# THE ART/OF VIDEO SURVEILLANCE

GREAT PRODUCTS_ **GREATER PARTNERSHIPS**_

PRODUCT QUICK GUIDE

HIKVISION

## HIKVISION UNAUTHORIZED DISTRIBUTORS POLICY

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

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

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

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

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

## ABOUT HIKVISION

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

Fortified by one of the largest R&D teams in the video surveillance industry, the innovation behind these products quickly made Hikvision the No. 1 video surveillance equipment provider in the world, according to 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, and many others. Whatever the scope or requirements of the application, Hikvision has a user-friendly, highly scalable product to meet those needs.

In collaboration with L.A. Contemporary Dance Company (LACDC)

**THE ART/OF VIDEO SURVEILLANCE**

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

VALUE PLUS SERIES OUTDOOR DOME
DS-2CD2142FWD-ISB
PAGE 24

## DEALER PARTNER PROGRAM

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

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

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

# Real Value to Integrator Partners

Hikvision has a highly experienced team of sales, engineering,
and technical support professionals that specialize in their local markets.

### RETAIL

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

### EDUCATION

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

### CRITICAL INFRASTRUCTURE

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

# Meeting the Needs of the Education Market

Architects and engineers (A&Es), as well as other consultants, are important players in the education market. They work directly with a school system after the need for a new project has been identified, whether it's a new system in an existing school or even a new school. Manufacturers like Hikvision work closely with the A&E community to educate them on available technology choices and how they can fit in an education project. In some cases, architects include specific product choices in their system and facility designs.

Excerpt from *Video Surveillance: Lessons from the Education Market* by Larry Anderson, editor SourceSecurity.com

Download white papers and more at Hikvision.com

# Solutions for Challenging Environments

Hikvision is proud to offer a new range of smart Pro Series products that were developed to address the more challenging requirements and environments associated with surveillance for critical infrastructure.

180 and 360 deg
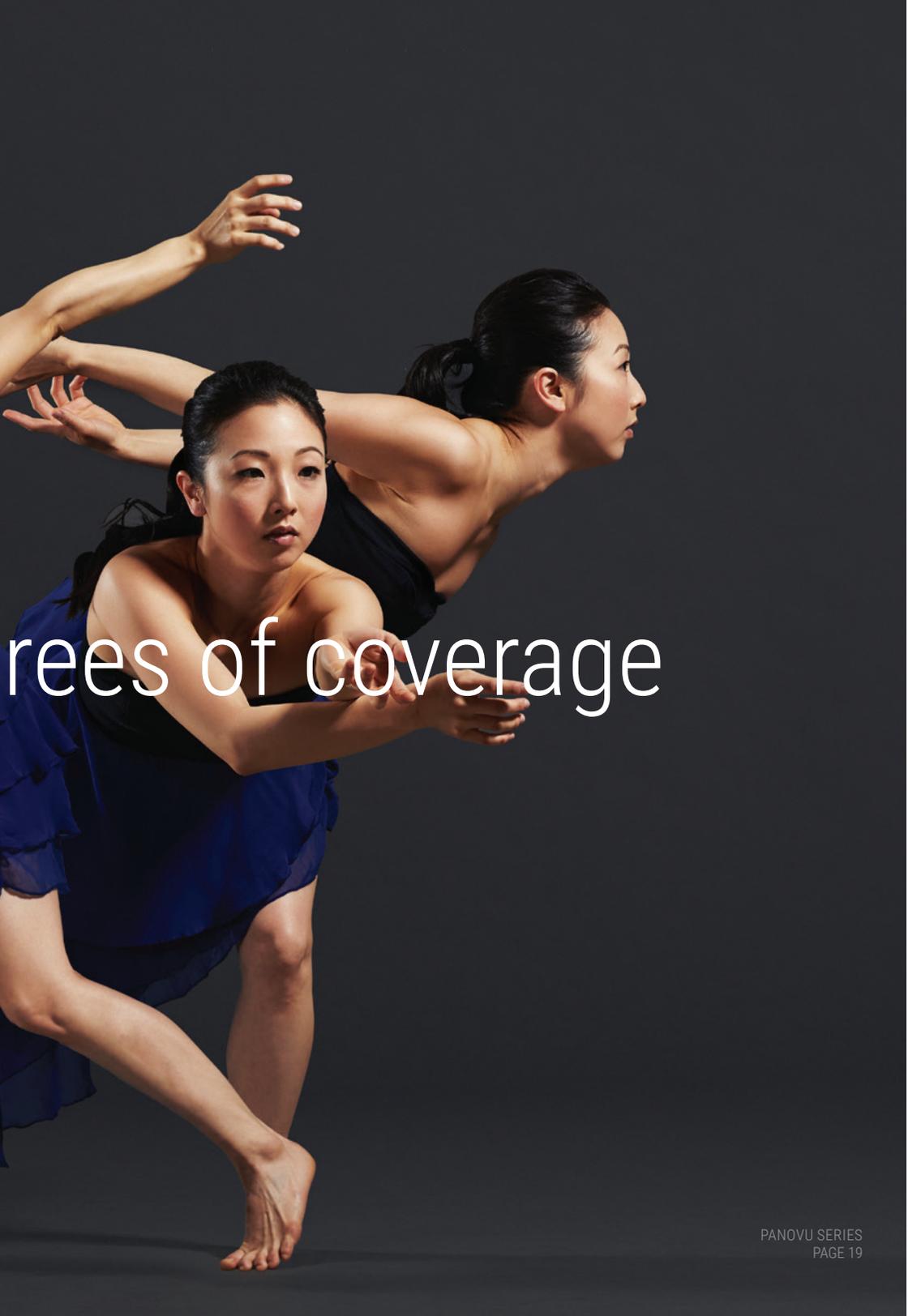
# rees of coverage

## Secure Large Areas

The PanoVu Multi-Imager camera systems from Hikvision represent a unique surveillance tool for large open areas, traffic circles or intersections, and any application looking to surveil a large public or private area with the least impact on infrastructure.

PanoVu

# Several choices for networked IP products

**Smart Pro IP Solutions**

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

**Value Plus Series and Value Series**

Hikvision announces a new line of cameras featuring its latest compression technology: H.265+ (page 22). 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. This new line of cameras includes 2-, 3-, 5- and 8-MP resolution models.  Also new is the improved IR technology  EXIR 2.0  along with new low-light technology, 120 dB WDR, Smart analytics, and IP67 protection. Hikvision continues to advance industry technology with the Art of Video Surveillance.

BOX CAMERA

| Model | DS-2CD4012FWD-A | DS-2CD6026FHWD-A | DS-2CD6026FHWD-A3/A7/A11 | DS-2CD4025FWD-A | DS-2CD4032FWD-A | DS-2CD4065F-A | DS-2CD4085F-AP |
|---|---|---|---|---|---|---|---|
| | *Lens NOT included* — 1.3 MP | *Lens NOT included* — 2 MP | *Lens NOT included* — 2 MP | *Lens NOT included* — 2 MP | *Lens NOT included* — 3 MP | *Lens NOT included* — 6 MP | *Lens NOT included* — 4K |
| Image Sensor | 1/3" progressive scan CMOS | 1/1.8" progressive scan CMOS | 1/1.8" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/3" progressive scan tCMOS | 1/1.8" progressive scan CMOS | 1/1.7" progressive scan CMOS |
| Min. Illumination (lux) | Color: 0.01 @ ƒ/1.2 B/W: 0.001 @ ƒ/1.2 | Color: 0.001 @ ƒ/1.2 B/W: 0.0001 @ ƒ/1.2 | Color: 0.0016 @ ƒ/1.5 B/W: 0.00016 @ ƒ/1.5 | Color: 0.005 @ ƒ/1.2 B/W: 0.0005 @ ƒ/1.2 | Color: 0.1 @ ƒ/1.2 B/W: 0.01 @ ƒ/1.2 | Color: 0.02 @ ƒ/1.2 B/W: 0.002 @ ƒ/1.2 | Color: 0.01 @ ƒ/1.2 B/W: 0.001 @ ƒ/1.2 |
| Lens | Auto back focus, C/CS mount | Auto back focus, C/CS mount | A3: 3.8 to 16 mm ƒ/1.5 A7: 7 to 33 mm ƒ/0.95 A11: 11 to 40 mm ƒ/1.5 Auto back focus, C/CS mount | Auto back focus, C/CS mount | Auto back focus, C/CS mount | Auto back focus, C/CS mount | Auto back focus, C/CS mount |
| Horizontal Angle of View | Lens dependent | Lens dependent | Lens dependent | Lens dependent | Lens dependent | Lens dependent | Lens dependent |
| Pan/Tilt/Rotation | --- | --- | --- | --- | --- | --- | --- |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/140 dB | Yes/120 dB | Yes/Digital | Yes/Digital |
| IR Range Max. (meters) | --- | --- | --- | --- | --- | --- | --- |
| Video Compression | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG |
| Maximum Image Resolution (pixels) | 1280x960 | 1920x1080 | 1920x1080 | 1920x1080 | 2048x1536 | 3072x2048 | 4096x2160 |
| Frame Rate (fps) | 30 @ 1280x960 (60 @ 1280x720 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) | 30 @ 1920x1080, 1280x720 20 @ 2048x1536 | 24 @ 3072x2048 30 @ 2560×2048, 2560×1920, 2048x1536, 1920x1080, 1280x720 | 22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720 |
| Multi-Streaming | Triple | Triple | Triple | Triple | Triple | Triple | Triple |
| Smart Features | Full Smart Suite[1] | Full Smart Suite[1] except Counting | Full Smart Suite[1] except Counting | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] |
| Motion Detection | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Input/Output | IN: 1 line/mic OUT: 1 line MIC: Built in | IN: 1 line/mic OUT: 1 line MIC: Built in | IN: 1 line/mic OUT: 1 line MIC: Built in | IN: 1 line/mic OUT: 1 line MIC: Built in | IN: 1 line/mic OUT: 1 line MIC: Built in | IN: 1 line/mic OUT: 1 line MIC: Built in | IN: 1 line/mic OUT: 1 line MIC: Built in |
| Alarm Input/Output | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Local Storage | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| Ratings | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed |
| Operating Temperature Range | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| Power Requirements (max.) | 24 VAC, 12 VDC, PoE (802.3af), 8.5 W | 24 VAC, 12 VDC, PoE (802.3af), 12 W | 24 VAC, 12 VDC, PoE (802.3af), 12 W | 24 VAC, 12 VDC, PoE (802.3af), 8.5 W | 24 VAC, 12 VDC, PoE (802.3af), 10 W | 24 VAC, 12 VDC, PoE (802.3af), 8 W | 24 VAC, 12 VDC, PoE (802.3af), 8 W |

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

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

PROFESSIONAL SOLUTIONS

smart IPC

|  | INDOOR DOME |  |  |  |  |  | OUTDOOR BULLET |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | DS-2CD4112FWD-IZ (1.3 MP) | DS-2CD4125FWD-IZ (LightFighter, 2 MP) | DS-2CD4132FWD-IZ (3 MP) | DS-2CD4165F-IZ (6 MP) | DS-2CD4185F-IZ (4K) | DS-2CD41C5F-IZ (12 MP) | DS-2CD4212FWD-IZH (1.3 MP) | DS-2CD4212FWD-IZH8 (1.3 MP) | DS-2CD4A24FWD-IZH (EXIR, 2 MP) | DS-2CD4A25FWD-IZH (LightFighter EXIR, 2 MP) | DS-2CD4A25FWD-IZH8 (LightFighter EXIR, 2 MP) |
| **Image Sensor** | 1/3" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/3" progressive scan CMOS | 1/1.8" progressive scan CMOS | 1/1.7" progressive scan CMOS | 1/1.7" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/2.8" progressive scan CMOS |
| **Min. Illumination (lux)** | Color: 0.014 @ 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 | 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 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: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR | Color: 0.014 lux @ ƒ/1.4 B/W: 0 lux with IR |
| **Lens** | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus | 4.7-94 mm @ F1.4 motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus |
| **Horizontal Angle of View** | 98.4° to 30.2° | 113° to 33.8° | 91.2° to 28.3° | 94.5° to 30.5° | 96.0° to 32.6° | 93.6° to 31.8° | 98.4° to 30.2° | 27.8° to 9.1° | 53.8° to 3.1° | 98.4° to 30.2° | 27.8° to 9.1° |
| **Pan/Tilt/Rotation** | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/120 dB | Yes/140 dB | Yes/120 dB | Yes/Digital | Yes/Digital | Yes/Digital | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/140 dB | Yes/140 dB |
| **IR Range Max. (meters)** | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 80 | 120 | 50 | 100 |
| **Video Compression** | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MPEG4/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG |
| **Maximum Image Resolution (pixels)** | 1280x960 | 1920x1080 | 2048x1536 | 3072x2048 | 4096x2160 | 4000x3000 | 1280x960 | 1280x960 | 1920x1080 | 1920x1080 | 1920x1080 |
| **Frame Rate (fps)** | 30 @ 1280x960 (60 @1280x720 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720 | 22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720 | 15 @ 4000x3000 22 @ 4096x2160 24 @ 3840x2160 30 @ 3072x1728, 2560x1440, 1920x1080, 1280x720 | 30 @ 1280x960 (60 @ 1280x720 with WDR off) | 30 @ 1280x960 (60 @ 1280x720 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) |
| **Multi-Streaming** | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple |
| **Smart Features** | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | --- | --- | --- | --- | --- |
| **Alarm Input/Output** | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | --- | --- | --- | --- | --- |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | IK10, UL/cUL Listed | IK10, UL/cUL Listed | IK10, UL/cUL Listed | IK10, UL/cUL Listed | IK10, UL/cUL Listed | IK10, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed |
| **Operating Temperature Range** | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 10.5 W | 12 VDC, PoE (802.3af), 10 W | 12 VDC, PoE (802.3af), 11.5 W | 12 VDC, PoE (802.3af), 12.5 W | 12 VDC, PoE (802.3af), 13 W | 12 VDC, PoE (802.3af), 13 W | 12 VDC, PoE+ (802.3at), 12 W | 12 VDC, PoE+ (802.3at), 12 W | 12 VDC, PoE+ (802.3at), 15.5 W | 12 VDC, PoE+ (802.3at), 15.5 W | 12 VDC, PoE+ (802.3at), 15.5 W |

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

**PROFESSIONAL SOLUTIONS**

smart IPC

OUTDOOR BULLET | OUTDOOR DOME

| Model | DS-2CD4A26FWD-IZH | DS-2CD4A26FWD-IZH8 | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | DarkFighter EXIR — 2 MP | DarkFighter EXIR — 2 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 6 MP | EXIR — 4K | EXIR — 12 MP | 1.3 MP | 1.3 MP | 2 MP | 2 MP |
| Image Sensor | 1/1.8" progressive scan CMOS | 1/1.8" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/1.8" progressive scan CMOS | 1/1.7" progressive scan CMOS | 1/1.7" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/2.8" progressive scan CMOS |
| Min. Illumination (lux) | Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR | Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR |
| Lens | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus |
| Horizontal Angle of View | 92° to 32° | 28° to 12° | 105° to 32° | 29.7° to 9.7° | 94.5° to 30.5° | 96.0° to 32.6° | 93.6° to 31.8° | 98.4° to 30.2° | 27.8° to 9.1° | 113° to 33.8° | 31.2° to 10.2° |
| Pan/Tilt/Rotation | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/Digital | Yes/Digital | Yes/Digital | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| IR Range Max. (meters) | 50 | 100 | 50 | 100 | 50 | 50 | 50 | 30 | 50 | 30 | 50 |
| Video Compression | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG |
| Maximum Image Resolution (pixels) | 1920x1080 | 1920x1080 | 2048x1536 | 2048x1536 | 3072x2048 | 4096x2160 | 4000x3000 | 1280x960 | 1280x960 | 1920x1080 | 1920x1080 |
| Frame Rate (fps) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @1920x1080 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @1920x1080 with WDR off) | 30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off) | 30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off) | 24 @ 3072x2048, 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720 | 22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720 | 15 @ 4000x3000 22 @ 4096x2160 24 @ 3840x2160 30 @ 3072x1728, 2560x1440, 1920x1080, 1280x720 | 30 @ 1280x960 (60 @ 1280x720 with WDR off) | 30 @ 1280x960 (60 @ 1280x720 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) |
| Multi-Streaming | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple |
| Smart Features | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] except Audio feature | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] |
| Motion Detection | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Input/Output | --- | --- | --- | --- | --- | --- | --- | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line |
| Alarm Input/Output | --- | --- | --- | --- | --- | --- | --- | 2/2 | 2/2 | 2/2 | 2/2 |
| Local Storage | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| Ratings | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed |
| Operating Temperature Range | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) |
| Power Requirements (max.) | 12 VDC, PoE+ (802.3at), 21 W | 12 VDC, PoE+ (802.3at), 21 W | 12 VDC, PoE+ (802.3at), 15.5 W | 12 VDC, PoE+ (802.3at), 15.5 W | 12 VDC, PoE+ (802.3at), 15.5 W | 12 VDC, PoE+ (802.3at), 15.5 W | 12 VDC, PoE+ (802.3at), 15.5 W | 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 |

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

smart IPC

| | OUTDOOR DOME | | | | | | | | MULTI-SENSOR | COUNTING CAMERA |
|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | DS-2CD4526FWD-IZH | DS-2CD4332FWD-IZHS | DS-2CD4332FWD-IZHS8 | DS-2CD4535FWD-IZH | DS-2CD4535FWD-IZH8 | DS-2CD4565F-IZH | DS-2CD4585F-IZH | DS-2CD45C5F-IZH | DS-2CD6986F-H | iDS-2CD6412FWD/C |
| | DarkFighter — 2 MP | 3 MP | 3 MP | 3 MP | 3 MP | 6 MP | 4K | 12 MP | DarkFighter — 8 MP | 1.3 MP |
| **Image Sensor** | 1/1.8" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/2.8" progressive scan CMOS | 1/1.8" progressive scan CMOS | 1/1.7" progressive scan CMOS | 1/1.7" progressive scan CMOS | 1/1.8" Progressive Scan CMOS | 1/3" Progressive Scan CMOS |
| **Min. Illumination (lux)** | Color: 0.0027 @ ƒ/1.4 B/W: 0 with IR | Color: 0.14 @ ƒ/1.4 B/W: 0 with IR | Color: 0.14 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.002 Lux @ ƒ/2.2, AGC ON | Color: 0.028 Lux @ ƒ/2.0, AGC ON B/W: 0.0028 Lux @ ƒ/2.0, AGC ON |
| **Lens** | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 8 to 32 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 5 mm × 4, adjustable, Pan 180°, Tilt: 78.4° | 2.1 mm @ ƒ/2.2 2.8 mm @ ƒ/2.0 |
| **Horizontal Angle of View** | 92° to 32° | 91.2° to 28.3° | 26° to 8.54° | 105° to 32° | 29.7° to 9.7° | 94.5° to 30.5° | 96.0° to 32.6° | 93.6° to 31.8° | 180° stiched image | 115° (2.1 mm) 92.5° (2.8 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 355°/ 0° to 75°/0° to 355° | Pan: 0° to 360°, tilt: 45° to 90° | --- |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | Electronic |
| **BLC/WDR** | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/120 dB |
| **IR Range Max. (meters)** | 40 | 30 | 50 | 40 | 50 | 40 | 40 | 40 | --- | --- |
| **Video Compression** | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/ MPEG4/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264/MJPEG | H.264/MJPEG/MPEG4 |
| **Maximum Image Resolution (pixels)** | 1920x1080 | 2048x1536 | 2048x1536 | 2048x1536 | 2048x1536 | 3072x2048 | 4096x2160 | 4000x3000 | 4096 × 1800 | 1280x960 |
| **Frame Rate (fps)** | 30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off) | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1080 with WDR off) | 30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1080 with WDR off) | 24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720 | 22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080, 1280x720 | 15 @ 4000x3000 22 @ 4096x2160 24 @ 3840x2160 30 @ 3072x1728, 2560x1440, 1920x1080, 1280x720 | Mode 1: 30 @ 4096x1800, 3840x1680 Mode 2: 24 @ 2400x3840 30 @1200x1920 | 30 @ 1280x960, 1280x720 |
| **Multi-Streaming** | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Double | Triple |
| **Smart Features** | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | --- | Basic Smart Suite[2] |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line |
| **Alarm Input/Output** | 1/1 | 2/2 | 2/2 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | UL/cUL Listed |
| **Operating Temperature Range** | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -40° C to 60° C (-40° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| **Power Requirements (max.)** | 24 VAC, 12 VDC, PoE+ (802.3at), 17.5 W | 24 VAC, PoE (802.3af), 13 W | 24 VAC, PoE (802.3af), 13 W | 12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W | 12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W | 12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W | 12 VDC, 24 VAC, PoE+ (802.3at), 17.5 W | 12 VDC, 24 VAC, PoE+ (802.3at), 17 W | 24 VAC, PoE+ (802.3at), 22 W | 12 VDC, 7.5 W |

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

PROFESSIONAL SOLUTIONS

# High Definition 12 MP Cameras For Superior Detailed Imaging

Hikvision's new 12 MP High Definition (HD) cameras provide an amazing 4000x3000 pixel array for superior image definition and color rendition. Included in the line are the DS-2CD4AC5F-IZH Bullet camera with built-in motorized zoom lens, 120dB Wide Dynamic Range and EXIR IR illumination up to 50 meters (165 ft). An outdoor Dome camera, model DS-2CD45C5F-IZH also with motorized zoom lens and IR illumination up to 40 meters (130 ft). And the DS-2CD63C2F-IV Fisheye which offers full 180° and 360°(wall mounted) viewing. A stunning set of HD cameras well-suited to the most demanding applications where detailed images and clear identification of subjects is a must.

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

## smart IPC — NETWORK CAMERAS - SMART SERIES

| | ULTRA-WIDE PANORAMIC | INDOOR FISHEYE | OUTDOOR FISHEYE | INDOOR FISHEYE | OUTDOOR FISHEYE | |
|---|---|---|---|---|---|---|
| **Model** | DS-2CD6W32FWD-IVS (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 | 1/3" 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: 0.4 @ 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** | 2 mm @ ƒ/2.4 | 1.19 mm @ ƒ/2.0, Fisheye | 1.19 mm @ ƒ/2.0, Fisheye | 1.27 mm @ ƒ/2.8, Fisheye | 1.27 mm @ ƒ/2.8, Fisheye | 1.98 mm @ ƒ/2.4 |
| **Horizontal Angle of View** | 135°, 98° vertical (wall) | 180°/360° (wall) | 180°/360° (wall) | 180°/360° (wall) | 180°/360° (wall) | 180°/360° (wall) |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/120 dB | No/120 dB | No/120 dB | No/Digital | No/Digital | No/Digital |
| **IR Range Max. (meters)** | 15 | 15 | 15 | 15 | 15 | 15 |
| **Video Compression** | H.264 | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264+/H.264/MJPEG |
| **Maximum Image Resolution (pixels)** | 2048x1536 | 2048x1536 | 2048x1536 | 3072x2048 | 3072x2048 | 4000x3072 |
| **Frame Rate (fps)** | 30 @ 2048x1536 | Fisheye (FE): M: 1536x1536; S: 720x720 Panorama (P): M: 1600x1200; S: 704x480 ePTZ: M: 800x600 M1: 20 @ FE(M), 20 @ P(M), 20 @ ePTZ(M)×3 M2: 30 @ FE(M) OR 30 @ ePTZ(M)×4 M3: 30 @ FE(M), 30 @ FE(S), 15 @ePTZ(M)×3 M4: 30 @ P(M), 30 @ P(S) | Fisheye (FE): M: 1536x1536; S: 720x720 Panorama (P): M: 1600x1200; S: 704x480 ePTZ: M: 800x600 M1: 20 @ FE(M), 20 @ P(M), 20 @ ePTZ(M)×3 M2: 30 @ FE(M) OR 30 @ ePTZ(M)×4 M3: 30 @ FE(M), 30 @ FE(S), 15 @ ePTZ(M)×3 M4: 30 @ P(M), 30 @ P(S) | Fisheye (FE): M: 3072x2048; S: 720x720 Panorama (P): M: 2048x1536; S: 704x480 ePTZ: M: 1024x768 M1: 15 @ FE(M), 15 @ P(M), 15 @ 3XePTZ(M) M2: 30 @ FE(M) OR 30 @ 4XePTZ(M) M3: 15 @ FE (M), 15 @ FE (S), 15 @ 3X ePTZ(M) M4: 30 @ P(M), 30 @ P(S) | Fisheye (FE): M: 3072x2048; S: 720x720 Panorama (P): M: 2048x1536; S: 704x480 ePTZ: M: 1024x768 M1: 15 @ FE(M), 15 @ P(M), 15 @ 3XePTZ(M) M2: 30 @ FE(M) OR 30 @ 4XePTZ(M) M3: 15 @ FE (M),15 @ FE (S), 15 @ 3X ePTZ(M) M4: 30 @ P(M), 30 @ P(S) | Fisheye (FE): M: 4000x3072; S: 720x720. Panorama (P): M: 3072x2304; S: 704x576. ePTZ:M: 1600x1200. M1: 10 @ FE(M), 10 @ FE(S), 10 @ 3XePTZ(M). M2: 15 @ P(M), 15 @ P(S) M3: 15 @ 4XePTZ(M) M4: 20 @ FE(M), 25 @ FE(3072x3072), 15 @FE(S) |
| **Multi-Streaming** | Dual | Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4 | Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4 | Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4 | Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4 | Multi-Channel Mode; High Frame Rate Mode; Mode 3; Mode 4 |
| **Smart Features** | Basic Smart Suite[2], ROI | Intrusion Detection, Line Crossing | Intrusion Detection, Line Crossing | Intrusion Detection, Line Crossing | Intrusion Detection, Line Crossing | Intrusion Detection, Line Crossing |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | Built-in speaker and mic | Built-in speaker and mic | Built-in speaker and mic | Built-in speaker and mic | Built-in speaker and mic | Built-in speaker and mic |
| **Alarm Input/Output** | 1/1 | --- | --- | --- | --- | --- |
| **Local Storage** | MicroSD 64 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | IP66, IK10, UL/cUL Listed | UL/cUL Listed | IP67, IK10, UL/cUL Listed | UL/cUL Listed | IP67, IK10, UL/cUL Listed | IP67, IK10, UL/cUL Listed |
| **Operating Temperature Range** | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 12 W | 12 VDC, PoE (802.3af), 12.5 W | 12 VDC, PoE (802.3af), 12.5 W | 12 VDC, PoE (802.3af), 12 W | 12 VDC, PoE (802.3af), 12 W | 12 VDC/PoE (802.3af), 14.7 W |

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

smart IPC

**COVERT** | | | | | | | | | **HEIGHT STRIP**

| | DS-2CD6412FWD-C2 (Base Unit) | DS-2CD6412FWD-L10 (Lens/Sensor) | DS-2CD6412FWD-L20 (Lens/Sensor) | DS-2CD6412FWD-L30 (Lens/Sensor) | DS-2CD6424FWD-10 | DS-2CD6424FWD-20 | DS-2CD6424FWD-30 | DS-2CD6424FWD-40/E1 | DS-2CD6424FWD-40/E2 | DS-2CD6424FWD-20/E |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | *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 | --- | Fixed, 3.7 mm @ ƒ/2.3 | Fixed, 3.7 mm @ ƒ/2.3 | Fixed, 2.8 mm, 4 mm @ ƒ/2.0 | Fixed 3.7 mm @ f2.5, cylindrical pinhole | Fixed 3.7 mm @ f2.5, L-shaped, pinhole | Fixed 2.8 mm @ f2.0, Tube | Fixed 2.8 mm @ f2.0, Ball with Turret mount | Fixed 2.8 mm @ f2.0, Ball with In-ceiling mount | Fixed 3.7 mm @f2.5, L-shaped, pinhole |
| Horizontal Angle of View | Lens dependent | 57° | 57° | 92.5°, 73.1° | 65° | 65° | 115° | 109.4° | 109.4° | 78.5° |
| Day/Night | --- | Electronic | Electronic | Electronic | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | --- | No/120 dB | No/120 dB | No/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| IR Range Max. (meters) | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Video Compression | H.264/MPEG4/MJPEG | --- | --- | --- | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | --- |
| Maximum Image Resolution (pixels) | --- | 1280x960 | 1280x960 | 1280x960 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 |
| Frame Rate (fps) | 30 @ 1280x960, 1280x720 | --- | --- | --- | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 |
| Multi-Streaming | Triple Stream | --- | --- | --- | --- | --- | --- | --- | --- | Triple |
| Smart Features | Basic Smart Suite[2] | --- | --- | --- | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] + ROI, Defog |
| Motion Detection | Yes | --- | --- | --- | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Input/Output | IN: 1 line/mic OUT: 1 line | --- | --- | --- | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line |
| Alarm Input/Output | 1/1 | --- | --- | --- | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Local Storage | MicroSD, 128 GB max. | --- | --- | --- | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| Ratings | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed |
| Operating Temperature Range | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| Power Requirements (max.) | 12 VDC, PoE (802.3af), 8.5 W | Powered by Base Unit | Powered by Base Unit | Powered by Base Unit | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 6.5 W |

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

**PROFESSIONAL SOLUTIONS**

smart IPC

# NETWORK PTZ CAMERAS - SMART PRO SERIES

INDOOR     OUTDOOR

| | DS-2DF5220S-DE4/W | DS-2DF5276-AE3 | DS-2DF5286-AE3 | DS-2DF5276-AEL | DS-2DF5286-AEL | DS-2DF6236-AEL | DS-2DF6336V-AEL | DS-2DF7276-AEL | DS-2DF7286-AEL |
|---|---|---|---|---|---|---|---|---|---|
| **Model** | 2 MP | 1.3 MP | 2 MP | 1.3 MP | 2 MP | DarkFighter 2 MP | 3 MP | 1.3 MP | 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 | 1/2.8" progressive scan CMOS | 1/1.9" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/2.8" progressive scan CMOS |
| **Min. Illumination (lux)** | Color: 0.3 @ ƒ/1.6 B/W: 0.02 @ ƒ/1.6 | Color: 0.05 @ ƒ/1.6 B/W: 0.005 @ ƒ/1.6 | Color: 0.4 @ ƒ/1.6 B/W: 0.03 @ ƒ/1.6 | Color: 0.05 @ ƒ/1.6 B/W: 0.005 @ ƒ/1.6 | Color: 0.4 @ ƒ/1.6 B/W: 0.03 @ ƒ/1.6 | Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5 | Color: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6 | Color: 0.05 @ ƒ/1.6 B/W: 0.005 @ ƒ/1.6, 0 with IR | Color: 0.4 @ ƒ/1.6 B/W: 0.03 @ ƒ/1.6, 0 with IR |
| **Lens** | 4.7 to 94 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus | 4.5 to 162 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus |
| **Horizontal Angle of View** | 58.3° to 3.2° | 57.4° to 2.8° | 65.5° to 2.11° | 57.4° to 2.8° | 65.5° to 2.11° | 58.7° to 2.0° | 60.6° to 3.68° | 57.4° to 2.8° | 65.5° to 2.11° |
| **Optical Zoom (Digital Zoom)** | 20x (16x) | 30x (16x) | 30x (16x) | 30x (16x) | 30x (16x) | 36x (16x) | 36x (16x) | 30x (16x) | 30x (16x) |
| **Pan Range** | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless |
| **Tilt Range** | -30° to 90° (auto flip) | -5° to 90° (auto flip) | -5° to 90° (auto flip) | -5° to 90° (auto flip) | -5° to 90° (auto flip) | -15° to 90° (auto flip) | -15° to 90° (auto flip) | -2° to 90° (auto flip) | -2° to 90° (auto flip) |
| **Pan & Tilt Speed (Manual)** | Pan: 0.1° to 150°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec. | Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec. | Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec. | Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec. | Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec. | Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. |
| **Pan & Tilt Speed (Preset)** | Pan: 270°/sec. Tilt: 200°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/120 dB | Yes/120 dB | Yes/Digital | Yes/Digital |
| **Electronic Image Stabilization** | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes |
| **IR Range Max. (Meters)** | --- | --- | --- | --- | --- | --- | --- | 150 | 150 |
| **Smart Features/ Presets/Tours/Patterns** | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 |
| **Video Compression** | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 | H.264/MJPEG | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 |
| **Maximum Image Resolution (pixels)** | 1920x1080 | 1280x960 | 1920x1080 | 1280x960 | 1920x1080 | 1920x1080 | 2048x1536 | 1280x960 | 1920x1080 |
| **Frame Rate (fps)** | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280×720 | 30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off) | 30 @ 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | UL/cUL Listed | IK9, UL/cUL Listed | IK9, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP67, IK10, UL/cUL Listed | IP67, IK10, UL/cUL Listed | 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) | 24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F) | 24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F) | -40° C to 65° C (-40° F to 149° F) | -40° C to 65° C (-40° F to 149° F) | 24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F) | 24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F) |
| **Power Requirements (max.)** | 12 VDC, PoE+ (802.3at), 25 W, PoE injector included | 24 VAC, PoE+ (802.3at), 25 W, PoE injector included | 24 VAC, PoE+ (802.3at), 25 W, PoE injector included | 24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included | 24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included | 24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included | 24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included | 24 VAC, 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

**smart IPC**

OUTDOOR

| Model | DS-2DF8236I-AELW | DS-2DF8236I5W-AELW | DS-2DF8336IV-AELW | DS-2DF8836IV-AELW | DS-2DF8836I5V-AELW |
|---|---|---|---|---|---|
| | Wiper — NEW — 2 MP | Wiper — NEW — 2 MP | Wiper — 3 MP | Wiper — 4K | Wiper — NEW — 4K |
| Image Sensor | 1/1.9" progressive scan CMOS | 1/1.9" progressive scan CMOS | 1/3" progressive scan CMOS | 1/1.9" progressive scan CMOS | 1/1.9" progressive scan CMOS |
| Min. Illumination (lux) | Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5, 0 with IR | Color: 0.002 @ ƒ/1.5 B/W: 0.0002 @ ƒ/1.5, 0 with IR | Color: 0.05 @ ƒ/1.6 B/W: 0.01, 0 with IR | Color: 0.02 @ ƒ/1.5 B/W: 0.002 @ ƒ/1.5, 0 with IR | Color: 0.02 @ ƒ/1.5 B/W: 0.002 @ ƒ/1.5, 0 with IR |
| Lens | 5.7 to 205.2 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus |
| Horizontal Angle of View | 58.7° to 2.0° | 58.7° to 2.0° | 60.6° to 3.68° | 56.8° to 2.02° | 56.8° to 2.02° |
| Optical Zoom (Digital Zoom) | 36x (16x) | 36x (16x) | 36x (16x) | 36x (16x) | 36x (16x) |
| Pan Range | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless |
| Tilt Range | -20° to 90° (auto flip) | -20° to 90° (auto flip) | -20° to 90° (auto flip) | -20° to 90° (auto flip) | -20° to 90° (auto flip) |
| Pan & Tilt Speed (Manual) | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. |
| Pan & Tilt Speed (Preset) | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/Digital | Yes/Digital |
| Electronic Image Stabilization | No | Yes | No | No | No |
| IR Range Max. (Meters) | 200 | 500 | 200 | 200 | 500 |
| Smart Features/ Presets/Tours/Patterns | PTZ Suite[1]/ 300/8/4 | PTZ Suite[1]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[3]/ 300/8/4 | PTZ Suite[1]/ 300/8/4 |
| Video Compression | H.264/MJPEG/MPEG4 | H.264/MJPEG/MPEG4 | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG |
| Maximum Image Resolution (pixels) | 1920x1080 | 1920x1080 | 2048x1536 | 4096x2160 | 4096x2160 |
| Frame Rate (fps) | 30 @ 1920x1080, 1280x960, 1280×720 | 30 @ 1920x1080, 1280x960, 1280×720 | 30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off) | 24 @ 4096x2160 30 @3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720 | 24 @ 4096x2160 30 @ 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720 |
| Local Storage | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| Ratings | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed |
| Operating Temperature Range | -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 |

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

## FEATURED PRODUCT

# 4K (8 MP) Smart PTZ Dome with Extended IR

‹ DS-2DF8836I5V-AELW

After winning last year's 2016 ISC West New Product Showcase with the DS-2DF8836IV-AELW, Hikvision has introduced a longer range IR version capable of extending the nighttime reach of the PTZ's 36x lens to more than 1500 feet. Featuring laser IR illumination, the new DS-2DF8836I5V-AELW Ultra HD Smart PTZ dome provides many industry leading benefits, including Ultra HD 4K image detail in real time (30fps), Defog capability to improve imaging in foggy conditions, advanced Smart Suite analytics and Smart Tracking. The onboard VCA (video content analysis) includes line cross, intrusion, region entrance/exit and can send immediate alerts or trigger recording when events occur. Region of Interest encoding increases the camera's efficiency and can reduce storage and bandwidth requirements, making this camera as useful as it is cutting edge.

**PROFESSIONAL SOLUTIONS**

# Specialty Camera Solutions

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

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

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

## OUTDOOR DOME

| Model | DS-2CD6626DS-IZHS | DS-2CD6626BS-R | DS-2CD6626B/E-HIR5 | DS-2CD6626B/E-HIRA |
|---|---|---|---|---|
| | DarkFighter 2 MP | DarkFighter 2 MP (NEW) | DarkFighter 2 MP (NEW) | DarkFighter 2 MP (NEW) |
| Image Sensor | 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: 0.002 @ 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 @ ƒ/1.2, AGC On, 0 with IR | Color: 0.002 @ ƒ/1.2, AGC On B/W: 0.0002 @ ƒ/1.2, AGC On, 0 with IR |
| Lens | 2.8 to 12 mm @ ƒ/1.4, motorized, autofocus | 16 mm | 3.8 to 16 mm | 11 to 40 mm |
| Horizontal Angle of View | 92° to 32° | 25° | 100.6° to 27.3° | 35.8° to 11.2° |
| Pan/Tilt/Rotation | 0° to 355°/ 0° to 75°/0° to 355° | --- | --- | --- |
| Day/Night | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| IR Range Max (meters) | 30 | - | 50 | 100 |
| Video Compression | H.264/MPEG4/MJPEG | H.264/MPEG4/MJPEG | H.264/MPEG4/MJPEG | H.264/MPEG4/MJPEG |
| Max. Image Resolution (pixels) | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 |
| Frame Rate (fps) | 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 |
| Smart Features | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] | Full Smart Suite[1] |
| Image Enhancement | 3D DNR, EIS, Defog | 3D DNR, AWB, EIS, Defog | 3D DNR, AWB, EIS, Defog | 3D DNR, AWB, EIS, Defog |
| Motion Detection | Yes | Yes | Yes | Yes |
| Audio Input/Output | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line | IN: 1 line/mic OUT: 1 line |
| Alarm Input/Output | 1/1 | 1/1 | 1/1 | 1/1 |
| Local Storage | MicroSD 128 GB max. | No | MicroSD 128 GB max. | MicroSD 128 GB max. |
| Ratings | 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 | -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, 12 VDC, PoE (802.3af), 16 W | 24 VAC, 12 VDC, PoE (802.3af), 13 W | 24 VAC, 60 W | 24 VAC, 60 W |

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

## 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 @ f/1.5 AGC On |
| Lens | 5.9 to 135.7 mm, motorized zoom, autofocus |
| Horizontal Angle of View | 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 | TRUE |
| BLC/WDR | 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

SS Stainless Steel

# SPECIALTY PTZ AND MULTI-SENSOR PANOVU CAMERAS - SMART PRO SERIES

## OUTDOOR PTZ

| Model | DS-2DY5223IW-AE | DS-2DY9188-A | DS-2DY9188-AI2 | DS-2DY9188-AIA |
|---|---|---|---|---|
| | DarkFighter — 2 MP | DarkFighter — 2 MP | DarkFighter — 2 MP | DarkFighter — 2 MP (NEW) |
| Image Sensor | 1/1.9" progressive scan CMOS | 1/1.9" progressive scan CMOS | 1/1.9" progressive scan CMOS | 1/1.9" progressive scan CMOS |
| Min. Illumination (lux) | Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On, 0 with IR | Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On, 0 with IR | Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On, 0 with IR | Color: 0.002 @ ƒ/1.5, AGC On B/W: 0.0002 @ ƒ/1.5, AGC On, 0 with IR |
| Lens | 5.9 to 135.7 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus | 5.7 to 205.2 mm, motorized zoom, autofocus |
| Horizontal Angle of View | 59.8° to 3.0° | 58.7° to 2° | 58.7° to 2° | 58.7° to 2° |
| Optical Zoom (Digital Zoom) | 23x (16x) | 36x (16x) | 36x (16x) | 36x (16x) |
| Pan Range | 360° endless | 360° endless | 360° endless | 360° endless |
| Tilt Range | -90° 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 & Tilt Speed (Preset) | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. | Pan: 540°/sec. Tilt: 400°/sec. |
| Day/Night | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| Electronic Image Stabilization | Yes | Yes | Yes | Yes |
| IR Range Max. (Meters) | 150 | --- | 200 | 1000 (Laser) |
| Smart Features/Presets/Tours/Patterns | PTZ Suite[3]/300/8/4 | PTZ Suite[3]/256/8/4 | PTZ Suite[3]/256/8/4 | PTZ Suite[1]/300/8/4 |
| Video Compression | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG/MPEG4 |
| Maximum Image Resolution (pixels) | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 |
| Frame Rate (fps) | 30 @ 1920x1080, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 |
| Local Storage | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| Ratings | 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) |
| 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 |

## OUTDOOR PANOVU

| Model | DS-2DP1636Z-D | DS-2DP0818Z-D | DS-2DP1636-D |
|---|---|---|---|
| | 16 MP (NEW) | 8 MP (NEW) | 16 MP (NEW) |
| 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 | 5 mm (8), ƒ/2.2 | 5 mm (4), ƒ/2.2 | 4 mm (8), ƒ/1.8 |
| Horizontal Angle of View | 360° (2x180° stitched streams) at up to 4096x1800 @30 fps per stream | 180° stitched stream at up to 4096x1800 @30 fps | 360° (2x180° stitched streams) at up to 2400x3840 @25 fps per stream |
| Verical Angle of View / electronic PTZ | 80° / No | 80° / No | 180° / Yes |
| Stitched Image(s) linkage to PTZ | Yes, 3D intelligent positioning | Yes, 3D intelligent positioning | --- |
| PTZ Image Sensor | 1/1.9" Progressive Scan CMOS | 1/1.9" Progressive Scan CMOS | 1/1.9" Progressive Scan CMOS |
| PTZ Lens | 5.7 to 205 mm, 36x (16x digital) | 5.7 to 205 mm, 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, 2720x1192 PTZ: 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 |

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 Detection, Intrusion Detection, Region Entrance, Region Exiting, Sudden Audio Increase/Decrease Detection, Audio Loss Detection, Defog

# Thermal Camera Systems

Hikvision's Thermal Network Camera systems are designed for critical lowlight applications, including high security perimeters. These systems feature advanced analytics, including line cross, intrusion detection, and region entrance/exit, temperature exception alarms, and advanced fire detection.

The DS-2TD2136 and DS-2TD2166 Series Network Thermal Bullet Camera systems feature 384x288 or 640x512 resolution uncooled VOx (Vanadium Oxide) sensors with multiple lens options.

The DS-2TD2235 Series Network Bi-Spectrum Thermal/Optical Camera systems feature a 384x288 resolution uncooled VOx (Vanadium Oxide) sensor side-by-side with a 2 MP CMOS true Day/Night camera with matched FOV lens and 120 meter IR capability. With two unique cameras in the same enclosure, the DS-2TD2235 series reduces installation and infrastructure costs.

The DS-2TD4035 Series Network Bi-Spectrum Thermal/Optical PTZ Camera systems feature a 2 MP D/N camera (30x zoom/150 meter IR) and 384x288 resolution thermal. These cameras capture targets in any lighting condition, while the visible camera zooms to provide corresponding information - all in one easy to install package.

The DS-2TD6135 and DS-2TD6166 Series Network Bi-Spectrum Thermal/Optical PTZ Camera systems provide longer range thermal/optical capabilities.

**smart IPC**

## OUTDOOR BULLET

| Model | DS-2TD2136-10/15/25/35 | | | | DS-2TD2166-15/25/35 | | |
|---|---|---|---|---|---|---|---|
| | RESOLUTION: **Medium** NEW | | | | RESOLUTION: **High** NEW | | |
| Thermal Sensor | Vanadium Oxide UFPA | | | | Vanadium Oxide UFPA | | |
| Resolution | 384x288 | | | | 640x512 | | |
| Thermal Lens | 10 mm | 15 mm | 25 mm | 35 mm | 15 mm | 25 mm | 35 mm |
| Field of View (HxV) | 36°x27° | 24.6°x18.5° | 14.9°x11.2° | 11°x8° | 24.6°x18.5° | 14.9°x11.2° | 10.7°x8.0° |
| MRAD | 1.7 | 1.13 | 0.68 | 0.49 | 1.13 | 0.68 | 0.49 |
| Minimum Focus Distance | 1 m | 2.5 m | 13 m | 40 m | 2.5 m | 13 m | 40 m |
| Spectral Response | 8 µm to 14 µm | | | | 8 µm to 14 µm | | |
| NETD | <50mK | | | | <50mK | | |
| Psuedo Colors | 14 | | | | 14 | | |
| Image Enhancement | 3D DNR, Adaptive AGC, DDE | | | | 3D DNR, Adaptive AGC, DDE | | |
| Pan/Tilt/Rotation | 3-axis Positioning | | | | 3-axis Positioning | | |
| Video Compression | H.264+/H.264/MJPEG | | | | H.264+/H.264/MJPEG | | |
| Main Stream (fps) | 50 @ 384x288 | | | | 50 @ 640x512, 384x288, 352x288 | | |
| Sub Stream (fps) | 50 @ 384x288 | | | | 50 @ 640x512, 384x288, 352x288 | | |
| Third Stream (fps) | 50 @ 384x288 | | | | 50 @ 640x512, 384x288, 352x288 | | |
| Smart Features | Line cross, Intrusion, Region Entrance/Exit, ROI | | | | Line cross, Intrusion, Region Entrance/Exit, ROI | | |
| Alarm on Temperature | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | | | | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | | |
| 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.) | 24VAC, 12VDC/3A, PoE+ (802.3at), 20 W | | | | 24VAC, 12VDC/3A, PoE+ (802.3at), 20 W | | |

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

## OUTDOOR BI-SPECTRUM BULLET

| Model | DS-2TD2235D-25 | DS-2TD2235D-50 |
|---|---|---|
| | RESOLUTION: **Medium** 2 MP NEW | RESOLUTION: **Medium** 2 MP NEW |
| Thermal Sensor | Vanadium Oxide UFPA | Vanadium Oxide UFPA |
| Resolution | 384x288 | 384x288 |
| Lens | 25 mm | 50 mm |
| Field of View (HxV) | 21.7°x16.4° | 11.0°x8.2° |
| Spectral Response | 8 µm to 14 µm | 8 µm to 14 µm |
| NETD / MRAD | <50mK / 1 | <50mK / 0.5 |
| Minimum Focus Distance | 13 m | 50 m |
| Psuedo Colors | 14 | 14 |
| Optical Sensor | 1/2.8" progressive scan CMOS | 1/2.8" progressive scan CMOS |
| Min. Illumination (lux) | Color: 0.002 @ ƒ/1.2, AGC On B/W: 0.0002 @ ƒ/1.2, AGC On | Color: 0.002 @ ƒ/1.2, AGC On B/W: 0.0002 @ ƒ/1.2, AGC On |
| Lens / Field of View (HxV) | 25 mm / 17.8° x 10° | 36 mm / 11.4° x 6.4° |
| Day / Night | TRUE | TRUE |
| IR Range Max (meters) | 120m, Smart IR | 120m, Smart IR |
| Image Enhancement | 3D DNR, BLC, AWB, WDR (120dB), EIS, Defog | 3D DNR, BLC, AWB, WDR (120dB), EIS, Defog |
| Smart Features | Line cross, Intrusion, Region Entrance/Exit, ROI | Line cross, Intrusion, Region Entrance/Exit, ROI |
| Alarm on Temperature | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones |
| Accurate Fire Detection | 10 detections | 10 detections |
| Video Compression | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 |
| Main Stream (fps) | Thermal: 25 @ 384x288 Visible: 30 @ 1920x1080, 1280x960, 1280x720 | Thermal: 25 @ 384x288 Visible: 30 @ 1920x1080, 1280x960, 1280x720 |
| Sub Stream (fps) | Thermal: 25 @ 160x120 Visible: 30 @ 704x480, 352x240, 176x120 | Thermal: 25 @ 160x120 Visible: 30 @ 704x480, 352x240, 176x120 |
| Alarm Input/Output | 7/2 | 7/2 |
| 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 55° C (40° F to 131° F) | -40° C to 55° C (40° F to 131° F) |
| Power Requirements (max.) | 24VAC, 40 W | 24VAC, 40 W |

# BI-SPECTRUM THERMAL PTZ CAMERAS - SMART PRO SERIES

| | OUTDOOR BI-SPECTRUM PTZ DOME | | OUTDOOR BI-SPECTRUM UPRIGHT PTZ | | | |
|---|---|---|---|---|---|---|
| **Model** | DS-2TD4035D-25 <br> RESOLUTION: **Medium** — 2 MP — NEW | DS-2TD4035D-50 <br> RESOLUTION: **Medium** — 2 MP — NEW | DS-2TD6135-50B2L <br> RESOLUTION: **Medium** — 2 MP — NEW | DS-2TD6135-75B2L <br> RESOLUTION: **Medium** — 2 MP — NEW | DS-2TD6166-50B2L <br> RESOLUTION: **High** — 2 MP — NEW | DS-2TD6166-75B2L <br> RESOLUTION: **High** — 2 MP — NEW |
| **Thermal Sensor / Resolution** | Vanadium Oxide UFPA / 384x288 | Vanadium Oxide UFPA / 384x288 | Vanadium Oxide UFPA / 384x288 | Vanadium Oxide UFPA / 384x288 | Vanadium Oxide UFPA / 640x512 | Vanadium Oxide UFPA / 640x512 |
| **Lens / Field of View (HxV)** | 25 mm / 21.7°x16.4° | 50 mm / 11.0°x8.2° | 50 mm / 11.0°x8.2° | 75 mm / 7.3°x5.5° | 50 mm / 12.4°x10.0° | 75 mm / 8.3°x6.6° |
| **Spectral Response / NETD** | 8 μm to 14 μm / <50mK | 8 μm to 14 μm / <50mK | 8 μm to 14 μm / <50mK | 8 μm to 14 μm / <50mK | 8 μm to 14 μm / <50mK | 8 μm to 14 μm / <50mK |
| **Psuedo Colors** | 14 | 14 | 14 | 14 | 14 | 14 |
| **Optical 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 |
| **Min. Illumination (lux)** | Color: 0.3 @ ƒ/1.6, 1/30 sec, 50 IRE, AGC On <br> B/W: 0.02 @ ƒ/1.6, 1/30 sec, 50 IRE, AGC On <br> (True Day/Night) | Color: 0.3 @ ƒ/1.6, 1/30 sec, 50 IRE, AGC On <br> B/W: 0.02 @ ƒ/1.6, 1/30 sec, 50 IRE, AGC On <br> (True Day/Night) | Color: 0.02 @ ƒ/1.5, AGC On <br> B/W: 0.002 @ ƒ/1.5, AGC On <br> (True Day/Night) | Color: 0.02 @ ƒ/1.5, AGC On <br> B/W: 0.002 @ ƒ/1.5, AGC On <br> (True Day/Night) | Color: 0.02 @ ƒ/1.5, AGC On <br> B/W: 0.002 @ ƒ/1.5, AGC On <br> (True Day/Night) | Color: 0.02 @ ƒ/1.5, AGC On <br> B/W: 0.002 @ ƒ/1.5, AGC On <br> (True Day/Night) |
| **Lens** | 4.3 to 129.0 mm, motorized zoom, autofocus | 4.3 to 129.0 mm, motorized zoom, autofocus | 8 to 250 mm, motorized zoom, autofocus | 8 to 250 mm, motorized zoom, autofocus | 8 to 250 mm, motorized zoom, autofocus | 8 to 250 mm, motorized zoom, autofocus |
| **Optical Zoom (Digital Zoom)** | 30x (16x) | 30x (16x) | 32x (16x) | 32x (16x) | 32x (16x) | 32x (16x) |
| **Pan Range** | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless |
| **Tilt Range** | -15° to 90° (auto flip) | -15° to 90° (auto flip) | -40° to 90° | -40° to 90° | -40° to 90° | -40° to 90° |
| **Pan & Tilt Speed (Manual)** | Pan: 0.1° to 160°/sec. <br> Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. <br> Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 110°/sec. <br> Tilt: 0.1° to 50°/sec. | Pan: 0.1° to 110°/sec. <br> Tilt: 0.1° to 50°/sec. | Pan: 0.1° to 110°/sec. <br> Tilt: 0.1° to 50°/sec. | Pan: 0.1° to 110°/sec. <br> Tilt: 0.1° to 50°/sec. |
| **Pan & Tilt Speed (Preset)** | Pan: 240°/sec. <br> Tilt: 200°/sec. | Pan: 240°/sec. <br> Tilt: 200°/sec. | Pan: 50°/sec. <br> Tilt: 50°/sec. | Pan: 50°/sec. <br> Tilt: 50°/sec. | Pan: 50°/sec. <br> Tilt: 50°/sec. | Pan: 50°/sec. <br> Tilt: 50°/sec. |
| **Image Enhancement** | BLC, 3D DNR. WDR, EIS, Defog | BLC, 3D DNR. WDR, EIS, Defog | BLC, 3D DNR. WDR, EIS, Defog | BLC, 3D DNR. WDR, EIS, Defog | BLC, 3D DNR. WDR, EIS, Defog | BLC, 3D DNR. WDR, EIS, Defog |
| **IR Range Max (Meters)** | 150 m, Smart IR | 150 m, Smart IR | 500 m, Smart IR | 500 m, Smart IR | 500 m, Smart IR | 500 m, 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 | 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 | 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 and 10-Points or Zones | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones | Accuracy: +/-8°C, Temp range: -20 to 150°C range for 1-Line and 10-Points or Zones |
| **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 | 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 (Base/Main/High Profile)/ MJPEG/MPEG4 | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 | H.264 (Base/Main/High Profile)/ MJPEG/MPEG4 |
| **Main Stream (fps)** | Thermal: 25 @ 384x288 <br> Visible: 30 @ 1920x1080, 1280x960, 1280x720 | Thermal: 25 @ 384x288 <br> Visible: 30 @ 1920x1080, 1280x960, 1280x720 | Thermal: 25 @ 384x288 <br> Visible: 30 @ 1920x1080, 1280x960, 1280x720 | Thermal: 25 @ 384x288 <br> Visible: 30 @ 1920x1080, 1280x960, 1280x720 | Thermal: 50 @ 640x512 <br> Visible: 30 @ 1920x1080, 1280x960, 1280x720 | Thermal: 50 @ 640x512 <br> Visible: 30 @ 1920x1080, 1280x960, 1280x720 |
| **Sub Stream (fps)** | Thermal: 25 @ 384x288 <br> Visible: 30 @ 704x480, 352x240, 176x120 | Thermal: 25 @ 384x288 <br> Visible: 30 @ 704x480, 352x240, 176x120 | Thermal: 25 @ 384x288 <br> Visible: 30 @ 704x480, 352x240, 176x120 | Thermal: 25 @ 384x288 <br> Visible: 30 @ 704x480, 352x240, 176x120 | Thermal: 50 @ 640x512 <br> Visible: 30 @ 704x480, 352x240, 176x120 | Thermal: 50 @ 640x512 <br> Visible: 30 @ 704x480, 352x240, 176x120 |
| **Alarm Input/Output** | 7/2 | 7/2 | 7/2 | 7/2 | 7/2 | 7/2 |
| **Audio Input/Output** | 1/1 | 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. | 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 | 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) |
| **Power Requirements (max.)** | 24VAC, 60W | 24VAC, 60W | 24VAC, 120W | 24VAC, 120W | 24VAC, 120W | 24VAC, 120W |

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

# NETWORK VIDEO RECORDERS

## PRO SERIES

| Model | DS-9616NI-I8 | DS-9632NI-I8 | DS-9664NI-I8 | DS-96128NI-I24/H | DS-96256NI-I24/H |
|---|---|---|---|---|---|
| Max. Recording Resolution | 12 MP | 12 MP | 12 MP | 12 MP | 12 MP |
| Video Compression | H.264, H264+, H.265, H.265+, MPEG4, MJPEG | H.264, H264+, H.265, H.265+, MPEG4, MJPEG | H.264, H264+, H.265, H.265+, MPEG4, MJPEG | H.264, H264+, H.265, H.265+, MPEG4, MJPEG | H.264, H264+, H.265, H.265+, MPEG4, MJPEG |
| HDMI/VGA Output | 3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent | 3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent | 3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent | 2 HDMI 4K (4096 x 2160)/4K (3840 × 2160) and 1 VGA at 1920x1080 Resolution, VGA/LCD Synchronous, HDMI1 and HDMI2 are Independent /H adds: 6 HDMI, 4K (3840x2160) resolution, each HDMI is Independent | 2 HDMI 4K (4096 x 2160)/4K (3840 × 2160) and 1 VGA at 1920x1080 Resolution, VGA/LCD Synchronous, HDMI1 and HDMI2 are Independent /H adds: 6 HDMI, 4K (3840x2160) resolution, each HDMI is Independent |
| IP Video Inputs | 16 | 32 | 64 | 128 | 256 |
| Alarm Input/Output | 16/4 | 16/4 | 16/4 | 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 | 1 USB 2.0; 2 USB 3.0 | 1 USB 2.0; 2 USB 3.0 |
| RAID Support | RAID 0, RAID 1, RAID 5, RAID 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 |
| 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) | 24 SATA interfaces, hot-swap (up to 8 TB each) | 24 SATA interfaces, hot-swap (up to 8 TB each) |
| Maximum Internal Storage | 48 TB | 48 TB | 48 TB | 192 TB | 192 TB |
| eSATA Interface | 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) | 768 | 768 |
| Maximum Outgoing Bandwidth (Mbps) | 256 (200 with RAID) | 256 (200 with RAID) | 256 (200 with RAID) | 512 | 768 |
| Ratings | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed |
| Rack Units | 2 | 2 | 2 | 4 | 4 |
| Power Requirements | 100 to 240 VAC, 50 to 60 Hz | 100 to 240 VAC, 50 to 60 Hz | 100 to 240 VAC, 50 to 60 Hz | 100 to 240 VAC, 50 to 60 Hz | 100 to 240 VAC, 50 to 60 Hz |
| Power Consumption | ≤30 W without HDD or DVD-R/W | ≤30 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 |

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)

## 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.

# Blazer Express and HikCentral

## Blazer Express

A new, intelligent video management station, Blazer focuses on managing Hikvision IP cameras with the following key features:
- Windows-based NVR with the operating system on an SSD (Solid State Drive)
- 16- or 32-camera options with 16 built-in POE inputs for IP cameras, and up to 24 TB of onboard storage
- Central management, with live view and playback from up to 15 remote NVRs or Blazers
- Powerful Client Station with video analytic searches and POS integration

## HikCentral

HikCentral is a Central Management Software (CMS) pre-loaded on a Windows-based server. Designed for central management of distributed sites, or large pool of cameras recording on Hikvision NVRs, DVRs & CVRs, HikCentral:
- Offers seamless management of 3,000 cameras per CMS
- Remote Server Manager (RSM) can be added to 100k+ cameras (available August 2017)
- Provides advanced user management, including Active Directory Integration
- Includes advanced Event & Alarm management (Video Analytics, POS & more)
- And gives users Health Monitoring on all connected devices

# 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 @ 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** | Fixed, 4mm @ ƒ/2.0 (2.8 mm, 6 mm option) | Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option) | Fixed, 4mm @ ƒ/2.0 (6 mm option) | Fixed 4mm @ ƒ/2.0 (2.8 mm, 6 mm option) | Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option) | Fixed, 4mm @ ƒ/2.0 (2.8 mm, 6 mm option) | 2.8 to 12 mm @ ƒ/1.4, motorized | 2.8 to 12 mm @ ƒ/1.4, motorized | 2.8 to 12 mm @ ƒ/1.4, motorized |
| **Horizontal Angle of View** | 102° (2.8 mm), 85° (4 mm), 52 ° (6 mm) | 106° (2.8 mm), 83° (4 mm), 56° (6 mm) | 89° (4 mm), 54.7° (6 mm) | 102° (2.8 mm), 85° (4 mm), 52 ° (6 mm) | 106° (2.8 mm), 83° (4 mm), 56° (6 mm) | 86° (2.8 mm), 89° (4 mm), 54.7° (6 mm) | 106° to 35° | 112° to 33.8° | 91° to 28° |
| **Pan/Tilt/Rotation** | 0° to 355°/ 0° to 75°/0 to 355° | 0° to 355°/ 0° to 75°/0 to 355° | 0° to 355°/ 0° to 75°/0 to 355° | -30° to 30°/ 0° to 75°/0 to 360° | -30° to 30°/ 0° to 75°/0 to 360° | -30° to 30°/ 0° to 75°/0 to 360° | 0° to 355°/ 0° to 75°/0 to 355° | 0° to 355°/ 0° to 75°/0 to 355° | 0° to 355°/ 0° to 75°/0 to 355° |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | No/120 dB | Yes/120 dB | Yes/Digital | Yes/120 dB | Yes/120 dB | Yes/Digital | Yes/120 dB | Yes/120 dB | Yes/Digital |
| **IR Range Max. (meters)** | 30 | 30 | 30 | 10 | 10 | 10 | 30 | 30 | 30 |
| **Video Compression** | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG |
| **Maximum Image Resolution (pixels)** | 1920x1080 | 2688x1520 | 2560x1920 | 1920x1080 | 2688x1520 | 2560x1920 | 1920x1080 | 2688x1520 | 2688x1520 |
| **Frame Rate (fps)** | 30 @ 1920x1080, 1280x960, 1280x720 | 20 @ 2688x1520 30 @ 1920x1080, 1280x720 | 20 @ 2560×1920, 30 @ 2048x1536, 1920×1080, 1280×720 | 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 @ 2688x1520 30 @ 1920x1080, 1280x720 |
| **Multi-Streaming** | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | Mic: Built in OUT: 1 line | Mic: Built in OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line |
| **Alarm Input/Output** | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Smart Features** | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] |
| **Ratings** | IP67[5], IK10, UL/cUL Listed | IP67[5], IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP67, IK8, UL/cUL Listed | IP67, IK8, UL/cUL Listed | IP66, IK8, UL/cUL Listed | IP67[5], IK10, UL/cUL Listed | IP67[5], IK10, UL/cUL Listed | IP67[5], IK10, UL/cUL Listed |
| **Operating Temperature Range** | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5.5 W | 12 VDC, PoE (802.3af), 5.5 W | 12 VDC, PoE (802.3af), 5.5 W |

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

# NETWORK CAMERAS - VALUE PLUS SERIES

| | 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** | Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option) | Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option) | Fixed, 2.8 mm @ ƒ/2.0 (4 mm, 6 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm option) | Fixed, 4 mm @ ƒ/1.4 (6 mm option) | 2.8 to 12 mm @ ƒ/1.4, motorized | 2.8 to 12 mm @ ƒ/1.4, motorized |
| **Horizontal Angle of View** | 109° (2.8 mm), 90° (4 mm), 54° (6 mm) | 106° (2.8 mm), 83° (4 mm), 56° (6 mm) | 112° (2.8 mm), 89° (4 mm), 54.7° (6 mm) | 85° (4 mm), 52° (6 mm) | 82° (4 mm), 55° (6 mm) | 90° (4 mm), 54° (6 mm) | 83° (4 mm), 56° (6 mm) | 89° (4 mm), 54.7° (6 mm) | 106° to 35° | 112° to 33.8° |
| **Pan/Tilt/Rotation** | 0° to 360°/ 0° to 75°/0° to 360° | 0° to 360°/ 0° to 75°/0° to 360° | 0° to 355°/ 0° to 75°/0° to 355° | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/120 dB | Yes/120 dB | Yes/Digital | No/120 dB | No/120 dB | Yes/120 dB | Yes/120 dB | Yes/Digital | Yes/120 dB | Yes/120 dB |
| **IR Range Max. (meters)** | 30 | 30 | 30 | 30 | 30 | 50 | 50 | 50 | 30 | 30 |
| **Video Compression** | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG | H.264+/H.264/MJPEG |
| **Maximum Image Resolution (pixels)** | 1920x1080 | 2688x1520 | 2560x1920 | 1920x1080 | 2688x1520 | 1920x1080 | 2688x1520 | 2560x1920 | 1920x1080 | 2688x1520 |
| **Frame Rate (fps)** | 30 @ 1920x1080, 1280x960, 1280x720 | 20 @ 2688x1520 30 @ 1920x1080, 1280x720 | 20 @ 2560×1920, 30 @ 2048x1536, 1920×1080, 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, 1920×1080, 1280×720 | 30 @ 1920x1080, 1280x960, 1280x720 | 20 @ 2688x1520 30 @ 1920x1080, 1280x720 |
| **Multi-Streaming** | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | --- | --- | --- | --- | --- | --- | --- | --- | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line |
| **Alarm Input/Output** | --- | --- | --- | --- | --- | --- | --- | --- | 1/1 | 1/1 |
| **Local Storage** | --- | --- | --- | --- | --- | --- | --- | --- | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Smart Features** | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[4] | Basic Smart Suite[2] | Basic Smart Suite[4] | Basic Smart Suite[4] |
| **Ratings** | IP67[5], UL/cUL Listed | IP67[5], UL/cUL Listed | IP66, UL/cUL Listed | IP67[5], UL/cUL Listed3 | IP67[5], UL/cUL Listed | IP67[5], UL/cUL Listed | IP67[5], UL/cUL Listed | IP66, UL/cUL Listed | IP67[5], UL/cUL Listed | IP67[5], UL/cUL Listed |
| **Operating Temperature Range** | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 5.5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 7.5 W |

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

# Hikvision Introduces Latest Technology - H.265+ Cameras

Hikvision announces a new line of cameras with its latest compression technology. H.265+ is able to greatly decrease the bitrate of the surveillance video so as to reduce the bandwidth and storage cost. Hikvision H.265+ is an optimized encoding technology based on the standard H.265/HEVC compression. It extends the application of the ultra HD video in video surveillance.  This new line of cameras includes models with resolutions from 2 MP, 3 MP, 5 MP to 8 MP.  Also new is the improved IR technology, EXIR 2.0, new Low-Light technology, 120dB WDR, expanded Smart analytics and IP67 protection.  Hikvision continues to enhance its leadership in technology in the Art of Video Surveillance.

**H.265+**

## 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 |
| | EXIR 2.0 — 2 MP | EXIR 2.0 — 3 MP | EXIR 2.0 — 5 MP | EXIR 2.0 — 8 MP | EXIR 2.0 — 2 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 Scan CMOS | 1/2.8" Progressive Scan CMOS | 1/2.9" Progressive Scan CMOS |
| **Min. Illumination (lux)** | 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 | 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 |
| **Lens** | Fixed, 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option) | Fixed, 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option) | Fixed, 2.8 mm@ ƒ/2.0 (4 mm, 6 mm, 8 mm option) | Fixed, 2.8 mm@ ƒ/2.0 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/2.0 (4 mm, 6 mm, 8 mm option) |
| **Horizontal Angle of View** | 108°(2.8mm), 86.4°(4 mm), 52°(6 mm), 40°,(8 mm) | 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm) | 81° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm) | 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm) | 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm) | 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm) | 80° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (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° |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| **IR Range Max. (meters)** | 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 |
| **Maximum Image Resolution (pixels)** | 1920x1080 | 2048 × 1536 | 2560 × 1920 | 3840 × 2160 | 1920x1080 | 2048 × 1536 | 2560 × 1920 |
| **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 |
| **Multi-Streaming** | Triple | Triple | Triple | Triple | Triple | Triple | Triple |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | --- | --- | --- | --- | --- | --- | --- |
| **Alarm Input/Output** | --- | --- | --- | --- | --- | --- | --- |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **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] |
| **Ratings** | IP67, IK10, 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 |
| **Operating Temperature Range** | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7.5 W | 12 VDC, PoE (802.3af), 6.5 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W |

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

## H.265+ NETWORK CAMERAS - VALUE PLUS SERIES

**OUTDOOR DOME** | **OUTDOOR TURRET** | **OUTDOOR BULLET**

| Model | DS-2CD2185FWD-I (8 MP) | DS-2CD2325FWD-I (2 MP) | DS-2CD2335FWD-I (3 MP) | DS-2CD2355FWD-I (5 MP) | DS-2CD2385FWD-I (8 MP) | DS-2CD2T25FWD-I5 (2 MP) | DS-2CD2T35FWD-I5 (3 MP) | DS-2CD2T55FWD-I5 (5 MP) | DS-2CD2T85FWD-I5 (8 MP) | DS-2CD2935FWD-IS (3 MP) | DS-2CD2955FWD-IS (5 MP) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Image Sensor | 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 | 1/2.8" Progressive | 1/2.8" Progressive | 1/2.9" Progressive | 1/2.5" Progressive | 1/2.8" Progressive | 1/2.5" Progressive |
| Min. Illumination (lux) | Color: 0.027 lux @ ƒ/2.0, 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 | 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 | Color: 0.016 lux @ ƒ/2.2, AGC ON | Color: 0.033 lux @ ƒ/2.2, AGC ON, 0 lux with IR |
| Lens | Fixed 2.8 mm @ ƒ/2.0 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/1.6 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/2.0 (4 mm, 6 mm, 8 mm option) | Fixed 2.8 mm @ ƒ/2.0 (4 mm, 6 mm, 8 mm option) | Fixed 4 mm @ ƒ/1.6 (2.8 mm, 6 mm, 8 mm option) | Fixed 4 mm @ ƒ/1.6 (2.8 mm, 6 mm, 8 mm option) | Fixed 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm option) | Fixed 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 8 mm option) | 1.16 mm @ ƒ/2.2 | 1.05 mm @ ƒ/2.2 |
| Horizontal Angle of View | 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm) | 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm) | 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm) | 80° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm) | 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm) | 108° (2.8 mm), 86.4° (4 mm), 52° (6 mm), 40° (8 mm) | 98° (2.8 mm), 78.7° (4 mm), 48° (6 mm), 37° (8 mm) | 81° (2.8 mm), 63.5° (4 mm), 50° (6 mm), 33° (8 mm) | 102° (2.8 mm), 79° (4 mm), 50° (6 mm), 40° (8 mm) | 180° horizontal 180° vertical | 180° horizontal 180° vertical |
| 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 360° / 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 | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| IR Range Max. (meters) | 30 | 30 | 30 | 30 | 30 | 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 | 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) | 3840 × 2160 | 1920x1080 | 2048 × 1536 | 2560 × 1920 | 3840 × 2160 | 1920 × 1080 | 2048 × 1536 | 2560 × 1920 | 3840 × 2160 | 2048 × 1536 | 2560 × 1920 |
| Frame Rate (fps) | 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 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 2048x1536, 1920x1080, 1280x720 | 20 @ 2560x1920 30 @ 2560x1440, 2048x1536, 1920x1080, 1280x720 | 20 @ 3840x2160 30 @ 2560x1920, 2560x1440, 1920x1080, 1280x720 | 30 @ 2048x1536, 1600x1299, 1280x960 | 30 @ 2560x1920, 2048x1536, 1280x960 |
| Multi-Streaming | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Triple | Dual | Dual |
| Motion Detection | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Input/Output | --- | --- | --- | --- | --- | --- | --- | --- | --- | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line |
| Alarm Input/Output | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1/1 | 1/1 |
| Local Storage | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | 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] | H.265+ Smart Suite[3] | H.265+ Smart Suite[3] | H.265+ Smart Suite[3] |
| Ratings | IP67, IK10, 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 | IP67, UL/cUL Listed | IP67, UL/cUL Listed | UL/cUL Listed | UL/cUL Listed |
| Operating Temperature Range | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -10 °C to +50 °C (-14 °F to +122 °F) | -10 °C to +50 °C (-14 °F to +122 °F) |
| Power Requirements (max.) | 12 VDC, PoE (802.3af), 9 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 9 W | 12 VDC, PoE (802.3af), 9 W | 12 VDC, PoE (802.3af), 9 W | 12 VDC, PoE (802.3af), 9.5 W | 12 VDC, PoE (802.3af), 6.7 W | 12 VDC, PoE (802.3af), 6.7 W |

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

# NETWORK CAMERAS - VALUE SERIES

| | INDOOR RECESSED DOME | | OUTDOOR DOME | | OUTDOOR COMPACT DOME | | | | OUTDOOR DOME | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | DS-2CD2E10F | DS-2CD2E20F | DS-2CD2112F-I | DS-2CD2132F-I | DS-2CD2510F | DS-2CD2512F-I | DS-2CD2520F | DS-2CD2532F-I | DS-2CD2712F-I | DS-2CD2732F-I |
| | 1.3 MP | 2 MP | 1.3 MP | 3 MP | 1.3 MP | 1.3 MP | 2 MP | 3 MP | 1.3 MP | 3 MP |
| **Image Sensor** | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS | 1/3" Progressive Scan CMOS |
| **Min. Illumination (lux)** | Color: 0.028 @ ƒ/2.0 B/W: 0 with IR | Color: 0.028 @ ƒ/2.0 B/W: 0 with IR | Color: 0.028 @ ƒ/2.0 B/W: 0 with IR | Color: 0.19 @ ƒ/2.0 B/W: 0 with IR | Color: 0.028 @ ƒ/2.0 B/W: 0.0028 @ ƒ/2.0 | Color: 0.028 @ ƒ/2.0 B/W: 0 with IR | Color: 0.028 @ ƒ/2.0 B/W: 0.0028 @ ƒ/2.0 | Color: 0.19 @ ƒ/2.0 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.01 @ ƒ/1.4 B/W: 0 with IR |
| **Lens** | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option) | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option) | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option) | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option) | Fixed, 2 mm @ ƒ/2.0 | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option) | Fixed, 2 mm @ ƒ/2.0 | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm option) | 2.8 to 12 mm @ ƒ/1.4, manual | 2.8 to 12 mm @ ƒ/1.4, manual |
| **Horizontal Angle of View** | 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm) | 106° (2.8 mm), 85° (4 mm), 52° (6 mm) | 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm), 22° (12 mm) | 86° (2.8 mm), 70° (4 mm), 43.3 (6 mm), 20.6° (12 mm) | 115° (2 mm) | 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm) | 126° (2 mm) | 86° (2.8 mm), 70° (4 mm), 43.3° (6 mm) | 98.4° to 30.2° | 91.2° to 28.3° |
| **Pan/Tilt/Rotation** | 0° to 355°/0° to 80°/na | 0° to 355°/0° to 80°/na | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° | ±15°/0° to 90°/±15° | ±30°/0° to 75°/0° to 360° | ±15°/0° to 90°/±15° | ±30°/0° to 75°/0° to 360° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° |
| **Day/Night** | Electronic | Electronic | TRUE | TRUE | Electronic | TRUE | Electronic | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital |
| **IR Range Max. (meters)** | --- | --- | 30 | 30 | --- | 10 | --- | 10 | 30 | 30 |
| **Video Compression** | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/ MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG |
| **Maximum Image Resolution (pixels)** | 1280x960 | 1920x1080 | 1280x960 | 2048x1536 | 1280x960 | 1280x960 | 1920x1080 | 2048x1536 | 1280x960 | 2048x1536 |
| **Frame Rate (fps)** | 30 @ 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536, 30 @ 1920x1080, 1280x720 | 30 @ 1280x960, 1280x720, 704x576 | 30 @ 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 |
| **Multi-Streaming** | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| **Smart Features** | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Audio Input/Output** | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Alarm Input/Output** | --- | --- | --- | --- | --- | --- | --- | 1/1 | --- | --- |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | UL/cUL Listed | UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP67, IK10, UL/cUL Listed | IP66, IK8, UL/cUL Listed | IP67, IK10, UL/cUL Listed | IP66, IK8, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed |
| **Operating Temperature Range** | -10° C to 40° C (14° F to 104° F) | -10° C to 40° C (14° F to 104° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 4.2 W | 12 VDC, PoE (802.3af), 4.5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 5 W | 12 VDC, PoE (802.3af), 4 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 4 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W |

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

| | OUTDOOR TURRET | OUTDOOR BULLET | | | | | | INDOOR PINHOLE | COVERT | INDOOR FISHEYE |
|---|---|---|---|---|---|---|---|---|---|---|
| Model | DS-2CD2332-I | DS-2CD2012-I | DS-2CD2032-I | DS-2CD2212-I5 | DS-2CD2232-I5 | DS-2CD2612F-I | DS-2CD2632F-I | DS-2CD2D14WD | DS-2CD2D14WD/M | DS-2CD2942F-IS |
| | EXIR / 3 MP | 1.3 MP | 3 MP | EXIR / 1.3 MP | EXIR / 3 MP | 1.3 MP | 3 MP | 1 MP | 1 MP | 4 MP |
| Image Sensor | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/4" progressive scan CMOS | 1/4" progressive scan CMOS | 1/3" progressive scan CMOS |
| Min. Illumination (lux) | Color: 0.19 @ ƒ/2.0 B/W: 0 with IR | Color: 0.028 @ ƒ/2.0 B/W: 0 with IR | Color: 0.19 @ ƒ/2.0 B/W: 0 with IR | Color: 0.028 @ ƒ/2.0 B/W: 0 with IR | Color: 0.19 @ ƒ/2.0 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | 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 | Fixed, 4 mm @ ƒ/2.0 (2.8 mm, 6 mm, 12 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option) | Fixed, 4 mm @ ƒ/2.0 (6 mm, 12 mm option) | 2.8 to 12 mm @ ƒ/1.4, manual | 2.8 to 12 mm @ ƒ/1.4, manual | Pinhole, 3.2 mm @ ƒ/2.5 | 2.8 mm @ ƒ/2.0 or 4.0 mm @ ƒ/2.0 | Fisheye, 1.6 mm, ƒ/1.6 |
| Horizontal Angle of View | 86° (2.8 mm), 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm) | 73.1° (4 mm), 46° (6 mm), 22° (12 mm) | 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm) | 73.1° (4 mm), 46° (6 mm), 22° (12 mm) | 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm) | 98.4° to 30.2° | 91.2° to 28.3° | 65° (3.2 mm) | 67.3° (2.8 mm), 53° (4.0 mm) | 186° (horizontal), 106° (vertical) |
| Pan/Tilt/Rotation | 0° to 360°/ 0°to 75°/0° to 360° | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 3-Axis Positioning | 0° to 360°/0° to 90°/na | 0° to 360°/0° to 90°/na | --- |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | Electronic | Electronic | TRUE |
| BLC/WDR | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | No/100 dB | No/100 dB | Yes/Digital |
| IR Range Max. (meters) | 30 | 30 | 30 | 50 | 50 | 30 | 30 | --- | --- | 8 |
| Video Compression | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG |
| Maximum Image Resolution (pixels) | 2048x1536 | 1280x960 | 2048x1536 | 1280x960 | 2048x1536 | 1280x960 | 2048x1536 | 1280x720 | 1280x720 | 2560x1440 |
| Frame Rate (fps) | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080, 1280x720 | 30 @ 1280x720, 704x576, 640x480 | 30 @ 1280x720, 704x576, 640x480 | 15 @ 2560x1440 30 @ 1920x1080, 1280x720 |
| Multi-Streaming | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| Smart Features | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] + tampering alarm, dynamic analysis, motion detection | Basic Smart Suite[2] + tampering alarm, dynamic analysis, motion detection | --- |
| Motion Detection | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio Input/Output | --- | --- | --- | --- | --- | --- | --- | --- | — | IN: 1 line OUT: 1 line |
| Alarm Input/Output | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1/1 |
| Local Storage | --- | --- | --- | --- | --- | MicroSD, 128 GB max. | MicroSD, 128 GB max. | --- | — | MicroSD, 128 GB max. |
| Ratings | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed |
| Operating Temperature Range | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -10° C to 40° C (14° F to 104° F) |
| Power Requirements (max.) | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 9 W | 12 VDC, PoE (802.3af), 9 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, PoE (802.3af), 7 W | 12 VDC, 3 W | 12 VDC, 3 W | 12 VDC, PoE (802.3af), 5.55 W |

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

# VALUE SOLUTIONS

# New 4-inch Indoor/ Outdoor Value Series PTZ Domes

### DS-2DE4A SERIES >

The DS-2DE4A Series of indoor/outdoor PTZ domes are a new breed of Value Series cameras that are designed to be as powerful as they are versatile. Featuring 2 MP and 3 MP models with 20x zoom lens and 50 meter IR capability, these cameras will provide protection in and around areas that are challenged by lighting conditions and require a discreet presence. Perfect for the entrances of buildings, these cameras feature an in-ceiling mount option and IP66 environmental ratings, to deliver superior performance in a compact package.

| | INDOOR PTeZ™ | | INDOOR PTZ | | INDOOR/OUTDOOR PTZ | | | OUTDOOR PTZ |
|---|---|---|---|---|---|---|---|---|
| Model | DS-2DE2103-DE3/W (1 MP) | DS-2DE2202I-DE3/W (2 MP) | DS-2DE4220W-AE3 (NEW, 2 MP) | DS-2DE5230W-AE3 (NEW, 2 MP) | DS-2DE4A204IW-DE (NEW, 2 MP) | DS-2DE4A220IW-DE (NEW, 2 MP) | DS-2DE4A320IW-DE (NEW, 3 MP) | DS-2DE3304W-DE (3 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 | 1/1.9" 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: 0.05 @ ƒ/1.6 B/W: 0.01 @ ƒ/1.6 | Color: 0.05 @ ƒ/2.0 B/W: 0.01 @ ƒ/2.0 | Color: 0.05 @ ƒ/1.6, 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: 0.002 @ ƒ/1.6, AGC On B/W: 0.0002 @ ƒ/1.6, AGC On, 0 with IR | 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, 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 |
| Lens | 3.6 to 11 mm, 3x (effective)[5] via PTeZ™ | 3.6 to 8.6 mm, 2x (effective)[5] via PTeZ™ | 4.7 to 94 mm, motorized zoom, autofocus | 4.3 to 129 mm, motorized zoom, autofocus | 2.8 to 12 mm, motorized zoom, autofocus | 4.7 to 94 mm, motorized zoom, autofocus | 4.7 to 94 mm, motorized zoom, autofocus | 2.8 to 12 mm, motorized zoom, autofocus |
| Horizontal Angle of View | 80° to 33° | 80° to 64.5° | 61.4° to 2.9° | 65.5° to 2.1° | 90.1° to 31° | 61.4° to 2.9° | 58.3° to 3.2° | 105° to 33.5° |
| Optical Zoom (Digital Zoom) | 3x (16x) | 2x (16x) | 20x (16x) | 30x (16x) | 4x (16x) | 20x (16x) | 20x (16x) | 4x (16x) |
| Pan Range | 0° to 350° | 0° to 350° | 360° endless | 360° endless | 360° endless | 360° endless | 360° endless | 0° to 350° |
| Tilt Range | 0° to 90° (auto flip) | +5° to 90° | -5° to 90° | -5° to 90° (auto flip) | 5° to 90° | -5° to 90° | -5° to 90° | +5° to 90° |
| Pan & Tilt Speed (Manual) | Pan: 0.1° to 50°/sec. Tilt: 0.1° to 40°/sec. | Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec. | Pan: 0.1° to 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 & Tilt Speed (Preset) | Pan: 50°/sec. Tilt: 40°/sec. | Pan: 50°/sec. Tilt: 50°/sec. | Pan: 160°/sec. Tilt: 120°/sec. | Pan: 300°/sec. Tilt: 200°/sec. | Pan: 350°/sec. Tilt: 200°/sec. | Pan: 350°/sec. Tilt: 200°/sec. | Pan: 350°/sec. Tilt: 200°/sec. | Pan: 50°/sec. Tilt: 50°/sec. |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| Image Enhancement | WDR, AGC, AWB, 3D DNR, HLC, BLC | DWDR, AGC, AWB, 3D DNR, HLC, BLC | 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 |
| IR Range Max. (meters) | --- | 20 | - | --- | 50 | 50 | 50 | --- |
| 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 | 300/0/0 | 300/0/0 | 300/8/4 | 300/8/4 | 300/8/4 | 300/8/4 | 300/8/4 | 300/8/4 |
| Wireless | IEEE 802.11b/g/n | IEEE 802.11b/g/n | Yes | --- | --- | --- | --- | --- |
| Video Compression | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | 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 |
| Maximum Image Resolution (pixels) | 1280x720 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 2048x1536 | 2048x1536 |
| Frame Rate (fps) | 30 @ 1280x720 | 30 @ 1920x1080 | 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 |
| Local Storage | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| Ratings | UL/cUL Listed | UL/cUL Listed | IP66, UL/cUL Listed | UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP67, UL/cUL Listed |
| Operating Temperature range | -10° C to 50° C (14° F to 122° F) | -10° C to 50° C (14° F to 122° F) | -30° C to 65°C (-22° F to 149° F) | -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.) | 12 VDC, PoE (802.3af), 6 W | 12 VDC, PoE (802.3af), 9 W | 24 VAC, PoE (802.3at), 18 W | 24 VAC, PoE+ (802.3at), 18 W | 24 VAC, PoE (802.3at), 18 W | 12 VDC, PoE (802.3at), 18 W | 12 VDC, PoE (802.3at), 18 W | 12 VDC, PoE (802.3af), 8 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:** Line Crossing, Intrusion Detection
[5]PTeZ™ cameras have a sensor-based zoom

# NETWORK PTZ CAMERAS - VALUE SERIES

| | OUTDOOR UPRIGHT PTZ | | OUTDOOR PTZ | | | OUTDOOR IR PTZ | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | DS-2DY3220IW-DE (NEW) (2 MP) | DS-2DY3220IW-DE4 (NEW) (2 MP) | DS-2DE4220W-AE (NEW) (2 MP) | DS-2DE5230W-AE (2 MP) | DS-2DE5330W-AE (NEW) (3 MP) | DS-2DE5220IW-AE (NEW) (2 MP) | DS-2DE7230IW-AE (2 MP) | DS-2DE7330IW-AE (NEW) (3 MP) | DS-2DE7430IW-AE (NEW) (4 MP) | DS-2DE7530IW-AE (NEW) (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 | 1/2.8" 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 @ $f$/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 | 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: 0.01 @ $f$/1.6, AGC On, 0 with IR | Color: 0.02 @ $f$/1.5, AGC On B/W: 0.002 @ $f$/1.5, AGC On, 0 with IR | Color: 0.05 @ $f$/1.6, AGC On B/W: 0.01 @ $f$/1.6, 0 with IR | Color: 0.05 @ $f$/1.5, AGC On B/W: 0.01 @ $f$/1.5, 0 with IR | Color: 0.005 @ $f$/1.5, AGC On B/W: 0.002 @ $f$/1.5, 0 with IR | Color: 0.005 @ $f$/1.5, AGC On B/W: 0.002 @ $f$/1.5, 0 with IR |
| **Lens** | 4.7 to 94 mm, motorized zoom, autofocus | 4.7 to 94 mm, motorized zoom, autofocus | 4.7 to 94 mm, motorized zoom, autofocus | 4.3 to 129 mm, motorized zoom, autofocus | 4.3 to 129 mm, motorized zoom, autofocus | 4.7 to 94 mm, motorized zoom, autofocus | 4.3 to 129 mm, motorized zoom, autofocus | 4.3 to 129 mm, motorized zoom, autofocus | 5.9 to 177 mm, motorized zoom, autofocus | 5.9 to 177 mm, motorized zoom, autofocus |
| **Horizontal Angle of View** | 58.3° to 3.2° | 58.3° to 3.2° | 61.4° to 2.9° | 65.5° to 2.1° | 57.4° to 2.8° | 58.3° to 3.2° | 65.5° to 2.1° | 57.4° to 2.8° | 48.8° to 2.3° | 51.3° to 2.7° |
| **Optical Zoom (Digital Zoom)** | 20x (16x) | 20x (16x) | 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 | 360° endless | 360° endless |
| **Tilt Range** | -40° to 30° | -40° to 30° | -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 60°/sec. Tilt: 0.1° to 30°/sec. | Pan: 0.1° to 60°/sec. Tilt: 0.1° to 30°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec. | Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec. | Pan: 0.1° to 400°/sec. Tilt: 0.1° to 200°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec. | Pan: 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: 100°/sec. Tilt: 60°/sec. | Pan: 100°/sec. Tilt: 60°/sec. | Pan: 160°/sec. Tilt: 120°/sec. | Pan: 300°/sec. Tilt: 200°/sec. | Pan: 300°/sec. Tilt: 200°/sec. | Pan: 400°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. | Pan: 240°/sec. Tilt: 200°/sec. |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **Image Enhancement** | WDR, AGC, AWB, 3D DNR, HLC, BLC, Defog | WDR, AGC, AWB, 3D DNR, HLC, BLC, Defog | 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)** | 100 | 100 | --- | --- | --- | 150 | 150 | 150 | 150 | 150 |
| **Smart Features** | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | Basic Smart Suite[2] | 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 | 300/8/4 |
| **Wireless** | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Video Compression** | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | 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 | 1920x1080 | 1920x1080 | 2048x1536 | 1920x1080 | 1920x1080 | 2048x1536 | 2560x1536 | 2592x1944 |
| **Frame Rate (fps)** | 30 @ 1920x1080, 1280x960, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 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. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | IP66, UL/cUL Listed | IP66, UL/cUL Listed | 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) | -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), 19 W | 24 VAC, PoE (802.3at), 19 W | 24 VAC, PoE (802.3at), 18 W | 24 VAC, PoE+ (802.3at), 18 W | 24 VAC, PoE (802.3at), 18 W | 24 VAC, HiPoE, 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:** Line Crossing, Intrusion Detection

# NETWORK VIDEO RECORDERS

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, 1920x1080/1920x1080, independent output | 1920x1080/1920x1080, synchronized output | 3840x2160/1920x1080, 1920x1080/1920x1080, independent output | 3840x2160/1920x1080, 1920x1080/1920x1080, independent output | 3840x2160/1920x1080, 1920x1080/1920x1080, independent output | 3840x2160/1920x1080, 1920x1080/1920x1080, independent output |
| IP Video Input | 4-ch IPC with integrated 4-port 802.3af/at PoE switch | 8-ch IPC with integrated 8-port 802.3af/at PoE switch | 8-ch IPC with integrated 8-port 802.3af/at PoE switch | 16-ch IPC with integrated 16-port 802.3af/at PoE switch | 16-ch IPC with integrated 16-port 802.3af/at PoE switch | 16-ch IPC with integrated 16-port 802.3af/at PoE switch | --- | 16-ch IPC with integrated 16-port 802.3af/at PoE switch |
| Audio Input/Output | 1 line in/1 line out | 1 line in/1 line out | 1 line in/1 line out | 1 line in/1 line out | 1 line in/1 line out | 1 line in/1 line out | 1 line in/1 line out | 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 | 3 USB 2.0 | 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 | 128 | 128 | 128 | 128 | 128 | 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 | 180 W | 200 W | 280 W | 300 W | 300 W | 300 W |
| Power Requirements | 48VDC, ≤10W without HDD | 100 to 240 VAC, ≤10W without HDD | 100 to 240 VAC, ≤15W without HDD | 100 to 240 VAC, ≤15W without HDD | 100 to 240 VAC, ≤15W without HDD | 100 to 240 VAC, ≤20W without HDD | 100 to 240 VAC, ≤20W without HDD | 100 to 240 VAC, ≤20W without HDD |

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

## NETWORK CAMERAS - VALUE SERIES

| | OUTDOOR WI-FI DOME | | WI-FI COMPACT DOME | | WI-FI CUBE | | INDOOR WI-FI PTeZ™ | | INDOOR PTZ |
|---|---|---|---|---|---|---|---|---|---|
| **Model** | DS-2CD2112F-IWS | DS-2CD2132F-IWS | DS-2CD2522FWD-IWS | DS-2CD2542FWD-IWS | DS-2CD2412F-IW | DS-2CD2432F-IW | DS-2DE2103-DE3/W | DS-2DE2202I-DE3/W | DS-2DF5220S-DE4/W |
| | 1.3 MP | 3 MP | 2 MP | 4 MP | 1.3 MP | 3 MP | PTeZ™ 1 MP | PTeZ™ 2 MP | 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 | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS |
| **Min. Illumination (lux)** | Color: 0.028 @ $f$/2.0 B/W: 0 with IR | Color: 0.19 @ $f$/2.0 B/W: 0 with IR | Color: 0.028 @ $f$/2.0 B/W: 0 with IR | Color: 0.028 @ $f$/2.0 B/W: 0 with IR | Color: 0.028 @ $f$/2.0 B/W: 0 with IR | Color: 0.28 @ $f$/2.0 B/W: 0 with IR | Color: 0.05 @ $f$/1.6 B/W: 0.01 @ $f$/1.6 | Color: 0.1 @ $f$/2.0 B/W: 0.01 @ $f$/2.0 | Color: 0.3 @ $f$/1.6 B/W: 0.02 @ $f$/1.6 |
| **Lens** | Fixed, 4 mm @ $f$/2.0 (2.8 mm, 6 mm option) | Fixed, 4 mm @ $f$/2.0 (2.8 mm, 6 mm option) | Fixed, 4 mm @ $f$/2.0 (6 mm option) | Fixed, 4 mm @ $f$/2.0 (2.8 mm, 6 mm option) | Fixed, 4 mm @ $f$/2.0 (2.8 mm option) | Fixed, 4 mm @ $f$/2.0 (2.8 mm option) | 3.6 to 11 mm, 3x (effective)[5] via PTeZ™ | 3.6 to 8.6 mm, 2x (effective)[5] via PTeZ™ | 4.7 to 94 mm, motorized zoom, autofocus, 20x |
| **Horizontal Angle of View** | 92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm) | 98.5° (2.8 mm), 79° (4 mm), 49° (6 mm) | 85° (4 mm), 52° (6 mm) | 106° (2.8 mm), 83° (4 mm), 56° (6 mm) | 92.5° (2.8 mm), 73.1° (4 mm) | 86° (2.8 mm), 79° (4 mm) | 80° to 33° | 80° to 64.5° | 58.3° to 3.2° |
| **Pan/Tilt/Rotation** | 0° to 355°/ 0° to 75°/ 0° to 355° | 0° to 355°/ 0° to 75°/ 0° to 355° | -30° to 30°/ 0° to 75°/ 0° to 360° | -30° to 30°/ 0° to 75°/ 0° to 360° | 3-Axis Positioning | 3-Axis Positioning | Pan: 0.1° to 50°/sec. Tilt: 0.1° to 40°/sec. | 0° to 350°/ 0° to 90°/NA | 360° endless/ -30° to 90° (auto flip)/NA |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/Digital | Yes/Digital | No/120 dB | No/120 dB | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital | Yes/Digital |
| **IR Range Max. (meters)** | 30 | 30 | 10 | 10 | 10 | 10 | — | 20 | --- |
| **Video Compression** | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG | H.264/MJPEG |
| **Maximum Image Resolution (pixels)** | 1280x960 | 2048x1536 | 1920x1080 | 2688x1520 | 1280x960 | 2048x1536 | 1280x720 | 1920x1080 | 1920x1080 |
| **Frame Rate (fps)** | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536, 30 @ 1920 x 1080, 1280x720 | 30 @ 1920x1080, 1280x960, 1280x720 | 20 @ 2688x1520 30 @ 1920x1080, 1280x720 | 30 @ 1280x960, 1280x720 | 20 @ 2048x1536 30 @ 1920x1080 | 30 @ 1280x720 | 30 @ 1920x1080 | 30 @ 1920x1080, 1280x960, 1280x720 |
| **Multi-Streaming** | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual | Dual |
| **Motion Detection** | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Wireless** | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n | IEEE 802.11b/g/n |
| **Audio Input/Output** | IN: 1 line OUT: 1 line | IN: 1 line OUT: 1 line | OUT: 1 line Mic: Built in | OUT: 1 line Mic: Built in | Built-in mic and speaker | Built-in mic and speaker | OUT: 1 line Mic: Built in | OUT: 1 line Mic: Built in | IN: 1 line OUT: 1 line |
| **Alarm Input/Output** | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| **Local Storage** | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. | MicroSD, 128 GB max. |
| **Ratings** | IP66, IK10, UL/cUL Listed | IP66, IK10, UL/cUL Listed | IP67, IK8, UL/cUL Listed | IP67, IK8, UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed | UL/cUL Listed |
| **Operating Temperature Range** | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | 0° C to 40° C (-22° F to 104° F) | 0° C to 40° C (-22° F to 104° F) | -10° C to 50° C (14° F to 122° F) | -10° C to 50° C (14° F to 122° F) | -10° C to 50° C (14° F to 122° F) |
| **Power Requirements (max.)** | 12 VDC, PoE (802.3af), 5 W, PSU included | 12 VDC, PoE (802.3af), 5 W, PSU included | 12 VDC, PoE (802.3af), 5 W, PSU included | 12 VDC, PoE (802.3af), 5 W, PSU included | 12 VDC, PoE (802.3af), 5 W, PSU included | 12 VDC, PoE (802.3af), 5 W, PSU included | 12 VDC, PoE (802.3af), 5.5 W, PSU included | 12 VDC, PoE (802.3af), 9 W, PSU included | 12 VDC, PoE+ (802.3at), 24 W |

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

## NETWORK VIDEO RECORDERS

### WI-FI NVR

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

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

FEATURED PRODUCTS

# IP Kits 🔴NEW

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) and one 4-channel NVR (DS-7604NI-EV1/4P)

### I7608N2TA

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

## Performance Kits

### I7604N1TP

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

### I7608N2TP

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

IP KITS

| | OUTDOOR DOME | OUTDOOR TURRET |
|---|---|---|
| **Model** | DS-2CD2120F-I | DS-2CD2342WD-I |
| | 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** | Fixed, 2.8 mm @ ƒ/2.0 | Fixed, 2.8 mm @ ƒ/2.0 |
| **Horizontal Angle of View** | 106° (2.8 mm) | 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** | TRUE | TRUE |
| **BLC/WDR** | Yes/Digital | 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.)** | 12 VDC, PoE (802.3af), 5.3 W | 12 VDC, PoE (802.3af), 7.5 W |

| | 4-CH NVR | 8-CH NVR |
|---|---|---|
| **Model** | DS-7604NI-EV1/4P | DS-7608NI-EV2/8P |
| **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** | 128 | 128 |
| **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

# TurboHD™

## TurboHD™ KITS

| | 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** | 12 VDC, ≤ 12W | 13 VDC, ≤ 12W |

| | 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 180°/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 | IK10, 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.)** | 12 VDC , 1 W | 13 VDC, 5 W |

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

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FEATURED PRODUCTS

# TurboHD Kits *NEW*

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)

# Enjoy HD with existing cabling

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

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

## TurboHD™ 3.0 ANALOG CAMERAS - 2 MP AND 3 MP

| | OUTDOOR DOME | OUTDOOR BULLET | OUTDOOR TURRET | OUTDOOR BULLET | OUTDOOR TURRET | OUTDOOR BULLET | OUTDOOR TURRET |
|---|---|---|---|---|---|---|---|
| **Model** | DS-2CE56D7T-VPIT | DS-2CE16D7T-IT | DS-2CE56D7T-ITM | DS-2CE16D7T-IT5 | DS-2CE56D7T-IT3 | DS-2CE16D7T–AIT3Z | DS-2CE56D7T-IT3Z |
| | EXIR 2 MP | EXIR 2 MP | EXIR 2 MP | EXIR 2 MP | EXIR 2 MP | EXIR 2 MP | EXIR 2 MP |
| **Video Out** | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI |
| **Image Sensor** | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS |
| **HD-TVI Resolution** | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 | 1920x1080 |
| **CVBS Resolution** | --- | --- | --- | --- | --- | --- | --- |
| **Min. Illumination (lux)** | Color: 0.053 @ ƒ/2.5 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: 0.053 @ 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 | Color: 0.03 @ ƒ/1.4 B/W: 0 with IR |
| **Lens** | Fixed, 3.6 mm @ ƒ/2.5 (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 option) | Fixed, 3.6 mm @ ƒ/2.5 (6 mm, 12 mm option) | Fixed, 2.8 mm @ ƒ/2.5 (3.6 mm, 6 mm option) | 2.8 -12 mm, motorized lens | 2.8 -12 mm, motorized lens |
| **Horizontal Angle of View** | 82.2° (3.6 mm), 54° (6 mm) | 103° (2. 8mm), 82.2° (3.6 mm), 54° (6 mm) | 103° (2.8 mm), 82.2° (3.6 mm) | 82.2°(3.6 mm), 54°(6 mm), 24.3°(12 mm) | 103° (2.8 mm), 82.2° (3.6 mm), 54° (6 mm) | 35.1° to 114.5° | 35.1° to 114.5° |
| **Pan/Tilt/Rotation** | 0° to 340°/ 0° to 75°/0° to 355° | 3-Axis Positioning | 0° to 360°/ 0° to 75°/0° to 360° | 3-Axis Positioning | 0° to 360°/ 0° to 75°/0° to 360° | 3-Axis Positioning | 0° to 360°/ 0° to 75°/0° to 360° |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| **IR Range Max. (meters)** | 20 | 20 | 20 | 80 | 40 | 40 | 40 |
| **Vertical Synchronization** | Internal | Internal | Internal | Internal | Internal | Internal | Internal |
| **OSD Menu via Up-the-Coax (UTC)** | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| **Ratings** | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed |
| **Operating Temperature Range** | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 6 W 24 VAC, 9 W | 12 VDC, 6 W |

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

# TurboHD™ 3.0 ANALOG CAMERAS - 2 MP AND 3 MP

| | INDOOR DOME | OUTDOOR DOME | OUTDOOR BULLET | OUTDOOR BULLET | OUTDOOR TURRET | OUTDOOR BULLET | OUTDOOR TURRET | OUTDOOR BULLET | OUTDOOR TURRET | INDOOR DOME | OUTDOOR DOME |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Model** | 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 |
| | EXIR — 2 MP | EXIR — 2 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP | EXIR — 3 MP |
| **Video Out** | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI | HD-TVI |
| **Image Sensor** | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS |
| **HD-TVI Resolution** | 1920x1080 | 1920x1080 | 1920x1536 | 1920x1536 | 1920x1536 | 1920x1536 | 1920x1536 | 1920x1536 | 1920x1536 | 1920x1536 | 1920x1536 |
| **CVBS Resolution** | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Min. Illumination (lux)** | Color: 0.03 @ ƒ/1.4 B/W: 0 with IR | Color: 0.03 @ ƒ/1.4 B/W: 0 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: 0.070 @ ƒ/2.5 B/W: 0 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: 0.038 @ ƒ/1.4 B/W: 0 with IR | Color: 0.038 @ ƒ/1.4 B/W: 0 with IR | Color: 0.038 @ ƒ/1.4 B/W: 0 with IR |
| **Lens** | 2.8 -12 mm, motorized lens | 2.8 -12 mm, motorized 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 option) | Fixed, 3.6 mm @ ƒ/2.5 (6 mm option) | Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option) | 2.8 -12 mm, motorized lens | 2.8 -12 mm, motorized lens | 2.8 -12 mm, motorized lens | 2.8 -12 mm, motorized lens |
| **Horizontal Angle of View** | 35.1° to 114.5° | 35.1° to 114.5° | 84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm) | 84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm) | 84° (2.8 mm), 67.8° (3.6 mm) | 67.8° (3.6 mm), 44.6 (6 mm) | 84° (2.8 mm), 67.8° (3.6 mm), 44.6 (6 mm) | 26.8° to 83° | 26.8° to 83° | 26.8° to 83° | 26.8° to 83° |
| **Pan/Tilt/Rotation** | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 340°/ 0° to 75°/0° to 355° | 0° to 340°/ 0° to 75°/0° to 355° | 3-Axis Positioning | 0° to 360°/ 0° to 75°/0° to 360° | 3-Axis Positioning | 0° to 360°/ 0° to 75°/0° to 360° | 3-Axis Positioning | 0° to 360°/ 0° to 75°/0° to 360° | 0° to 355°/ 0° to 75°/0° to 355° | 0° to 355°/ 0° to 75°/0° to 355° |
| **Day/Night** | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| **BLC/WDR** | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| **IR Range Max. (meters)** | 30 | 40 | 20 | 20 | 20 | 80 | 40 | 40 | 40 | 30 | 40 |
| **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** | UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | UL/cUL Listed | 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) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) |
| **Power Requirements (max.)** | 12 VDC, 4.5 W 24 VAC, 6.5 W | 12 VDC, 4.5 W 24 VAC, 6.5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 5 W | 12 VDC, 6W 24 VAC, 9W | 12 VDC, 6W | 12 VDC, 4.5W 24 VAC, 6.5W | 12 VDC, 4.5W 24 VAC, 6.5W |

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

# TurboHD™ 3.0 ANALOG CAMERAS - 5 MP

| | OUTDOOR DOME | OUTDOOR BULLET | | OUTDOOR TURRET | OUTDOOR BULLET | OUTDOOR TURRET | | OUTDOOR BULLET | OUTDOOR TURRET | INDOOR DOME | OUTDOOR DOME |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | DS-2CE56H1T-VPIT | DS-2CE16H1T-IT1 | DS-2CE16H1T-IT3 | DS-2CE56H1T-ITM | DS-2CE16H1T-IT5 | DS-2CE56H1T-IT1 | DS-2CE56H1T–IT3 | DS-2CE16H1T–AIT3Z | DS-2CE56H1T-IT3Z | DS-2CE56H1T-AITZ | DS-2CE56H1T–AVPIT3Z |
| 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 | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) | 2592 (H) x1944 (V) |
| CVBS Resolution | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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: 0.053 @ ƒ/2.5 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: 0.01 @ ƒ/1.2 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: 0.01 @ ƒ/1.2 B/W: 0 with IR | Color: 0.01 @ ƒ/1.2 B/W: 0 with IR | Color: 0.01 @ ƒ/1.2 B/W: 0 with IR |
| Lens | Fixed, 2.8 mm, 3.6 mm and 6 mm | Fixed, 2.8 mm, 3.6 mm and 6 mm | Fixed, 2.8 mm, 3.6 mm, 6 mm, 12 mm | Fixed, 2.8 mm, 3.6 mm and 6 mm | Fixed, 3.6 mm, 6 mm, 12 mm | Fixed, 2.8 mm, 3.6 mm and 6 mm | Fixed, 2.8 mm, 3.6 mm, 6 mm, 12 mm | 2.8 -12 mm motorized lens | 2.8 -12 mm motorized lens | 2.8 -12 mm motorized lens | 2.8 -12 mm motorized lens |
| Horizontal Angle of View | 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) | 86.5° (2.8 mm), 70.1° (3.6 mm), 46° (6 mm), 20.9° (12 mm) | 86.5° (2.8 mm), 70.1° (3.6 mm), 46° (6 mm) | 70.1° (3.6 mm), 46° (6 mm), 20.9° (12 mm) | 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) | 27.7° to 86.8° (2.8 to 12 mm) | 27.7° to 86.8° (2.8 to 12 mm) | 27.7° to 86.8° (2.8 to 12 mm) |
| Pan/Tilt/Rotation | 0° to 340° / 0° to 75° / 0° to 355° | 3-Axis Positioning | 3-Axis Positioning | 0° to 360° / 0° to 75° / 0° to 360° | 3-Axis Positioning | 0° to 360° / 0° to 75° / 0° to 360° | 0° to 360° / 0° to 90° / 0° to 360° | 3-Axis Positioning | 0° to 360° / 0° to 75° / 0° to 360° | 0° to 355° / 0° to 75° / 0° to 355° | 0° to 340° / 0° to 75° / 0° to 355° |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB | Yes/120 dB |
| IR Range Max. (meters) | 20 | 20 | 40 | 20 | 80 | 20 | 40 | 40 | 40 | 30 | 40 |
| 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 | IP67, UL/cUL Listed | IP67, UL/cUL Listed | IP65, 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.) | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W; -A 24VAC +/-20%, 9W | 12 VDC +/-30%, 5 W | 12 VDC +/-30%, 5 W; -A 24VAC +/-20%, 9W | 12 VDC +/-30%, 5 W; -A 24VAC +/-20%, 9W |

All models marked NEW, EXIR, 5 MP

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

# TurboHD™ ANALOG CAMERAS - 720p AND 1080p

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

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

**TurboHD™** | **ANALOG MIGRATION SOLUTIONS**

**OUTDOOR TURRET**

| Model | DS-2CE56C2T-IRM | DS-2CE56D1T-IRM* | DS-2CE56D1T-IT1 | DS-2CE56C5T-IT1 | DS-2CE56D5T-IT3* | DS-2CE56C5T-VFIT3 | DS-2CE56D5T-VFIT3 | DS-2CE56D5T-IR3Z |
|---|---|---|---|---|---|---|---|---|
| | 720p | *Black model available DS-2CE56D1T-IRMB  1080p | EXIR  1080p | EXIR  720p | EXIR  *Black model available DS-2CE56D5T-IT3B  1080p | EXIR  720p | EXIR  1080p | 1080p |
| Video Out | HD-TVI | HD-TVI | HD-TVI | HD-TVI/CVBS (selectable) | HDTVI/CVBS (Dual) | HD-TVI/CVBS (selectable) | HD-TVI/CVBS (Dual) | HD-TVI/CVBS (Dual) |
| Image Sensor | 1/3" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/2.7" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS | 1/3" progressive scan CMOS |
| HD-TVI Resolution | 1280x720 | 1920x1080 | 1920x1080 | 1280x720 | 1920x1080 | 1280x720 | 1920x1080 | 1920x1080 |
| CVBS Resolution | --- | --- | --- | 720TVL | 600TVL | 720TVL | 600TVL | 600TVL |
| Min. Illumination (lux) | Color: 0.043 @ ƒ/2.5 B/W: 0 with IR | Color: 0.034 @ ƒ/2.5 B/W: 0 with IR | Color: 0.034 @ ƒ/2.5 B/W: 0 with IR | Color: 0.043 @ ƒ/2.5 B/W: 0 with IR | Color: 0.043 @ ƒ/2.5 B/W: 0 with IR | Color: 0.0014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR | Color: 0.014 @ ƒ/1.4 B/W: 0 with IR |
| Lens | Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option) | Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option) | Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm option) | Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 8 mm option) | Fixed, 3.6 mm @ ƒ/2.5 (2.8 mm, 6 mm, 12 mm, option) | 2.8 to 12 mm @ ƒ/1.4, manual | 2.8 to 12 mm @ ƒ/1.4, manual | 2.8 to 12 mm @ ƒ/1.4, motorized |
| Horizontal Angle of View | 76.88° (3.6 mm), 99.73° (2.8 mm), 50.1° (6 mm) | 105° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm) | 105° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm) | 71.43° (3.6 mm), 92.45° (2.8 mm), 46.9° (6 mm), 34.5° (8 mm) | 80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm) | 78° to 28° | 92° to 32° | 103° to 32.1° |
| Pan/Tilt/Rotation | 0° to 355°/ 0° to 75°/ 0° to 355° | 0° to 355°/ 0° to 75°/ 0° to 355 | 0° to 355°/ 0° to 75°/ 0° to 355 | 0° to 355°/ 0° to 75°/ 0° to 355° | 0° to 355°/ 0° to 75°/ 0° to 355° | 0° to 355°/ 0° to 75°/ 0° to 355° | 0° to 355°/ 0° to 75°/ 0° to 355° | 0° to 355°/ 0° to 75°/ 0° to 355° |
| Day/Night | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE | TRUE |
| BLC/WDR | No/No | Yes/No | Yes/No | No/Digital | Yes/120 dB | No/Digital | Yes/120 dB | Yes/120 dB |
| IR Range Max. (meters) | 20 | 20 | 20 | 20 | 40 | 50 | 50 | 40 |
| Vertical Synchronization | Internal | Internal | Internal | Internal | Internal | Internal | Internal | Internal |
| OSD Menu via Up-the-Coax (UTC) | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Ratings | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed | IP66, UL/cUL Listed |
| Operating Temperature Range | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -40° C to 60° C (-40 ° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) | -30° C to 60° C (-22° F to 140° F) |
| Power Requirements (max.) | 12 VDC, 3.5 W | 12 VDC, 3 W | 12 VDC, 3 W | 12 VDC, 3 W | 12 VDC, 5 W | 12 VDC, 6 W | 12 VDC, 7 W | 12 VDC, 6 W |

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

# TurboHD™

## OUTDOOR BULLET

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

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

**TurboHD™ | ANALOG MIGRATION SOLUTIONS**

# TurboHD™ ANALOG PTZ CAMERAS - 720p AND 1080p

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

TurboHD Cameras Accessories: Video Balun DS-1H18. See page 49 for details.

# TurboHD™ + TurboHD 3

## TRIBRID DIGITAL VIDEO RECORDERS

| | TurboHD™ 4.0 TRIBRID DVR - VALUE SERIES | | | TurboHD™ 3.0 TRIBRID DVR - VALUE SERIES | | |
|---|---|---|---|---|---|---|
| **Model** | DS-7204HQI-K1 | DS-7208HQI-K2 | DS-7216HQI-K2 | DS-7204HUHI-F1/N | DS-7208HUHI-F2/N | DS-7216HUHI-F2/N |
| **Max. Recording Resolution** | CH01: 3 MP, CH02-04: 1080p | CH01-02: 3 MP, CH03-08: 1080p | CH01-04: 3 MP, CH05-16: 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+ |
| **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** | 1-ch/1-ch | 1-ch/1-ch | 1-ch/1-ch | 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 8 TB each) | 2 (up to 8 TB each) | 2 (up to 8 TB each) | 1 (up to 6 TB each) | 2 (up to 6 TB each) | 2 (up to 6 TB each) |
| **Max. Internal Storage** | 8 TB | 16 TB | 16 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)** | 60 | 96 | 128 | 60 | 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** | 12 VDC, ≤15 W without HDD | 12 VDC, ≤20 W without HDD | 12 VDC, ≤20 W without HDD | 12 VDC, ≤15 W without HDD | 12 VDC, ≤20 W without HDD | 12 VDC, ≤20 W without HDD |

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

FEATURED PRODUCT

# Tribrid DVRs detect CVBS, TVI, and IP cameras

DS-7200HUI-Kx SERIES >

The new DS-7200HUI-Kx Series of TurboHD DVRs supports all the new 5 MP TurboHD cameras in models with 4, 8, and 16 channel inputs. Now, razor sharp images at 2592x1944 resolution can be displayed and recorded with HD quality. These tribrid DVRs can auto-detect a standard analog (CVBS), HD-TVI camera, and an IP camera input of up to 6 MP. They also support Hikvision's unique H.265+ video compression, and they include great features ranging from front panel controls to real-time recording and a 16 TB internal recording capability.

**TurboHD + TurboHD3**       **TRIBRID DIGITAL VIDEO RECORDERS**

| | TurboHD™ 4.0 TRIBRID DVR - VALUE SERIES | | | TurboHD™ 3.0 TRIBRID DVR - VALUE SERIES | |
|---|---|---|---|---|---|
| Model | DS-7204HUI-K1 | DS-7208HUI-K2 | 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 | 1 USB2.0 + 1 USB3.0 | 1 USB2.0 + 1 USB3.0 |
| 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] | 2-ch | 2-ch | 2-ch | 2-ch | 2-ch |
| 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 | 100 to 240 VAC, 50 to 60 Hz, ≤15 W without HDD | 100 to 240 VAC, 50 to 60 Hz, ≤20 W without HDD | 100 to 240 VAC, 50 to 60 Hz, ≤25 W without HDD | 100 to 240 VAC, 50 to 60 Hz, ≤45 W without HDD | 100 to 240 VAC, 50 to 60 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™ + TurboHD™3

## TRIBRID DIGITAL VIDEO RECORDERS

| 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 6, RAID 10 | RAID 0, RAID 1, RAID 5, RAID 6, RAID 10 | RAID 0, RAID 1, RAID 5, RAID 10 (up to 16TB) | RAID 0, RAID 1, RAID 5, RAID 10 (up to 16TB) |
| 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 if HD-TVI channels disabled) | 18 up to 6 MP (up to 32 if HD-TVI channels disabled) |
| Front Panel Control | Yes | Yes | Yes | Yes | Yes | Yes | 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, ≤35 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.

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

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

# ACCESSORIES

## TurboHD™ LOOPING PANEL

| Model | DS-1TLP16I |
|---|---|
| Video in | 16-ch, BNC connector |
| Signal format | CVBS, HDTVI and AHD |
| Video out | 16-ch, BNC connector |
| Loop out | 16-ch, BNC connector |
| Signal format | CVBS, HDTVI and AHD |
| Transmission distance | CVBS, 720P: Up to 500 m (input and output cable combined) 1080P: Up to 300 m (input and output cable combined) |
| Power supply | 1 × 12 VDC (2-pin connector)/1 × USB |
| Power consumption | ≤ 3.6 W |
| Operating temperature | -10 ºC to +55 ºC (14 ºF to 131 ºF) |
| Operating humidity | 10% to 90% |
| Dimensions(W × D × H) | 315 × 100 × 52 mm (12.4 × 3.9 × 2.0 inch) |
| Weight | ≤ 1.5 kg (3.3 lb) |

|  | 4K MONITOR | MONITORS | | PVM MONITOR | MONITOR |
|---|---|---|---|---|---|
| Model | DS-D5055UL | DS-D5042FL | DS-D5032FL | DS-D5032FL-B | DS-D5022FC |
| Bezel Material | Plastic | Metal | Metal | Metal | Plastic |
| Working Time | 7x24h | 7x24 h | 7x24 h | 7x24h | 7x24h |
| Display Type | LED-Backlit TFT LCD | LED-Backlit TFT LCD | LED-Backlit TFT LCD | LED-Backlit TFT LCD | LED-Backlit TFT LCD |
| Screen Size | 54.64" | 42" | 32" | 32" | 21.5" |
| Pixel Pitch (H×V) | 0.42 mm x 0.315 mm | 0.807 mm × 0.807 mm | 0.807 mm × 0.807 mm | 0.3637 mm × 0.3637 mm | 0.247 mm × 0.247 mm |
| Max. Resolution | 3840×2160P | 1920×1080p | 1920×1080p | 1920×1080P | 1920×1080 |
| Brightness | 350cd/m² (Typical) | 400cd/m² (Typical) | 400cd/m² (Typical) | 400cd/m² (Typical) | 250cd/m² (Typical) |
| Contrast | 1200:1 | 4000:1 | 4000:1 | 4000:1 | 1000:1 |
| Response Time | 8 ms | 8 ms | 8 ms | 6.5ms | 5 ms |
| Color | 1.07B(10bit) | 16.7 M | 16.7 M | 16.7 M | 16.7 M |
| Viewing Angle | Horizontal 178°, Vertical 178° | Horizontal 178°, Vertical 178° | Horizontal 178°, Vertical 178° | Horizontal 178°, Vertical 178° | Horizontal 170°, Vertical 160° |
| Inputs | 2x HDMI, 1x VGA, DVI, DP1 | 1x HDMI, VGA, DVI, BNC, USB | 1x HDMI, VGA, DVI, BNC, USB | 1x HDMI, VGA, DVI, BNC, USB | 1x HDMI, VGA, BNC, USB |
| Outputs | --- | --- | --- | BNC | BNC |
| Audio input | 1, 3.5 mm mini-jack | 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 Out | --- | 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 | 10Wx2 | 3 W x 2 | 3 W x 2 | 3 W x 2 | 2 W x 2 |
| Ratings | UL,CE,FCC | CE, FCC | CE, FCC | UL,CE,FCC | CE, FCC |
| 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 | 100-220 VAC, 50/60Hz |
| Power Consumption | 130 W(Normal working), 1 W (Standby) | 140 W (Normal working), 1 W (Standby) | 75 W (Normal working), 1 W (Standby) | 70 W (Normal working), 1 W (Standby) | 30 W (Normal working), 0.5 W (Standby) |
| Operation Temperature | 5° to 40 °C | 0° C to 40° C | 0° C to 40° C | 0° to 40 °C | 0° to 40 °C |
| Operating Humidity | 20% to 80% (No Condensation) | 10% to 85% (No Condensation) | 10% to 85% (No Condensation) | 10% to 85% (No Condensation) | 10% to 85% (No Condensation) |
| Storage Temperature | -10° to 55°C | -20° C to 55° C | -20° C to 55° C | -20° to 55°C | -20° to 60°C |
| VESA Mount | 200 mmx300 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 | 190115890 | 190109090 | 190115887 | 190115887 | Included |
| Wall Mount | 190115893 | 190108462 | 190115892 | 190115892 | 190112560 |
| Dimension (W×H×D) | 1246.93 mm × 725.23 mm × 79.9 mm | 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 mm × 452.5 mm × 70.65 mm (29.03" ×17.81" ×2.78") | 511.4 × 313 × 45.4 mm (20.1 x 12.3" x 1.8") |
| Weight | 20.57±1.5 Kg(Gross Weight), 14.97±1.5 Kg(Net Weight | 28 Kg (62 lbs) | 19 Kg (42 lbs) | 19 Kg (42 lbs) | 4.4 Kg (9 lbs) |

# ACCESSORIES

## PoE GIGABIT L2.5 ETHERNET SWITCHES | PoE UNMANAGED SWITCHES

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

## PoE WEB-MANAGED ETHERNET SWITCH

| Model | DS-3E1310P-E | DS-3E1318P-E | DS-3E1326P-E |
|---|---|---|---|
| |  NEW |  NEW |  NEW |
| Ports | 8p 10/100 Base-T, 1uplink 10/100 | 16p 10/100 Base-T, 2 uplinks10/100/1000 | 24p 10/100 Base-T, 2 uplinks 10/100/1000 |
| Forwarding | 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, 170 W | 110 to 240 VAC, 250 W |

## MEGAPIXEL AUTO IRIS LENSES

| | TV0515D-MPIR | YV2.8x2.8SR4A-SA2 | YV3.3x15SR4A-SA2L | DV4x12.5SR4A-SA1 | TV2712D-MPIR | TV0550D-MPIR | DV3.8x4SR4A-SA1 | DV4X12.5SR4A-SA1L | HV0733D-6MP | HV1140D-8MPIR | HV3816D-8MPIR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | | | | | | | | | | | |
| Specifications | 1.3 MP, 1/3" imager size, IR, auto iris, 5 to 15 mm, ƒ/1.4, manual zoom, CS mount | 3.0 MP, 1/2.7" imager size, auto iris, 2.8 to 8 mm, ƒ/1.3, manual zoom, CS mount | 3.0 MP, 1/2.7" imager size, auto iris, 15 to 50 mm, ƒ/1.5, manual zoom, CS mount | 5.0 MP, 1/1.8" imager size, auto iris, 12.5 to 50 mm, ƒ/1.6, manual zoom, C mount | 3.0 MP, 1/2.7" imager, 2.7 to 12 mm, ƒ/1.2, manual zoom, CS mount | 3.0 MP, 1/2.7 imager, 5 to 50 mm, ƒ/1.7, manual zoom, CS mount | 3.0 MP, 1/1.8 sensor, auto iris, IR, 4 to 15.2 mm, ƒ/1.5, manual zoom, C mount | 5.0 MP, 1/1.8 sensor, auto iris, IR, 12.5 to 50 mm, ƒ/1.6, manual zoom, C mount | Lens, 6 MP 1/1.8 sensor, auto iris, 7 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-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 | 1 TB | 2 TB | 3 TB | 4 TB | 6 TB |
| Interface | 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 |
| 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 |

## HDD FOR STORAGE PRODUCTS / DVD-RW / MICRO SD CARD

| | HDD-SAS4T | HDD-SAS6T | HIK-DVDRW | DS-UTF32G-H1 | DS-UTF64G-H1 |
|---|---|---|---|---|---|
| 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 |

## HD-TVI JOYSTICK / HD-TVI MONITOR / HD-TVI CONVERTER / BALUN

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

## ETHERNET OVER COAX

| | DS-1H05-T | DS-1H05-R | DS-1H05-8R | DS-1H05-16R |
|---|---|---|---|---|
| Model | | | | |
| Input Interface | RJ-45 interface and BNC | BNC | 8 - BNC | 16 - BNC |
| Output Interface | BNC | RJ-45 Interface and BNC | 2 - RJ-45 Interface | 4 - RJ-45 Interface |
| Maximum Bandwidth (Mbps) | 36 (downstream) | 11 (upstream) | 11 (upstream) | 11 (upstream) |
| Distance | Up to 1,500 feet with RG6/U cable | Up to 1,500 feet with RG6/U cable | Up to 1,500 feet with RG6/U cable | Up to 1,500 feet with RG6/U cable |
| Dimensions | 80 x 96 x 27 mm | 80 x 96 x 27 mm | 440 x 44.5 x 195 mm | 440 x 44.5 x 195 mm |
| Operating Conditions (max.) | -10° C to +55° C | -10° C to +55° C | -10° C to +55° C | -10° C to +55° C |
| Power Requirements (max.) | 12 VDC, PSU included, 5 W (does not power camera) | 12 VDC, PSU included, 5 W (does not power camera) | 12 VDC, PSU included, 5 W (does not power camera) | 12 VDC, PSU included, 5 W (does not power camera) |

## ACCESSORIES

### STORAGE PRODUCTS

| Model | DS-A81016S | DS-A82024D |
|---|---|---|
| |  |  |
| Controller/Processor | Single, 64-bitmulti-core processor | Double, 64-bitmulti-core processor |
| High-speed buffer | 4 GB (expandable to 8G) | 4 GB (expandable to 8G) |
| Video Input/Output | IPSAN: 180-ch (2 Mbps) CVR:320-ch (2 Mbps) | IPSAN: 256-ch (2 Mbps) CVR:448-ch (2 Mbps) |
| 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, JBOD, Hot-Spare | RAID 0, 1, 3, 5, 6,10,50, JBOD, Hot-Spare |
| Disk management | S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) | S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) |
| LUN management | iSCSI Volume, Record Volume | iSCSI Volume, Record Volume |
| Data protection | Real-time backup of system information, LUN clone | Real-time backup of system information, LUN clone |
| Recording type | Continuous/Manual / Main and Sub Stream/ Motion /Sensor, etc. | Continuous/Manual / Main and Sub Stream/ Motion /Sensor, etc. |
| Recording backup | 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 | 1 |
| COM interface | 2 (1 for hyper terminal and 1 for mobile phone alarm/UPS) | 2 (1 for hyper terminal and 1 for mobile phone alarm/UPS) |
| USB interface | 2 | 2 |
| Power Supply | Redundant (1+1); single power available | Redundant (1+1); single power available |
| Power consumption | Max. 460 W (with HDD, redundant power); Max. 400 W (with HDD, single power) | Working Consumption: ≤ 380 (with HDD or DVD/RW Rating Power Consumption: ≤1050W |
| Temperature | Operating: 5°-40°; Storage: -20°-70° | Operating 5 °C~40 °C Storing: -20 °C~70 °C |

### STORAGE EXPANSION

| Model | DS-AJ6816S | DS-AJ6824D |
|---|---|---|
| |  |  |
| 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) |

### KEYBOARDS

| Model | DS-1005KI | DS-1006KI | DS-1100KI |
|---|---|---|---|
| |  |  NEW |  |
| RS-485 | No | Yes | Yes |
| USB | Yes | Yes | Yes |
| Interface Port | USB 2.0 | RS-232, RS-422, RS-485 | 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 | 3−Axis |
| Resolution | N/A | N/A | 1920x1080 |
| Network | N/A | N/A | Yes |
| Power Requirements | 5 VDC via USB (≤5 W) | 12 VDC (<10 W) | 12 VDC (<15 W) |

# ACCESSORIES

## 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 | | | | | NEW | | | | | | | | | | | | | NEW |
| 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

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

## SUN/RAIN SHIELD | DVR/NVR | CAMERA BRACKETS

| | SRS | SRSM | SRSL | WMR* | PC110* | PC110T* | PC120* | PC130* | PC130T* | PC135* | PC140* | PC140PT | PC160 | PC165 | PC210 | PC-FE | CB110* | CB-130 | CB135* | CB140PT | CB165 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | *Black model SRSB | | | | *Black model PC110B | *Black model PC110TB | *Black model PC120B | *Black model PC130B | *Black model PC130TB | *Black model PC135B | *Black model PC140B | | | | | | *Black model CB110B | | *Black model CB135B | | |
| Description | Wall mount dome rain and sun protection | Medium for outdoor dome rain and sun protection | Large for outdoor dome rain and sun protection | Wall Mounted Bracket for DVR/NVR | 110 mm Pendant Cap | 110TRS Pendant Cap | 120 mm Pendant Cap | 130 mm Pendant Cap | 130TRL Pendant Cap | 135 mm Pendant Cap | 140 mm Pendant Cap | 140 mm Pendant Cap for DS-2DE3304W-DE | 160 mm Pendant Cap | 165 mm Pendant Cap | 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 |

Compatible with WMS and WML ——— Compatible with WML

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

## CAMERA BRACKETS

| | CB-FE | CBM | CBS* | CBXS* | CBT-1 | AB110* | AB135* | AB165 | AB-FE | AB-FE2 | AB-FE45* | ABS* | ABM | RCM-1* | RCM-2* | RCM-3* | RCM-4 | WM-C | WM110* | GP100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Model | | | *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 for Fisheye | 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

# BRACKET CHART

| Camera Model | PENDANT CAP | | | | | | | | | | | | CONDUIT BASE | | | | | | | | | | ANGLED BASE | | | | | | | | RECESSED CEILING MOUNT | | | | WALL MOUNT | | SUN/RAIN SHADE | | | GP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PC110 | PC110T | PC120 | PC130 | PC130T | PC135 | PC140 | PC140PT | PC160 | PC210 | PC-FE | PC165 | CB110 | CB130 | CB135 | CB140PT | CB165 | CB-FE | CBM | CBS | CBXS | CBT-1 | AB110 | AB135 | AB165 | AB-FE | AB-FE2 | AB-FE45 | ABM | ABS | RCM-1 | RCM-2 | RCM-3 | RCM-4 | WM-C | WM110 | SRS | SRSL | 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 | | | | | | | | | | | | | | | | | | | | ● | | | | | | | | | | | | | | | | | | | | |
| **VALUE SOLUTIONS** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DS-2CD20xx-I | | | | | | | | | | | | | | | | | | | | | ● | | | | | | | | | | | | | | | | | | | |
| DS-2CD21x2F-I | ● | | | | | | | | | | | | ● | | | | | | | | | | ● | | | | | | | | | | | | | | ● | ● | ● | |
| DS-2CD22x2-I5 | | | | | | | | | | | | | | ● | | | | | | ● | | | | | | | | | | | | | | | | | | | | |
| DS-2CD23x2-I | | | | | ● | | | | | | | | | | | | | | ● | | | | | | | | | | ● | | | | | | | | | | | |
| DS-2CD25xxF-xx | | | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DS-2CD26x2F-I* | | | | | | | | | | | | | | ● | | | | | | ● | | | | | | | | | | | | | | | | | | | | |
| DS-2CD27x2F-I | | | | | | ● | | | | | | | | | ● | | | | | | | | | ● | | | | | | | ● | | | | | | ● | ● | | |
| DS-2CD2942F-IS | | | | | | | | | | | | | | | | | | | | | | | | | | | ● | | | | | | | | ● | | | | | |
| **PTZ CAMERA** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DS-2DE2103-DE3/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ● | | | | | |
| DS-2DE2202I-DE3/W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ● | | | | | |
| DS-2DE3304W-DE | | | | | | | | ● | | | | | | | | ● | | | | | | | | | | | | | | | | | | ● | | | | | | |

*Includes CB130 conduit base
GP = Gang Plate

# BRACKET CHART

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

GP = Gang Plate

# BRACKET CHART

**TurboHD™ | ANALOG MIGRATION SOLUTIONS**

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

GP = Gang Plate

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

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

| | |
|---|---|
| **Live View** | Support up to 4 output screens, recommend maximum of 32 live views |
| **Encoding Device** | Up to 256 encoded devices |
| **Decoding Device** | Up 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.

| Model | Page | Model | Page | Model | Page | Model | Page | Model | Page | Model | Page | Model | Page | Model | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AB-FE | 51 | DS-2CD2025FWD-I | 26 | DS-2CD2E10F | 28 | DS-2CD6412FWD-L30 | 15 | DS-2CE56D7T-ITM | 36 | DS-2DY3220IW-DE | 31 | DS-7608NI-E2/8P | 32 | iDS-2CD6412FWD/C | 13 |
| AB-FE2 | 51 | DS-2CD2032-I | 29 | DS-2CD2E20F | 28 | DS-2CD6424FWD-10 | 15 | DS-2CE56D7T-VPIT | 35 | DS-2DY3220IW-DE4 | 31 | DS-7608NI-EV2/8P | 34 | JBM-SS | 51 |
| AB-FE45 | 51 | DS-2CD2035FWD-I | 26 | DS-2CD2T22WD-I5 | 25 | DS-2CD6424FWD-20 | 15 | DS-2CE56D7T-VPIT | 36 | DS-2DY5223IW-AE | 19 | DS-7608NI-I2/8P | 32 | JBPW-L | 51 |
| AB110 | 51 | DS-2CD2042WD-I | 25 | DS-2CD2T25FWD-I5 | 27 | DS-2CD6424FWD-20/E | 15 | DS-2CE56D7T–AVPIT3Z | 37 | DS-2DY9188-A | 19 | DS-7616NI-E2/16P | 32 | PC-FE | 51 |
| AB135 | 51 | DS-2CD2055FWD-I | 26 | DS-2CD2T35FWD-I5 | 27 | DS-2CD6424FWD-30 | 15 | DS-2CE56F7T-AITZ | 37 | DS-2DY9188-AI2 | 19 | DS-7616NI-I2/16P | 32 | PC110 | 51 |
| AB165 | 51 | DS-2CD2085FWD-I | 26 | DS-2CD2T42WD-I5 | 25 | DS-2CD6424FWD-L40/E1 | 15 | DS-2CE56F7T-IT3 | 37 | DS-2DY9188-AIA | 19 | DS-7716NI-I4/16P | 32 | PC110T | 51 |
| ABM | 51 | DS-2CD2112F-I | 28 | DS-2CD2T52-I5 | 25 | DS-2CD6424FWD-L40/E2 | 15 | DS-2CE56F7T-IT3Z | 37 | DS-2TD2136-10/15/25/35 | 20 | DS-7732NI-I4 | 32 | PC120 | 51 |
| ABS | 51 | DS-2CD2112F-IWS | 33 | DS-2CD2T55FWD-I5 | 27 | DS-2CD6626B/E-HIR5 | 18 | DS-2CE56F7T-ITM | 37 | DS-2TD2166-15/25/35 | 20 | DS-7732NI-I4/16P | 32 | PC130 | 51 |
| Blazer Express 16/16P | 23 | DS-2CD2120F-I | 34 | DS-2CD2T85FWD-I5 | 27 | DS-2CD6626B/E-HIRA | 18 | DS-2CE56F7T-VPIT | 37 | DS-2TD2235D-25 | 20 | DS-9008HQHI-SH | 45 | PC130T | 51 |
| Blazer Express 32 | 23 | DS-2CD2122FWD-IS/B | 24 | DS-2CD4012FWD-A | 10 | DS-2CD6626BS-R | 18 | DS-2CE56F7T–AVPIT3Z | 37 | DS-2TD2235D-50 | 20 | DS-9008HUHI-F8/N | 44 | PC135 | 51 |
| Blazer Express 32/16P | 23 | DS-2CD2125FWD-I | 26 | DS-2CD4025FWD-A | 10 | DS-2CD6626DS-IZHS | 18 | DS-2CE56H1T-AITZ | 38 | DS-2TD4035D-25 | 21 | DS-9016HQHI-SH | 45 | PC140 | 51 |
| CB-130 | 51 | DS-2CD2132F-I | 28 | DS-2CD4032FWD-A | 10 | DS-2CD6986F-H | 13 | DS-2CE56H1T-IT3 | 38 | DS-2TD4035D-50 | 21 | DS-9016HUHI-F8/N | 44 | PC140PT | 51 |
| CB-FE | 51 | DS-2CD2132F-IWS | 33 | DS-2CD4065F-A | 10 | DS-2CD6W32FWD-IVS | 14 | DS-2CE56H1T-IT3Z | 38 | DS-2TD6135-50B2L | 21 | DS-96128NI-I24/H | 22 | PC160 | 51 |
| CB110 | 51 | DS-2CD2135FWD-I | 26 | DS-2CD4085F-AP | 10 | DS-2CE16C2T-IR | 41 | DS-2CE56H1T-ITM | 38 | DS-2TD6135-75B2L | 21 | DS-9616NI-I8 | 22 | PC165 | 51 |
| CB135 | 51 | DS-2CD2142FWD-IS/B | 24 | DS-2CD4112FWD-IZ | 11 | DS-2CE16C5T-IT1 | 41 | DS-2CE56H1T-VPIT | 38 | DS-2TD6166-50B2L | 21 | DS-96256NI-I24/H | 22 | PC210 | 51 |
| CB140PT | 51 | DS-2CD2152F-IS | 24 | DS-2CD4125FWD-IZ | 11 | DS-2CE16C5T-VFIR3 | 41 | DS-2CE56H1T–AVPIT3Z | 38 | DS-2TD6166-75B2L | 21 | DS-9632NI-I8 | 22 | PM | 51 |
| CB165 | 51 | DS-2CD2155FWD-I | 26 | DS-2CD4132FWD-IZ | 11 | DS-2CE16D1T-AVFIR3 | 41 | DS-2CE56H1T–IT1 | 38 | DS-3D2208P | 48 | DS-9664NI-I8 | 22 | PMP | 51 |
| CBM | 51 | DS-2CD2185FWD-I | 27 | DS-2CD4165F-IZ | 11 | DS-2CE16D1T-IR | 41 | DS-2DE2103-DE3/W | 33 | DS-3D2228P | 48 | DS-A81016S | 50 | PMPL | 51 |
| CBS | 51 | DS-2CD2212-I5 | 29 | DS-2CD4185F-IZ | 11 | DS-2CE16D1T-IT1 | 41 | DS-2DE2103-DE3/W | 30 | DS-3E0105P-E | 48 | DS-A82024D | 50 | RCM-1 | 51 |
| CBT-1 | 51 | DS-2CD2232-I5 | 29 | DS-2CD41C5F-IZ | 11 | DS-2CE16D5T-AIR3ZH | 41 | DS-2DE2202I-DE3/W | 33 | DS-3E0109P-E | 48 | DS-AJ6816S | 50 | RCM-2 | 51 |
| CBXS | 51 | DS-2CD2322WD-I | 25 | DS-2CD4212FWD-IZH | 11 | DS-2CE16D5T-AVFIT3 | 41 | DS-2DE2202I-DE3/W | 30 | DS-3E0318P-E | 48 | DS-AJ6824D | 50 | RCM-3 | 51 |
| CHB | 51 | DS-2CD2325FWD-I | 27 | DS-2CD4212FWD-IZH8 | 11 | DS-2CE16D5T-IT3 | 41 | DS-2DE3304W-DE | 30 | DS-3E0326P-E | 48 | DS-D5022FC | 47 | RCM-4 | 51 |
| CHB-HB | 51 | DS-2CD2332-I | 29 | DS-2CD4312FWD-IZHS | 12 | DS-2CE16D7T-IT | 36 | DS-2DE4220W-AE | 31 | DS-3E1310P-E | 48 | DS-D5032FL | 47 | RPM | 51 |
| CHB-HBW | 51 | DS-2CD2335FWD-I | 27 | DS-2CD4312FWD-IZHS8 | 12 | DS-2CE16D7T-IT5 | 36 | DS-2DE4220W-AE3 | 30 | DS-3E1318P-E | 48 | DS-D5032FL-B | 47 | RPM | 51 |
| CM | 51 | DS-2CD2342WD-I | 25 | DS-2CD4324WD-IZH | 12 | DS-2CE16D7T–AIT3Z | 36 | DS-2DE4A204IW-DE | 30 | DS-3E1326P-E | 48 | DS-D5042FL | 47 | SRS | 51 |
| CMP | 51 | DS-2CD2342WD-I | 34 | DS-2CD4324FWD-IZHS8 | 12 | DS-2CE16D9T-AIRAZH | 41 | DS-2DE4A220IW-DE | 30 | DS-6401HDI-T | 46 | DS-D5055UL | 47 | SRSL | 51 |
| CMPL | 51 | DS-2CD2352-I | 25 | DS-2CD4332FWD-IZHS | 13 | DS-2CE16F7T-IT | 37 | DS-2DE4A320IW-DE | 30 | DS-6404HDI-T | 46 | DS-TT-X41T | 49 | SRSM | 51 |
| CPM | 51 | DS-2CD2355FWD-I | 27 | DS-2CD4332FWD-IZHS8 | 13 | DS-2CE16F7T-IT5 | 37 | DS-2DE5220IW-AE | 31 | DS-6408HDI-T | 46 | DS-UTF32GI-H1 | 49 | T7104Q1TA | 35 |
| CPM-L | 51 | DS-2CD2385FWD-I | 27 | DS-2CD4526FWD-IZH | 13 | DS-2CE16F7T–AIT3Z | 37 | DS-2DE5230W-AE | 31 | DS-6701HWI | 46 | DS-UTF64GI-H1 | 49 | T7104Q1TB | 35 |
| CPM-S | 51 | DS-2CD2412F-IW | 33 | DS-2CD4535FWD-IZH | 13 | DS-2CE16H1T-IT1 | 38 | DS-2DE5230W-AE3 | 30 | DS-6704HWI | 46 | DV3.8x4SR4A-SA1 | 49 | T7108Q2TA | 35 |
| CPM-SS | 51 | DS-2CD2432F-IW | 33 | DS-2CD4535FWD-IZH8 | 13 | DS-2CE16H1T-IT3 | 38 | DS-2DE5330W-AE | 31 | DS-6708HQHI-SATA | 46 | DV4x12.5SR4A-SA1 | 49 | T7108Q2TB | 35 |
| CPME | 51 | DS-2CD2510F | 28 | DS-2CD4565F-IZH | 13 | DS-2CE16H1T-IT5 | 38 | DS-2DE7230IW-AE | 31 | DS-6708HWI | 46 | DV4X12.5SR4A-SA1L | 49 | TV0515D-MPIR | 49 |
| CPMPE | 51 | DS-2CD2512F-I | 28 | DS-2CD4585F-IZH | 13 | DS-2CE16H1T–AIT3Z | 38 | DS-2DE7330IW-AE | 31 | DS-6716HQHI-SATA | 46 | GP100 | 51 | TV0550D-MPIR | 49 |
| DS-1005KI | 50 | DS-2CD2520F | 28 | DS-2CD45C5F-IZH | 13 | DS-2CE56C2T-IRM | 40 | DS-2DE7430IW-AE | 31 | DS-6716HWI | 46 | HDD-SAS4T | 49 | TV2712D-MPIR | 49 |
| DS-1006KI | 50 | DS-2CD2522FWD-IS/B | 24 | DS-2CD4A24FWD-IZH | 11 | DS-2CE56C5T-AVFIR | 39 | DS-2DE7530IW-AE | 31 | DS-7104HQHI-F1/NB | 35 | HDD-SAS6T | 49 | WB-SS | 51 |
| DS-1045 | 49 | DS-2CD2522FWD-IWS | 33 | DS-2CD4A25FWD-IZH | 11 | DS-2CE56C5T-AVPIR3 | 39 | DS-2DF5220S-DE4/W | 33 | DS-7104NI-SL/W | 33 | HIK-DVDRW | 49 | WBL | 51 |
| DS-1100KI | 50 | DS-2CD2532F-I | 28 | DS-2CD4A25FWD-IZH8 | 11 | DS-2CE56C5T-IT1 | 40 | DS-2DF5220S-DE4/W | 16 | DS-7108HQHI-F1/NB | 35 | HikCentral | 23 | WBPT | 51 |
| DS-1H05-16R | 49 | DS-2CD2542FWD-IS/B | 24 | DS-2CD4A26FWD-IZH | 12 | DS-2CE56C5T-VFIT3 | 40 | DS-2DF5276-AE3 | 16 | DS-7108NI-E1/V/W/1T | 33 | HK-HDD1T | 49 | WBPT-S | 51 |
| DS-1H05-8R | 49 | DS-2CD2542FWD-IWS | 33 | DS-2CD4A26FWD-IZH8 | 12 | DS-2CE56D0T-IR | 35 | DS-2DF5276-AEL | 16 | DS-7204HQI-K1 | 43 | HK-HDD1T-E | 49 | WBS | 51 |
| DS-1H05-R | 49 | DS-2CD2552F-IS | 24 | DS-2CD4A35FWD-IZH | 12 | DS-2CE56D1T-AVFIR/B | 39 | DS-2DF5286-AE3 | 16 | DS-7204HUHI-F1/N | 43 | HK-HDD2T | 49 | WM-C | 51 |
| DS-1H05-T | 49 | DS-2CD2612F-I | 29 | DS-2CD4A35FWD-IZH8 | 12 | DS-2CE56D1T-AVPIR3/B | 39 | DS-2DF5286-AEL | 16 | DS-7204HUI-K1 | 44 | HK-HDD2T-E | 49 | WM110 | 51 |
| DS-1H18 | 49 | DS-2CD2622FWD-IZS | 25 | DS-2CD4A65F-IZH | 12 | DS-2CE56D1T-IRM/B | 40 | DS-2DF6236-AEL | 16 | DS-7208HQI-K2 | 43 | HK-HDD3T | 49 | WML | 51 |
| DS-1H33 | 49 | DS-2CD2632F-I | 29 | DS-2CD4A85F-IZH | 12 | DS-2CE56D1T-IT1 | 40 | DS-2DF6336V-AEL | 16 | DS-7208HUHI-F2/N | 43 | HK-HDD3T-E | 49 | WMP-L | 51 |
| DS-1TLP16I | 47 | DS-2CD2642FWD-IZS | 25 | DS-2CD4AC5F-IZH | 12 | DS-2CE56D1T-VPIR/B | 39 | DS-2DF7276-AEL | 16 | DS-7208HUI-K2 | 44 | HK-HDD4T | 49 | WMP-S | 51 |
| DS-2AE4223T-A | 42 | DS-2CD2712F-I | 28 | DS-2CD6026FHWD-A | 10 | DS-2CE56D5T-AIRZ | 39 | DS-2DF7286-AEL | 16 | DS-7216HQI-K2 | 43 | HK-HDD4T-E | 49 | WMP-SS | 51 |
| DS-2AE4223T-A3 | 42 | DS-2CD2722FWD-IZS/B | 24 | DS-2CD6026FHWD-A3/A7/A11 | 10 | DS-2CE56D5T-AVFIR/B | 39 | DS-2DF8236I-AELH | 17 | DS-7216HUHI-F2/N | 43 | HK-HDD6T | 49 | WMR | 51 |
| DS-2AE5123T-A | 42 | DS-2CD2732F-I | 28 | DS-2CD6332FWD-I | 14 | DS-2CE56D5T-AVPIR3/B | 39 | DS-2DF8236I5W-AELW | 17 | DS-7216HUI-K2 | 44 | HK-HDD6T-E | 49 | WMS | 51 |
| DS-2AE5123TI-A | 42 | DS-2CD2742FWD-IZS/B | 24 | DS-2CD6332FWD-IV | 14 | DS-2CE56D5T-AVPIR3ZH | 39 | DS-2DF8336IV-AELW | 17 | DS-7308HQHI-SH | 45 | HV0733D-6MP | 49 | WMS-SS | 51 |
| DS-2AE5230T-A | 42 | DS-2CD2752F-IZS | 24 | DS-2CD6362F-I | 14 | DS-2CE56D5T-IR3Z | 40 | DS-2DF8836I5V-AELW | 17 | DS-7308HUHI-F4/N | 45 | HV1140D-8MPIR | 49 | YV2.8x2.8SR4A-SA2 | 49 |
| DS-2AE5230T-A3 | 42 | DS-2CD2935FWD-IS | 27 | DS-2CD6362F-IV | 14 | DS-2CE56D5T-IT3/B | 40 | DS-2DF8836IV-AELW | 17 | DS-7316HQHI-SH | 45 | HV3816D-8MPIR | 49 | YV3.3x15SR4A-SA2L | 49 |
| DS-2AE7230TI-A | 42 | DS-2CD2942F-IS | 29 | DS-2CD63C2F-IV | 14 | DS-2CE56D5T-VFIT3 | 40 | DS-2DP0818Z-D | 19 | DS-7316HUHI-F4/N | 45 | I7604N1TA | 34 | | |
| DS-2CC12D9T-A | 39 | DS-2CD2955FWD-IS | 27 | DS-2CD6412FWD-C2 | 15 | DS-2CE56D7T-AITZ | 37 | DS-2DP1636-D | 19 | DS-7332HGHI-SH | 45 | I7604N1TP | 34 | | |
| DS-2CD2012-I | 29 | DS-2CD2D14WD | 29 | DS-2CD6412FWD-L10 | 15 | DS-2CE56D7T-IT3 | 36 | DS-2DP1636Z-D | 19 | DS-7604NI-E1/4P | 32 | I7608N2TA | 34 | | |
| DS-2CD2022WD-I | 25 | DS-2CD2D14WD/M | 29 | DS-2CD6412FWD-L20 | 15 | DS-2CE56D7T-IT3Z | 36 | DS-2DT6223-AELY | 18 | DS-7604NI-EV1/4P | 34 | I7608N2TP | 34 | | |

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