	
	NEW					
	RESOLUTION: High	2 MP	RESOLUTION: Medium	2 MP	RESOLUTION: High	2 MP
Thermal Sensor / Resolution / Pixel Pitch	Vanadium Oxide UFPA / 640x512 / 17µm		Vanadium Oxide UFPA / 384x288 / 25µm		Vanadium Oxide UFPA / 640x512 / 17µm	
Lens / Field of View	25mm/14.9°x11.2°	50mm/12.4°x10.0°	50mm / 11.0°x8.2°	75mm / 7.3°x5.5°	50mm / 12.4°x10.0°	75mm / 8.3°x6.6°
Spectral Response / NETD	8µm to 14µm / <40mK		8µm to 14µm / <50mK		8µm to 14µm / <50mK	
Psuedo Colors	15		15		15	
Optical Sensor	1/1.9" Progressive Scan CMOS		1/2.8" progressive scan CMOS		1/2.8" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.02 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On (True Day/Night)		Color: 0.02 @ ƒ/1.5, AGC On B/W: 0.002 @ ƒ/1.5, AGC On (True Day/Night)		Color: 0.02 @ ƒ/1.5, AGC On B/W: 0.002 @ ƒ/1.5, AGC On (True Day/Night)	
Lens	5.7 to 205.2 mm, motorized zoom, autofocus		8 to 250mm, motorized zoom, autofocus		8 to 250mm, motorized zoom, autofocus	
Optical Zoom (Digital Zoom)	36x (16x)		32x (16x)		32x (16x)	
Pan Range	360° endless		360° endless		360° endless	
Tilt Range	-15° to 90° (auto flip)		40° to -90°		-40° to 90°	
Pan & Tilt Speed (Manual)	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.		Pan: 0.1° to 110°/sec. Tilt: 0.1° to 50°/sec.		Pan: 0.1° to 110°/sec. Tilt: 0.1° to 50°/sec.	
Pan & Tilt Speed (Preset)	Pan: 240°/sec. Tilt: 200°/sec.		---		---	
Image Enhancement	BLC, 3D DNR. WDR, EIS		BLC, 3D DNR. WDR, EIS		BLC, 3D DNR. WDR, EIS	
IR Range Max (Meters)	150m, Smart IR		500m, Smart IR		500m, Smart IR	
Smart Features/Presets/Tours/Patterns	PTZ Suite[1]/300/8/4		PTZ Suite[1]/300/8/4		PTZ Suite[1]/300/8/4	
Smart Tracking	Linkage between thermal and visible; panorama and event tracking		Linkage between thermal and visible; panorama and event tracking		Linkage between thermal and visible; panorama and event tracking	
Alarm on Temperature	Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions		Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions		Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line, 10-Points and 10 Regions	
Accurate Fire Detection	10 detections with visible zoom, even while scannng		10 detections with visible zoom, even while scannng		10 detections with visible zoom, even while scannng	
Video Compression	H.264 (Baseline/Main/High Profile) /MJPEG/MPEG4/H.264+		H.264 (Base/Main/High Profile)/MJPEG/MPEG4		H.264 (Base/Main/High Profile)/MJPEG/MPEG4	
Main Stream (fps)	Thermal: 50 @ 640x512 Visible: 30 @ 1920x1080, 1280x960, 1280x720		Thermal: 25 @ 384x288 Visible: 30 @ 1920x1080, 1280x960, 1280x720		Thermal: 50 @ 640x512 Visible: 30 @ 1920x1080, 1280x960, 1280x720	
Sub Stream (fps)	Thermal: 50 @ 640x512 Visible: 30 @ 704x480, 352x240, 176x120		Thermal: 25 @ 384x288 Visible: 30 @ 704x480, 352x240, 176x120		Thermal: 50 @ 640x512 Visible: 30 @ 704x480, 352x240, 176x120	
Alarm Input/Output	7/2		7/2		7/2	
Audio Input/Output	1/1		1/1		1/1	
Local Storage	MicroSD, 64 GB max.		MicroSD, 64 GB max.		MicroSD, 64 GB max.	
Ratings	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)	
Power Requirements (max.)	24VAC, 60W		24VAC, 120W		24VAC, 120W	

Model	DS-2TS03-25UM/W
	NEW
	RESOLUTION: Medium
Thermal Sensor	Vanadium Oxide UFPA
Resolution / Pixel Pitch	384x288 / 25 µm
Thermal Lens / Field of View	25 mm / 14.9° × 11.2°
NETD / MRAD	< 50mk / 0.68
Spectral Response	8µm to 14µm
Image Enhancement	3D DNR,Adaptive AGC, DDE
Display	1024x768, 0.39-inch, OLED
Digital Zoom	2x
Color Pallets	3
Battery	Built-in rechargeable Li-ion
Battery Life	Up to 5 hours
Local Storage	16 GB
Interface	USB
Standards	IP67
Operating Temperature Range	-30°C to 55°C (-22°F to 131°F)
Power Requirements (max.)	5V DC/2A, 2W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI.

	PRO SERIES				DEEPINMIND SERIES			
Model	**DS-9616NI-I8**	**DS-9632NI-I8**	**DS-9632NI-I16**	**DS-9664NI-I8**	**DS-96064NI-I16**	**DS-96128NI-I24/H**	**DS-96256NI-I24/H**	**iDS-9632NXI-I8/16S**
Max. Recording Resolution	12 MP	12 MP	12 MP	12 MP	12 MP	12 MP	12 MP	12 MP
Video Compression	H.265+/H.265/H.264+/H.264/ MPEG4/MJPEG	H.265+/H.265/H.264+/H.264/ MPEG4/MJPEG	H.265+/H.265/H.264+/H.264/ MPEG4	H.265+/H.265/H.264+/H.264/ MPEG4/MJPEG	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264/ MPEG4/MJPEG	H.265+/H.265/H.264+/H.264/ MPEG4/MJPEG	H.265+/H.265/H.264+/H.264/ MPEG4
HDMI/VGA Output	3840x2160/2560x1440 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	3840x2160/2560x1440 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	3840x2160/2560x1440 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	3840x2160/2560x1440 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	2 HDMI 4K (4096 x 2160)/4K (3840 x 2160) and 1 VGA at 1920x1080 Resolution, HDMI1 and HDMI2 are Independent	2 HDMI 4K (4096 x 2160)/ 4K (3840 x 2160) and 1 VGA at 1920x1080 Resolution, VGA/LCD Synchronous. HDMI1 and HDMI2 are Independent	2 HDMI 4K (4096 x 2160)/ 4K (3840 x 2160) and 1 VGA at 1920x1080 Resolution, VGA/LCD Synchronous. HDMI1 and HDMI2 are Independent	3840x2160/2560 x 1440 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent
IP Video Inputs	16	32	32	64	64	128	256	32
Alarm Input/Output	16/4	16/4	16/8	16/4	16/8	16/8	16/8	16/8
USB	2 USB 2.0; 1 USB 3.0	2 USB 2.0; 1 USB 3.0	2 USB 2.0; 1 USB 3.0	2 USB 2.0; 1 USB 3.0	2 USB 2.0; 2 USB 3.0	1 USB 2.0; 2 USB 3.0	1 USB 2.0; 2 USB 3.0	2 USB 2.0; 1 USB 3.0
RAID Support	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID0, RAID1, RAID5, RAID6, RAID10
Internal SATA	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	16 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	16 SATA interfaces, hot-swap (up to 8 TB each)	24 SATA interfaces, hot-swap (up to 8 TB each)	24 SATA interfaces, hot-swap (up to 8 TB each)	8 SATA interfaces (up to 8 TB each)
Maximum Internal Storage	48 TB	48 TB	96 TB	48 TB	128 TB	192 TB	192 TB	64 TB
eSATA Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Support DVD-RW	Yes, replaces 4x SATA	Yes, replaces 4x SATA	---	Yes, replaces 4x SATA	---	---	---	---
Max. Incoming Bandwidth (Mbps)	256 (200 with RAID)	320 (200 with RAID)	320 (200 with RAID)	320 (200 with RAID)	512Mbps (400 with RAID)	768	768	320 (200 with RAID)
Maximum Outgoing Bandwidth (Mbps)	256 (200 with RAID)	256 (200 with RAID)	256 (200 with RAID)	256 (200 with RAID)	512Mbps (400 with RAID)	512	768	256 (200 with RAID)
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	2	2	3	2	3	4	4	2
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, 550 W, Redundant	100 to 240 VAC, 50 to 60 Hz, 550 W, Redundant	100 to 240 VAC, 50 to 60 Hz, 550 W, Redundant	100 to 240 VAC, 50 to 60 Hz
Power Consumption	≤30 W without HDD or DVD-R/W	≤30 W without HDD or DVD-R/W	≤45 W without HDD or DVD-R/W	≤30 W without HDD or DVD-R/W	≤140 W without HDD or DVD-R/W	≤140 W without HDD or DVD-R/W	≤140 W without HDD or DVD-R/W	≤ 70 W without HDD or DVD-R/W

Standards: Complies with ONVIF (Profile S), CGI ASAPI. Contact factory for details.
⁴Requires rack shelf (not included) to mount in a 19" equipment rack; it is not recommended to rack mount the unit using rack rails and rack ears (not included) due to the weight. Weight without HDD ≤15.86 Kg (31.79 lb)

Professional Solutions

Deep Learning Technology

Deep Learning technology algorithms are the latest innovation in video image analytic systems. Hikvision leads the way in implementing these algorithms in its new DeepinView Camera series and DeepinMind NVR series of products.

For years, video content analysis software has been promoted as a way to curb false alarms and improve detection and prevention in security applications. To date, most applications have lacked accuracy and reliability. Today's high-speed GPUs dramatically improve the processing of video data and Deep Learning is recognized as the future in technology. Hikvision is leading the way with Deep Learning products that provide users with the most reliable and accurate video content analysis.

Vertical Markets

Applications for this technology include many vertical markets that rely on more accurate and effective solutions to queue and count people, implement crowd control, manage loitering, entry/exit, vehicle management, traffic, parking and license plate recognition. Hikvision is making solutions for all of these scenarios and more with enhanced Deep Learning technology.

HikCentral/iVMS-4200

Taking advantage of this new technology does not mean replacement of existing equipment and systems. Hikvision provides DeepInView cameras that can enhance existing systems. Our HikCentral and iVMS-4200 control systems are able to manage these products. You can add a DeepInMind NVR to your system using the existing cameras on site.

R&D

The added value of Deep Learning products is that they will continue to improve as data is collected and processed through Hikvision's Research and Development teams. Improved accuracy and reliability will be introduced with firmware and software upgrades that take advantage of the newly "learned" subjects and characteristics.

01. **HUMAN DETECTION**
False alarms from non-human subjects (animals, vehicles, moving trees, changing lighting) are a significant limitation of current video analytics. Hikvision solves this problem with algorithms in cameras and NVRs that will isolate detection of human subjects significantly improving video analysis accuracy and reliability.
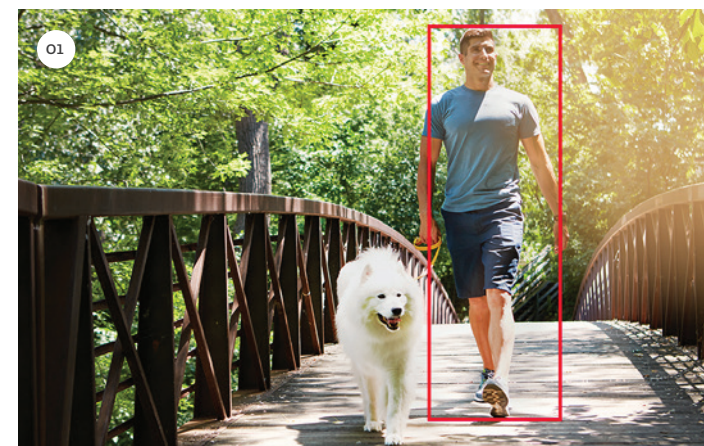
02. **FACE DETECTION AND RECOGNITION**
Facial analytics products have been in use for years with limited accuracy. Today Deep Learning algorithms can increase accuracy up to 97 percent. New methods of facial analysis, massive data collection and testing are being implemented in Hikvision products to ensure accurate face capture. High speed search and recognition analytics will provide immediate identification of subjects.

03. **BEHAVIORAL ANALYSIS**
Human and vehicle characteristics are more defined, increasing the intelligence of these systems. Hikvision is identifying subject's movement and positioning to help customers prevent crime before it happens. This analytic technology can help identify gender, clothing, such as hats, bags and glasses, as well as car color, shape and model.

BLAZER EXPRESS

Model	Blazer Express 16/16P	Blazer Express 32/16P	Blazer Express 32
Form Factor	19 in, IU	19 in, I.5U	19 in, I.5U
Max. Recording Resolution	4K	4K	4K
Video Compression	H.264, H.264+	H.264, H.264+	H.264, H.264+
Operating System	Windows Embedded 7	Windows Embedded 7	Windows Embedded 7
VGA Output	1920x1080 / 1920x1080 (independent)	1920x1080 / 1920x1080 (independent)	1920x1080 / 1920x1080 (independent)
IP Video Inputs	16-ch IPC with integrated 16-port 802.3af/at PoE switch (≤220 W)	32-ch IPC with integrated 16-port 802.3af/at PoE switch (≤150 W)	32-ch IPC
Alarm Input/Output	4, 2	4, 2	4, 2
Audio in/out	1, 1	1, 1	1, 1
USB	4 × USB 2.0, 1 × USB 3.0	4 × USB 2.0, 1 × USB 3.0	4 × USB 2.0, 1 × USB 3.0
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)
Audio in/out	No	No	No
Maximum Internal Storage	2 HDDs connectable, up to 12 TB (HDDs sold separately)	4 HDDs connectable, up to 24 TB (HDDs sold separately)	4 HDDs connectable, up to 24 TB (HDDs sold separately)
SSD for OS	Yes (64 GB)	Yes (64 GB)	Yes (64 GB)
Network Interface	2 x 10M/100M/1000M self-adaptive Ethernet interfaces	2 x 10M/100M/1000M self-adaptive Ethernet interfaces	2 x 10M/100M/1000M self-adaptive Ethernet interfaces
Max Incoming Bandwidth (Mbps)	128 Mbps	128 Mbps	128 Mbps
Maximum Outgoing Bandwidth (Mbps)	64 Mbps	64 Mbps	64 Mbps
Ratings	---	---	---
Rack Units	1	2	2
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
Power Consumption	≤30 W without HDD (No POE interface in use)	≤30 W without HDD (No POE interface in use)	≤30 W without HDD

HIKCENTRAL

Software only

Model		
Form Factor	1U Rackmont server	Software Only, to be loaded on dedicated instance of Microsoft windows, as per Hikvision spec*
Function	Management Server for NVRs and CVRs	Management Server Software package for NVRs and CVRs
Maximum IP cameras or NVRs or DVRs or Blazer Express Connections	1024	1024
Maximum number of channels	3000	3000
Maximum number of alarm input or output	3000	3000
Maximum number of areas	3000	3000
Maximum number of roles	64	64
Maximum number of users	No software restriction	No software restriction
Maximum number of E-map	1024	1024
Maximum number of Central Video Recorder	32	32
Maximum number of Streaming Server connections	No software restriction	No software restriction
Maximum web client or control client connection concurrently	100	100
Maximum mobile client connection concurrently	100	100

*HikCentral software only. Monitor not included.

Professional Solutions

Value IP Solutions

For those applications where performance is important and budgets are limited, Hikvision offers its Value Plus and Value Series products. Utilizing some of the Smart Pro features, these products afford more flexibility with reduced feature sets. The latest technology has been implemented in this range including UHD cameras and NVRs, H.265+ compression, EXIR 2.0 infrared and a wide range of high resolution image sensors for varied applications and budgets.

01

100%
ORIGINAL DATA

30%
H.265+ COMPRESSED DATA

02

8 MP
5 MP
4 MP
3 MP
2 MP
1.3 MP

8 MP H.265+ Bullet Camera
DS-2CD2T85FWD-I5

This 4K camera includes the latest H.265+ compression reducing bitrate and bandwidth by up to 70 percent.It includes EXIR 2.0 with a range of 165 feet (50 m).

Plug and Play NVR
DS-7732NI-I4/16P

With up to a 32 channel input and 16 built-in PoE ports, this NVR easily installs and automatically adds connected IP cameras on start-up. Using H.265+ compression and up to 24 TB of HDD space, storage space is never an issue.

2 MP DarkFighter Mini PTZ
DS-2DE4A204IW-DE

This powerful new day/night PTZ brings DarkFighter technology to the Value Series PTZ lineup. Delivering 0.002 color low light images and featuring a 4x lens, the camera is perfect for buildings and facility entrances/exits. The IP66 rating and RCM-DE4A recessed ceiling mount (purchased separately) provides a discreet, environmentally protected installation in outdoor soffits.
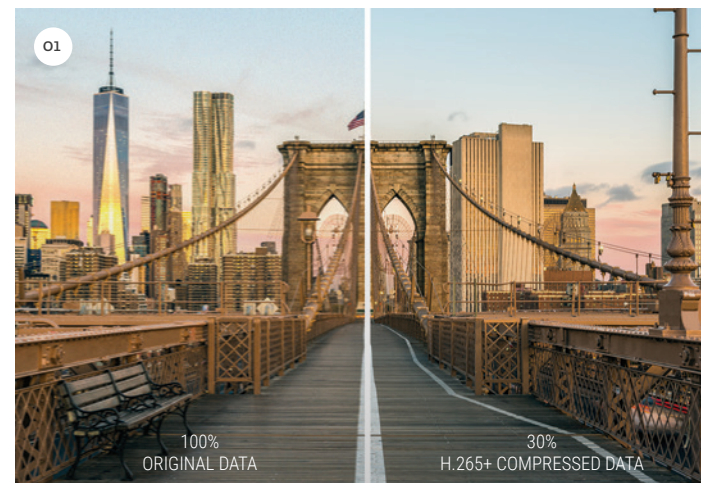
01. **H.265+ COMPRESSION**
Value Plus cameras feature Hikvision's latest compression technology H.265+. This advanced compression captures surveillance video using a decreased bitrate, reducing bandwidth requirements and storage costs. Hikvision's H.265+ is a truly optimized encoding technology based on the standard H.265/HEVC compression, extending the limits of ultra-HD video surveillance applications.

02. **RESOLUTION**
A wide range of image sensors from 1.3 MP to 2 MP, 3 MP, 4 MP, 5 MP and 8 MP resolution models are available so you can choose the best option for each camera position in your project.

Value Plus Solutions

O3

IMAGE FROM CONVENTIONAL
CAMERA WITH IR LED

IMAGE FROM HIKVISION
EXIR 2.0 CAMERA

O4

120 dB WDR

IP67 PROTECTION

SMART ANALYTICS

DS-2CD2742FWD-IZS
PAGE 31

O5

DS-7616NI-I2/16P
PAGE 42

· H.265+ COMPRESSION
· UP TO 12 MP RESOLUTION
· UP TO 24 TB MEMORY
· 4K OUTPUT

O7

H.265+ CAMERAS
PAGES 33-36

O6

O3. EXIR 2.0 TECHNOLOGY

New to the Value Plus range is the improved IR technology EXIR 2.0 which uses the latest manufacturing components and techniques to improve low light performance, efficiency and life-time of the IR device. EXIR 2.0 capability allows better visibility at night.

O4. HIGH PERFORMANCE

High performance camera features include 120 dB WDR, IP67 and IK10 protection, Smart Analytics including: Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection and Face detection.

O5. PLUG-AND-PLAY

Our popular Plug and Play NVRs provide easy installation and operation. These Value NVRs manage bandwidth and storage with the H.265+ compression technology. High-performance NVRs also support recording of up to 12 MP camera resolution, Ultra High Definition (UHD) output up to 4K and up to 24 TB of storage capacity.

O6. KITS

Hikvision introduces its first series of complete recorder and camera kits for single-site applications. The kits contain a recorder and multiple cameras in a single box, suitable for DIY applications such as a residence or a small business. The IP kits will include 4 and 8 channel recorders along with 4 and 6 cameras, respectively.
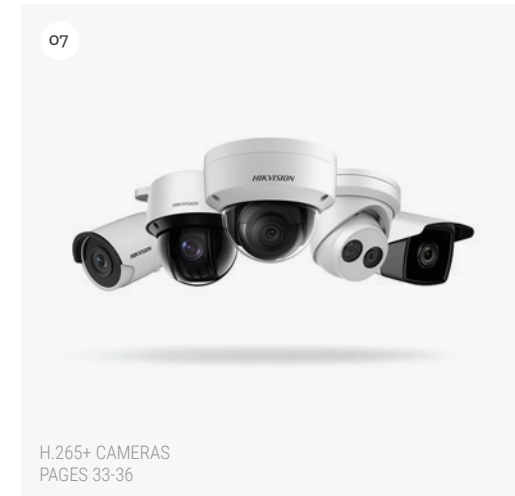
O7. OPTIONS + FEATURES

Value series cameras include important options and features like DarkFighter, EXIR, Pinhole, Fisheye, WDR, extended zoom lens ranges, and high performing PTZs.

Value Plus Solutions

NETWORK CAMERAS - VALUE PLUS SERIES

	OUTDOOR DOME		OUTDOOR COMPACT DOME			OUTDOOR DOME			
Model	DS-2CD2122FWD-IS*	DS-2CD2142FWD-IS*	DS-2CD2152F-IS	DS-2CD2522FWD-IS*	DS-2CD2542FWD-IS*	DS-2CD2552F-IS	DS-2CD2722FWD-IZS*	DS-2CD2742FWD-IZS*	DS-2CD2752F-IZS
	*Black model available DS-2CD2122FWD-ISB — 2 MP	*Black model available DS-2CD2142FWD-ISB — 4 MP	5 MP	*Black model available DS-2CD2522FWD-ISB — 2 MP	*Black model available DS-2CD2542FWD-ISB — 4 MP	5 MP	*Black model available DS-2CD2722FWD-IZSB — 2 MP	*Black model available DS-2CD2742FWD-IZSB — 4 MP	5 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens/ Horizontal Angle of View	Fixed, 4mm @ ƒ/2.0 (2.8 mm, 6 mm option)/ 102° (2.8 mm) 85° (4 mm), 52° (6 mm)	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)/ 106° (2.8 mm), 83° (4 mm), 56° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)/ 89° (4 mm), 54.7° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)/ 102° (2.8 mm), 85° (4 mm), 52° (6 mm)	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)/ 106° (2.8 mm), 83° (4 mm), 56° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)/ 89° (4 mm), 54.7° (6 mm)	2.8 to 12 mm @ ƒ/1.4, motorized/ 106° to 35°	2.8 to 12 mm @ ƒ/1.4, motorized/ 112° to 33.8°	2.8 to 12 mm @ ƒ/1.4, motorized/ 91° to 28°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	-30° to 30°/ 0° to 75°/0° to 360°	-30° to 30°/ 0° to 75°/0° to 360°	-30° to 30°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital
IR Range Max. (meters)	30	30	30	10	10	10	30	30	30
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520	2560x1920
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560×1920, 30 @ 2048x1536, 1920×1080, 1280×720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560×1920, 30 @ 2048x1536, 1920×1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560x1920 30@ 2048x1536, 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	Mic: Built in OUT: 1 line	Mic: Built in OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]
Ratings	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-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.)	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5.5 W	12V DC, PoE (802.3af), 5.5 W	12V DC, PoE (802.3af), 5.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Motion Detection, Line Crossing Detection, Intrusion Detection
[3]**H.265+ Smart Suite:** Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Face detection

|	OUTDOOR TURRET			OUTDOOR BULLET						
Model	DS-2CD2322WD-I	DS-2CD2342WD-I	DS-2CD2352-I	DS-2CD2022WD-I	DS-2CD2042WD-I	DS-2CD2T22WD-I5	DS-2CD2T42WD-I5	DS-2CD2T52-I5	DS-2CD2622FWD-IZS	DS-2CD2642FWD-IZS
	EXIR / 2 MP	EXIR / 4 MP	EXIR / 5 MP	2 MP	4 MP	EXIR / 2 MP	EXIR / 4 MP	EXIR / 5 MP	2 MP	4 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR
Lens/ Horizontal Angle of View	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)/ 109° (2.8 mm), 90° (4 mm), 54° (6 mm)	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)/ 106° (2.8 mm), 83° (4 mm), 56° (6 mm)	Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option)/ 112° (2.8 mm), 89° (4 mm), 54.7° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)/ 85° (4 mm), 52° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)/ 82° (4 mm), 55° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (6mm option)/ 90° (4 mm), 54° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (6mm option)/ 83° (4 mm), 56° (6 mm)	Fixed, 4 mm @ ƒ/1.4 (6mm option)/ 89° (4 mm), 54.7° (6 mm)	2.8 to 12 mm @ ƒ/1.4, motorized/ 106° to 35°	2.8 to 12 mm @ ƒ/1.4, motorized/ 112° to 33.8°
Pan/Tilt/Rotation	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 355°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	30	30	30	30	30	50	50	50	30	30
Video Compression	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520	1920x1080	2688x1520	2560x1920	1920x1080	2688x1520
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560×1920, 30 @ 2048x1536, 1920x1080, 1280×720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	20 @ 2560×1920, 30 @ 2048x1536, 1920x1080, 1280×720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Audio Input/Output	---	---	---	---	---	---	---	---	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	---	---	---	---	---	1/1	1/1
Local Storage	---	---	---	---	---	---	---	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[4]	Basic Smart Suite[2]	Basic Smart Suite[4]	Basic Smart Suite[4]
Ratings	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed3	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP66, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-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.)	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 5.5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 7.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Motion Detection, Line Crossing Detection, Intrusion Detection
[3]**H.265+ Smart Suite:** Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Face detection

Value Plus Solutions

H.265+ NETWORK CAMERAS - VALUE PLUS SERIES

	OUTDOOR MINI BULLET				OUTDOOR DOME			
Model	DS-2CD2025FWD-I	DS-2CD2035FWD-I	DS-2CD2055FWD-I	DS-2CD2085FWD-I	DS-2CD2125FWD-I	DS-2CD2135FWD-I	DS-2CD2155FWD-I	DS-2CD2185FWD-I
	DarkFighter EXIR 2.0 — 2 MP	DarkFighter EXIR 2.0 — 3 MP	EXIR 2.0 — 5 MP	EXIR 2.0 — 8 MP	DarkFighter EXIR 2.0 — 2 MP	DarkFighter EXIR 2.0 — 3 MP	EXIR 2.0 — 5 MP	EXIR 2.0 — 8 MP
Image Sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS
Min. Illumination (lux)	Color: 0.008 lux @ f/1.6, AGC ON, 0 lux with IR	Color: 0.008 lux @ f/1.6, AGC ON, 0 lux with IR	Color: 0.027 lux @ f/2.0, AGC ON, 0 lux with IR	Color: 0.027 lux @ f/2.0, AGC ON, 0 lux with IR	Color: 0.008 lux @ f/1.6, AGC ON, 0 lux with IR	Color: 0.008 lux @ f/1.6, AGC ON, 0 lux with IR	Color: 0.027 lux @ f/2.0, AGC ON, 0 lux with IR	Color: 0.027 lux @ f/2.0, AGC ON, 0 lux with IR
Lens/ Horizontal Angle of View	Fixed, 2.8 mm @ f/1.6 (4 mm, 6 mm, 8 mm option)/ 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm)	Fixed, 2.8 mm @ f/1.6 (4 mm, 6 mm, 8 mm option)/ 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm)	Fixed, 2.8 mm@ f/2.0 (4 mm, 6 mm, 8 mm option)/ 81° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm)	Fixed, 2.8 mm@ f/2.0 (4 mm, 6 mm, 8 mm option)/ 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm)	Fixed 2.8 mm @ f/1.6 (4 mm, 6 mm, 8 mm option)/ 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm)	Fixed 2.8 mm @ f/1.6 (4 mm, 6 mm, 8 mm option)/ 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm)	Fixed 2.8 mm @ f/2.0 (4 mm, 6 mm, 8 mm option)/ 80° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm)	Fixed 2.8 mm @ f/2.0 (4 mm, 6 mm, 8 mm option)/ 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm)
Pan/Tilt/Rotation	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°	0° to 360° / 0° to 90° / 0° to 360°	0° to 355° / 0° to 75° / 0° to 355°	0° to 355° / 0° to 75° / 0° to 355°	0° to 355° / 0° to 75° / 0° to 355°	0° to 355° / 0° to 75° / 0° to 355°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	30	30	30	30	30	30	30	30
Video Compression	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG
Maximum Image Resolution (pixels)	1920x1080	2048 × 1536	2560 × 1920	3840 × 2160	1920x1080	2048 × 1536	2560 × 1920	3840 × 2160
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x720	20 @ 2560x1920 30 @ 2560x1440, 2048x1536, 1920x1080, 1280x720	20 @ 3840x2160 30 @ 2560x1920, 2560x1440, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x720	20 @ 2560x1920 30 @ 2560x1440, 2048x1536, 1920x1080, 1280x720	20 @ 3840x2160 30 @ 2560x1920, 2560x1440, 1920x1080, 1280x720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Audio Input/Output	---	---	---	---	---	---	---	---
Alarm Input/Output	---	---	---	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Smart Features	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]
Ratings	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 6.5 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 9 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Motion Detection, Line Crossing Detection, Intrusion Detection
[3]**H.265+ Smart Suite:** Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Face detection

Value Plus Solutions

OUTDOOR DOME | **OUTDOOR TURRET**

Model	DS-2CD2725FWD-IZS	DS-2CD2735FWD-IZS	DS-2CD2755FWD-IZS	DS-2CD2785FWD-IZS	DS-2CD2325FWD-I	DS-2CD2335FWD-I	DS-2CD2355FWD-I	DS-2CD2385FWD-I
	NEW DarkFighter EXIR 2.0 — 2 MP	*NEW* DarkFighter EXIR 2.0 — 3 MP	*NEW* EXIR 2.0 — 5 MP	*NEW* EXIR 2.0 — 8 MP	DarkFighter EXIR 2.0 — 2 MP	DarkFighter EXIR 2.0 — 3 MP	EXIR 2.0 — 5 MP	EXIR 2.0 — 8 MP
Image Sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.5" Progressive
Min. Illumination (lux)	Color: 0.0068 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.0089 Lux @ ƒ/1.6, AGC ON, 0 Lux with IR	Color: 0.014 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.014 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.008 lux @ ƒ/1.6, AGC ON, 0 lux with IR	Color: 0.008 lux @ ƒ/1.6, AGC ON, 0 lux with IR	Color: 0.027 lux @ ƒ/2.0, AGC ON, 0 lux with IR	Color: 0.027 lux @ ƒ/2.0, AGC ON, 0 lux with IR
Lens/ Horizontal Angle of View	2.8 to 12 mm @ ƒ/1.4, motorized/ 105° to 35°	2.8 to 12 mm @ ƒ/1.6, motorized/ 97° to 33°	2.8 to 12 mm @ ƒ/1.4, motorized/ 88° to 29°	2.8 to 12 mm @ ƒ/1.4, motorized/ 115° to 35°	Fixed 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option)/ 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm)	Fixed 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option)/ 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm)	Fixed 2.8 mm @ ƒ/2.0 (4 mm, 6 mm, 8 mm option)/ 80° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm)	Fixed 2.8 mm @ ƒ/2.0 (4 mm, 6 mm, 8 mm option)/ 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm)
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 360° / 0° to 75° / 0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	30	30	30	30	30	30	30	30
Video Compression	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG
Maximum Image Resolution (pixels)	1920 × 1080	2048 × 1536	2944 × 1656	3840 × 2160	1920x1080	2048 × 1536	2560 × 1920	3840 × 2160
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280×720	30 @ 2048x1536, 1920x1080, 1280x720	20 @ 2944x1656, 30 @ 2560x1440, 1920x1080, 1280x720	20 @ 3840x2160, 30 @ 2944x1656, 2560x1440, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x720	20 @ 2560x1920 30 @ 2560x1440, 2048x1536, 1920x1080, 1280x720	20 @ 3840x2160 30 @ 2560x1920, 2560x1440, 1920x1080, 1280x720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	---	---	---	---
Alarm Input/Output	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.
Smart Features	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]
Ratings	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° 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.)	12V DC, PoE (802.3af), 11 W	12V DC, PoE (802.3af), 9.5 W	12V DC, PoE (802.3af), 10 W	12V DC, PoE (802.3af), 12.9W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 8.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Motion Detection, Line Crossing Detection, Intrusion Detection
[3]**H.265+ Smart Suite:** Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Face detection

H.265+

	OUTDOOR TURRET				OUTDOOR BULLET			
Model	DS-2CD2H25FWD-IZS	DS-2CD2H35FWD-IZS	DS-2CD2H55FWD-IZS	DS-2CD2H85FWD-IZS	DS-2CD2T25FWD-I5	DS-2CD2T35FWD-I5	DS-2CD2T55FWD-I5	DS-2CD2T85FWD-I5
	DarkFighter EXIR 2.0 — 2 MP	DarkFighter EXIR 2.0 — 3 MP	EXIR 2.0 — 5 MP	EXIR 2.0 — 8 MP	DarkFighter EXIR 2.0 — 2 MP	DarkFighter EXIR 2.0 — 3 MP	EXIR 2.0 — 5 MP	EXIR 2.0 — 8 MP
Image Sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.8" Progressive	1/2.8" Progressive	1/2.9" Progressive	1/2.5" Progressive
Min. Illumination (lux)	Color: 0.0068 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.0089 Lux @ ƒ/1.6, AGC ON, 0 Lux with IR	Color: 0.014 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.014 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.008 lux @ ƒ/1.6, AGC ON, 0 lux with IR	Color: 0.008 lux @ ƒ/1.6, AGC ON, 0 lux with IR	Color: 0.01 lux @ ƒ/1.2	Color: 0.027 lux @ ƒ/2.0, AGC ON, 0 lux with IR
Lens/ Horizontal Angle of View	2.8 to 12 mm @ ƒ/1.4, motorized/ 105° to 35°	2.8 to 12 mm @ ƒ/1.6, motorized/ 97° to 33°	2.8 to 12 mm @ ƒ/1.4, motorized/ 88° to 29°	2.8 to 12 mm @ ƒ/1.4, motorized/ 115° to 35°	Fixed 4 mm @ ƒ/1.6 (2.8 mm, 6 mm,8 mm option)/ 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm)	Fixed 4 mm @ ƒ/1.6 (2.8 mm, 6 mm, 8 mm option)/ 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm)	Fixed 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm option)/ 81° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm)	Fixed 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm option)/ 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm)
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 360°	0° to 355°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 100°/ 0° to 360°	0° to 360°/ 0° to 100°/ 0° to 360°	0° to 360°/ 0° to 100°/ 0° to 360°	0° to 360°/ 0° to 100°/ 0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	30	30	30	30	50	50	50	50
Video Compression	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG	H.265+/H.265/H.264+/H.264/ MJPEG
Maximum Image Resolution (pixels)	1920 × 1080	2048 × 1536	2944 × 1656	3840 × 2160	1920 × 1080	2048 × 1536	2560 × 1920	3840 × 2160
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280×720	30 @ 2048 × 1536, 1920x1080, 1280x720	20 @ 2944x1656, 30 @ 2560x1440, 1920x1080, 1280x720	20 @ 3840x2160, 30 @ 2944x1656, 2560x1440, 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x720	20 @ 2560x1920 30 @ 2560x1440, 2048x1536, 1920x1080, 1280x720	20 @ 3840x2160 30 @ 2560x1920, 2560x1440, 1920x1080, 1280x720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	---	---	---	---
Alarm Input/Output	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.
Smart Features	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]
Ratings	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° 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.)	12V DC, PoE (802.3af), 11.5 W	12V DC, PoE (802.3af), 12.5 W	12V DC, PoE (802.3af), 12.5 W	12V DC, PoE (802.3af), 12.5 W	12V DC, PoE (802.3af), 9 W	12V DC, PoE (802.3af), 9 W	12V DC, PoE (802.3af), 9 W	12V DC, PoE (802.3af), 9.5 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Motion Detection, Line Crossing Detection, Intrusion Detection
[3]**H.265+ Smart Suite:** Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Face detection

Value Plus Solutions

OUTDOOR BULLET **OUTDOOR FISHEYE**

Model	DS-2CD2625FWD-IZS	DS-2CD2635FWD-IZS	DS-2CD2655FWD-IZS	DS-2CD2685FWD-IZS	DS-2CD2935FWD-IS	DS-2CD2955FWD-IS
	DarkFighter EXIR 2.0 NEW 2 MP	DarkFighter EXIR 2.0 NEW 3 MP	EXIR 2.0 NEW 5 MP	EXIR 2.0 NEW 8 MP	EXIR 2.0 3 MP	EXIR 2.0 5 MP
Image Sensor	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.9" Progressive Scan CMOS	1/2.5" Progressive Scan CMOS	1/2.8" Progressive	1/2.5" Progressive
Min. Illumination (lux)	Color: 0.0068 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.0089 Lux @ ƒ/1.6, AGC ON, 0 Lux with IR	Color: 0.014 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.014 Lux @ ƒ/1.4, AGC ON, 0 Lux with IR	Color: 0.016 lux @ ƒ/2.2, AGC ON	Color: 0.033 lux @ ƒ/2.2, AGC ON, 0 lux with IR
Lens/ Horizontal Angle of View	2.8 to 12 mm @ ƒ/1.4, motorized/ 105° to 35°	2.8 to 12 mm @ ƒ/1.6, motorized/ 97° to 33°	2.8 to 12 mm @ ƒ/1.4, motorized/ 88° to 29°	2.8 to 12 mm @ ƒ/1.4, motorized/ 115° to 35°	1.16 mm @ ƒ/2.2 / 180° horizontal 180° vertical	1.05 mm @ ƒ/2.2 / 180° horizontal 180° vertical
Pan/Tilt/Rotation	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°	0° to 360°/ 0° to 90°/0° to 360°	---	---
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	50	50	50	50	8	8
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1920 × 1080	2048 × 1536	2944 × 1656	3840 × 2160	2048 × 1536	2560 × 1920
Frame Rate (fps)	30 @ 1920×1080, 1280×960, 1280×720	30 @ 2048×1536, 1920×1080, 1280x720	20 @ 2944x1656, 30 @ 2560x1440, 1920x1080, 1280x720	20 @ 3840x2160, 30 @ 2944x1656, 2560x1440, 1920x1080, 1280x720	30 @ 2048x1536, 1600x1200, 1280x960	30 @ 2560x1920, 2048x1536, 1280x960
Multi-Streaming	Triple	Triple	Triple	Triple	Dual	Dual
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
Alarm Input/Output	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	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]	H.265+ Smart Suite[3]
Ratings	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	IP67, IK11, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-30° C to 60° C (-22° F to 141° F)	-10 °C to +50 °C (-14 °F to +122 °F)	-10 °C to +50 °C (-14 °F to +122 °F)
Power Requirements (max.)	12V DC, PoE (802.3af), 16.5W	12V DC, PoE (802.3af), 17.5W	12V DC, PoE (802.3af), 17.5W	12V DC, PoE (802.3af), 19W	12V DC, PoE (802.3af), 6.7 W	12V DC, PoE (802.3af), 6.7 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Motion Detection, Line Crossing Detection, Intrusion Detection
[3]**H.265+ Smart Suite:** Motion Detection, Line crossing detection, Intrusion detection, Unattended baggage detection, Object removal detection, Face detection

Value Plus Solutions

	INDOOR RECESSED DOME		OUTDOOR DOME			OUTDOOR COMPACT DOME			
Model	DS-2CD2E10F (1.3 MP)	DS-2CD2E20F (2 MP)	DS-2CD2112F-I (1.3 MP)	DS-2CD2112FWD-I (NEW) (1.3 MP)	DS-2CD2132F-I (3 MP)	DS-2CD2510F (1.3 MP)	DS-2CD2512F-I (1.3 MP)	DS-2CD2520F (2 MP)	DS-2CD2532F-I (3 MP)
Image Sensor	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/3" progressive scan CMOS	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/2.8" 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: 0.19 @ 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/ Horizontal Angle of View	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm) , 46° (6 mm)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)/ 106° (2.8 mm), 85° (4 mm), 52° (6 mm)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm), 22° (12 mm)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 8 mm and 12 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm), 35.52° (8 mm), 22° (12 mm)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option) 86° (2.8 mm), 70° (4 mm), 43.3 (6 mm), 20.6° (12 mm)	Fixed, 2 mm @ f/2.0/ 115° (2 mm)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm)	Fixed, 2 mm @ f/2.0/ 126° (2 mm)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)/ 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°	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/BLC/WDR	Electronic/Yes/Digital	Electronic/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/Digital	Electronic/Yes/Digital	TRUE/Yes/Digital	Electronic/Yes/Digital	TRUE/Yes/Digital
IR Range Max. (meters)	---	---	30	30	30	---	10	---	10
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264+/H.264/MJPEG	H.264/ MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1280x960	1280x960	2048x1536	1280x960	1280x960	1920x1080	2048x1536
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1280x960, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536, 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720, 704x576	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]
Audio Input/Output	---	---	---	---	---	---	---	---	---
Alarm Input/Output	---	---	---	---	---	---	---	---	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed
Operating Temperature Range	-10° C to 40° C (14° F to 104° F)	-10° C to 40° C (14° F to 104° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 4.2 W	12V DC, PoE (802.3af), 4.7 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 4 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 4.1 W	12V DC, PoE (802.3af), 7 W

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

Value Solutions

	OUTDOOR DOME			OUTDOOR TURRET		OUTDOOR BULLET		
Model	DS-2CD2712F-I	DS-2CD2712FWD-I	DS-2CD2732F-I	DS-2CD2312WD-I	DS-2CD2332-I	DS-2CD2012FWD-I	DS-2CD2012-I	DS-2CD2032-I
	1.3 MP	1.3 MP	3 MP	EXIR 1.3 MP	EXIR 3 MP	1.3 MP	1.3 MP	3 MP
Image Sensor	1/3" Progressive Scan CMOS	1/3" progressive scan CMOS	1/3" Progressive Scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.01 @ ƒ/1.4 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR
Lens/ Horizontal Angle of View	2.8 to 12 mm @ ƒ/1.4, manual/ 80° to 28.7°	2.8 to 12 mm @ ƒ/1.4, manual/ 98.4° to 30.2°	2.8 to 12 mm @ ƒ/1.4, manual/ 91.2° to 28.3°	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm, 12 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm), 35.52° (8 mm), 22° (12 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option)/ 86° (2.8 mm), 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	Fixed 4 mm @ ƒ/2.0 (6 mm, 8 mm, 12 mm option)/ 73.1° (4 mm), 46° (6 mm), 35.52°(8 mm), 22° (12 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option)/ 73.1° (4 mm), 46° (6 mm), 22° (12 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option)/ 70° (4 mm), 43.3° (6 mm), 20.6° (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 355°/ 0° to 75°/0° to 355°	0° to 360°/ 0°to 75°/0° to 360°	0° to 360°/ 0°to 75°/0° to 360°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night/BLC/WDR	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital
IR Range Max. (meters)	30	30	30	30	30	30	30	30
Video Compression	H.264/MJPEG	H.264+/H.264/ MJPEG	H.264/MJPEG	H.264+/H.264/ MJPEG	H.264/MJPEG	H.264+/H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	1280x960	2048x1536	1280x960	2048x1536	1280x960	1280x960	2048x1536
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]
Audio Input/Output	---	---	---	---	---	---	---	---
Alarm Input/Output	---		---	---	---	---	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---	---	---
Ratings	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, UL/cUL Listed	IP66, UL/cUL Listed	IP67, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 5.5 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7.5 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 5 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 7 W

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

Value Solutions

	OUTDOOR BULLET				INDOOR PINHOLE	COVERT	INDOOR FISHEYE
Model	DS-2CD2212-I5	DS-2CD2232-I5	DS-2CD2612F-I	DS-2CD2632F-I	DS-2CD2D14WD	DS-2CD2D14WD/M	DS-2CD2942F-IS
	EXIR — 1.3 MP	EXIR — 3 MP	1.3 MP	3 MP	1 MP	1 MP	4 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.1 @ ƒ/1.4 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0	Color: 0.028 @ ƒ/2.0	Color: 0.018 @ ƒ/1.6 B/W: 0.0018 @ ƒ/1.6 0 with IR
Lens/ Horizontal Angle of View	Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option)/ 73.1° (4 mm), 46° (6 mm), 22° (12 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option)/ 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	2.8 to 12 mm @ ƒ/1.4, manual/ 80° to 28.7°	2.8 to 12 mm @ ƒ/1.4, manual/ 91.2° to 28.3°	Pinhole, 3.2 mm @ ƒ/2.5/ 65° (3.2 mm)	2.8 mm @ ƒ/2.0 or 4.0 mm @ ƒ/2.0/ 67.3° (2.8 mm), 53° (4.0 mm)	Fisheye, 1.6 mm, ƒ/1.6/ 186° (horizontal), 106° (vertical)
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 360°/0° to 90°/na	0° to 360°/0° to 90°/na	---
Day/Night/BLC/WDR	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	Electronic/No/100 dB	Electronic/No/100 dB	TRUE/Yes/Digital
IR Range Max. (meters)	50	50	30	30	---	---	8
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	2048x1536	1280x960	2048x1536	1280x720	1280x720	2560x1440
Frame Rate (fps)	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x720, 704x576, 640x480	30 @ 1280x720, 704x576, 640x480	15 @ 2560x1440 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2] + tampering alarm, dynamic analysis, motion detection	Basic Smart Suite[2] + tampering alarm, dynamic analysis, motion detection	---
Audio Input/Output	---	---	---	---	---	---	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	---	---	---	1/1
Local Storage	---	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---	MicroSD, 128 GB max.
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	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)	-10° C to 40° C (14° F to 104° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 9 W	12V DC, PoE (802.3af), 9 W	12V DC, PoE (802.3af), 7 W	12V DC, PoE (802.3af), 8 W	12V DC, 3 W	12V DC, 3 W	12V DC, PoE (802.3af), 6 W

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

Value Solutions

NETWORK PTZ CAMERAS - VALUE SERIES

	WI-FI INDOOR PTZ	INDOOR PTZ		INDOOR/OUTDOOR PTZ			OUTDOOR PTZ	OUTDOOR UPRIGHT PTZ	
Model	DS-2DE2204IW-DE3/W NEW 2 MP	DS-2DE4220W-AE3 2 MP	DS-2DE5230W-AE3 2 MP	DS-2DE4A204IW-DE DarkFighter 2 MP	DS-2DE4A220IW-DE 2 MP	DS-2DE4A320IW-DE 3 MP	DS-2DE3304W-DE 3 MP	DS-2DY3220IW-DE 2 MP	DS-2DY3220IW-DE4 2 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/2.0, AGC On B/W: 0.005 @ f/2.0, AGC On	Color: 0.05 @ f/1.6, AGC On B/W: 0.01 @ f/1.6, AGC On, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.002 @ f/1.6, AGC On B/W: 0.0002 @ f/1.6, AGC On, 0 with IR	Color: 0.05 @ f/1.6, AGC On B/W: 0.01 @ f/1.6, AGC On, 0 with IR	Color: 0.05 @ f/1.6, AGC On B/W: 0.01 @ f/1.6, AGC On, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6, AGC On B/W: 0.005 @ f/1.6, AGC On, 0 with IR	Color: 0.05 @ f/1.6, AGC On B/W: 0.005 @ f/1.6, AGC On, 0 with IR
Lens/ Horizontal Angle of View	2.8 mm to 12 mm, motorized zoom, autofocus/ 100° to 25°	4.7 to 94 mm, motorized zoom, autofocus/ 61.4° to 2.9°	4.3 to 129 mm, motorized zoom, autofocus/ 65.5° to 2.1°	2.8 to 12 mm, motorized zoom, autofocus/ 90.1° to 31°	4.7 to 94 mm, motorized zoom, autofocus/ 61.4° to 2.9°	4.7 to 94 mm, motorized zoom, autofocus/ 58.3° to 3.2°	2.8 to 12 mm, motorized zoom, autofocus/ 105° to 33.5°	4.7 to 94 mm, motorized zoom, autofocus/ 58.3° to 3.2°	4.7 to 94 mm, motorized zoom, autofocus/ 58.3° to 3.2°
Optical Zoom (Digital Zoom)	4x (16x)	20x (16x)	30x (16x)	4x (16x)	20x (16x)	20x (16x)	4x (16x)	20x (16x)	20x (16x)
Pan Range	0° to 350°	360° endless	360° endless	360° endless	360° endless	360° endless	0° to 350°	360° endless	360° endless
Tilt Range	0° to 90°	5° to 90°	-5° to 90° (auto flip)	5° to 90°	-5° to 90°	-5° to 90°	0° to 50°	-40° to 30°	-40° to 30°
Pan & Tilt Speed (Manual)	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 160°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 160°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 160°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 30°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 30°/sec.
Pan & Tilt Speed (Preset)	Pan: 60°/sec. Tilt: 50°/sec.	Pan: 160°/sec. Tilt: 120°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 350°/sec. Tilt: 200°/sec.	Pan: 350°/sec. Tilt: 200°/sec.	Pan: 350°/sec. Tilt: 200°/sec.	Pan: 50°/sec. Tilt: 50°/sec.	Pan: 100°/sec. Tilt: 60°/sec.	Pan: 100°/sec. Tilt: 60°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Image Enhancement	DWDR, AGC, AWB	DWDR, HLC, Defog, EIS	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	3D DNR, BLC, WDR, HLC	WDR, AGC, AWB, 3D DNR, HLC, BLC	WDR, AGC, AWB, 3D DNR, HLC, BLC	DWDR, AGC, AWB, 3D DNR, HLC, BLC	WDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	WDR, AGC, AWB, 3D DNR, HLC, BLC, Defog
IR Range Max. (meters)	20	---	---	50	50	50	---	100	100
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]
Presets/Tours/Patterns	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4
Wireless	Yes	---	---	---	---	---	---	---	---
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1920 × 1080	1920x1080	1920x1080	1920x1080	1920x1080	2048x1536	2048x1536	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1920×1080, 1280×960, 1280×720, 60 @ 1280×960, 1280×720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	60 @ 1920x1080, 1280x960, 1280x720	60 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
Local Storage	MicroSD, 256 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	IP66, UL/cUL Listed	UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP67, 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)	-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.)	12V DC, PoE (802.3af), 9 W	24 VAC, PoE (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	12V DC, PoE (802.3at), 18 W	12V DC, PoE (802.3at), 18 W	12V DC, PoE (802.3at), 18 W	12V DC, PoE (802.3af), 8 W	12V DC, PoE (802.3at), 19 W	12V DC, PoE (802.3at), 19 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.; Command Protocols: Hikvision and Pelco D/P
[2]**Basic Smart Suite:** Motion Detection, Line Crossing, Intrusion Detection
[5]PTeZ™ cameras have a sensor-based zoom

Value Solutions

	OUTDOOR PTZ			OUTDOOR IR PTZ				
Model	DS-2DE4220W-AE	DS-2DE5230W-AE	DS-2DE5330W-AE	DS-2DE5220IW-AE	DS-2DE7230IW-AE	DS-2DE7330IW-AE	DS-2DE7430IW-AE	DS-2DE7530IW-AE
	2 MP	2 MP	3 MP	2 MP	2 MP	3 MP	4 MP	5 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6, AGC On B/W: 0.01 @ ƒ/1.6, AGC On, 0 with IR	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.6, AGC On B/W: 0.01 @ ƒ/1.6, AGC On, 0 with IR	Color: 0.02 @ ƒ/1.5, AGC On B/W: 0.002 @ ƒ/1.5, AGC On, 0 with IR	Color: 0.05 @ ƒ/1.5, AGC On B/W: 0.01 @ ƒ/1.5, 0 with IR	Color: 0.05 @ ƒ/1.5, AGC On B/W: 0.01 @ ƒ/1.5, 0 with IR	Color: 0.005 @ ƒ/1.5, AGC On B/W: 0.002 @ ƒ/1.5, 0 with IR	Color: 0.005 @ ƒ/1.5, AGC On B/W: 0.002 @ ƒ/1.5, 0 with IR
Lens/ Horizontal Angle of View	4.7 to 94 mm, motorized zoom, autofocus/ 61.4° to 2.9°	4.3 to 129 mm, motorized zoom, autofocus/ 65.5° to 2.1°	4.3 to 129 mm, motorized zoom, autofocus/ 57.4° to 2.8°	4.7 to 94 mm, motorized zoom, autofocus/ 58.3° to 3.2°	4.3 to 129 mm, motorized zoom, autofocus/ 65.5° to 2.1°	4.3 to 129 mm, motorized zoom, autofocus/ 57.4° to 2.8°	5.9 to 177 mm, motorized zoom, autofocus/ 48.8° to 2.3°	5.9 to 177 mm, motorized zoom, autofocus/ 51.3° to 2.7°
Optical Zoom (Digital Zoom)	20x (16x)	30x (16x)	30x (16x)	20x (16x)	30x (16x)	30x (16x)	30x (16x)	30x (16x)
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	5° to 90°	-5° to 90° (auto flip)	-5° to 90°	-15° to 90°	-15° to 90° (auto flip)	-15° to 90°	-15° to 90°	-15° to 90°
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 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 400°/sec. Tilt: 0.1° to 200°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 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: 300°/sec. Tilt: 200°/sec.	Pan: 400°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Image Enhancement	DWDR, HLC, Defog, EIS	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog	DWDR, AGC, AWB, 3D DNR, HLC, BLC, Defog
IR Range Max. (meters)	---	---	---	150	150	150	150	150
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]	Basic Smart Suite[2]
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.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Image Resolution (pixels)	1920x1080	1920x1080	2048x1536	1920x1080	1920x1080	2048x1536	2560x1536	2592x1944
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 2560x1536, 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 2592x1944, 2560x1536, 2048x1536, 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	IP66, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature range	-30°C to 65°C (-22°F to 149°F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)
Power Requirements (max.)	24 VAC, PoE (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE (802.3at), 18 W	24 VAC, Hi-PoE (802.3at), 32 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W

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

Value Solutions

PLUG-AND-PLAY

Model	DS-7604NI-E1/4P	DS-7608NI-E2/8P	DS-7608NI-I2/8P	DS-7616NI-E2/16P	DS-7616NI-I2/16P	DS-7716NI-I4/16P	DS-7732NI-I4	DS-7732NI-I4/16P
Max. Recording Resolution	6 MP	6 MP	12 MP	6 MP	12 MP	12 MP	12 MP	12 MP
Video Compression	H.264, H.264+	H.264, H.264+	H.264, H264+, H.265, H.265+, MPEG4	H.264, H.264+	H.264, H264+, H.265, H.265+, MPEG4	H.264, H264+, H.265, H.265+, MPEG4	H.264, H264+, H.265, H.265+, MPEG4	H.264, H264+, H.265, H.265+, MPEG4
HDMI/VGA Output	1920x1080/1920x1080, synchronized output	1920x1080/1920x1080, synchronized output	3840x2160/1920x1080, independent output	1920x1080/1920x1080, synchronized output	3840x2160/1920x1080, independent output	3840x2160/1920x1080, independent output	3840x2160/1920x1080, independent output	3840x2160/1920x1080, independent output
IP Video Input	4-ch IPC with integrated 4-port 802.3af/at PoE switch	8-ch IPC with integrated 8-port 802.3af/at PoE switch	8-ch IPC with integrated 8-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	32-ch	32-ch IPC with integrated 16-port 802.3af/at PoE switch
Audio Input/Output	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out
Alarm Input/Output	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	16 ch/4 ch	16 ch/4 ch	16 ch/4 ch
USB	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	2 USB 2.0; 1 USB 3.0	2 USB 2.0, 1 USB 3.0	2 USB 2.0, 1 USB 3.0
Internal SATA	1 SATA interface (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)
eSATA Interface	---	---	---	---	---	Yes	Yes	Yes
Max. Internal Storage	6 TB	12 TB	12 TB	12 TB	12 TB	24 TB	24 TB	24 TB
Support DVD-RW	---	---	---	---	---	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA
Max. Incoming Bandwidth (Mbps)	40	80	80	160	160	160	256	256
Maximum Outgoing Bandwidth (Mbps)	80	80	256	80	256	256	256	256
Max. Remote Connections	32	32	128	32	32	128	128	128
Rack Units	1	1	1	1	1	1.5	1.5	1.5
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
PoE Budget	50 W	120 W	120 W	200 W	200 W	200 W	---	200 W
Power Requirements	48V DC, ≤10 W without HDD and PoE	100 to 240 VAC, ≤10 W without HDD and PoE	100 to 240 VAC, ≤15 W without HDD and PoE	100 to 240 VAC, ≤15 W without HDD and PoE	100 to 240 VAC, ≤15 W without HDD and PoE	100 to 240 VAC, ≤20 W without HDD and PoE	100 to 240 VAC, ≤20 W without HDD	100 to 240 VAC, ≤20 W without HDD and PoE

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

Value Solutions

	OUTDOOR WI-FI DOME		WI-FI COMPACT DOME		WI-FI CUBE			WI-FI MINI BULLET	WI-FI DOME
Model	DS-2CD2112F-IWS 1.3 MP	DS-2CD2132F-IWS 3 MP	DS-2CD2522FWD-IWS 2 MP	DS-2CD2542FWD-IWS 4 MP	DS-2CD2412F-IW 1.3 MP	DS-2CD2422FWD-IW NEW 2 MP	DS-2CD2432F-IW 3 MP	DS-2CD2023G0D-IW2 NEW 2 MP	DS-2CD2123G0D-IW2 NEW 2 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	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.19 @ ƒ/2.0 B/W: 0 with IR	Color: 0.07 Lux @ ƒ/2.0, AGC ON B/W: 0 with IR	Color: 0.07 Lux @ ƒ/2.0, AGC ON B/W: 0 with IR
Lens/ Horizontal Angle of View	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)/ 98.5° (2.8 mm), 79° (4 mm), 49° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (6 mm option)/ 85° (4 mm), 52° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option)/ 106° (2.8 mm), 83° (4 mm), 56° (6 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm option)/ 92.5° (2.8 mm), 73.1° (4 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm option)/ 86° (2.8 mm), 79° (4 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm option)/ 114° (2.8 mm), 90° (4 mm), 54° (6 mm), 43° (8 mm)	Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm option)/ 114° (2.8 mm), 90° (4 mm), 54° (6 mm), 43° (8 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	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 360°/ 0° to 90°/0° to 360	0° to 355°/ 0° to 75°/0° to 355
Day/Night/BLC/WDR	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital
IR Range Max. (meters)	30	30	10	10	10	10	10	10 to 30	10 to 30
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.265+/H.265/ H.264+/H.264/MJPEG	H.265+/H.265/ H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	2048x1536	1920x1080	2688x1520	1280x960	1280x960	2048x1536	1920×1080	1920×1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	20 @ 2048x1536, 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080	30 @ 1920×1080, 1280×960, 1280×720	30 @ 1920×1080, 1280×960, 1280×720
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	Built-in mic and speaker	Built-in mic	Built-in mic
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	---	---
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK8, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	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)	10° C to 40° C (14° F to 104° F)	-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)
Power Requirements (max.)	12V DC, PoE (802.3af), 5 W, PSU included	12V DC, PoE (802.3af), 5 W, PSU included	12V DC, PoE (802.3af), 5 W, PSU included	12V DC, PoE (802.3af), 5 W, PSU included	12V DC, PoE (802.3af), 5 W, PSU included	12V DC, PoE (802.3af), 5 W, PSU included	12V DC, PoE (802.3af), 6.4 W, PSU included	12V DC ± 25%, 5W	12V DC ± 25%, 5W

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

	WI-FI NVR			
Model	**DS-7104NI-SL/W**	**DS-7108NI-E1/V/W/1T***	**DS-7604NI-K1/W/1T***	**DS-7608NI-K1/W/2T***
		*with 1 TB HDD	*with 1 TB HDD	*with 2 TB HDD
Video Compression	H.264	H.264	H.264/H.264+/H.265/H.265+	H.264/H.264+/H.265/H.265+
HDMI/VGA Output	1920x1080/1920x1080	1920x1080 /-	1920x1080/1920x1080	1920x1080/1920x1080
IP Video Input	4-ch	8-ch	4-ch	8-ch
Network Interface	1 LAN	1 WAN, 3 LAN	1 LAN	1 LAN
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Audio Input/Output	1 / 1	-/ 1 (HDMI)	-/1 (RCA)	-/1 (RCA)
USB	2 USB 2.0	1 USB 3.0	2 USB 2.0	2 USB 2.0
Internal SATA	1 (up to 4 TB)	1 (1 TB HDD included)	1 (up to 6 TB)	1 (up to 6 TB)
Max. Incoming Bandwidth (Mbps)	25 Mbps	50 Mbps	50 Mbps	50 Mbps
Maximum Outgoing Bandwidth (Mbps)	40 Mbps	80 Mbps	40 Mbps	40 Mbps
Max. Remote Connections	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Power Requirements	12V DC, PSU included	12V DC, PSU included	12V DC, PSU included	12V DC, PSU included
Max. Total Power	15 W (without HDDs)	12 W with 1 TB HDD	18 W with 1 TB HDD	18 W with 2 TB HDD

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

Wi-Fi Kits

AVAILABLE SOON

Hikvision is introducing new Wi-Fi Kits complete with recorder and cameras for single-site applications. The kits contain a recorder and multiple cameras in a single box, suitable for DIY applications, like a residence or a small business. The Wi-Fi Kits will include 4 and 8 channel recorders along with 4 and 6 cameras respectively. Contact your factory representative for more information.

Wi-Fi Solutions

IP
Kits

Hikvision introduces its first series of complete recorder and camera kits for single-site applications. The Kits contain a recorder and multiple cameras in a single box, suitable for DIY applications like a residence or a small business. The IP Kits will include 4 and 8 channel recorders along with 4 and 6 cameras respectively.

Super Value Kits

I7604N1TA

Includes Four 1080P Outdoor IR Domes, DS-2CD2120F-I (KIT), and one 4-channel NVR, DS-7604NI-EV1/4P (KIT)

I7608N2TA

Includes Six 1080P Outdoor IR Domes, DS-2CD2120F-I (KIT), and one 8-channel NVR, DS-7608NI-EV2/8P (KIT)

Performance Kits

I7604N1TP

Includes Four 4 MP Outdoor IR Turrets, DS-2CD2342WD-I (KIT), and one 4-channel NVR, DS-7604NI-EV1/4P (KIT)
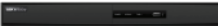
I7608N2TP

Includes Six 4 MP Outdoor IR Turrets, DS-2CD2342WD-I (KIT), and one 8-channel NVR, DS-7608NI-EV2/8P (KIT)

	OUTDOOR DOME	OUTDOOR TURRET
Model	DS-2CD2120F-I (KIT)	DS-2CD2342WD-I (KIT)
	2 MP	4 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR
Lens/ Horizontal Angle of View	Fixed, 2.8 mm @ ƒ/2.0 / 106° (2.8 mm)	Fixed, 2.8 mm @ ƒ/2.0/ 106° (2.8 mm)
Pan/Tilt/Rotation	0° to 355° / 0° to 75° / 0° to 355°	0° to 360° / 0° to 75° / 0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/Digital	TRUE/Yes/120 dB
IR Range Max (meters)	30	30
Video Compression	H.264/MJPEG	H.264+/H.264/MJPEG
Max. Image Resolution (pixels)	1920x1080	2688x1520
Frame Rate (fps)	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720
Multi-Streaming	Dual	Dual
Motion Detection	Yes	Yes
Audio Input/Output	---	---
Alarm Input/Output	---	---
Local Storage	---	---
Smart Features	Basic Smart Suite[2]	Basic Smart Suite[2]
Ratings	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	12V DC, PoE (802.3af), 5.3 W	12V DC, PoE (802.3af), 7.5 W

	4-CH NVR	8-CH NVR
Model	DS-7604NI-EV1/4P (KIT)	DS-7608NI-EV2/8P (KIT)
Max. Recording Resolution	5 MP	5 MP
Video Compression	H.264, H.264+	H.264, H.264+
HDMI/VGA Output	1920x1080/1920x1080, synchronized output	1920x1080/1920x1080, synchronized 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
Audio Input/Output	1 line in/1 line out	1 line in/1 line out
Alarm Input/Output	4 ch/1 ch	4 ch/1 ch
USB	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0
Internal HDD	1 TB	2 TB
Max. Internal Storage	6 TB	6 TB
Max Incoming Bandwidth (Mbps)	40	60
Maximum Outgoing Bandwidth (Mbps)	60	60
Max. Remote Connections	32	32
Rack Units	1	1
Ratings	UL/cUL Listed	UL/cUL Listed
PoE Budget	50 W	120 W
Power Requirements	48VDC, ≤10W without HDD	100 to 240 VAC, ≤10W without HDD

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]Basic Smart Suite: Line Crossing, Intrusion Detection
*Cameras available for expansion, NVR's are not sold separately.

	4-CH DVR	8-CH DVR
	DS-7104HQHI-F1/NB	DS-7108HQHI-F1/NB
Model		
Max. Recording Resolution	2 MP	2 MP
Video Compression	H.264	H.264
HDMI/VGA Output	1920 x 1080/60Hz, 1280 x 1024/60 Hz, 1280 x 720/60Hz, 1024 x 768/60Hz	1920 x 1080/60Hz, 1280 x 1024/60 Hz, 1280 x 720/60Hz, 1024 x 768/60Hz
Spot Monitor Output (BNC)	No	No
Analog Input	4-Ch 1.0 Vp-p, 75 Ω	8-Ch 1.0 Vp-p, 75 Ω
Video Standard	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)
Two-Way Audio Input	1-ch, RCA (linear, 1K Ω)	1-ch, RCA (linear, 1K Ω)
USB 2.0	2 x USB 2.0	2 x USB 2.0
RAID Support	---	---
Internal SATA	1 port	1 port
Internal Storage	1 TB	1 TB
Support DVD-RW	No	No
Max. fps 720p/1080p HD-TVI	12fps with included cameras	12fps with included cameras
Hikvision IP Camera Support	No	No
OSD Menu−Up-the-Coax	Supported	Supported
eSATA Interface	No	No
Smart Play	Yes	Yes
Ratings	UL/cUL Listed	UL/cUL Listed
Power Requirements	12V DC, ≤ 8 W	12V DC, ≤ 12 W

Standards: Complies with ONVIF (Profile S and G), CGI ASAPI. Contact factory for details.
[2]**Basic Smart Suite:** Counting, ROI, EIS, Defog

	OUTDOOR TURRET	OUTDOOR DOME
	DS-2CE56D0T-IR	DS-2CE56D7T-VPIT
Model	2 MP	2 MP
Image Sensor	2 MP CMOS	2 MP CMOS
Min. Illumination (lux)	Color: 0.028 @ ƒ/2.0, AGC on, 0 lux with IR	Color: 0.034 @ ƒ/2.0, AGC on, 0 lux with IR
HD-TVI Resolution	1080p	1080p
Lens	Fixed, 2.8 mm @ ƒ/2.0	Fixed, 2.8 mm @ ƒ/2.0
Horizontal Angle of View	103°	103°
Pan/Tilt/Rotation	0° to 360°/ 0° to 75°/0° to 360°	0° to 340°/ 0° to 75°/0° to 355°
Day/Night	True (ICR)	True (ICR)
BLC/WDR	Yes	Yes
IR Range (meters)	20	20
Vertical Synchronization	Internal	Internal
OSD Menu	Yes, over UTC	Yes, over UTC
Ratings	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)
Power Requirements (max.)	12V DC ±15%, 4 W	12V DC ±15%, 5 W

TurboHD™ Kits

Hikvision introduces its first series of complete recorder and camera kits for single-site applications. The Kits contain a recorder and multiple cameras in a single box, suitable for DIY applications like a residence or a small business. The TurboHD Kits will include 4 and 8 channel recorders along with 4 and 6 cameras respectively.

Super Value Kits

T7104Q1TA

Includes Four 1080P Outdoor IR Turrets (DS-2CE56D0T-IR) and one 4-channel DVR (DS-7104HQHI-F1/NB)

T7108Q2TA

Includes Six 1080P Outdoor IR Turrets (DS-2CE56D0T-IR) and one 8-channel DVR (DS-7108HQHI-F1/NB)

Performance Kits

T7104Q1TB

Includes Four 1080P Outdoor IR Domes (DS-2CE56D7T-VPIT) and one 4-channel DVR (DS-7104HQHI-F1/NB)

T7108Q2TB

Includes Six 1080P Outdoor IR Domes (DS-2CE56D7T-VPIT) and one 8-channel DVR (DS-7108HQHI-F1/NB)

TurboHD™ Solutions

Enjoy HD with existing cabling using Hikvision's TurboHD HD-TVI technology that provides high definition (HD) video up to 4K over coaxial cable at distances up to 2,600 feet. Specially designed for analog users who want a high-definition surveillance system, this product line allows users to enjoy HD without upgrading to IP or replacing their existing cabling structures. Delivering impressive image quality, this camera line offers incredibly durable, vandal-proof products with features such as industry−leading H.265+ video compression, OSD menu via Up-the-Coax (UTC), EXIR 2.0 illumination, motorized zoom and focus and 120 dB WDR.

The TurboHD Plug and Play DVR products offer several models scalable for small to medium-sized businesses with 4 to 32 channels. All TurboHD DVRs are tribrid— a true revolution in the professional surveillance market— supporting traditional analog (CVBS), HD-TVI, and IP cameras. Thanks to autosensing technology, installation is extremely easy. These DVR products also provide H.265 and Hikvision's unique H.265+ video compression and up to 48 TB of recording space, with some models supporting 8 TB HDD capacities. DVRs support remote monitoring via iVMS-4200 and the iVMS-4500 app.

01

5 MP OUTDOOR DOME
DS-2CE56H1T-AVPIT3Z
PAGE 51

02

100%
ORIGINAL DATA

30%
H.265+ COMPRESSED DATA

5 MP EXIR Fisheye Camera
DS-2CC52H1T-FITS

An analog HD-TVI fisheye lens camera offering 5 MP resolution and a number of virtual PTZ and panoramic views for maximum scene coverage with audio support.

5 MP Ultra-Low Light EXIR 2.0 Vandal-Proof PoC Dome Camera
DS-2CE56H5T-VPIT3ZE

Our premiere Dome camera offering 5 MP resolution, 2.8 mm − 12 mm motorized varifocal lens, vandal-proof housing, PoC, robust IP67/IK10 environmental protection and UTC (up the Coax) OSD (On Screen Display) of the menu system.

1080p Ultra-Low Light EXIR 2.0 Vandal-Proof PoC Dome Camera
DS-2CC52D9T-AVPIT3ZE

A premiere dome camera offering 1080p resolution, ULL lux rating of 0.003 @ ƒ/1.2, 2.8 mm − 12 mm motorized varifocal lens, vandal-proof housing, PoC, robust IP67/IK10 environmental protection and UTC (up the Coax) OSD (On Screen Display) of the menu system.

01. HIGHER RESOLUTION: 5 AND 8 MP (4K)
Cameras and DVR series support higher HD-TVI resolution input and output up to 4K UHD HDMI.

02. BETTER VIDEO COMPRESSION
H.265/H.265+ industry-leading technology reduces bandwidth and storage requirements by up to a factor of 4.

TurboHD™ Solutions

100%
ORIGINAL DATA

30%
H.265+ COMPRESSED DATA

IP Megapixel Camera

HD-TVI Camera

Analog Camera

DVR

OUTDOOR BULLET
DS-2CE16D1T-IT1
PAGE 52

5 MP OUTDOOR FISHEYE
DS-2CC52H1T-FITS
PAGE 51

OUTDOOR TURRET
DS-2CE56x5T-VFIT3
PAGES 54-55

O7. **TRIBRID TECHNOLOGY**

The tribrid approach allows DVR auto-detection and instant imaging of standard analog cameras, TurboHD (HD-TVI) cameras, and standard IP cameras.

O3. **LONGER VIDEO TRANSMISSION DISTANCES**

TurboHD uses HD-TVI technology that provides longer video transmission distances of video and digital data from camera to DVR over standard non-HD video distances.

O4. **ULTRA-LOW LIGHT IMAGING PERFORMANCE**

Hikvision now offers Ultra Low Light performance cameras with sensitivity specifications as low as 0.003 lux.

O5. **EXIR 2.0 TECHNOLOGY**

Advanced IR Illumination technology provides intelligent focused light to optimize scene illumination, increase reliability, all in a small package size.

O6. **INTEGRATED FISHEYE CAMERA**

An analog Fisheye lens camera provides a number of virtual PTZ and panoramic views that support audio and image resolution to 5 MP.

O8. **INTEGRATED POWER OVER COAX (POC)**

Selected cameras and DVR series support camera power over the video coaxial cable, eliminating the need for individual camera power supplies and providing hot-standby, dual source camera power.

TurboHD™ Solutions

TurboHD

INDOOR BOX | **INDOOR DOME**

Model	DS-2CC12D9T-A	DS-2CE56C5T-AVFIR	DS-2CE56D5T-AVFIR*	DS-2CE56D5T-AIRZ	DS-2CE56D1T-AVFIR*	DS-2CE56D7T-AITZ	DS-2CE56D8T-AITZ	DS-2CC52D9T-AITZE	DS-2CE56F7T-AITZ	DS-2CE56H1T-AITZ
	*Lens NOT included — 1080p	720p	*Black model available DS-2CE56D5T-AVFIRB — 1080p	1080p	*Black model available DS-2CE56D1T-AVFIRB — 1080p	EXIR 1080p	EXIR 1080p NEW	EXIR 1080p NEW	EXIR 3 MP	EXIR 5 MP
TurboHD Platform	1.0	1.0	1.0	1.0	1.0	3.0	4.0	4.0	3.0	4.0
Video Out	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	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	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1920x1080	1280x720	1920x1080	1920x1080	1920x1080	1920x1080	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920x1536	2592 (H) x1944 (V)
CVBS Resolution	600TVL	720TVL	600TVL	600TVL	---	---	---	720*576	---	---
Min. Illumination (lux)	Color: 0.1 @ ƒ/1.2 B/W: 0.0001 @ ƒ/1.2	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.03 @ ƒ/1.4 B/W: 0 with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	0.003 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.038 @ ƒ/1.4 B/W: 0 with IR	Color: 0.01 @ ƒ/1.2 B/W: 0 with IR
Lens	C/CS mount	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, motorized	2.8 to 12 mm @ ƒ/1.4, manual	2.8 -12 mm, motorized lens	2.8 mm to 12 mm motorized vari-focal lens	2.8 mm to 12 mm	2.8 -12mm, motorized lens	2.8 -12 mm motorized lens
Horizontal Angle of View	Dependent on lens	92° to 29.3°	103° to 32.1°	103° to 32.1°	114.5° to 35.1°	35.1° to 114.5°	32.1° to 103°	32.1° to 98°	26.8° to 83°	27.7° to 86.8° (2.8 to 12 mm)
Pan/Tilt/Rotation	---	0° to 340°/ 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 340°/ 0° to 75°/0° to 355°	0° to 340°/ 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/BLC/WDR	TRUE/Yes/120 dB	TRUE/No/Digital	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/No	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	---	30	30	30	30	30	20	40	30	30
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IP50, UL/cUL Listed	UL/cUL Listed	IP65, UL/cUL Listed	IP65, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-20° C to 45° C (-4° F to 113° F)	-20° C to 45° C (-4° F to 113° F)	-20° C to 45° C (-4° F to -113° F)	-20° C to 45° C (-4° F to 113° F)	-40° C to 60° C (-40 ° F to 140° F)	-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 V ±15% AC, 12 V ±15% DC, 6 W	12V DC ±15%, 24 VAC ±15%, 5 W	12V DC ±15%, 24 VAC ±15%, 6 W	12V DC ±15%, 24 VAC ±15%, 6 W	12V DC ±15%, 24 VAC ±15%, 4 W	12V DC ±15%, 24 VAC ±15%, 6.5 W	12V DC ±25%, 24 V AC ±25%, 7 W	24 VAC/12V DC ±30%/ PoC.at,6W	12V DC ±15%, 24 VAC ±15%, 6.5 W	12V DC ±20%, 24 V AC ±20%, 6.5 W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

OUTDOOR DOME

	DS-2CE56C5T-AVPIR3	DS-2CE56D1T-VPIR*	DS-2CE56D1T-AVPIR3*	DS-2CE56D5T-AVPIR3*	DS-2CE56D5T-AVPIR3ZH	DS-2CE56D7T-VPIT	DS-2CE56D7T-AVPIT3Z	DS-2CE56D8T-VPIT*	DS-2CE56D8T-AVPIT3Z*	DS-2CC52D9T-AVPIT3ZE*
Model	720p	*Black model available DS-2CE56D1T-VPIRB 1080p	*Black model available DS-2CE56D1T-AVPIR3B 1080p	*Black model available DS-2CE56D5T-AVPIR3B 1080p	1080p	EXIR 1080p	EXIR 1080p	EXIR *Black model available DS-2CE56D8T-VPITB 1080p	EXIR *Black model available DS-2CE56D8T-AVPIT3ZB 1080p	EXIR *Black model available DS-2CE52D9T-AVPIT3ZEB 1080p
TurboHD Platform	1.0	1.0	1.0	1.0	1.0	3.0	3.0	4.0	4.0	4.0
Video Out	HD-TVI/CVBS (selectable)	HD-TVI	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI
Image Sensor	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1280x720	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
CVBS Resolution	720TVL	---	---	600TVL	600TVL	---	---	---	---	720*576
Min. Illumination (lux)	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.03 @ ƒ/1.4 B/W: 0 with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	0.003 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR
Lens	2.8 to 12 mm @ ƒ/1.4, manual	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, motorized	Fixed, 2.8 mm, 3.6 mm, 6 mm option	2.8 -12 mm, motorized lens	2.8 mm, 3.6 mm, 6 mm fixed focal lens	2.8 mm to 12 mm motorized vari-focal lens	2.8 mm to 12 mm, motorized vari-focal lens
Horizontal Angle of View	92° to 29.3°	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105.2° to 32.8°	103° to 32.1°	103° to 32.1°	103° (2.8 mm), 82.2° (3.6 mm), 54° (6 mm)	100° to 35.1°	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm)	32.1° to 103°	32.1° to 98°
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 340°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 360°/ 0° to 75°/0° to 360°	0° to 340°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night/BLC/WDR	TRUE/No/Digital	TRUE/Yes/No	TRUE/Yes/No	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	40	20	40	40	40	20	40	20	40	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP67, IK7, UL/cUL Listed	IP67, IK8, UL/cUL Listed	IP67, IK10, 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)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)
Power Requirements (max.)	12V DC ±15%, 24 VAC ±15%, 5 W	12V DC ±15%, 4 W	12V DC ±15%, 24 VAC ±15%, 4 W	12V DC ±15%, 24 VAC ±15%, 6 W	12V DC ±15%, 24 VAC ±15%, 12 W	12V DC, 5 W	12V DC, 24 VAC ±15%, 6.5W	12V DC ±25%,3.2W	12V DC ±25%, 24 V AC ±25%,7W	24 VAC/12V DC ±30%/ PoC.at,6W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

TurboHD™ Solutions

TurboHD

OUTDOOR DOME   OUTDOOR FISHEYE   OUTDOOR BULLET

	DS-2CE56F7T-VPIT*	DS-2CE56F7T-AVPIT3Z*	DS-2CE56H1T-VPIT*	DS-2CE56H1T-AVPIT3Z*	DS-2CE56H5T-VPITE*	DS-2CE56H5T-VPIT3ZE	DS-2CC52H1T-FITS	DS-2CE16C2T-IR	DS-2CE16C5T-IT1	DS-2CE16C5T-VFIR3
Model	EXIR *Black model available DS-2CE56F7T-VPITB 3 MP	EXIR *Black model available DS-2CE56F7T-AVPIT3ZB 3 MP	EXIR *Black model available DS-2CE56H1T-VPITB 5 MP	EXIR *Black model available DS-2CE56H1T-AVPIT3ZB 5 MP	EXIR *Black model available DS-2CE56H5T-VPITEB 5 MP (NEW)	5 MP (NEW)	EXIR 5 MP (NEW)	EXIR 720p	EXIR 720p	720p
TurboHD Platform	3.0	3.0	4.0	4.0	4.0	4.0	3.0	4.0	1.0	1.0	1.0
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (selectable)
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS	1/3.2" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1920x1536	1920x1536	2592 (H) x1944 (V)	2592 (H) x 1944 (V)	2560 (H) × 1944 (V)	2560 (H) × 1944 (V)	2592 (H) × 1944 (V)	1280x720	1280x720	1280x720
CVBS Resolution	---	---	---	---	---	---	---	---	720TVL	720TVL
Min. Illumination (lux)	Color: 0.070 @ ƒ/2.5 B/W: 0 with IR	Color: 0.038 @ ƒ/1.4 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.01 @ ƒ/1.2 B/W: 0 with IR	Color: 0.008 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.008 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	0.01 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	2.8 -12 mm, motorized lens	Fixed, 2.8 mm, 3.6 mm and 6 mm	2.8 -12 mm motorized lens	2.8 mm 3.6 mm, 6 mm fixed focal lens	2.8 to 12 mm, motorized vari-focal lens	1.1mm	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 8 mm option)	2.8 to 12 mm @ ƒ/1.4, manual
Horizontal Angle of View	84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm)	26.8° to 83°	94.4° (2.8 mm), 72.4° (3.6 mm), 48.6° (6 mm)	90.4° to 28°	91° (2.8 mm), 70° (3.6 mm), 45° (6 mm)	102° to 31°	360	74.6° (3.6 mm), 92.6° (2.8 mm), 49° (6 mm)	74.6° (3.6 mm), 92.6° (2.8 mm), 49° (6 mm), 34.5° (8 mm)	92° to 29.3°
Pan/Tilt/Rotation	0° to 340°/ 0° to 75°/0° to 355°	0° to 340°/ 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 30°/0°/0°	0° to 360°/ 0° to 180°/ 0° to 360°	0° to 360°/ 0° to 90°/ 0° to 360°	0° to 360°/ 0° to 90°/ 0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/N/A	TRUE/No/No	TRUE/No/Digital	TRUE/No/Digital
IR Range Max. (meters)	20	40	20	40	20	40	20	20	20	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	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)	-20 °C to 60 °C (-4 °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)
Power Requirements (max.)	12V DC, 5 W	12V DC ±15%, 24 VAC ±15%, 6.5 W	12V DC ±25%, 5 W	12V DC ±25%, 24 VAC ±25%, 6.5 W	12V DC ±25%/PoC.af, 3W	12V DC ±25%/PoC.at, 8 W	DC12V±15%,5.5W	12V DC ±15%, 4 W	12V DC ±15%, 4 W	12V DC ±15%, 5 W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

TurboHD™ Solutions

OUTDOOR BULLET

Model	DS-2CE16D1T-IR	DS-2CE16D1T-IT1	DS-2CE16D5T-IT3	DS-2CE16D1T-AVFIR3	DS-2CE16D5T-AVFIT3	DS-2CE16D5T-AIR3ZH	DS-2CE16D9T-AIRAZH	DS-2CE16D7T-IT	DS-2CE16D7T-IT5	DS-2CE16D7T-AIT3Z
	1080p	EXIR 1080p	EXIR 1080p	1080p	EXIR 1080p	1080p	1080p	EXIR 1080p	EXIR 1080p	EXIR 1080p
TurboHD Platform	1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	3.0	3.0
Video Out	HD-TVI	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI	HD-TVI	HD-TVI
Image Sensor	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS
HD-TVI Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080
CVBS Resolution	---	---	600TVL	---	600TVL	600TVL	600TVL	---	---	---
Min. Illumination (lux)	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.14 @ ƒ/1.4 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.028 @ ƒ/2.0 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.03 @ ƒ/1.4 B/W: 0 with IR
Lens	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 12 mm option)	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, manual	2.8 to 12 mm @ ƒ/1.4, motorized	5 to 50 mm @ ƒ/2.0 motorized	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm, 6 mm, 8 mm, 12 mm, 16 mm option	2.8 -12 mm, motorized lens
Horizontal Angle of View	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	82.6° (3.6 mm), 103.5° (2.8 mm), 54.4° (6 mm), 38° (8 mm), 24.4° (12 mm), 18.9° (16 mm)	105.2° to 32.8°	103° to 32.1°	103° to 32.1°	59.8° to 6.2°	103° (2. 8mm), 82.2° (3.6 mm), 54° (6 mm)	82.2° (3.6 mm), 54° (6 mm), 37.7° (8 mm), 24.3° (12 mm), 18.8° (16 mm)	35.1° to 114.5°
Pan/Tilt/Rotation	0° to 360°/ 0° to 180°/ 0° to 360°	0° to 360°/ 0° to 180°/ 0° to 360°	0° to 360°/ 0° to 180°/ 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°	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°	0° to 360°/ 0° to 90°/ 0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/No	TRUE/Yes/No	TRUE/Yes/120 dB	TRUE/Yes/No	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/ Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	20	20	40	40	50	40	110	20	80	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-40° C to 60° C (-40 ° F to 140° F)	-40° C to 60° C (-40 ° F to 140° F)	-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)	-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.)	12V DC ±15%, 4 W	12V DC ±15%, 4 W	12V DC, 5 W	12V DC, 24 VAC, 6 W	12V DC ±15%, 24 VAC ±15%, 10 W	12V DC ±15%, 24 VAC ±15%, 12W	AC 24V ±15%, DC 12V ±15%, 20 W	12V DC, 5 W	12V DC, 5 W	12V DC / 24V AC ±15%, 9 W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

OUTDOOR BULLET

Model	DS-2CE16D8T-IT	DS-2CE16D8T-IT3	DS-2CE16D8T-IT5	DS-2CE16D8T-AIT3Z	DS-2CC12D9T-IT3E	DS-2CC12D9T-IT5E	DS-2CC12D9T-AIT3ZE	DS-2CE16F7T-IT	DS-2CE16F7T-IT5	DS-2CE16F7T-AIT3Z	DS-2CE16H1T-IT1
	EXIR / 1080p	EXIR / 1080p	EXIR / 1080p	EXIR / 1080p	EXIR / 1080p	EXIR / 1080p	EXIR / 1080p	EXIR / 3 MP	EXIR / 3 MP	EXIR / 3 MP	EXIR / 5 MP
TurboHD Platform	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0	3.0	3.0	4.0
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920x1536	1920x1536	1920x1536	2592 (H) x1944 (V)
CVBS Resolution	---	---	---	---	720*576	720*576	720*576	---	---	---	---
Min. Illumination (lux)	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	0.003 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	0.003 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	0.003 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.070 @ ƒ/2.5 B/W: 0 with IR	Color: 0.070 @ ƒ/2.5 B/W: 0 with IR	Color: 0.038 @ ƒ/1.4 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR
Lens	2.8 mm, 3.6 mm, 6 mm, 8 mm fixed focal lens	2.8 mm, 3.6 mm, 6 mm, 8 mm, 12 mm fixed focal lens	3.6 mm, 6 mm, 8 mm, 12 mm fixed focal lens	2.8 mm to 12 mm motorized vari-focal lens	2.8 mm, 3.6 mm, 6 mm fixed focal lens	2.8 mm, 3.6 mm, 6 mm fixed focal lens	2.8 mm to 12 mm, motorized vari-focal lens	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (6 mm option)	2.8 -12 mm, motorized lens	Fixed, 2.8 mm, 3.6 mm and 6 mm
Horizontal Angle of View	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm), 38° (8 mm)	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm), 38° (8 mm), 24.4° (12 mm)	82.6° (3.6 mm), 54.4° (6 mm), 38° (8 mm), 24.4° (12 mm)	32.1° to 103°	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm)	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm)	32.1° to 98°	84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm)	67.8° (3.6 mm), 44.6 (6 mm)	26.8° to 83°	86.5° (2.8 mm), 70.1° (3.6 mm), 46° (6 mm)
Pan/Tilt/Rotation	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	20	40	80	40	40	80	40	20	80	40	20
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
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, 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)	-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.)	12V DC ±25%,3.6W	12V DC ±25%,3.6W	12V DC ±25%,5.8W	12V DC ±25%, 24 VAC ±25%,9W	12V DC ±30%/PoC.af,4W	12V DC ±30%/PoC. at,5.5W	24 V AC/12V DC ±30%/ PoC.at,7.5W	12V DC, 5 W	12V DC, 5 W	12V DC, 6W 24 VAC, 9W	12V DC +/-30%, 5 W

TurboHD™ Solutions

	OUTDOOR BULLET						OUTDOOR TURRET			
Model	DS-2CE16H1T-IT3	DS-2CE16H1T-IT5	DS-2CE16H1T-AIT3Z	DS-2CE16H5T-ITE (NEW)	DS-2CE16H5T-IT3E (NEW)	DS-2CE16H5T-IT5E (NEW)	DS-2CE56C2T-IRM	DS-2CE56C5T-IT1	DS-2CE56C5T-VFIT3	DS-2CE56D1T-IRM*
	EXIR 5 MP	EXIR 5 MP	EXIR 5 MP	EXIR 5 MP	EXIR 5 MP	EXIR 5 MP	720p	EXIR 720p	EXIR 720p	*Black model available DS-2CE56D1T-IRMB 1080p
TurboHD Platform	4.0	4.0	4.0	4.0	4.0	4.0	1.0	1.0	1.0	1.0
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (selectable)	HD-TVI
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS
HD-TVI Resolution	2592 (H) x1944 (V)	2592 (H) x1944 (V)	2592 (H) x1944 (V)	2560 (H) × 1944 (V)	2560 (H) × 1944 (V)	2560 (H) × 1944 (V)	1280x720	1280x720	1280x720	1920x1080
CVBS Resolution	---	---	---	---	---	---	---	720TVL	720TVL	---
Min. Illumination (lux)	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.01 @ ƒ/1.2 B/W: 0 with IR	Color: 0.008 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.008 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.008 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 B/W: 0 with IR	Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR
Lens	Fixed, 2.8 mm, 3.6 mm, 6 mm, 12 mm	Fixed, 3.6 mm, 6 mm, 12 mm	2.8 -12 mm motorized lens	2.8 mm, 3.6 mm, 6 mm fixed focal lens	2.8 mm, 3.6 mm, 6 mm, 8 mm, 12 mm fixed focal lens	3.6 mm, 6 mm, 8 mm, 12 mm fixed focal lens	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 8 mm option)	2.8 to 12 mm @ ƒ/1.4, manual	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)
Horizontal Angle of View	86.5° (2.8 mm), 70.1° (3.6 mm), 46° (6 mm), 20.9° (12 mm)	70.1° (3.6 mm), 46° (6 mm), 20.9° (12 mm)	27.7° to 86.8° (2.8 to 12 mm)	91° (2.8 mm), 70° (3.6 mm), 45° (6 mm)	91° (2.8 mm), 70° (3.6 mm), 45° (6 mm), 41° (8 mm), 26° (12 mm)	70° (3.6 mm), 45° (6 mm), 41° (8 mm), 26° (12 mm)	76.88° (3.6 mm), 99.73° (2.8 mm), 50.1° (6 mm)	71.43° (3.6 mm), 92.45° (2.8 mm), 46.9° (6 mm), 34.5° (8 mm)	78° to 28°	105° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 180°/0° to 360°	0° to 360°/ 0° to 180°/0° to 360°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°	0° to 355°/ 0° to 75°/ 0° to 355°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/No/No	TRUE/No/Digital	TRUE/No/Digital	TRUE/Yes/No
IR Range Max. (meters)	40	80	40	20	40	80	20	20	50	20
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
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	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)	-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)
Power Requirements (max.)	12V DC +/-30%, 5 W	12V DC +/-30%, 5 W	12V DC +/-30%, 5 W; -A 24VAC +/-20%, 9 W	12V DC ±25%/PoC.af, 4.5 W	12V DC ±25%/PoC.af, 4.5 W	12V DC ±25%, PoC.at, 6.5 W	12V DC, 3.5 W	12V DC, 3 W	12V DC, 6 W	12V DC, 3 W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

TurboHD™ Solutions

OUTDOOR TURRET

	DS-2CE56D1T-IT1	DS-2CE56D5T-IT3*	DS-2CE56D5T-VFIT3	DS-2CE56D5T-IR3Z	DS-2CE56D7T-ITM	DS-2CE56D7T-IT3	DS-2CE56D7T-IT3Z	DS-2CE56D8T-ITM*	DS-2CE56D8T-IT3	DS-2CE56D8T-IT3Z
Model	EXIR 1080p	EXIR *Black model available DS-2CE56D5T-IT3B 1080p	EXIR 1080p	EXIR 1080p	EXIR 1080p	EXIR 1080p	EXIR 1080p	NEW EXIR *Black model available DS-2CE56D8T-ITMB 1080p	NEW EXIR 1080p	NEW EXIR 1080p
TurboHD Platform	1.0	1.0	1.0	1.0	3.0	3.0	3.0	4.0	4.0	4.0
Video Out	HD-TVI	HDTVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI
Image Sensor	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
HD-TVI Resolution	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920x1080	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)	1920 (H) × 1080 (V)
CVBS Resolution	---	600TVL	600TVL	600TVL	---	---	---	---	---	---
Min. Illumination (lux)	Color: 0.034 @ ƒ/2.5 B/W: 0 with IR	Color: 0.043 @ ƒ/2.5 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: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.053 @ ƒ/2.5 B/W: 0 with IR	Color: 0.03 @ f/1.4 B/W: 0 with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR	Color: 0.005 Lux @ ƒ/1.2, AGC ON, 0 Lux with IR
Lens	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option)	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 12 mm, option)	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, motorized	Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm option)	Fixed, 2.8 mm @ ƒ/2.5 (3.6 mm, 6 mm option)	2.8 -12 mm, motorized lens	2.8 mm, 3.6 mm, 6 mm fixed focal lens	2.8 mm, 3.6 mm, 6 mm, 8 mm, 12 mm fixed focal lens	2.8 mm to 12 mm motorized vari-focal lens
Horizontal Angle of View	105° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm)	92° to 32°	103° to 32.1°	103° (2.8 mm), 82.2° (3.6 mm)	103° (2.8 mm), 82.2° (3.6 mm), 54° (6 mm)	100° to 35.1°	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm)	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm), 38° (8 mm), 24.4° (12 mm)	32.1° to 103°
Pan/Tilt/Rotation	0° to 360°/ 0° to 75°/ 0° to 360°	0° to 360°/ 0° to 75°/ 0° to 360°	0° to 355°/ 0° to 75°/ 0° to 355°	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 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 75°/0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/No	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB
IR Range Max. (meters)	20	40	50	40	20	40	40	20	40	40
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	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	IP67, UL/cUL Listed	IP67, UL/cUL Listed
Operating Temperature Range	-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)	-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.)	12V DC ±15%, 4 W	12V DC, 5 W	12V DC, 7 W	12V DC ±15%, 4 W	12V DC, 5 W	12V DC, 5 W	12V DC, 6 W	12V DC ±25%,3.6W	12V DC ±25%,3.6W	12V DC ±25%,7.5W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

TurboHD™ Solutions

55

OUTDOOR TURRET

	DS-2CE52D9T-IT3E	DS-2CE56F7T-ITM	DS-2CE56F7T-IT3	DS-2CE56F7T-IT3Z	DS-2CE56H1T-ITM*	DS-2CE56H1T-IT3	DS-2CE56H1T-IT3Z	DS-2CE56H5T-IT3E	DS-2CE56H5T-IT3ZE*	DS-2CE56H5T-ITME*
Model	EXIR 1080p	EXIR 3 MP	EXIR 3 MP	EXIR 3 MP	EXIR *Black model available DS-2CE56H1T-ITMB 5 MP	EXIR 5 MP	EXIR 5 MP	EXIR NEW 5 MP	EXIR *Black model available DS-2CE56H5T-IT3ZEB NEW 5 MP	EXIR *Black model available DS-2CE56H5T-ITMEB NEW 5 MP
TurboHD Platform	4.0	3.0	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI
Image Sensor	1/3" 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	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS	1/2.5" progressive scan CMOS
HD-TVI Resolution	1920 (H) × 1080 (V)	1920x1536	1920x1536	1920x1536	2592 (H) x1944 (V)	2592 (H) x1944 (V)	2592 (H) x1944 (V)	2560 (H) × 1944 (V)	2560 (H) × 1944 (V)	2560 (H) × 1944 (V)
CVBS Resolution	720*576	---	---	---	---	---	---	---	---	---
Min. Illumination (lux)	0.003 Lux @ f/1.2, AGC ON, 0 Lux with IR	Color: 0.070 @ f/2.5 B/W: 0 with IR	Color: 0.070 @ f/2.5 B/W: 0 with IR	Color: 0.038 @ f/1.4 B/W: 0 with IR	Color: 0.053 @ f/2.5 B/W: 0 with IR	Color: 0.053 @ f/2.5 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.008 Lux @ f/1.2, AGC ON, 0 Lux with IR	Color: 0.008 Lux @ f/1.2, AGC ON, 0 Lux with IR	Color: 0.008 Lux @ f/1.2, AGC ON, 0 Lux with IR
Lens	2.8 mm, 3.6 mm, 6 mm fixed focal lens	Fixed, 3.6 mm @ f/2.5 (2.8 mm option)	Fixed, 3.6 mm @ f/2.5 (2.8 mm, 6 mm option)	2.8 -12 mm, motorized lens	Fixed, 2.8 mm, 3.6 mm and 6 mm	Fixed, 2.8 mm, 3.6 mm, 6 mm and 12 mm	2.8 -12 mm motorized lens	2.8 mm, 3.6 mm, 6 mm, 8 mm, 12 mm fixed focal lens	2.8 mm to 12 mm motorized vari-focal lens	2.8 mm, 3.6 mm, 6 mm fixed focal Lens
Horizontal Angle of View	103.5° (2.8 mm), 82.6° (3.6 mm), 54.4° (6 mm)	84° (2.8 mm), 67.8° (3.6 mm)	84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm)	26.8° to 83°	86.5° (2.8 mm), 70.1° (3.6 mm), 46° (6 mm)	86.5° (2.8 mm), 70.1° (3.6 mm), 46° (6 mm), 20.9° (12 mm)	27.7° to 86.8° (2.8 to 12 mm)	91° (2.8 mm), 70° (3.6 mm), 45° (6 mm), 41° (8 mm), 26° (12 mm)	94° to 32°	91° (2.8 mm), 70° (3.6 mm), 45° (6 mm)
Pan/Tilt/Rotation	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 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 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 75°/0° to 360°
Day/Night/BLC/WDR	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/120 dB	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital
IR Range Max. (meters)	40	20	40	40	20	40	40	40	40	20
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ratings	IP67, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, 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)	-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.)	12V DC ±30%/PoC.af,4W	12V DC, 5 W	12V DC, 5 W	12V DC, 6W	12V DC +/-30%, 5 W	12V DC +/-30%, 6 W	12V DC +/-30%, 5 W	12V DC ±25%/PoC.af, 4.5 W	12V DC ±25%/PoC.at, 8 W	12V DC ±25% /PoC.af,4.5W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

TurboHD™ Solutions

TurboHD

	INDOOR	OUTDOOR	INDOOR	OUTDOOR	OUTDOOR	OUTDOOR IR	
Model	DS-2AE4223T-A3	DS-2AE4223T-A	DS-2AE5230T-A3	DS-2AE5123T-A	DS-2AE5230T-A	DS-2AE5123TI-A	DS-2AE7230TI-A
	1080p	1080p	1080p	720p	1080p	720p	1080p
Video Out	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/1.6	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/1.6	Color: 0.02 @ ƒ/1.6 B/W: 0.002 @ ƒ/1.6	Color: 0.05 @ ƒ/1.4 B/W: 0.005 @ ƒ/1.4, 0 with IR	Color: 0.05 @ ƒ/1.6, AGC ON, B/W: 0.005 @ ƒ/1.6, AGC ON, 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	0° to 90° (auto flip)	0° 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)
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/BLC/WDR	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/Yes/Digital	TRUE/No/Digital
IR Range Max. (meters)	---	---	---	---	---	150	120
Presets/Tours/Patterns	256/8/4	256/8/4	256/8/4	256/8/4	256/8/4	256/8/4	256/8/4
Up-the Coax Control	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C	Hikvision-C
RS485 Control	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P	Hikvision, Pelco D/P
Ratings	UL/cUL Listed	IP66, UL/cUL Listed	UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
Operating Temperature Range	-10° C to 50° C (14° F to 122° F)	-30° C to 65° C (-22° F to 149° F)	-10° C to 50° C (14° F to 122° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)
Power Requirements (max.)	24 VAC, 12 W	24 VAC, 18 W/12 W (heater on/off)	24 VAC, 12 W	24 VAC, 20 W/12 W (heater on/off)	24 VAC, 20 W/12 W (heater on/off)	24 VAC, 30 W	24 VAC, 40 W

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 75 for details.

TurboHD™ Solutions

	TurboHD™ 4.0 TRIBRID DVR - VALUE SERIES			TurboHD™ 3.0 TRIBRID DVR - VALUE SERIES		
Model	DS-7204HQI-K1/P Power over Coax (PoC)	DS-7208HQI-K2/P Power over Coax (PoC)	DS-7216HQI-K2/P Power over Coax (PoC)	DS-7204HUHI-F1/N	DS-7208HUHI-F2/N	DS-7216HUHI-F2/N
Max. Recording Resolution	1080p	1080p	1080p	3 MP	3 MP	3 MP
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.264+/H.264	H.264+/H.264	H.264+/H.264
HDMI/VGA Output	1920x1080/1920x1080, syncronous output	1920x1080/1920x1080, syncronous output	3480x2160/1920x1080/1920x1080, synchronous output	1920x1080/1920x1080, syncronous output	1920 × 1080, VGA 3840 × 2160, HDMI, synchronous output	1920 × 1080, VGA 3840 × 2160, HDMI, synchronous output
Spot Monitor Output (BNC)	---	---	---	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	4-Ch 1.0 Vp-p, 75 Ω	8-Ch 1.0 Vp-p, 75 Ω	16-Ch 1.0 Vp-p, 75 Ω
Video Standard	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)
Audio Input/Output	---	---	---	4-ch/1-ch	4-ch/1-ch	4-ch/1-ch
Alarm Input/Output	4 /1	8/4	16/4	4 /1	8/4	16/4
USB 2.0	2	2	1 USB 2.0 + 1 USB 3.0	2	Front panel: 1 × USB 2.0, Rear panel: 1 × USB 3.0	Front panel: 1 × USB 2.0, Rear panel: 1 × USB 3.0
RAID Support	---	---	---	---	---	---
Internal SATA	1 (up to 6 TB each)	2 (up to 6 TB each)	2 (up to 6 TB each)	1 (up to 6 TB each)	2 (up to 6 TB each)	2 (up to 6 TB each)
Max. Internal Storage	6 TB	12 TB	12 TB	6 TB	12 TB	12 TB
Support DVD-RW	---	---	---	---	---	---
Max. fps 720p/1080p/3 MP HD-TVI	30/15/15	30/15/15	30/15/15	30/30/15	30/30/15	30/30/15
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	---	---	---	---	---	---
Hikvision IP Camera Support	1 up to 4 MP	2 up to 4 MP	2 up to 4 MP	2 up to 4 MP	2 up to 4 MP	2 up to 4 MP
Front Panel Control	---	---	---	Yes	Yes	Yes
OSD Menu–Up-the-Coax	Yes	Yes	Yes	Yes	Yes	Yes
eSATA Interface	---	---	---	---	---	---
Turbo Channel VCA (Video Content Analysis)[6]	Up to 1 channel support	Up to 1 channel support	Up to 1 channel support	Up to 2 channel support	2-ch (Up to full channel support when disable 2K/4K output)	2-ch (Up to full channel support when disable 2K/4K output)
Smart Play	Yes	Yes	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	72	96	128	96	128	128
Max. Network Streams	128	128	128	128	128	128
User Names	32	32	32	32	32	32
Remote User Logins	128	128	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	1	1	1	1	1	1
Power Requirements	12V DC, ≤ 40 W	12V DC, ≤ 60 W	12V DC, ≤ 120 W	12V DC, ≤15 W without HDD	12V DC, ≤20 W without HDD	12V DC, ≤25 W without HDD

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

TurboHD™3 + TurboHD™4

Model	DS-7204HUI-K1/P Power over Coax (PoC)	DS-7208HUI-K2/P Power over Coax (PoC)	DS-7216HUI-K2	DS-9008HUHI-F8/N	DS-9016HUHI-F8/N
Max. Recording Resolution	5 MP	5 MP	5 MP	3 MP	3 MP
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.264+/H.264	H.264+/H.264
HDMI/VGA Output	1920 × 1080	3480x2160/1920x1080	3480x2160/1920x1080	3480x2160/1920x1080	3480x2160/1920x1080
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
Video Standard	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)
Audio Input/Output	4-ch/1-ch	4-ch/1-ch	4-ch/1-ch	8-ch/1-ch	16-ch/1-ch
Alarm Input/Output	4/1	8/4	16/4	16/4	16/4
USB 2.0	2	1 USB2.0 + 1 USB3.0	1 USB2.0 + 1 USB3.0	Front panel: 2 × USB 2.0, Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0, Rear panel: 1 × USB 3.0
RAID Support	---	---	---	Yes, RAID 0, 1, 5, 6, 10	Yes, RAID 0, 1, 5, 6, 11
Internal SATA	1 (up to 8 TB each)	2 (up to 8 TB each)	2 (up to 8 TB each)	8 (up to 6 TB each)	8 (up to 6 TB each)
Max. Internal Storage	8 TB	16 TB	16 TB	48 TB	48 TB
Support DVD-RW	---	---	---	Yes, front slot	Yes, front slot
Max. fps 720P/1080p/3 MP/4 MP/5 MP HD-TVI	30/30/18/15/12	30/30/18/15/12	30/30/18/15/12	30/30/15	30/30/15
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	No	No	No	Yes, for ch 11 - 18	Yes, for ch 19 -32
Hikvision IP Camera Support	2 up to 6 MP	2 up to 6 MP	2 up to 6 MP	10 up to 8 MP	18 up to 8 MP
Front Panel Control	No	No	No	Yes	Yes
OSD Menu–Up-the-Coax	Yes	Yes	Yes	Yes	Yes
eSATA Interface	No	No	No	Support	Support
Turbo Channel VCA (Video Content Analysis)[6]	All channels	All channels	All channels	All channels	All channels
Smart Play	Yes	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	96	128	128	260	320
Max. Network Streams	128	128	128	128	128
User Names	32	32	32	32	32
Remote User Logins	128	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	1	1	1	2	2
Power Requirements	12V DC, ≤ 40 W	12V DC, ≤ 60 W	12V DC, ≤ 10 W	12V DC, ≤ 10 W	12V DC, ≤ 10 W

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

TurboHD™ Solutions

TurboHD + **TurboHD 3**

Model	TurboHD™ TRIBRID DVR - PRO SERIES			TURBOHD™ 3.0 TRIBRID DVR - VALUE SERIES		TURBOHD™ TRIBRID DVR - PRO SERIES	
	DS-7308HQHI-SH	DS-7316HQHI-SH	DS-7332HGHI-SH	DS-7308HUHI-F4/N	DS-7316HUHI-F4/N	DS-9008HQHI-SH	DS-9016HQHI-SH
Max. Recording Resolution	1080p	1080p	1080p	3 MP	3 MP	1080p	1080p
Video Compression	H.264	H.264	H.264	H.264+/H.264	H.264+/H.264	H.264	H.264
HDMI/VGA Output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, syncronous output	HDMI 1: 1920 × 1080 HDMI 2: 3840 × 2160, independent output	HDMI 1: 1920 × 1080 HDMI 2: 3840 × 2160, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output
Spot Monitor Output (BNC)	Yes	Yes	---	Yes	Yes	Yes	Yes
Analog Input	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	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)
Audio Input/Output	4-ch/2-ch	4-ch/2-ch	4-ch/1-ch	4-ch/2-ch	4-ch/2-ch	8-ch/2-ch	16-ch/2-ch
Alarm Input/Output	16/4	16/4	16/4	16/4	16/4	16/4	16/4
USB 2.0	3	3	3	2 USB2.0 + 1 USB3.0	2 USB2.0 + 1 USB3.0	3	3
RAID Support	----	----	----	----	----	RAID 0, RAID 1, RAID 5, RAID 10 (up to 16 TB)	RAID 0, RAID 1, RAID 5, RAID 10 (up to 16 TB)
Internal SATA	4 (up to 6 TB each)	4 (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	24 TB	24 TB	24 TB	24 TB	24 TB	48 TB	48 TB
Support DVD-RW	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 4x SATA	Yes, replaces 4x SATA
Max. fps 720p/1080p/3 MP HD-TVI	30/30	30/30	30/12	30/30/15	30/30/15t	30/30	30/30
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hikvision IP Camera Support	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)	2 up to 8 MP (up to 10 ch if HD-TVI channels disabled)	2 up to 8 MP (up to 18 ch if HD-TVI channels disabled)	10 up to 6 MP (up to 18 ch if HD-TVI channels disabled)	18 up to 6 MP (up to 32 ch if HD-TVI channels disabled)
Front Panel Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSD Menu−Up-the-Coax	Yes	Yes	Yes	Yes	Yes	Yes	Yes
eSATA Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Turbo Channel VCA (Video Content Analysis)[6]	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	Up to 2 channel support	Up to 2 channel support
Smart Play	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	200	200	200	200 (200 with RAID)	260 (260 with RAID)	160 (160 with RAID)	260 (260 with RAID)
Max. Network Streams	128	128	128	128	128	128	128
User Names	32	32	32	32	32	32	32
Remote User Logins	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
Rack Units	1.5	1.5	1.5	1.5	1.5	2	2
Power Requirements	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, 50 to 60 Hz, ≤45 W without HDD	100 to 240 VAC, 50 to 60 Hz, ≤45 W without HDD	100 to 240 VAC, 47 to 63 Hz, ≤45 W without HDD	100 to 240 VAC, 47 to 63 Hz, ≤65 W without HDD

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

TurboHD™ Solutions

TurboHD™ 4.0 TRIBRID DVR - PRO SERIES

	DS-7308HQI-K4	DS-7316HQI-K4	DS-7332HQI-K4	DS-7308HUI-K4
Model	NEW	NEW	NEW	NEW
Max. Recording Resolution	3 MP	3 MP	3 MP	5 MP
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
HDMI/VGA Output	3480x2160/1920x1080	3480x2160/1920x1080	1920 × 1080, VGA1&HDMI1 3840 × 2160, HDMI2	1920 × 1080, VGA1&HDMI1 3840 × 2160, HDMI2
Spot Monitor Output (BNC)	Yes	Yes	Yes	Yes
Analog Input	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
Video Standard	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)	HD-TVI/CVBS (auto-detect)
Audio Input/Output	4/2	4/2	4/1	4/2
Alarm Input/Output	16/4	16/4	16/4	16/4
USB 2.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0
RAID Support	---	---	---	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Internal SATA	4 (up to 8 TB each)	4 (up to 8 TB each)	4 (up to 8 TB each)	4 (up to 8 TB each)
Max. Internal Storage	32TB	32TB	32TB	32TB
Support DVD-RW	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 2x SATA
Max. fps 720p/1080p/3 MP HD-TVI	30/15/15	30/15/15	30/15/15	30/30/18
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	Yes	Yes	Yes	Yes
Hikvision IP Camera Support	2-ch up to 4 MP (up to 10-ch if disable HD-TVI channels)	2-ch up to 4 MP (up to 18-ch if disable HD-TVI channels)	8-ch up to 4 MP (up to 40-ch if disable HD-TVI channels)	2-ch up to 8 MP (up to 10-ch if disable HD-TVI channels)
Front Panel Control	Yes	Yes	Yes	Yes
OSD Menu−Up-the-Coax	Yes	Yes	Yes	Yes
eSATA Interface	Yes	Yes	Yes	Yes
Turbo Channel VCA (Video Content Analysis)[6]	2-ch (up to 4-ch conflict with 3MP or 2K/4K output)	2-ch (up to 4-ch conflict with 3MP or 2K/4K output)	2-ch (up to 4-ch conflict with 3MP or 2K/4K output)	all channels(conflict with 5/4MP or 2K/4K output)
Smart Play	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	120	120	160	200
Max. Network Streams	128	128	128	128
User Names	32	32	32	32
Remote User Logins	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	1.5	1.5	1.5	1.5
Power Requirements	100 to 240 VAC, ≤40 W without HDD	100 to 240 VAC, ≤55 W without HDD	100 to 240 VAC, ≤200 without HDD	100 to 240 VAC, ≤45 W without HDD

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

TurboHD™ 4.0 TRIBRID DVR - PRO SERIES

Model	DS-7316HUI-K4	DS-7332HUI-K4	DS-9008HUI-K8	DS-9016HUI-K8
Max. Recording Resolution	5 MP	5 MP	5 MP	5 MP
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
HDMI/VGA Output	1920 × 1080, VGA1&HDMI1 3840 × 2160, HDMI2	1920 × 1080, VGA1&HDMI1 3840 × 2160, HDMI2	1920 × 1080, VGA1&HDMI1 3840 × 2160, HDMI2	1920 × 1080, VGA1&HDMI1 3840 × 2160, HDMI2
Spot Monitor Output (BNC)	Yes	Yes	Yes	Yes
Analog Input	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)
Audio Input/Output	4/2	4/1	8/2	16/2
Alarm Input/Output	16/4	16/4	16/4	16/4
USB 2.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0	Front panel: 2 × USB 2.0 Rear panel: 1 × USB 3.0
RAID Support	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10	RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Internal SATA	4 (up to 8 TB each)	4 (up to 8 TB each)	8 (up to 8 TB each)	8 (up to 8 TB each)
Max. Internal Storage	32TB	32TB	64TB	64TB
Support DVD-RW	Yes, replaces 2x SATA	Yes, replaces 2x SATA	Yes, replaces 4x SATA	Yes, replaces 4x SATA
Max. fps 720p/1080p/3 MP HD-TVI	30/30/18	30/30/18	30/30/18	30/30/18
Max. Analog (CVBS) Resolution	WD1 (960H)	WD1 (960H)	WD1 (960H)	WD1 (960H)
Disable Turbo/CVBS Channel/Add IPC	Yes	Yes	Yes	Yes
Hikvision IP Camera Support	2-ch up to 8 MP (up to 18-ch if disable HD-TVI channels)	8-ch up to 4 MP (up to 40-ch if disable HD-TVI channels)	10-ch up to 12 MP (up to 18-ch if disable HD-TVI channels)	18-ch up to 12 MP (up to 32-ch if disable HD-TVI channels)
Front Panel Control	Yes	Yes	Yes	Yes
OSD Menu−Up-the-Coax	Yes	Yes	Yes	Yes
eSATA Interface	Yes	Yes	Yes	Yes
Turbo Channel VCA (Video Content Analysis)[6]	all channels(conflict with 5/4MP or 2K/4K output)	all channels(conflict with 5/4MP or 2K/4K output)	all channels(conflict with 5/4MP or 2K/4K output)	all channels(conflict with 5/4MP or 2K/4K output)
Smart Play	Yes	Yes	Yes	Yes
Max. Incoming/Outgoing Bandwidth (Mbps)	260	260	260	320
Max. Network Streams	128	128	128	128
User Names	32	32	32	32
Remote User Logins	128	128	128	128
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Rack Units	1.5	1.5	2	2
Power Requirements	100 to 240 VAC, ≤65 W without HDD	100 to 240 VAC, ≤200W without HDD	100 to 240 VAC, ≤45 W without HDD	100 to 240 VAC, ≤65 W without HDD

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

TurboHD

ENCODER

Model	DS-6701HWI	DS-6704HWI	DS-6708HWI	DS-6716HWI	DS-6708HQHI-SATA	DS-6716HQHI-SATA
Frame Rate (fps)	30	30	30	30	30	30
Multi-Streaming	Yes	Yes	Yes	Yes	Yes	Yes
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)
Video Output	H.264/MPEG4/MPEG2/MJPEG	H.264/MPEG4/MPEG2/MJPEG	H.264/MPEG4/MPEG2/MJPEG	H.264/MPEG4/MPEG2/MJPEG	H.264	H.264
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
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
Voice Talk Input	1-ch	1-ch	1-ch	1-ch	---	---
Alarm Input/Output	1/1	4/2	8/4	16/4	8/4	16/4
RS-232	---	Yes	Yes	Yes	---	---
RS-485	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	720p/30, 720p/60, 1080p/30, CVBS	720p/30, 720p/60, 1080p/30, CVBS
Resolution Out	---	---	---	---	---	---
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Power Requirements	12V DC, ≤5 W	12V DC,≤7 W	12V DC ≤10 W	12V DC ≤22 W	12V DC ≤30 W without HDD	12V DC ≤45 W without HDD

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

TurboHD™ Solutions

63

	DECODER				ENCODER		
Model	**DS-6901UDI**	**DS-6904UDI**	**DS-6908UDI**	**DS-6916UDI**	**DS-6704HUHI-K**	**DS-6708HUHI-K**	**DS-6716HUHI-K**
Frame Rate (fps)	Per video input	Per video input	Per video input	Per video input	30	30	30
Multi-Streaming	1 video output	4 video outputs	8 video outputs	16 video outputs	Yes	Yes	Yes
Video Input	H.265+/H.265, H.264+/H.264, MPEG4 and MJPEG	H.265+/H.265, H.264+/H.264, MPEG4 and MJPEG	H.265+/H.265, H.264+/H.264, MPEG4 and MJPEG	H.265+/H.265, H.264+/H.264, MPEG4 and MJPEG	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)
Video Output	1 HDMI, 1 VGA, 1 BNC	4 HDMI, 2 BNC (via DB-15 connector)	8 HDMI, 4 BNC (via DB-15 connector)	16 HDMI, 8 BNC (via DB-15 connector)	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Network Interface	1, 10/100/1000 Mbps self-adaptive Ethernet interface	2, 10/100/1000 Mbps self-adaptive management network interface 2, 10/100/1000 Mbps self-adaptive Ethernet interface 16, 10M/100Mbps self-adaptive Ethernet interface	2, 10/100/1000 Mbps self-adaptive management network interface 2, 10/100/1000 Mbps self-adaptive Ethernet interface 16, 10M/100Mbps self-adaptive Ethernet interface	2, 10/100/1000 Mbps self-adaptive management network interface 2, 10/100/1000 Mbps self-adaptive Ethernet interface 16, 10M/100 Mbps self-adaptive Ethernet interface	1, RJ45 10M/100M/1000M self-adaptive Ethernet interface	1, RJ45 10M/100M/1000M self-adaptive Ethernet interface	1, RJ45 10M/100M/1000M self-adaptive Ethernet interface
Storage	---	---	---	---	---	---	---
Audio Input/Output	0/1	0/4 (via DB-15 connector)	0/8 (via DB-15 connector)	0/16 (via DB-15 connector)	4/1	4/1	4/1
Voice Talk Input	1-ch	1-ch	1-ch	1-ch	1-ch	1-ch	1-ch
Alarm Input/Output	8/8	8/8	8/8	8/8	4/1	8/4	16/4
RS-232	Yes	Yes	Yes	Yes	---	---	---
RS-485	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resolution In	---	---	---	---	5 MP, 4 MP, 3 MP, 1080p30, 1080p25, 720p60, 720p50, 720p30, 720p25	5 MP, 4 MP, 3 MP, 1080p30, 1080p25, 720p60, 720p50, 720p30, 720p25	5 MP, 4 MP, 3 MP, 1080p30, 1080p25, 720p60, 720p50, 720p30, 720p25
Resolution Out	12 MP @ 20 fps: 2-ch 8 MP @ 30 fps: 4-ch 5 MP @ 30 fps: 6-ch 3 MP @ 30 fps: 10-ch 1080p @ 30 fps: 16-ch	12 MP @ 20 fps: 4-ch 8 MP @ 30 fps: 8-ch 5 MP @ 30 fps: 12-ch 3 MP @ 30 fps: 20-ch 1080p @ 30 fps: 32-ch	12 MP @ 20 fps: 8-ch 8 MP @ 30 fps: 16-ch 5 MP @ 30 fps: 24-ch 3 MP @ 30 fps: 40-ch 1080p @ 30 fps: 64-ch	12 MP @ 20 fps: 16-ch 8 MP @ 30 fps: 32-ch 5 MP @ 30 fps: 48-ch 3 MP @ 30 fps: 80-ch 1080p @ 30 fps/3 Mbps: 128-ch	---	---	---
Ratings	FCC Listed	FCC Listed	FCC Listed	FCC Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Power Requirements	12V DC ≤15 W	100 to 240 VAC ≤70 W	100 to 240 VAC ≤70 W	100 to 240 VAC ≤ 108 W	12V DC ≤10 W	12V DC ≤20 W	12V DC ≤25 W

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

TurboHD™ Solutions

Access Control Solutions

Hikvision is proud to introduce its access control system into the North American market. This product has been used successfully in many other developed markets. It is complete with control panels and battery backup, standalone terminals, a wide variety of card and fingerprint readers, as well as its own bundled iVMS-4200 management software. The system is also integrated into existing Hikvision video surveillance solutions, completing Hikvision's product offerings as a versatile, full-service security system.

DS-K2600 Series Controller

The DS-K2600 series access control panel uses an IP network uplink managed by the iVMS-4200 software. It can support up to four doors, with up to four card readers using Wiegand or eight card readers using RS-485. Complete with fire relay and backup battery power, it is designed to be the core of any professional access control system.

O1

O2

DS-K2600 SERIES CONTROLLER & CARD READERS
PAGES 67 & 69

WIEGAND

RS/485

O3

IP INDOOR STATION
DS-KH830x-xx
PAGE 72

O1. VIDEO AND ACCESS EVENT INTEGRATION WITH HIKVISION RECORDERS

With Hikvision's established presence in video surveillance, our access controllers and standalone terminals are easily integrated with our NVRs and DVRs. Upon receiving an access event, the recorder associates it with video recordings to provide searchable event-driven playback. The ability to combine video and access control seamlessly provides the user with complete safety and security.

O2. WIEGAND/RS-485 READERS

In addition to supporting standard Wiegand protocols to work with third-party cards and readers, Hikvision controllers and standalone terminals also support propriety RS-485 protocol, used in conjunction with Hikvision readers. This enables simpler wiring, longer distances and a maximum of eight readers among four doors. A complete Hikvision access control solution using RS-485 makes it a preferred solution for convenience and versatility.

O3. BUNDLED MANAGEMENT SOFTWARE

A complete Hikvision access control system comes bundled with the iVMS-4200 management software. It is capable of managing all users, permissions and rules for the system. In addition the software functions as a video workstation for Hikvision video surveillance equipment.
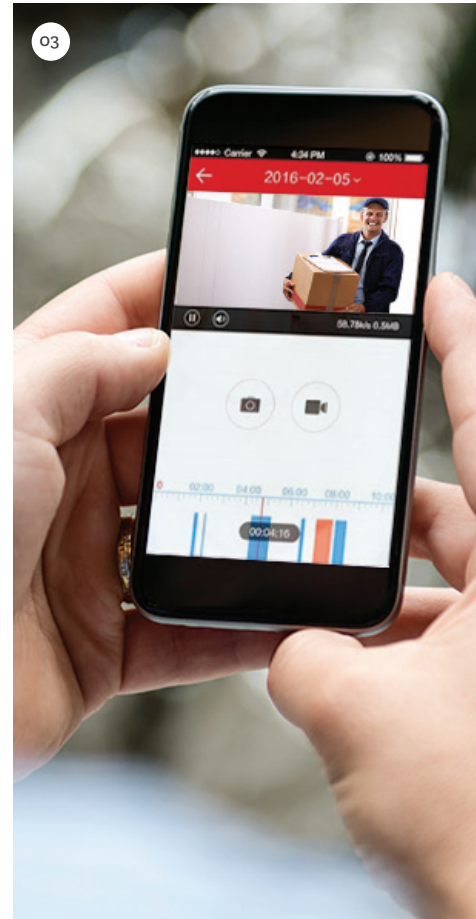
01

IP DOOR STATION
DS-KV8102
PAGE 71

02

03

Video Intercom Solutions

Hikvision's new IP Video Intercom line is a simple yet complete solution for customers in need of two-way audio as well as video verification at a door or entrance. A full system can consist of a video door station such as the DS-KV8102-IM and an indoor station such as the DS-KH8301-WT, each powered by the KAD606-P power and data distributor using Ethernet cables. The user conveniently answers the door at the indoor station and can unlock the door with a simple push of a virtual button on the touchscreen. The system is also fully integrated with the Hik-Connect app to provide the user with full access to their door virtually anywhere, anytime. Combining convenience and versatility, the Hikvision IP Video Intercom system propels a company's interactive video security one step further.

DS-KV8102-IM Door Station

This metal framed door station supports calling of up to four tenants. It is also equipped with a card reader, allowing the user to enter with a simple tap of a key card. It can be flush mounted or surface mounted using a wall mount kit.

01. MANY-TO-MANY COMMUNICATION

Multiple door stations can be programmed to be answered by multiple indoor stations. With up to four doorbells on a single door station, the user decides which and how many rooms can be called when a button is pressed at the door.

02. INTEGRATION WITH HIKVISION RECORDERS

The IP video intercom products take Hikvision's strength in video surveillance even further. Not only is the video stream fully viewable on a Hikvision recorder, doorbell and entry events are also logged on the playback, allowing the user to search the recordings by door and by event.

03. REMOTE CALLING

Fully integrated with the Hik-Connect cloud platform and phone app, an indoor station can simultaneously ring its owner's phone when a visitor is at their door. Regardless of whether the owner is home or not, they are given the ability to answer the call, see the visitor, and open the door with simple taps on their phone.

Non-Video Solutions

NETWORK ACCESS CONTROLLER

Model	DS-K2601	DS-K2602	DS-K2604
Capacity	16M	16M	16M
Uplink Communication Interface	TCP/IP Network Interface and RS-485 Interface	TCP/IP Network Interface and RS-485 Interface	TCP/IP Network Interface and RS-485 Interface
Downlink Communication Interface	RS-485 and Wiegand (w26/w34)	RS-485 and Wiegand (w26/w34)	RS-485 and Wiegand (w26/w34)
Storage Max Cards Number	100,000 (200,000 expandable)	100,000 (200,000 expandable)	100,000 (200,000 expandable)
Storage Max Events Number	300,000 (600,000 expandable)	300,000 (600,000 expandable)	300,000 (600,000 expandable)
LED Indicator	Power Supply Status, Communication Status, Working Status	Power Supply Status, Communication Status, Working Status	Power Supply Status, Communication Status, Working Status
Built-in Clock	Yes	Yes	Yes
Accessible Card Reader	2 Card Readers (RS485 Interface) 2 Card Readers (Wiegand Interface)	4 Card Readers (RS485 Interface) 4 Card Readers (Wiegand Interface)	8 Card Readers (RS485 Interface) 4 Card Readers (Wiegand Interface)
Input Interface	Alarm Input × 4, Door Sensor × 2, Exit Button × 2, Case Input × 4, Tamper Alarm × 1	Alarm Input × 4, Door Sensor × 2, Exit Button × 2, Case Input × 4, Tamper Alarm × 1	Alarm Input × 4, Door Sensor × 4, Exit Button × 4, Case Input × 8, Tamper Alarm × 1
Output Interface	Lock Relay × 1, Alarm Relay × 2	Lock Relay × 2, Alarm Relay × 4	Lock Relay × 4, Alarm Relay × 4
Working Temperature	20°C to +60°C (-4°F to +140°F)	20°C to +60°C (-4°F to +140°F)	20°C to +60°C (-4°F to +140°F)
Working Humidity	10% to 90% (Non-Condensing)	10% to 90% (Non-Condensing)	10% to 90% (Non-Condensing)
Working Voltage	DC 12V/1A	DC 12V/1A	DC 12V/1A
Power Dissipation (with Load)	≤50W	≤100W	≤100W
Certification	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL

VIDEO TERMINAL / STANDALONE TERMINAL

Model	DS-K1T500S	DS-K1T501SF	DS-K1T105M	DS-K1T105M-C
Uplink Communication Interface	Terminal Mode: TCP/IPCard Reader Mode: Wiegand26/34, RS-485	Terminal Mode: TCP/IPCard Reader Mode: Wiegand26/34, RS-485	TCP/IP, Wi-Fi Card Reader Mode: Wiegand26/34, RS-485	TCP/IP, Wi-FiCard Reader Mode: Wiegand26/34, RS-485
Downlink Communication Interface	Terminal Mode: RS485	Terminal Mode: RS485	RS-485 and Wiegand (w26/w34)	RS-485 and Wiegand (w26/w34)
Storage Max Cards Number	50,000	50,000	100,000	100,000
Storage Max Events Number	200,000	200,000	300,000	300,000
Fingerprint Capacity	---	3000	---	---
Fingerprint Recognition Duration	---	<= 1s	---	---
FAR (False Accept Rate)	---	<= 0.001 %	---	---
FRR (False Rejection Rate)	---	<= 0.01 %	---	---
Camera	2 MP/1080p, IR Light	2 MP/1080p, IR Light	---	2 MP
Support SD Card	Yes	Yes	Max.32G	Max.32G
Card Reading Mode	Mifare	Mifare	Mifare	Mifare
LED Indicator	---	---	Power/Communication	Power/Communication
Face detection and picture capturing	Support	Support	---	Yes
Input Interface	Door Magnetic Sensor*1, Alarm Input*2, Tamper-Proof Switch*1, Exit Button *1	Door Magnetic Sensor*1, Alarm Input*2, Tamper-Proof Switch*1, Exit Button *1	Exit Button *1, Door Sensor*1, Alarm *2	Exit Button *1, Door Sensor*1, Alarm *2
Output Interface	Lock*1, (Alarm Output, Doorbell) *1	Lock*1, (Alarm Output, Doorbell) *1	Doorbell×1, Relay×1	Doorbell×1, Relay×1
USB	---	---	---	---
LCD screen	---	---	320×240 LCD-TFT	320×240 LCD-TFT
Audio	---	---	Loudspeaker	Loudspeaker
Key Board	---	---	17 Keys (0 to 9, F1,F2,DEL, Switch Key, *, #, Doorbell)	17 Keys (0 to 9, F1,F2,DEL, Switch Key, *, #, Doorbell)
Protection Level	IP65	IP65	---	---
Tampering/Duress Alarm	Support/Support	Support/Support	Support/Support	Support/Support
Reports automatically	---	---	---	---
Working Temperature	-40°C to 60°C (-40° F to 140° F)	-40°C to 60°C (-40° F to 140° F)	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°F)
Working Humidity	10% to 90% (No Condensing)	10% to 90% (No Condensing)	10% to 90% (No Condensing)	10% to 90% (No Condensing)
Working Voltage	DC 12V/1A	DC 12V/1A	DC 12V	DC 12V
Power Dissipation (with Load)	<=600mA	<=600mA	500mA(without Locks)	500mA(without Locks)
Certification	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL

ACCESS CONTROL

	STANDALONE TERMINAL		FINGERPRINT TERMINAL		TIME ATTENDANCE TERMINAL	
Model	DS-K1T105E	DS-K1T105E-C	DS-K1T201EF-C	DS-K1T201MF-C	DS-K1T804MF	DS-K1T804EF
Uplink Communication Interface	TCP/IP, Wi-Fi	TCP/IP, Wi-Fi	TCP/IP, Wi-Fi	TCP/IP, Wi-Fi	TCP/IP	TCP/IP
Card Reader Mode	Wiegand26/34, RS-485	Wiegand26/34, RS-485	Wiegand26/34, RS-485	Wiegand26/34, RS-485	Wiegand(w26/w34)	Wiegand(w26/w34)
Downlink Communication Interface	RS-485 and Wiegand (w26/w34)	RS-485 and Wiegand (w26/w34)	RS-485 and Wiegand (w26/w34)	RS-485 and Wiegand (w26/w34)	RS-485 (For Secure Door Control Unit), Wiegand Input(Wiegand 26/34)	RS-485 (For Secure Door Control Unit), Wiegand Input(Wiegand 26/34)
Storage Max Cards Number	100,000	100,000	100,000	100,000	3,000	3,000
Storage Max Events Number	300,000	300,000	300,000	300,000	100,000	100,000
Fingerprint Capacity	---	---	9500	9500	3,000	3,000
Fingerprint Recognition Duration	---	---	1:1≤1s, 1:1000≤1s	1:1≤1s, 1:1000≤1s	< 1s	< 1s
FAR (False Accept Rate)	---	---	≤0.001%	≤0.001%	≤0.001%	≤0.001%
FRR (False Rejection Rate)	---	---	≤0.01%	≤0.01%	≤0.01%	≤0.01%
Camera	---	2 MP	2 MP	2 MP	---	---
Support SD Card	Max.32G	Max.32G	Max.32G	Max.32G	---	---
Card Reading Mode	EM	EM	EM	Mifare	Mifare	EM
LED Indicator	Power/Communication	Power/Communication	Power/Communication	Power/Communication	Power/Status (Red/Green), Key Back Light(White)	Power/Status (Red/Green), Key Back Light(White)
Face detection and picture capturing	---	Yes	Yes	Yes	---	---
Input Interface	Exit Button *1, Door Sensor*1, Alarm *2	Exit Button *1, Door Sensor*1, Alarm *2	Exit Button × 1, Door Sensor × 1, Relay × 1, Alarm × 2	Exit Button × 1, Door Sensor × 1, Relay × 1, Alarm × 2	Exit Button × 1, Door Sensor × 1, Alarm Input × 1	Exit Button × 1, Door Sensor × 1, Alarm Input × 1
Output Interface	Doorbell×1, Relay×1	Doorbell×1, Relay×1	Doorbell×1, Relay×1	Doorbell×1, Relay×1	Relay (Lock Output) ×1, Doorbell Output ×1 and Alarm Output ×1	Relay (Lock Output) ×1, Doorbell Output ×1 and Alarm Output ×1
USB	---	---	---	---	USB 2.0	USB 2.0
LCD screen	320×240 LCD-TFT	320×240 LCD-TFT	320×240 LCD-TFT	320×240 LCD-TFT	320×240 LCD-TFT	320×240 LCD-TFT
Audio	Loudspeaker	Loudspeaker	Loudspeaker	Loudspeaker	1 Buzzer and 1 Loudspeaker	1 Buzzer and 1 Loudspeaker
Key Board	17 Keys (0 to 9, F1, F2, DEL, Switch Key, *, #, Doorbell)	17 Keys (0 to 9, F1, F2, DEL, Switch Key, *, #, Doorbell)	17 Keys (0 to 9, F1, F2, DEL, Switch Key, *, #, Doorbell)	17 Keys (0 to 9, F1, F2, DEL, Switch Key, *, #, Doorbell)	Back light	Back light
Protection Level	---	---	---	---	IP42	IP42
Tampering/Duress Alarm	Support/Support	Support/Support	Support/Support	Support/Support	Support/Support	Support/Support
Reports automatically	---	---	---	---	Support	Support
Working Temperature	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°F)	-20°C to 65°C (-4°F to 149°F)	-10°C to 55°C (14°F to 131°F)	-10°C to 55°C (14°F to 131°F)
Working Humidity	10% to 90% (No Condensing)	10% to 90% (No Condensing)	10% to 90% (No Condensing)	10% to 90% (No Condensing)	10% to 90% (No Condensing)	10% to 90% (No Condensing)
Working Voltage	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V
Power Dissipation (with Load)	500mA(without Locks)	500mA(without Locks)	500mA(without Locks)	500mA(without Locks)	1A (max)	1A (max)
Certification	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL

	EM CARD READER		MIFARE CARD READER		EM CARD READER	
	DS-K1107E	**DS-K1107EK**	**DS-K1107M**	**DS-K1107MK**	**DS-K1102E**	**DS-K1102EK**
Model						
Power Supply	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC
Fingerprint Capacity	---	---	---	---	---	---
FAR	---	---	---	---	---	---
FRR	---	---	---	---	---	---
Comparison Time	---	---	---	---	---	---
Card Type	EM	EM	Mifare	Mifare	EM	EM
Reading Range	≤5 cm	≤5 cm	≤5 cm	≤5 cm	≤5 cm	≤5 cm
ID Settings	DIP Switch	DIP Switch	DIP Switch	DIP Switch	DIP Switch	DIP Switch
Communication Interface	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)
Audio Alert	Beeper	Beeper	Beeper	Beeper	Beeper	Beeper
Keypad	-	12 Keys (0~9, *, #)	-	12 Keys (0~9, *, #)	-	12 Keys (0~9, *, #)
LED Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator
Working Temperature	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)
Working Humidity	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)
Tampering Alarm	Support	Support	Support	Support	Support	Support
Protection Level	IP65	IP65	IP65	IP65	IP64	IP64
Installing Method	Wall mounting	Wall mounting	Wall mounting	Wall mounting	Single Gang Box	Single Gang Box
Watchdog	Yes	Yes	Yes	Yes	Yes	Yes
Built-in electronic clock	-	-	-	-	-	-
Certifications	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL

	MIFARE CARD READER		VANDALPROOF MIFARE CARD READER		FINGERPRINT CARD READER			FINGERPRINT ENROLLMENT
Model	DS-K1102M	DS-K1102MK	DS-K1104M	DS-K1104MK	DS-K1201EF	DS-K1201MF	**Model**	DS-K1F820-F
Power Supply	12V DC	12V DC	12V DC	12V DC	DC 12V±10%	DC 12V±10%	**CPU**	Core: 32-bit
Fingerprint Capacity	---	---	---	---	9500	9500		
FAR	---	---	---	---	≤0.001%	≤0.001%	**Communication Interface**	USB2.0
FRR	---	---	---	---	≤0.01%	≤0.01%		
Comparison Time	---	---	---	---	≤1s	≤1s	**Fingerprint Scanner**	Optical, Red Backlight
Card Type	Mifare	Mifare	Mifare	Mifare	EM	Mifare/CPU		
Reading Range	≤5cm	≤5cm	≤5cm	≤5cm	≤100mm (≤3.94")	≤100mm (≤3.94")	**FAR**	< 0.001 %(Security Level: 3)
ID Settings	DIP Switch	DIP Switch	DIP Switch	DIP Switch	---	---		
Communication Interface	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485 / Wiegand (DIP Switch)	RS-485	RS-485	**FRR**	< 0.1 %(Security Level: 3)
Audio Alert	Beeper	Beeper	Beeper	Beeper	Buzzer	Buzzer		
Keypad	---	12 Keys (0~9, *, #)	---	12 Keys (0~9, *, #)	---	---	**Working Temperature**	-30°C to +70°C (-22°F to 158°F)
LED Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power Indicator, Status Indicator	Power/Communication	Power/Communication		
Working Temperature	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-20°C to +65°C (-4°F to 149°F)	-40°C to +70°C (-40°F to +158°F)	-40°C to +70°C (-40°F to +158°F)	**Working Humidity**	20% to 80% (Non-Condensing)
Working Humidity	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	10% to 90% (Non Condensing)	**Definition**	508 dpi
Tampering Alarm	Support	Support	Support	Support	Support	Support		
Protection Level	IP64	IP64	IP65, IK10	IP65, IK10	IP65	IP65	**Plug and Play**	Support
Installing Method	Single Gang Box	Single Gang Box	Single Gang Box	Single Gang Box	Single Gang Box	Single Gang Box		
Certifications	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	FCC, CE, UL	**Scratch-resistant Senser**	Yes
Watchdog	Yes	Yes	Yes	Yes	Yes	Yes		
Built-in electronic clock	---	---	---	---	Yes	Yes	**Certifications**	FCC, CE, UL

Non-Video Solutions

CARD ENROLLMENT

Model	**DS-K1F100-D8E**
Card Reading Frequency	13.56MHz and 125KHz
Card Type	Standard IC Card, and ID (EM) Card
Protocol	ISO 14443 Type A/B Standard and ISO 7816 Standard
Interface	USB 2.0
Plug-and-play	Support
On-line upgrade	Support
Encryption	Support
LED Light	Indicates Power and the Communication Status
Working Temperature	-20°C to 65°C (4° F to 149° F)
Working Current	200mA
System	Support Windows, WinXP, Win7 and Win8
Certifications	FCC, CE, UL

SMART SECURE UNIT

Model	**DS-K2M060**
Communication Interface	RS-485
Input / Output Interface	Exit Button*1, Lock*1, Door Magnetic*1, Alarm Out*1 and Wiegand*1
Indicator	7 Indicators (RS-485 Communication Status*2, Power Supply*1, Exit Button*1, Lock Status*1, Door Magnetic*1 and Running Status*1)
Tampering Alarm	Support
RS-485 communication indicator	Support
Card reader Interface	Wiegand
Power Supply	DC 12V
Working Temperature	-30°C to +55°C (-22°F to 131°F)
Working Humidity	10% to 90% (Non Condensing)
Installing Method	Wall Mounting
Certifications	FCC, CE, UL

IP DOOR STATION

Model	**DS-KV8102-IM**	**DS-KV8202-IM**	**DS-KV8402-IM**	**DS-KB8112-IM**
Camera	CMOS, Low Illumination, 1.3 MP HD, Color	CMOS, Low Illumination, 1.3 MP HD, Color	CMOS, Low Illumination, 1.3 MP HD, Color	CMOS, Low Illumination, 1.3 MP HD, Color, Day/Night
Video compression standard	H.264	H.264	H.264	H.264
Audio input & output	Support	Support	Support	Support
Internal card reader	Built-in IC Card Reader	Built-in IC Card Reader	Built-in IC Card Reader	---
Issues cards via door station	Up to Max. 256 cards	Up to Max. 256 cards	Up to Max. 256 cards	---
Door magnetic detection	Detects Door Magnetic Status	Detects Door Magnetic Status	Detects Door Magnetic Status	---
IR	Yes	Yes	Yes	Yes, 5 Meters
Remote Control	Yes	Yes	Yes	Yes
Ethernet	10/100 Mbps Self-Adaptive Ethernet	10/100 Mbps Self-Adaptive Ethernet	10/100 Mbps Self-Adaptive Ethernet	10/100 Mbps Self-Adaptive Ethernet
Network protocol	TCP/IP, RTSP	TCP/IP, RTSP	TCP/IP, RTSP	RTSP, RTP, ONVIF, ISAPI, NTP, HTTP, HTTPS, DHCP, FTP, SMTP
Alarm input	Door Magnetic Alarm, Tampering Alarm	Door Magnetic Alarm, Tampering Alarm	Door Magnetic Alarm, Tampering Alarm	Door Magnetic Alarm
RS-485	1 RS-485 Half-Duplex Port	1 RS-485 Half-Duplex Port	1 RS-485 Half-Duplex Port	---
I/O input	4	4	4	1
I/O output	1	1	1	1
Power supply	24V DC, Power Over Network Cable (KAD606-P), 12V DC	4V DC, Power Over Network Cable (KAD606-P), 12V DC	24V DC, Power Over Network Cable (KAD606-P), 12V DC	24VDC Proprietary PoE
Power consumption	≤12 W	≤12 W	≤12 W	≤12 W
Working temperature	-40° C to +70° C (-40° F to 158° F)	-40° C to +70° C (-40° F to 158° F)	-40° C to +70° C (-40° F to 158° F)	-30° C to +50° C (-22° F to 122° F)
Working humidity	10% to 90%	10% to 90%	10% to 90%	10% to 90%
Protection level	IP65	IP65	IP65	IK 9, IP 66
Certification	FCC, IC, CE, C-TICK, ROHS, REACH, WEEE, UL	FCC, IC, CE, C-TICK, ROHS, REACH, WEEE, UL	FCC, IC, CE, C-TICK, ROHS, REACH, WEEE, UL	FCC, CE, UL

Non-Video Solutions

IP INDOOR STATION

Model	DS-KH8300-T	DS-KH8301-WT
Camera	---	CMOS 0.3 MP, Mechanical Switch
Video compression standard	---	H.264
Camera Resolution	---	1024 x 600
Display screen	7-Inch Colorful TFT LCD	7-Inch Colorful TFT LCD
Display resolution	1024 × 600	1024 × 600
Audio input & output	Build-in	Built-in
Ethernet	10/100 Mbps Self-Adaptive Ethernet	10/100 Mbps Self-Adaptive Ethernet
Network protocol	TCP/IP, RTSP	TCP/IP, RTSP
Alarm input	8-ch Alarm Input Sensor	8-ch Alarm Input Sensor
Auto-upload alarm	Support	Support
RS-485	1 RS-485 Half-Duplex Port	1 RS-485 Half-Duplex Port
I/O output	2	2
Panic call	Support	Support
TF card (micro SD card)	TF Card, Support Max. 32GB	TF Card, Support Max. 32GB
Memory	256 M	256 M
Power supply	24V DC, Power Over Network Cable (KAD606-P), 12V DC	24V DC, Power Over Network Cable (KAD606-P), 12V DC
Working temperature	-10° C to + 55° C (14° F to 131° F)	-10° C to + 55° C (14° F to 131° F)
Working humidity	10% to 90%	10% to 90%
Certification	FCC, IC, CE, C-TICK, ROHS, REACH, WEEE, UL	FCC, IC, CE, C-TICK, ROHS, REACH, WEEE, UL

POWER & DATA DISTRIBUTOR

Model	DS-KAD606-P
Interface number	Eight 10/100 Mbps Interfaces
Interface type	RJ-45, Full/Half-Duplex, MDI/MDI-X Self-Adaptive
Standard	IEEE802.3, IEEE802.3u, IEEE802.3x
Processing type	Storing and Forwarding
Flow control	IEEE802.3x (Full-Duplex), Back Pressure (Half-Duplex)
VLAN technique	Support
Priority queue	4
MAC address list	8K
Internal buffer	1 Mbit
Power supply	24V DC (Power adapter included)
Power consumption	≤8 W
Working temperature	-10° C to 55° C (14° F to 131° F)
Working humidity	10% to 90%, No Condensation
Dimensions (L × W × H)	176 mm × 91 mm × 32 mm (69.3" × 35.8" × 12.6")
Certification	CE, FCC, UL

WI-FI VIDEO DOORBELL

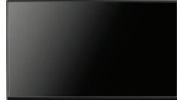| Model	NA-KB6013-WIP
Image sensor	CMOS 2 MP HD Colorful Camera
Lens	f1.96 mm, F 2.2
Field of view	180º (Horizontal), 96º (Vertical)
Video compression standard	H.264
Video streaming	Dual Stream
Anti-flicker frequency	50 Hz, 60 Hz
Wide dynamic range	WDR
Audio streaming	Two-Way, Full Duplex
Audio input & output	Built-in
IR	Supply, IR Distance: 5 Meters
Network protocol	TCP/IP, RTSP
Network interface	1 Wireless Interface (Wireless Network Card), Supporting 2.4 GHz
Motion Detection	Supported
Motion Detection Alarm	Supported
TF card	Max. 128 G
Ingress protection level	IP 54
Power supply	16 VAC to 24 VAC, Max. 0.6 A
Working temperature	-30° C to +50° C (-22° F to 122° F)
Working humidity	10% to 90%
Certification	FCC, CE, UL

Non-Video Solutions

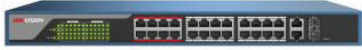|	TurboHD™ LOOPING PANEL		4K MONITOR	MONITORS		PVM MONITOR	MONITOR
Model	**DS-1TLP16I**	**Model**	**DS-D5055UL-B**	**DS-D5042FL**	**DS-D5032FL**	**DS-D5032FL-B**	**DS-D5022FC**
		Bezel Material	Metal	Metal	Metal	Metal	Plastic
Video in	16-ch, BNC connector	**Working Time**	7x24h	7x24 h	7x24 h	7x24h	7x24h
		Display Type	LCD Backlight	LED-Backlit TFT LCD	LED-Backlit TFT LCD	LED-Backlit TFT LCD	LED-Backlit TFT LCD
Signal format	CVBS, HDTVI and AHD	**Screen Size**	55"	42"	32"	31.5"	21.5"
		Pixel Pitch (H×V)	0.315mm*0.315mm	0.4845 mm × 0.4845 mm	0.3637 mm × 0.3637 mm	0.3637 mm × 0.3637 mm	0.248 mm × 0.248 mm
Video out	16-ch, BNC connector	**Max. Resolution**	3840×2160	1920×1080p	1920×1080p	1920×1080P	1920×1080
		Brightness	500cd/▯	400cd/m² (Typical)	400cd/m² (Typical)	400cd/m² (Typical)	250cd/m² (Typical)
		Contrast	1100:1	4000:1	4000:1	3000:1	1000:1
Loop out	16-ch, BNC connector	**Response Time**	8 ms	6.5 ms,	6.5 ms	6.5ms	5 ms
		Color	1.07B(10bit)	16.7 M	16.7 M	16.7M	16.7 M
Signal format	CVBS, HDTVI and AHD	**Viewing Angle**	1233.4 mm×706.8mm	Horizontal 178°, Vertical 178°	Horizontal 178°, Vertical 178°	Horizontal 178°, Vertical 178°	Horizontal 170°, Vertical 160°
		Inputs	2x HDMI, 1x VGA, DVI, CVBS, USB	1x HDMI, VGA, DVI, BNC, USB	1x HDMI, VGA, DVI, BNC, USB	1x HDMI, VGA, TVI, BNC, USB	1x HDMI, VGA, BNC, USB
		Outputs	1x CVBS	---	---	BNC	BNC
Transmission distance	CVBS, 720P: Up to 500 m (input and output cable combined) 1080P: Up to 300 m (input and output cable combined)	**Audio Input**	1 PC Audio-In	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack
		Audio Output	Support	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack	1, 3.5 mm mini-jack
		Speaker	8Ω, 5W *2	3 W x 2	3 W x 2	3 W x 2	2 W x 2
		Ratings	CE, FCC	CE, FCC	CE, FCC	UL,CE,FCC	CE, FCC
Power supply	1 × 12V DC (2-pin connector)/1 × USB	**Power Supply**	100-220 VAC, 50/60Hz	100-220 VAC, 50/60 Hz	100-220 VAC, 50/60 Hz	100-220 VAC, 50/60Hz or 24 VDC	DC 12V/3.0A
Power consumption	≤ 3.6 W	**Power Consumption**	≤ 100W (Normal working), ≤1W (Standby)	< 80W (on), < 1W (Standby)	75 W (Normal working), 1 W (Standby)	≤ 60 W (Normal working), 1W (Standby)	30 W (Normal working), 0.5 W (Standby)
		Operation Temperature	0°C ~ 40°C (32°F ~ 104°F)	0° C to 40° C	0° C to 40° C	0° to 40 °C	0° to 40 °C
Operating temperature	-10 °C to +55 °C (14 °F to 131 °F)	**Operating Humidity**	10%~90%	10% to 85% (No Condensation)	10% to 85% (No Condensation)	10% to 90% (No Condensation)	10% to 85% (No Condensation)
		Storage Temperature	-20°C ~ 60°C (-4°F~ 140°F)	-20° C to 55° C	-20° C to 55° C	-20° to 55°C	-20° to 60°C
Operating humidity	10% to 90%	**VESA Mount**	Not VESA compliant 300 mm x 200 mm	Not VESA compliant 394 mm x 307 mm	200 mm x 200 mm	200 mm × 200 mm	100 mm x 100 mm
		Table Mount	TBD	190115888	190115887	190115887	Included
Dimensions (W × D × H)	315 × 100 × 52 mm (12.4 × 3.9 × 2.0 in)	**Wall Mount**	TBD	190115893	190115892	190115892	190115892
		Dimension (W×H×D)	1246.93mm×725.23mm×79.9mm	962.2 × 570.5 × 71.55 mm (37.9" x 22.5" x 2.8")	737.4 × 452.5 × 70.65 mm (29" x 17.8" x 2.78")	737.4 × 452.5 × 70.7 mm (29.0" × 17.8" × 2.8")	511.4 × 313 × 45.4 mm (20.1 x 12.3" x 1.8")
Weight	≤ 1.5 kg (3.3 lb)	**Weight**	35Kg	28 Kg (62 lbs)	19 Kg (42 lbs)	19 Kg (42 lbs)	4.6 Kg (9.2 lbs)

PoE GIGABIT L2.5 ETHERNET SWITCHES · PoE UNMANAGED SWITCHES

	DS-3D2208P	DS-3D2228P	DS-3E0105P-E	DS-3E0109P-E	DS-3E0318P-E	DS-3E0326P-E
Model						
Ports	8p 10/100 Base-T, 2p 10/100/1000 Base-T, 2p 1000Mbps SFP, 1p console	24p 10/100 Base-T, 4p 10/100/1000 Base-T, 4p 1000Mbps SFP, 1p console	4p 10/100 Base-T, 1 uplink 10/100	8p 10/100 Base-T, 1uplink 10/100	16p 10/100 Base-T, 2 uplinks10/100/1000 2p 1000Mbps SFP	24p 10/100 Base-T, 2 uplinks 10/100/1000 2p 1000Mbps SFP
Forwarding	4.2 Mpps	9.6 Mpps	0.74Mpps	1.34Mpps	5.36Mpps	6.55Mpps
Backplane	5.6 Gbps	12.8 Gbps	1Gbps	1.8Gbps	7.2Gbps	8.8Gbps
PoE Budget	145 W (8 PoE or 4 PoE+)	370 W (24 PoE or 12 PoE+)	58W	123W	230W	370W
PoE Support	8 ports 802.3af (up to 15.4 W/port) or 5 ports 802.3at (up to 30 W/port)	24 ports 802.3af (up to 15.4 W/port) or 12 ports 802.3at (up to 30 W/port)	4 ports 802.3af (up to 15.4 W/port) or 2 ports 802.3at (up to 30 W/port)	8 ports 802.3af (up to 15.4 W/port) or 4 ports 802.3at (up to 30 W/port)	16 ports 802.3af (up to 15.4 W/port) or 8 ports 802.3at (up to 30 W/port)	24 ports 802.3af (up to 15.4 W/port) or 12 ports 802.3at (up to 30 W/port)
Standards	STP (IEEE 802.1D), RSTP (IEEE802.1w), MSTP (802.1S), VLAN (802.1Q), QinQ, GVRP, MULTICAST (IGMP SNOOPING V1/V2/V3),LACP, SNMP (V1/V2), RMON (GROUP 1/2/3/9) TELNET, SNTP, QOS. 1EEE802.1X, ACL (IP/MAC/VLAN), DHCP SNOOPING, DAI, ARP PREVENTION (STATIC/DYNAMIC), RADIUS, SSH.	STP (IEEE 802.1D), RSTP (IEEE802.1w), MSTP (802.1S), VLAN (802.1Q), QinQ, GVRP, MULTICAST (IGMP SNOOPING V1/V2/V3),LACP, SNMP (V1/V2), RMON (GROUP 1/2/3/9) TELNET, SNTP, QOS. 1EEE802.1X, ACL (IP/MAC/VLAN), DHCP SNOOPING, DAI, ARP PREVENTION (STATIC/DYNAMIC), RADIUS, SSH.	Unmanaged, Plug-and-play installation IEEE802.3x full duplex, Optimized packet buffering (2.75M) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)	Unmanaged, Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-2 (if switch is over capacity, 94 of 100 packets will route first here)	Unmanaged, Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-4(if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)	Unmanaged, Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-4(if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)
Operating Temperature Range	0° C to 50° Cw	0° C to 50° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C
Power Requirements	110 to 240 VAC, 170 W	110 to 240 VAC, 400 W	110 to 240 VAC, 63 W	110 to 240 VAC, 127 W	110 to 240 VAC, 170 W	110 to 240 VAC, 440 W

PoE WEB-MANAGED ETHERNET SWITCH

	DS-3E1310P-E	DS-3E1318P-E	DS-3E1326P-E
Model			
Ports	2p 10/100/1000 Base-T, 2p 1000Mbps SFP	16p 10/100 Base-T, 2 uplinks10/100/1000, 2p 1000Mbps SFP	24p 10/100 Base-T, 2 uplinks 10/100/1000, 2p 1000Mbps SFP
Forwarding	1.34Mpps	5.36Mpps	6.55Mpps
Backplane	1.8Gbps	7.2Gbps	8.8Gbps
PoE Budget	123W	230W	370W
PoE Support	8 ports 802.3af (up to 15.4 W/port) or 4 ports 802.3at (up to 30 W/port)	16 ports 802.3af (up to 15.4 W/port) or 8 ports 802.3at (up to 30 W/port)	24 ports 802.3af (up to 15.4 W/port) or 12 ports 802.3at (up to 30 W/port)
Standards	Web-managed(Web-managed: VLAN, Port Mirroring, SNMP), Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-2 (if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)	Web-managed(Web-managed: VLAN, Port Mirroring, SNMP), Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-4 (if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)	"Web- managed (Web-managed: VLAN, Port Mirroring, SNMP), Plug-and-play installation IEEE802.3x full duplex Optimized packet buffering (2.75M) Priority Queue on ports 1-4 (if switch is over capacity, 94of100 packets will route first here) Optional 250m extended transmission mode (PoE bandwidth reduced to 10Mbps per port by activating)
Operating Temperature Range	"0° C to 40° C,	"0° C to 40° C	0° C to 40° C
Power Requirements	110 to 240 VAC,127 W	110 to 240 VAC, 250 W	110 to 240 VAC, 440 W

Accessories

MEGAPIXEL AUTO IRIS LENSES

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

SURVEILLANCE GRADE HARD DRIVES / ENTERPRISE HARD DRIVES

	HK-HDD1T	HK-HDD2T	HK-HDD3T	HK-HDD4T	HK-HDD6T	HK-HDD8T	HK-HDD1T-E	HK-HDD2T-E	HK-HDD3T-E	HK-HDD4T-E	HK-HDD6T-E
Model											
Capacity	1 TB	2 TB	3 TB	4 TB	6 TB	8 TB	1 TB	2 TB	3 TB	4 TB	6 TB
Interface	SATA	SATA	SATA	SATA	SATA	SATA	SATA 6 Gb/sec.	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	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	24/7 continuous	24/7 continuous

HDD FOR STORAGE PRODUCTS / DVD-RW / MICRO SD CARD / HD-TVI MONITOR / HD-TVI CONVERTER / BALUN

	HDD-SAS4T	HDD-SAS6T	HIK-DVDRW	DS-UTF32G-H1	DS-UTF64G-H1	DS-TT-X41T	DS-1H33	DS-1H18
Model								
Description	4 TB HDD for DS-A82024D, DS-AJ6824D	6 TB HDD for DS-A82024D, DS-AJ6824D	DVD-RW option for NVR and DVR	32 GB uSD	64 GB uSD	Multifunction Video Tester, test a variety of video signals, including TurboHD, HDMI, CVBS, and VGA.	Converter from HD-TVI video signal to HDMI signal	Unshielded twisted pair (UTP) Baluns

Accessories

CAT5E CABLE / CAT6 CABLE

Model	DS-1LN5EU-B(W)	DS-1LN5EU-B(W)	DS-1LN6U-B(W)	DS-1LN6U-B(W)
Cable Type	CAT5E	CAT5E	CAT6	CAT6
Fireproof Grade	CMR	CMP	CMP	CMR
Material/Copper Content	Solid-Bare Copper/99.97%	Solid-Bare Copper/99.97%	Solid-Bare Copper/99.97%	Solid-Bare Copper/99.97%
Insulation Material	HDPE	FEP	FEP	HDPE
Sheath Material	PVC(complies RoHS), CMR	PVC(complies RoHS), CMP	PVC(complies RoHS), CMP	PVC(complies RoHS), CMR
Color	White	White	White	White
Ambient temperature	-20° C - 75° C	-20° C - 75° C	-20° C - 75° C	-20° C - 75° C
Length	1000' pull box	1000' pull box	1000' pull box	1000' pull box
Certification	UL, CMR	UL, CMR	UL, CMP	UL, CMP

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.)	12V DC, PSU included, 5 W (does not power camera)	12V DC, PSU included, 5 W (does not power camera)

KEYBOARDS

Model	DS-1005KI	DS-1006KI	DS-1100KI
RS-485	No	Yes	Yes
USB	Yes	Yes	Yes
Interface Port	USB 2.0	RS-232, RS-422, 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	N/A	128 x 64 pixel	7" TFT touchscreen at 800 x 480 resolution
Joystick	3-Axis	4-Axis	4-Axis
Resolution	N/A	N/A	1920x1080
Network	N/A	N/A	Yes
Power Requirements	5 VDC via USB (≤5 W)	12V DC (<4.5W)	12V DC (<15 W)

STORAGE EXPANSION

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

STORAGE PRODUCTS

	DS-A81016S	DS-A82024D
Model		
Controller/Processor	Single, 64-bitmulti-core processor	Double, 64-bitmulti-core processor
High-speed buffer	4 GB (expandable to 8G)	8 GB Per Controller (Can be expanded to 32G)
Video Input/Output	IPSAN: 180-ch (2 Mbps) CVR:320-ch (2 Mbps)	IPSAN: 256-ch (2 Mbps) CVR:448-ch (2 Mbps)
HDD slot	16	24
HDD interface	SATA / 1 TB, 2 TB, 3 TB, 4 TB, 6 TB	SAS / 1 TB, 2 TB, 3 TB, 4 TB, 6 TB (SSD is optional)
Hot-swap disk	Supported	Supported
RAID level	RAID 0, 1, 3, 5, 6,10,50, VRAID, JBOD, Hot-Spare	RAID 0, 1, 3, 5, 6,10,50, JBOD, Hot-Spare
Disk management	S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)	S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
LUN management	iSCSI Volume, Record Volume	iSCSI Volume, Record Volume
Data protection	Real-time backup of system information	Real-time backup of system information
Recording type	Continuous/Manual / Main and Sub Stream/ Motion /Sensor, etc.	Continuous/Manual / Main and Sub Stream/ Motion /Sensor, etc.
Recording backup	Localbackup; Remote backup	Localbackup; Remote backup
Recording protection	Lock key video file for protection, N+1 hot spare system, ANR,video loss alarm	Lock key video file for protection, N+1 hot spare system, ANR,video loss alarm
Search mode	By time / type	By time / type
Download mode	Quick download, batch download, segment download, merging download	Quick download, batch download, segment download, merging download
Device Management method	Web-based GUI, CLI serial port, integrated management of multiple units	Web-based GUI, CLI serial port, integrated management of multiple units
Alarm type	Sound, Flash LED, Email, SMS, Warning on device management page	Sound, Flash LED, Email, SMS, Warning on device management page
Log download	Auto-download by USB flash drive, Remotebackup via web browsing	Auto-download by USB flash drive, Remotebackup via web browsing
Network Protocol	RTSP / ONVIF / PSIA / iSCSI	RTSP / ONVIF / PSIA / iSCSI
External data port	2×1000M self-adaptive Ethernet interface	4×1000M self-adaptive Ethernet interface
Management port	1×100Mself-adaptive Ethernet interface	1×100Mself-adaptive Ethernet interface
SAS expansion port	1 (6 Gbps)	1 (6 Gbps)
VGA output	1	---
COM interface	2 (1 for hyper terminal and 1 for mobile phone alarm/UPS)	2 (1 for hyper terminal and 1 for mobile phone alarm/UPS)
USB interface	2	2
Power Supply	Redundant (1+1); single power available	Redundant (1+1); single power available
Power consumption	Max. 460 W (with HDD, redundant power); Max. 400 W (with HDD, single power)	Working Consumption: ≤ 380 (with HDD or DVD/RW Rating Power Consumption: ≤1050W
Temperature	Operating: +5 °C to +40 °C (41 °F to104 °F) Storing: -20 °C to +70 °C (-4 °F to 158 °F)	Operating: +5 °C to +35 °C (41 °F to 95 °F) Storing: -20 °C to +70 °C (-4 °F to 158 °F)

PTZ BRACKETS / STAINLESS STEEL BRACKETS

	WMP-S	WMP-L	CMP	PMP	JBPW-L	PMPL	CMPL	CPM-S	CPM-L	CPMPE	RPM	WBPT-S	WBPT	WMP-SS	CPM-SS	WMS-SS	JBM-SS	WB-SS
Model																		
Description	Short wall mount for 4" PTZ	Wall Mount PTZ-Long	Corner Mount for WMP-L and WMP-S	Pole Mount for WMP-L and WMP-S	PTZ Junction box with wall bracket	Pole Mount Large (for JBP-W)	Corner Mount Large (for JBP-W)	Ceiling Pendant Mount-Short	Ceiling Pendant Mount-Long	Ceiling Pendant Mount, extension pipe 1.5" diameter	Roof Parapet Mount	Wall Mount for DS-2DY5223IW-AE Upright PTZ	Wall Mount for DS-2DY9xxx Series Upright PTZs	Pendant Wall Mount for DS-2DT6223-AELY	Pendant Ceiling Mount for DS-2DT6223-AELY	Pendant Wall Mount for DS-2CD6626DS-IZHS	Medium Junction Box	Wall Mount for DS-2CD6626B Series

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

CAMERA HOUSING / BOX CAMERA BRACKETS / UNIVERSAL BRACKET FOR PENDANT CAPS / SUN/RAIN SHIELD / DVR/NVR

	CHB	CHB-HBW	CHB-HB	WBS	WBL	CPM	CPME	WMS*	WML	RPM	PM	PM1	CM	CM1	SRS*	SRSM	SRSL	WMR*
Model								*Black model WMSB				NEW		NEW	*Black model SRSB			
Description	Camera Housing with Bracket	Camera Housing with Bracket, Heater, Blower, Wiper	Camera Housing with Bracket, Heater, Blower	Suitable for box camera, wall Mount	Suitable for box camera and housing, wall mount	Camera Ceiling Pendant Mount	Camera Ceiling Pendant Mount, Extension Pipe 1" diameter	Short Wall Mount, junction box	Long Wall Mount, junction box	Roof Parapet Mount	Pole Mount Adapter	Pole Mount Adaptor for DS-2CD26x5/27x5FWD cameras	Corner Mount Adapter	Pole Mount Adaptor for DS-2CD26x5/27x5FWD cameras	Wall mount dome rain and sun protection	Medium for outdoor dome rain and sun protection	Large for outdoor dome rain and sun protection	Wall Mounted Bracket for DVR/NVR

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

CAMERA BRACKETS

	PC110*	PC110T*	PC120*	PC130*	PC130T*	PC135*	PC140*	PC140PT	PC155	PC160	PC165	PC210	PC-FE	CB110*	CB-130	CB135*	CB140PT	CB165	CB-FE
Model	*Black model PC110B	*Black model PC110TB	*Black model PC120B	*Black model PC130B	*Black model PC130TB	*Black model PC135B	*Black model PC140B		NEW					*Black model CB110B		*Black model CB135B			
Description	110 mm Pendant Cap	110TRS Pendant Cap	120 mm Pendant Cap	130 mm Pendant Cap	130TRL Pendant Cap	135 mm Pendant Cap	140 mm Pendant Cap	140 mm Pendant Cap for DS-2DE3304W-DE	155 mm Pendant Cap	160 mm Pendant Cap	165 mm Pendant Cap	210 mm Pendant Cap for DS-2CD6986F-H	Pendant Cap for fisheye	Conduit Base	Conduit Base	Conduit Base	Conduit Base for DS-2DE3304W-DE	Conduit Base	Conduit base for Fisheye

Compatible with WMS and WML — Compatible with WML

CAMERA BRACKETS

	CBM*	CBS*	CBXS*	CBT-1	AB110*	AB135*	AB165	AB-FE	AB-FE2	AB-FE45*	ABS*	ABM	RCM-1*	RCM-2*	RCM-3*	RCM-4	WM-C	WM110*	GP100
Model	*Black model CBMB	*Black model CBSB	*Black model CBSXB		*Black model AB110B	*Black model AB135B					*Black model ABSB		*Black model RCM-1B	*Black model RCM-2B	*Black model RCM-3B			*Black model WM110B	
Description	Conduit Base	Conduit Base	Conduit Base	Conduit Base	15° Angled Base	15° Angled Base	15° Angled Base	15° Angled Base for Fisheye	15° Angled Base for Fisheye	45° Angled Base for Fisheye	15° Angled Base DEGREE	15° Angled Base DEGREE	Recessed ceiling mount	Recessed ceiling mount	Recessed ceiling mount	Recessed ceiling mount*	Wall Mount Compact	Plastic Wall Mount	Single Gang Plate

*Recessed ceiling mount for DS-2DE3304W-DE

Accessories

BRACKET CHART

Accessories

Camera Model	PENDANT CAP													CONDUIT BASE											ANGLED BASE								RECESSED CEILING MOUNT				WALL MOUNT		SUN/RAIN SHADE			GP
	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC140PT	PC155	PC160	PC210	PC-FE	PC165	CB110	CB130	CB130T	CB135	CB140PT	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	AB-FE45	ABM	ABS	RCM-1	RCM-2	RCM-3	RCM-4	WM-C	WM110	SRS	SRSL	SRSM	GP100
PROFESSIONAL SOLUTIONS																																										
DS-2CD41xxFxx-IZ				●													●									●							●						●	●		
DS-2CD42xxFxx-IZHx*															●																											
DS-2CD43xxFWD-IZHSx										●																													●	●		
DS-2CD45xxFxx-IZHx													●						●								●												●			
DS-2CD4AxxFxx-IZHx*															●							●																				
DS-2CD63xxFxx-Ix												●								●									●	●												
DS-2CD6W32FWD-IVS																														●												
DS-2CD6986F-H											●																															
VALUE PLUS SOLUTIONS																																										
DS-2CD20xxWD-I																							●																			
DS-2CD21xxFWD-IS	●													●											●													●	●		●	
DS-2CD23x2WD-I					●																●										●											
DS-2CD25x2FWD-IS			●																																							
DS-2CD26x2FWD-IZS*															●							●																				
DS-2CD27x2FWD-IZS						●											●									●							●						●	●		
DS-2CD2Tx2WD-I															●							●																				
H.265+ CAMERA																																										
DS-2CD20x5FWD-I																							●																			
DS-2CD21x5FWD-I	●													●											●													●	●		●	
DS-2CD23x5FWD-I					●																●										●											
DS-2CD29x5FWD-IS																													●								●					
DS-2CD2Tx5FWD-I5																						●																				
DS-2CD26x5FWD-IZS*															●																											
DS-2CD27x5FWD-IZS									●																																	
DS-2CD2Hx5FWD-IZS						●																				●																
VALUE SOLUTIONS																																										
DS-2CD20xxxx-I																							●																			
DS-2CD21x2Fxx-I	●													●											●														●		●	
DS-2CD22x2-I5															●							●																				
DS-2CD23x2xx-I					●																●										●											
DS-2CD25xxF-xx			●																																							
DS-2CD26x2F-I*															●							●																				

*Includes CB130 conduit base
GP = Gang Plate

79

BRACKET CHART

Camera Model	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC140PT	PC155	PC160	PC210	PC-FE	PC165	CB110	CB130	CB130T	CB135	CB140PT	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	AB-FE45	ABM	ABS	RCM-1	RCM-2	RCM-3	RCM-4	WM-C	WM110	SRS	SRSL	SRSM	GP100
VALUE																																										
DS-2CD2942F-IS																													•								•					
DS-2CD27x2Fxx-I						•											•									•							•						•	•		
DS-2DE3304W-DE								•										•																		•						
Wi-Fi SOLUTIONS																																										
DS-2CD21x2F-IWS	•													•																												
DS-2DE2103-DE3/W																																					•					
DS-2DE2202I-DE3/W																																					•					
DS-2CD25x2FWD-IWS			•																																							
TurboHD™ | ANALOG MIGRATION SOLUTIONS																																										
DS-2CE16C2T-IR																							•																			
DS-2CE16C5T-IT1															•																											
DS-2CE16C5T-VFIR3															•							•																				
DS-2CE16xxT-xxxxxx																						•																				
DS-2CE16D1T-IT1																							•																			
DS-2CE16D1T-IR																							•																			
DS-2CE16D5T-IT3																							•																			
DS-2CE16D9T-AIRAZH															•							•																				
DS-2CE56C2T-IRM		•																					•																			
DS-2CE56C5T-AVFIR				•																															•				•	•		
DS-2CE56C5T-AVPIR3							•																											•					•	•		
DS-2CE56C5T-IT1					•																										•											
DS-2CE56C5T-VFIT3					•																•										•											
DS-2CE56D1T-AVFIR				•																															•				•	•		
DS-2CE56D1T-AVPIR3							•																											•					•	•		
DS-2CE56D1T-IT1		•																				•										•										
DS-2CE56D1T-IRM		•																					•																			
DS-2CE56D1T-VPIR	•													•											•													•	•		•	
DS-2CE56D5T-AIRZ				•																															•				•	•		
DS-2CE56D5T-AVFIR				•																															•				•	•		
DS-2CE56D5T-AVPIR3							•																											•					•	•		
DS-2CE56D5T-AVPIR3ZH							•																											•					•	•		

PENDANT CAP: PC110, PC110T, PC120, PC130, PC130T, PC135, PC140, PC140PT, PC155, PC160, PC210, PC-FE, PC165
CONDUIT BASE: CB110, CB130, CB130T, CB135, CB140PT, CB165, CB-FE, CBM, CBS, CBXS, CBT-1
ANGLED BASE: AB110, AB135, AB165, AB-FE, AB-FE2, AB-FE45, ABM, ABS
RECESSED CEILING MOUNT: RCM-1, RCM-2, RCM-3, RCM-4
WALL MOUNT: WM-C, WM110
SUN/RAIN SHADE: SRS, SRSL, SRSM
GP: GP100

GP = Gang Plate

Camera Model	PENDANT CAP													CONDUIT BASE											ANGLED BASE								RECESSED CEILING MOUNT				WALL MOUNT		SUN/RAIN SHADE			GP
	PC110	PC110T	PC120	PC130	PC130T	PC135	PC140	PC140PT	PC155	PC160	PC210	PC-FE	PC165	CB110	CB130	CB130T	CB135	CB140PT	CB165	CB-FE	CBM	CBS	CBXS	CBT-1	AB110	AB135	AB165	AB-FE	AB-FE2	AB-FE45	ABM	ABS	RCM-1	RCM-2	RCM-3	RCM-4	WM-C	WM110	SRS	SRSL	SRSM	GP100
DS-2CE56D5T-IR3Z					●																●										●											
DS-2CE56D5T-IT3					●																●										●											
DS-2CE56D5T-VFIT3					●																●										●											
DS-2CE56D7T-VPIT														●											●													●	●		●	
DS-2CE16D7T-IT																							●																			
DS-2CE56D7T-ITM		●																					●									●										
DS-2CE16D7T-IT5																							●																			
DS-2CE56D7T-IT3																							●																			
DS-2CE16D7T-AIT3Z																							●																			
DS-2CE56D7T-IT3Z					●																●											●										
DS-2CE56D7T-AITZ				●																															●				●	●		
DS-2CE56D7T-AVPIT3Z							●																			●								●					●	●		
DS-2CE56F7T-VPIT	●													●											●													●	●		●	
DS-2CE16F7T-IT																							●																			
DS-2CE56F7T-ITM		●																				●	●									●										
DS-2CE16F7T-IT5																							●																			
DS-2CE56F7T-IT3	●																					●										●										
DS-2CE16F7T-AIT3Z																						●																				
DS-2CE56F7T-IT3Z					●																●											●			●							
DS-2CE56F7T-AITZ				●																																			●	●		
DS-2CE56F7T-AVPIT3Z							●																			●								●					●	●		

TurboHD™ | ANALOG MIGRATION SOLUTIONS

GP = Gang Plate

Accessories

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

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

iVMS-4500 MOBILE CLIENT APPLICATION FOR SMARTPHONES AND TABLETS

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

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

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

HIKCONNECT P2P AND DDNS PLATFORM AND MOBILE APPS

HikConnect is a remote access platform and mobile app that is designed to allow quick set up of your security cameras for remote viewing via the internet on a smart phone, tablet, desktop PC, or web browser.

Feature	HikConnect P2P service	HikConnect DDNS service
Require HikConnect Account(s)	Yes	Yes
Port Forwarding* Required	No	Yes
Remote Configuration Permissions	1 Account	Multiple Accounts
Dual Authentication (HikConnect and Device)	No	Yes
Maximum Continuous Live Viewing per Camera	5 min	Unlimited
Number of Simultaneous Playback Streams	1	4
Ability to Connect via Internet Explorer Web Browser	No	Yes

iVMS Client Software

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