



PRO

First Choice for Security Professionals

***HIK*VISION**

Product Quick Guide

Q3 2015 V2

A large, stylized, and blurred graphic of a human eye is positioned on the right side of the page, partially overlapping the background pattern.

HIKVISION

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#1 Worldwide

Hikvision is a world leading innovator of award-winning video surveillance products and solutions. Established in 2001, Hikvision is a global enterprise with more than 13,000 employees—including 4,800 R&D engineers.

With the largest R&D team in the industry and a passion for continuous innovation, Hikvision is a total solution provider. Products include high-definition IP cameras, digital video servers, hybrid and standalone DVRs, NVRs, speed domes, encoders, and decoders. These products have been proven and tested in a variety of demanding environments around the world. For more information, please visit Hikvision's website at www.hikvision.com.

Dynamic growth and exceptional products have seen Hikvision recognized as the number one global vendor of CCTV and video surveillance equipment for three years in a row, according to IHS Research's World Market for CCTV and Video Surveillance Equipment Report 2014. Hikvision has also been listed for seven years in a row in Security 50, a market survey recognizing the top 50 security vendors in the global security market.



Secure Your World

HIKVISION

Hikvision provides a full range of video surveillance products and solutions. We are a "total solution provider" in the security industrie. Renowned across the globe, our systems are currently installed in over 100 countries spread across six continents. Hikvision products serve a diverse set of vertical markets, including Government, Retail, Banking and Finance, Transportation, Education, Commercial, and Residential Applications.

Hikvision is committed to protecting its customers while creating business value for them as well. Comprehensive products, solutions, and services customized for the end-user are essential in providing preeminent video surveillance tailored to a particular industry.



**SPORT /
ENTERTAINMENT**

**Bird's Nest Stadium, Beijing,
PRC.**



**SPORT /
ENTERTAINMENT**

**Universal Studios,
USA.**



TRANSPORTATION

**Central Station, Nuremberg,
Germany.**



**INDUSTRIAL /
LOGISTICS**

**Chronopost,
France.**



**INDUSTRIAL /
LOGISTICS**

**Makedonski Telekom AD,
FYROM.**



RETAIL

**West End City Center
Budapest, Hungary.**



**CITY
SURVEILLANCE**

**Shanghai World Expo,
PRC.**



**GOVERNMENT /
INSTITUTIONS**

**Eastern Military Command,
Brazil.**



**BANK /
FINANCE**

**Ziraat Bank,
Turkey.**



ENERGY

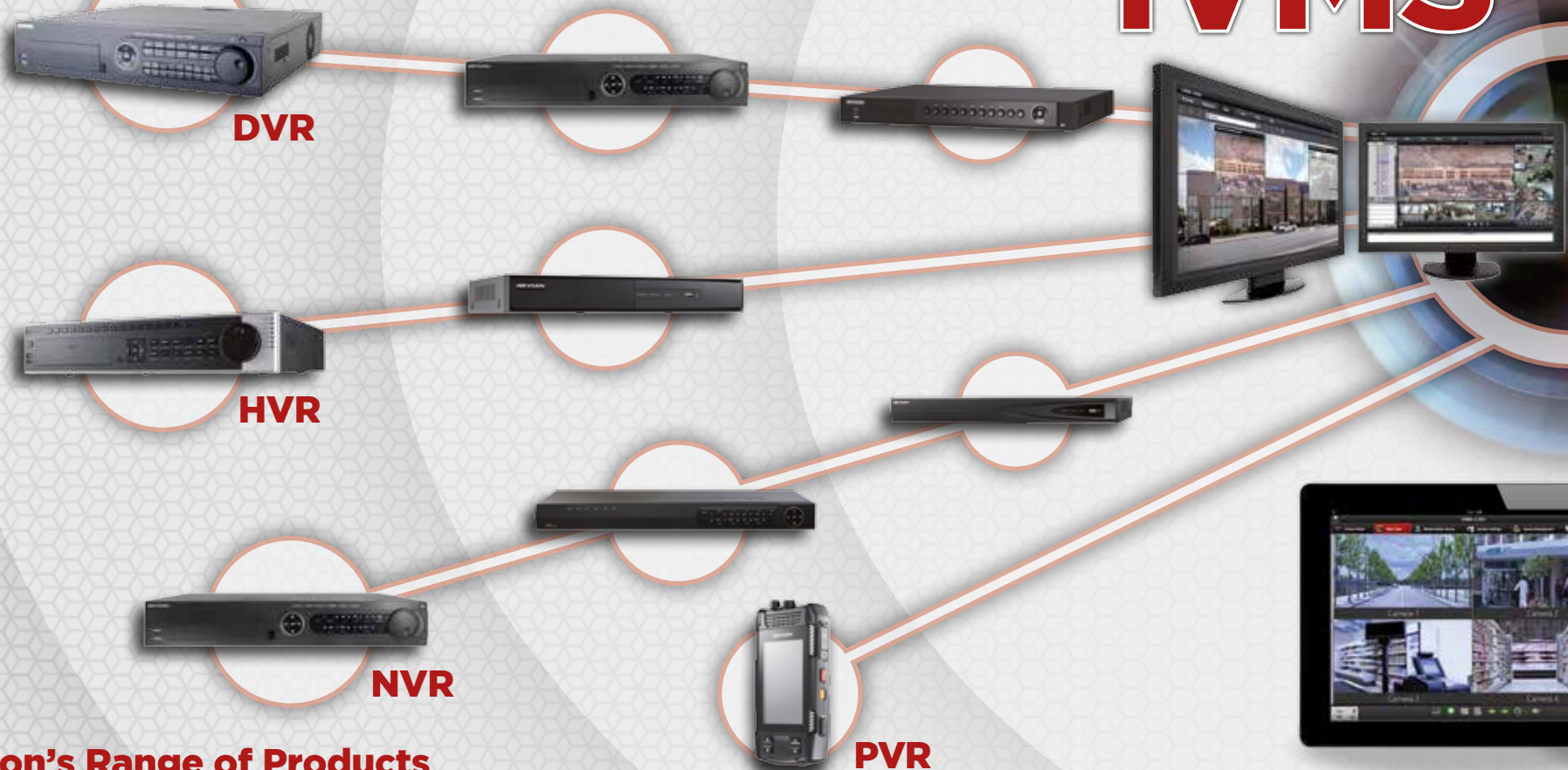
**Furnas Electric Power Plant,
Brazil.**

First Choice for Security Professionals

iVMS-4200 & iVMS-5200

Software client for the vertical management of the entire range of HIKVISION analog and IP products. Up to 256 devices (IP addresses), 4 monitor outputs, live and playback sessions, graphic maps with alert system, pop-up cameras, event logs, remote configuration and a multi-level user management.

iVMS



Hikvision's Range of Products

Hikvision offers a complete range of analog and hybrid DVRs and professional NVRs that allow the seamless integration of Internet-based and networking technologies into video surveillance solutions. Hikvision's digital video recording platform is the ideal solution to create the most innovative CCTV architectures, both analog and IP-based.

iVMS-4200 Storage Server

Application software for recording video streams onto your PC with redundant image data storage and effective scalability of analog and IP solutions.

HIKVISION

Intelligent Video Management Software



Megapixel IP Cameras



Speed Dome IP Cameras



iVMS-4500

Software client for centralized management on Android and iOS powered smartphones and tablets.



Encoder & Decoder



Analog and Speed Dome Cameras



First Choice for Security Professionals

Network Camera - Value Series

	Outdoor Bullet Fixed Focal			Indoor Dome Fixed Focal				
Model	DS-2CD2012-I	DS-2CD2020F-I	DS-2CD2032-I	DS-2CD2112F-I	DS-2CD2120F-I	DS-2CD2122F-IWS	DS-2CD2132F-I	DS-2CD2132F-IWS
	 1.3 MP	 2.0 MP	 3.0 MP	 1.3 MP	 2.0 MP	 2.0 MP	 3.0 MP	 3.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.07 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.07 @ f/1.2 B/W: 0 with IR	Color: 0.07 @ f/1.2 B/W: 0 with IR
Lens	4 mm @ f/2.0 (6 mm option)	4 mm @ f/2.0	4 mm @ f/2.0 (6 mm option)	2.8 mm @ f/2.0 (4 mm option)	2.8 mm @ f/2.0 (4 mm option)	2.8 mm @ f/2.0 (4 mm, 6 mm option)	2.8 mm @ f/2.0 (4 mm, 6 mm option)	2.8 mm @ f/2.0
Horizontal Angle of View	92.5° (4 mm), 73.1° (6 mm)	85° (4 mm)	70° (4 mm), 43.3° (6 mm)	92.5° (2.8 mm), 73.1° (4 mm)	106° (2.8 mm), 85° (4 mm), 52° (6 mm)	106° (2.8 mm), 85° (4 mm), 52° (6 mm)	98.5° (2.8 mm), 79° (4 mm), 49° (6 mm)	106° (2.8 mm)
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (meters)	up to 30	up to 30	up to 30	up to 30	up to 30	up to 30	up to 30	up to 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
Max. Image Resolution (pixels)	1280 x 960	1920 x 1080	2048 x 1536	1280 x 960	1920 x 1080	1920 x 1080	2048 x 1536	1920 x 1080
Frame Rate (fps)	25 @ 1280 x 960, 704 x 576, 640 x 480	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	20 @ 2048 x 1536 25 @ 1920 x 1080, 1280 x 720	25 @ 1280 x 960, 1280 x 720, 704 x 576	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	20 @ 2048 x 1536 25 @ 1920 x 1080, 1280 x 720	20 @ 2048 x 1536 25 @ 1920 x 1080, 1280 x 720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	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. ³	---	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
Other features	IP66	IP66	IP66	IP66/IK08	IP66/IK08	WiFi / IP66 / IK08	IP66/IK08	WiFi / IP66 / IK08
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)
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 W	12 VDC, PoE (802.3af), 5 W

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection³Firmware v 5.3 and later

Network Camera - Value Series

	Outdoor EXIR Bullet Fixed Focal		Outdoor Bullet Fixed Focal		Outdoor EXIR Turret Fixed Focal		Wi-Fi Cube	
Model	DS-2CD21212-I5	DS-2CD2232-I5	DS-2CD2T22-I5	DS-2CD2T22-I8	DS-2CD2312-I	DS-2CD2332-I	DS-2CD2412F-IW	DS-2CD2432F-IW
	 1.3 MP	 3.0 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 1.3 MP	 3.0 MP	 1.3 MP	 3.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.07 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.07 @ f/1.2 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
Lens	4 mm @ f/2.0 (6 mm option)	4 mm @ f/2.0 (6 mm option)	4 mm @ f/2.0 (6 mm option)	4 mm @ f/2.0 (6 mm option)	2.8 mm @ f/2.0 (4 mm option)	2.8 mm @ f/2.0 (4 mm option)	2.8 mm @ f/2.0 (4 mm option)	2.8 mm @ f/2.0 (4 mm option)
Horizontal Angle of View	73.1° (4 mm), 46° (6 mm)	70° (4 mm), 43.3° (6 mm)	85° (4 mm), 54° (6 mm)	85° (4 mm), 54° (6 mm)	92.5° (2.8 mm), 73.1° (4 mm)	86° (2.8 mm), 70° (4 mm)	92.5° (2.8 mm), 73.1° (4 mm)	86° (2.8 mm), 79° (4 mm)
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	3-Axis Positioning	3-Axis Positioning
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (meters)	Up to 50	Up to 50	Up to 50	Up to 80	up to 30	up to 30	Up to 10	Up to 10
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280 × 960	2048 × 1536	1920 × 1080	1920 × 1080	1280 × 960	2048 × 1536	1280 × 960	2048 × 1536
Frame Rate (fps)	25 @ 1280 × 960, 1280 × 720, 704 × 576, 640 × 480	20 @ 2048 × 1536 25 @ 1920 × 1080, 1280 × 720	25 @ 1920 × 1080, 1280 × 960, 1280 × 720	25 @ 1920 × 1080, 1280 × 960, 1280 × 720	25 @ 1280 × 960, 1280 × 720, 704 × 576	20 @ 2048 × 1536 25 @ 1920 × 1080, 1280 × 720	30 @ 1280 × 960, 1280 × 720	20 @ 2048 × 1536 30 @ 1920 × 1080, 1280 × 720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	---	---	---	Built-in mic and speaker	Built-in mic and speaker
Alarm Input/Output	---	---	---	---	---	---	1/1	1/1
Local Storage	---	---	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	---	---	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
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		
Other features	3D DNR, IP66, Bracket included	3D DNR, IP66, Bracket included	3D DNR, IP66, Bracket included	3D DNR, IP66, Bracket included	3D DNR, IP66	3D DNR, IP66	PIR / IEEE 802.11b/g/n PSU included	PIR / IEEE 802.11b/g/n PSU included
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	0° C to 40° C, humidity 95% (non-condensing)	0° C to 40° C, humidity 95% (non-condensing)
Power Requirements (max.)	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), 10 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection

³Firmware v 5.3 and later

Network Camera - Value Series

	Compact Dome					Fisheye	
Model	DS-2CD2510F	DS-2CD2512F-I	DS-2CD2512F-IS	DS-2CD2520F	DS-2CD2532F-I	DS-2CD2942F-I	DS-2CD2942F-IS
	 1.3 MP	 1.3 MP	 1.3 MP	 FULL HD 2.0 MP	 3.0 MP	 3.6 MP	 3.6 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.07 @ f/1.2 B/W: 0 with IR	Color: 0.018 @ f/1.6 B/W: 0.0018 @ f/1.6 0 with IR	Color: 0.018 @ f/1.6 B/W: 0.0018 @ f/1.6 0 with IR
Lens	2.8 mm @ f/2.0 (4mm option)	2.8 mm @ f/2.0 (4 mm option)	4 mm @ f/2.0	2.8 mm @ f/2.0 (4mm option)	2.8 mm @ f/2.0 (4 mm option)	1.6 mm, f/1.6	1.6 mm, f/1.6
Horizontal Angle of View	67.27° (2.8 mm), 52.4° (4 mm)	92.5° (2.8 mm), 73.1° (4 mm),	73.1° (4 mm)	106° (2.8 mm), 85° (4 mm),	86° (2.8 mm), 70° (4 mm),	186° (horizontal), 106° (vertical)	186° (horizontal), 106° (vertical)
Pan/Tilt/Rotation	±15°/0° to 90°/±15°	±30°/0° to 75°/ 0° to 360°	±30°/0° to 75°/ 0° to 360°	-15° to 15°/ 0° to 75°/-15° to 15°	±30°/0° to 75°/ 0° to 360°	---	---
Day/Night	Electronic	TRUE	TRUE	Electronic	TRUE	Electronic	Electronic
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (meters)	---	Up to 10	Up to 10	---	Up to 10	Up to 8	Up to 8
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280 × 960	1280 × 960	1280 × 960	1920 × 1080	2048 × 1536	2560 × 1440	2560 × 1440
Frame Rate (fps)	25 @ 1280 × 960, 1280 × 720, 704 × 576, 640 × 480	25 @ 1280 × 960, 1280 × 720, 704 × 576, 640 × 480	25 @ 1280 × 960, 1280 × 720, 704 × 576, 640 × 480	25 @ 1920 × 1080, 1280 × 960, 1280 × 720	20 @ 2048 × 1536, 25 @ 1920 × 1080, 1280 × 720	15 @ 2560 × 1440 30 @ 1920 × 1080, 1280 × 720	15 @ 2560 × 1440 30 @ 1920 × 1080, 1280 × 720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	OUT: 1 MIC: Built in	---	---	---	OUT: 1 MIC: Built in
Alarm Input/Output	---	---	1/1	---	---	---	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
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
Other features	IP66	IP66/IK8	IP66/IK8	IP66/IK8	IP66/IK8		
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-10° C to 40° C, humidity 95% (non-condensing)	-10° C to 40° C, humidity 95% (non-condensing)
Power Requirements (max.)	12 VDC, PoE (802.3af), 4 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), 5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection³Firmware v 5.3 and later

Network Camera - Value Series

	Outdoor Bullet Vari-Focal						
Model	DS-2CD2612F-I	DS-2CD2620F-I	DS-2CD2622FWD-I	DS-2CD2622FWD-IS	DS-2CD2632F-I	DS-2CD2642FWD-I	DS-2CD2642FWD-IS
	 1.3 MP	 2.0 MP	 2.0 MP	 2.0 MP	 3.0 MP	 4.0 MP	 4.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.07 @ f/1.2 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4
Horizontal Angle of View	80° to 25.7°	113° to 33.8°	113° to 33.8°	113° to 33.8°	105.2° to 31.9°	112° to 33.8°	112° to 33.8°
Pan/Tilt/Rotation	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
BLC/WDR	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/120 dB
IR Range (meters)	30	30	30	30	30	30	30
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280 x 960	1920 x 1080	1920 x 1080	1920 x 1080	2048 x 1536	2688 x 1520	2688 x 1520
Frame Rate (fps)	25 @ 1280 x 960 25 @ 1280 x 720, 704 x 576, 640 x 480	25 @ 1920 x 1080 25 @ 1280 x 720, 1280*960	25 @ 1920 x 1080 25 @ 1280 x 720, 1280*960	25 @ 1920 x 1080 25 @ 1280 x 720, 1280*960	20 @ 2048 x 1536 25 @ 1920 x 1080, 1280 x 720	20 @ 2688 x 1520 30 @ 1920 x 1080, 1280 x 720	20 @ 2688 x 1520 30 @ 1920 x 1080, 1280 x 720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	IN: 1 line OUT: 1 line	---	---	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	1/1	---	---	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	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
Other features	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	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	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection

Network Camera - Value Series

	Outdoor Dome Vari-Focal						
Model	DS-2CD2712F-I	DS-2CD2720F-I	DS-2CD2722FWD-I	DS-2CD2722FWD-IS	DS-2CD2732F-I	DS-2CD2742FWD-I	DS-2CD2742FWD-IS
	 1.3 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 3.0 MP	 4.0 MP	 4.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.1 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR
Lens	2.8 mm to 12 mm @ f/1.4	2.8 mm to 12 mm @ f/1.4	2.8 mm to 12 mm @ f/1.4	2.8 mm to 12 mm @ f/1.4	2.8 mm to 12 mm @ f/1.4	2.8 mm to 12 mm @ f/1.4	2.8 mm to 12 mm @ f/1.4
Horizontal Angle of View	80° to 28.7°	113° to 33.8°	113° to 33.8°	113° to 33.8°	105.2° to 31.9°	113° to 33.8°	113° to 33.8°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/120 dB
IR Range (meters)	Up to 30	Up to 30	Up to 20	Up to 20	Up to 30	Up to 20	Up to 20
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280 × 960	1920 × 1080	1920 × 1080	1920 × 1080	2048 × 1536	2688 × 1520	2688 × 1520
Frame Rate (fps)	25 @ 1280 × 960, 1280 × 720	25 @ 1920 × 1080, 1280 × 720	25 @ 1920 × 1080, 1280 × 720	25 @ 1920 × 1080, 1280 × 720	20 @ 2048 × 1536 30 @ 1920 × 1080, 1280 × 720	20@ (2688*1520) 25@ (1920*1080, 1280*720)	20@ (2688*1520) 25@ (1920*1080, 1280*720)
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Smart Features	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²	Basic Smart Suite ²
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	---	---	---	IN: 1 line OUT: 1 line	---	---	IN: 1 line OUT: 1 line
Alarm Input/Output	---	---	---	1/1	---	---	1/1
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Other features	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)
Power Requirement (max.)s	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection³Firmware v 5.3 and later

Network PTZ Camera - Value Series

	Indoor PTeZ™		PTZ		
Model	DS-2DE2103-DE3/W	DS-2DE2202I-DE3/W	DS-2DE5184-AE3	DS-2DE5174-AE	DS-2DE7184-AE
	 1.0 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 1.3 MP	 FULL HD 2.0 MP
Image Sensor	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	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: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6, 0 with IR
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	4.7 to 94 mm	4.7 to 94 mm
Horizontal Angle of View	80° to 33°	80° to 64.5°	58.3° to 3.2°	58.3° to 3.2°	58.3° to 3.2°
Optical Zoom	3x	2x	20x	20x	20x
Pan Range	0° to 350°	0° to 350°	360° endless	360° endless	360° endless
Tilt Range	0° to 90° (auto flip)	+5° to 90°	+5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 80°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
Pan & Tilt Speed (Preset)	Pan: 100°/sec. Tilt: 80°/sec.	Pan: 50°/sec. Tilt: 50°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (meters)	---	20	---	---	Up to 100
Smart Features	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
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n	---	---	---
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1280 × 720	1920 × 1080	1920 × 1080	1280 × 960	1920 × 1080
Frame Rate (fps)	25 @ 1280 × 720	25 @ 1920 × 1080	25 @ 1920 × 1080 , 25 @ 1280 × 960, 1280 × 720	25 @ 1280 × 960, 1280 × 720	25 @ 1920 × 1080, 1280 × 960, 1280 × 720
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Other features	---	---	IP66, IK10	IP66/IK10	---
Operating Conditions (max.)	-10° C to 50° C, humidity 90% (non-condensing)	-10° C to 50° C, humidity 90% (non-condensing)	-10° C to 50° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)
Power Requirements (max.)	12 VDC, PoE (802.3af), 7 W	PoE (802.3af) and 12 VDC, 9 W	24 VAC, PoE+ (802.3at), 14 W	24 VAC, PoE+ (802.3at), 22 W	24 VAC, PoE+ (802.3at), 30 W

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection

⁵PTeZ™ cameras have a sensor-based zoom

³Firmware v 5.3 and later

Network Video Recorder

	Plug & Play				
Model	DS-7604NI-E1/4P/A	DS-7608NI-E2/8P/A	DS-7616NI-E2/8P/A	DS-7616NI-E2/16P/A	DS-7716NI-SP/16
					
Video Compression	H.264	H.264	H.264	H.264	H.264
HDMI/VGA Output	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080
IP Video Input	4-ch IPC with integrated 4-port 802.3af and at PoE switch	8-ch IPC with integrated 4-port 802.3af and at PoE switch	16-ch IPC with integrated 8-port 802.3af and at PoE switch	16-ch IPC with integrated 16-port 802.3af and at PoE switch	16-ch IPC with integrated 16-port 802.3af and at PoE Switch
Audio Input/Output	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out
Alarm Input/Output	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	16 ch/4 ch
USB	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	3 USB 2.0
Internal SATA	1 SATA interface (up to 6 TB)	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)
Max. Incoming Bandwidth (Mbps)	40 Mbps*	80 Mbps*	160Mbps*	160Mbps*	100 Mbps
Max. Outgoing Bandwidth (Mbps)	80 Mbps*	80 Mbps*	80 Mbps*	80 Mbps*	240 Mbps
Max. Remote Connections	128	128	128	128	128
Rack Units	1	1	1	1	1.5
Other features	---	---	---	---	---
PoE Budget	50 W	120 W	200 W	200 W	200 W
Power Requirements	48 VDC, PoE+ (802.3at), ≤10 W without HDD	48 VDC, PoE+ (802.3at), ≤10 W without HDD	100 to 240 VAC, PoE+ (802.3at), ≤10 W without HDD	100 to 240 VAC, PoE+ (802.3at), ≤10 W without HDD	100 to 240 VAC, 6.3 A, 50 to 60 Hz, PoE+ (802.3at), 40 W without HDD

*Firmware v 3.3.1 and later

Network Video Recorder

Model	DS-7604HI-ST/A	DS-7608HI-ST/A	DS-7616HI-ST/A
			
Video Compression	H.264 analog/-IP	H.264 analog/-IP	H.264 analog/-IP
HDMI/VGA Output	WD1 @ 25fps per ch./ max. 5 Megapixel	WD1 @ 25fps per ch./ max. 5 Megapixel	WD1 @ 25fps per ch./ max. 5 Megapixel
IP Video Input	4-ch analog or max 8-ch IP (20Mbps IN max)	8-ch analog or max 16-ch IP (40Mbps IN max)	16-ch analog or max 32-ch IP (80Mbps IN max)
Video output	1 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA, 1 BNC	1 HDMI, 1 VGA, 1 BNC
Audio Input/Output	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
USB	2 USB 2.0	2 USB 2.0	2 USB 2.0
Internal SATA	1 SATA interface (up to 4 TB)	2 SATA interfaces (up to 4 TB each)	2 SATA interfaces (up to 4 TB each)
Max. Incoming Bandwidth (Mbps)	20 Mbps	40Mbps	80Mbps
Max. Remote Connections	128	128	128
Rack Units	1	1	1
Other features	---	---	---
PoE Budget	---	---	---
Power Requirements	12 VDC, 10W without HDD	12 VDC, 10W without HDD	12 VDC, 10W without HDD

Network Camera - Smart Series

 Box camera						
Model	DS-2CD4024F-A	DS-2CD4025FWD-A	DS-2CD4032FWD-A	DS-2CD6026FHW-A	DS-2CD4035FWD-A	DS-2CD4065F-AP
	FULL HD  *Lens NOT included 2.0 MP	FULL HD  *Lens NOT included 2.0 MP	 *Lens NOT included LightFighter 3.0 MP	FULL HD  *Lens NOT included DarkFighter 2.0 MP	 *Lens NOT included 3.0 MP	 *Lens NOT included 6.0 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2	Color: 0.005 @ f/1.2 B/W: 0.0005 @ f/1.2	Color: 0.1 @ f/1.2 B/W: 0.01 @ f/1.2	Color: 0.003 @ f/1.5 B/W: 0.0003 @ f/1.5	Color: 0.005 @ f/1.2 B/W: 0.0005 @ f/1.2	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2
Lens	Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount	3.8 to 16 mm f/1.5 11 to 40 mm f/1.5 Auto back focus, C/CS mount	Auto back focus, C/CS mount	Auto back focus, C/CS mount
Horizontal Angle of View	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent
Pan/Tilt/Rotation	---	---	---	---	---	---
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB	Yes/Digital
IR Range (meters)	---	---	---	---	---	---
Video Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1920 x 1080	1920 x 1080	2048 x 1536	1920 x 1080	2048 x 1536	3072 x 2048
Frame Rate (fps)	25 @ 1280 x 960, 1280 x 720	50 @ 1280 x 960, 1280 x 720	25 @ 1920 x 1080, 1280 x 720 20 @ 2048 x 1536	30 @ 1920 x 1080, 1280 x 960, 1280 x 720	25 @ 1920 x 1080, 1280 x 720 20 @ 2048 x 1536	24 @ 3072 x 2048 25 @ 2560 x 2048, 2560 x 1920, 2048 x 1536, 1920 x 1080, 1280 x 720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹
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
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.
Other features	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR P-Iris (-P)
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	24 VAC, 12 VDC, PoE (802.3af), 9 W	24 VAC, 12 VDC, PoE (802.3af), 9 W	24 VAC, 12 VDC, PoE (802.3af), 9.5W	24 VAC, 12 VDC, PoE (802.3af), 9.5 W	24 VAC, 12 VDC, PoE (802.3af), 9 W	24 VAC, 12 VDC, PoE (802.3af), 9 W

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

Network Camera - Smart Series

Network Camera - Smart Series						
smart IPC		Indoor Dome				
Model	DS-2CD4120F-IZ	DS-2CD4124FWD-IZ	DS-2CD4125FWD-IZ	DS-2CD4126FWD-IZ(M)	DS-2CD4132FWD-IZ(M)	DS-2CD4135F-IZ
	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 FULL HD LightFighter 2.0 MP	 FULL HD DarkFighter 2.0 MP	 3.0 MP	 3.0 MP
Image Sensor	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.027 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4 B/W: 0 with IR	Color: 0.002 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR
Lens	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus
Horizontal Angle of View	113° to 33.8°	113° to 33.8°	113° to 33.8°	92° to 32°	91.2° to 28.3°	91.2° to 28.3°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB	Yes/Digital
IR Range (meters)	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30
Video Compression	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG
Max. Image Resolution (pixels)	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	2048 x 1536	2048 x 1536
Frame Rate (fps)	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	50 @ 1920 x 1080, 1280 x 960, 1280 x 720	50 @ 1920 x 1080, 1280 x 960, 1280 x 720	50 @ 1920 x 1080, 1280 x 960, 1280 x 720	20 @ 2048 x 1536 25 @ 1920 x 1080, 1280 x 720	45 @ 2048 x 1536 50 @ 1920 x 1080, 1280 x 720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹
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.
Other features	IK10 Smart Focus	IK10 Smart Focus	IK10 Smart Focus	IK10 Smart Focus HDMI output (M)	IK10 Smart Focus HDMI output (M)	IK10 Smart Focus
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	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 W	12 VDC, PoE (802.3af), 9 W	12 VDC, PoE (802.3af), 9 W

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

Network Camera - Smart Series

 Outdoor Dome									
Model	DS-2CD4312F-IZS	DS-2CD4312F-IZHS	DS-2CD4312FWD-IZS	DS-2CD4324F-IZS	DS-2CD4332FWD-IZS	DS-2CD4525FWD-IZH	DS-2CD4525FWD-IZH	DS-2CD4526FWD-IZH	DS-2CD4535F-IZH
									
	1.3 MP	1.3 MP	1.3 MP	FULL HD 2.0 MP	3.0 MP	FULL HD LightFighter 2.0 MP	FULL HD LightFighter 2.0 MP	FULL HD DarkFighter 2.0 MP	3.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4 B/W: 0 with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR
Lens	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 8 to 32 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus
Horizontal Angle of View	98.4° to 30.2°	98.4° to 30.2°	98.4° to 30.2°	113° to 33.8°	91.2° to 28.3°	113° to 33.8°	31.2° to 10.16°	92° to 32°	91.2° to 28.3°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/140 dB	Yes/120 dB	Yes/Digital
IR Range (meters)	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 40	Up to 50	Up to 40	Up to 30
Video Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Max. Image Resolution (pixels)	1280 × 1024	1280 × 1024	1280 × 960	1920 × 1080	2048 × 1536	1920 × 1080	1920 × 1080	1920 × 1080	2048 × 1536
Frame Rate (fps)	25 @ 1280 × 1024, 1280 × 960 50 @ 1280 × 720	25 @ 1280 × 1024, 1280 × 960 50 @ 1280 × 720	25 @ 1280 × 960	25 @ 1920 × 1080, 1280 × 960, 1280 × 720	20 @ 2048 × 1536 25 @ 1920 × 1080, 1280 × 720	50 @ 1920 × 1080, 1280 × 960, 1280 × 720	50 @ 1920 × 1080, 1280 × 960, 1280 × 720	50 @ 1920 × 1080, 1280 × 960, 1280 × 720	50 @ 2048 × 1536, 1920 × 1080, 1280 × 720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹
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 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. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Other features	IP66	IP66, Smart heater	IP66	IP66	IP66	IP66/IK10 3D DNR	IP66/IK10 3D DNR	IP66/IK10 3D DNR	IP66/IK10 3D DNR
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	12V DC, 24 VAC, PoE (802.3af), 12.5 W	12V DC, 24 VAC, PoE (802.3af), 12.5 W	12V DC, 24 VAC, PoE (802.3af), 12.5 W	12V DC, 24 VAC, PoE (802.3af), 12.5 W	12V DC, 24 VAC, PoE (802.3af), 12.5 W	12V DC, 24 VAC, PoE (802.3at), 17 W	12V DC, 24 VAC, PoE (802.3at), 17 W	12V DC, 24 VAC, PoE (802.3at), 17 W	12V DC, 24 VAC, PoE (802.3at), 17 W

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Face Detection, Object Counting, Defog³Firmware v 5.3 and later

Network Camera - Smart Series

Network Camera - Smart Series								
smart IPC		Outdoor Bullet						
Model	DS-2CD4212F-IZS	DS-2CD4212FWD-IZS	DS-2CD4224F-IZS	DS-2CD4232FWD-IZS	DS-2CD4A20F-IZS	DS-2CD4A25FWD-IZHS	DS-2CD4A25FWD-IZHS	DS-2CD4A26FWD-IZHS
	 1.3 MP	 1.3 MP	 2 MP	 3.0 MP	 <i>* Junctionbox NOT included</i> 2.0 MP	 LightFighter 2.0 MP	 LightFighter 2.0 MP	 DarkFighter 2.0 MP
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.005 @ f/1.2 B/W: 0 with IR	Color: 0.005 @ f/1.2 B/W: 0 with IR	Color: 0.002 @ f/1.2 B/W: 0 with IR
Lens	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	2.8 to 12 mm @ f/1.4, autofocus	2.8 to 12 mm @ f/1.4, autofocus	8 to 32 mm @ f/1.4, autofocus	2.8 to 12 mm @ f/1.4, autofocus
Horizontal Angle of View	98.4° to 30.2°	98.4° to 30.2°	113° to 33.8°	91.2° to 28.3°	113° to 33.8°	113° to 33.8°	31.2° to 10.16°	92° to 32°
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
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/Digital	Yes/140 dB	Yes/140 dB	Yes/120 dB
IR Range (meters)	Up to 30 meters	Up to 30	Up to 30	Up to 30	Up to 30	Up to 50	Up to 50	Up to 50
Video Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG
Max. Image Resolution (pixels)	1280 x 1024	1280 x 960	1920 x 1080	2048 x 1536	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Frame Rate (fps)	25 @ 1280 x 1024, 1280 x 960 50 @ 1280 x 720	25 @ 1280 x 960 50 @ 1280 x 720	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	20 @ 2048 x 1536 25 @ 1920 x 1080, 1280 x 720	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	50 @ 1920 x 1080, 1280 x 960, 1280 x 720	50 @ 1920 x 1080, 1280 x 960, 1280 x 720	25 @ 1920 x 1080, 1280 x 960, 1280 x 720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹	Full Smart Suite ¹
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
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Other features	IP66 Smart Focus	IP66 Smart Focus	IP66 Smart Focus	IP66 Smart Focus	IP67, Smart Focus Built-in heater, Support LPR	IP67, Smart Focus Built-in heater, Support LPR	IP67, Smart Focus Built-in heater, Support LPR	IP67, Smart Focus Built-in heater, Support LPR
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3af), 12 W	12 VDC, PoE (802.3at), 18 W	12 VDC, PoE (802.3at), 18 W	12 VDC, PoE (802.3af), 12 W

¹Full Smart Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Unattended Baggage, Object Removal, Scene Change, Sudden Audio Increase/Decrease, Audio Loss, Defocus, Face Detection, Object Counting, Defog³Firmware v 5.3 and later

Network Camera - Smart Series		
smart IPC	Outdoor Bullet	
Model	DS-2CD4625FWD-IZHS	DS-2CD4626FWD-IZHS
	FULL HD  LightFighter (2.0 MP)	FULL HD  DarkFighter (2.0 MP)
Image Sensor	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.005@ f/1.2 B/W: 0 with IR	Color: 0.005@ f/1.2 B/W: 0 with IR
Lens	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus	Motorized zoom 2.8 to 12 mm @ f/1.4, autofocus
Horizontal Angle of View	113° to 33.8°	92° to 32°
Pan/Tilt/Rotation	3-Axis Positioning	3-Axis Positioning
Day/Night	TRUE	TRUE
BLC/WDR	Yes/140 dB	Yes/120 dB
IR Range (meters)	Up to 70	Up to 70
Video Compression	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG
Max. Image Resolution (pixels)	1920 × 1080 up to 50fps	1920 × 1080 up to 50fps
Frame Rate (fps)	50 @ 1920 × 1080, 1280 × 960, 1280 × 720	50 @ 1920 × 1080, 1280 × 960, 1280 × 720
Multi-Streaming	Triple	Triple
Smart Features	Full Smart Suite ¹	Full Smart Suite ¹
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. ³	MicroSD, 128 GB max. ³
Other features	IP66, Smart Focus Built-in heater, Support LPR	IP66, Smart Focus Built-in heater, Support LPR
Operating Conditions (max.)	-40° C to 60° C, humidity 95% (non-condensing)	-40° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	24 VAC, PoE+ (802.3at), 24 W	24 VAC PoE+ (802.3at), 24 W

Why Smart IP?

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

Easily meeting all bandwidth and storage utilization requirements, Hikvision's Smart IP Camera Series offers unparalleled image quality and customer convenience. Similarly, Hikvision's Smart PTZ Dome Camera Series features excellent HD, smooth Pan/Tilt/Zoom, and Smart tracking functions to ensure the elimination of all blind spots within the camera's area of coverage. At the core of this solution is Hikvision's Smart NVR. With the ability to connect all Hikvision Smart cameras together, it simplifies the experience even further. Features such as live viewing, recorded video, Smart video playback, and event playback/backup are available. In addition, the Smart NVR boasts multi-channel recording, HD video preview, massive storage capacity, and system stability, providing an ideal choice for professional surveillance applications.



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

³Firmware v 5.3 and later

Network Camera - Smart Series

	Fisheye			Covert				
Model	DS-2CD6332FWD-I	DS-2CD6362F-I	DS-2CD6362F-IV	DS-2CD6412FWD-C1 (Base Unit)	DS-2CD6412FWD-C2 (Base Unit)	DS-2CD6412FWD-L10 (Lens/Sensor)	DS-2CD6412FWD-L20 (Lens/Sensor)	DS-2CD6412FWD-L30 (Lens/Sensor)
	 (3.0 MP)	 (6.0 MP)	 (6.0 MP)	 *Base unit ONLY	 *Base unit ONLY	 *Base unit NOT included (1.3 MP)	 *Base unit NOT included (1.3 MP)	 *Base unit NOT included (1.3 MP)
Image Sensor	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	Supports (1) L10, L20, or L30 lenses/sensor units (not included)	Supports (2) L10, L20, or L30 lenses/sensor units (not included)	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	---	---	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.0
Lens	1.19 mm @ f/2.0	1.27 mm @ f/2.8	1.27 mm @ f/2.8	---	---	3.7 mm @ f/2.3	3.7 mm @ f/2.3	2.8 mm @ f/2.0, (4 mm @ f/2.0 option)
Horizontal Angle of View	180°	180°	180°	Lens dependent	Lens dependent	57°	57°	92.5°, 73.1°
Day/Night	TRUE	TRUE	TRUE	---	---	Electronic	Electronic	Electronic
BLC/WDR	No/120 dB	No/Digital	No/Digital	---	---	No/120 dB	No/120 dB	No/120 dB
IR Range (meters)	up to 15	up to 15	up to 15	---	---	---	---	---
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	---	---	---
Max. Image Resolution (pixels)	2048 × 1536	3072 × 2048	3072 × 2048	---	---	1280 x 960	1280 x 960	1280 x 960
Frame Rate (fps)	Fisheye (Main): 1536x1536; (Sub): 720x720. Panorama (Main): 1600x1200; (Sub): 704x480. ePTZ (Main): 800x600. M1: 20@ FE(M), 20@ P(M), 20@ 3X ePTZ(M). M2: 30@ FE(M), 30@ 4X ePTZ(M). M3: 30@ FE (M), 30@ FE (S), 15@ ePTZ(M). M4: 30@ P(M), 30@ P(S).	Fisheye (Main): 3072x2048; (Sub): 1280x1280. Panorama (Main): 2048x1536; (Sub): 704x480. PTeZ™ (Main): 1024x768. M1: 15@ FE(M), 15@ P(M), 15@ 3X PTeZ™(M). M2: 30@ FE(M), 30@ 4X PTeZ™(M). M3: 15@ FE (M), 15@ FE (S), 15@ 3X PTeZ™(M). M4: 30@ P(M), 30@ P(S).	Fisheye (Main): 3072x2048; (Sub): 1280x1280. Panorama (Main): 2048x1536; (Sub): 704x480. PTeZ™ (Main): 1024x768. M1: 15@ FE(M), 15@ P(M), 15@ 3X PTeZ™(M). M2: 30@ FE(M), 30@ 4X PTeZ™(M). M3: 15@ FE (M), 15@ FE (S), 15@ 3X PTeZ™(M). M4: 30@ P(M), 30@ P(S).	25 @ 1280 x 960, 1280 x 720	25 @ 1280 x 960, 1280 x 720	---	---	---
Multi-Streaming	High Frame Rate Mode; Multi-Channel Mode; Mode 3; Mode 4	High Frame Rate Mode; Multi-Channel Mode; Mode 3; Mode 4	High Frame Rate Mode; Multi-Channel Mode; Mode 3; Mode 4	Triple Stream	Triple Stream	---	---	---
Motion Detection	Yes	Yes	Yes	Basic Smart Suite ²	Basic Smart Suite ²	---	---	---
Audio Input/Output	---	---	---	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	---	---	---
Alarm Input/Output	---	---	---	1/1	1/1	---	---	---
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	---	---	---
Other features	---	---	IP66/IK10	---	---	8m cable	8m cable	8m cable
Operating Conditions (max.)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)	-30° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	12 VDC/PoE (802.3af), 12 W	12 VDC/PoE (802.3af), 12 W	12 VDC/PoE (802.3af), 12 W	12 VDC/PoE (802.3af), 6.5 W	12 VDC/PoE (802.3af), 6.5 W	---	---	---

²Basic Smart Suite: Line Crossing Detection, Intrusion Detection³Firmware v 5.3 and later

Network PTZ Camera - Smart Pro Series

	DS-2DF5274-A	DS-2DF5274-AEL	DS-2DF5276-A	DS-2DF5284-A	DS-2DF5284-AEL	DS-2DF5286-A
Model	 1.3 MP	 1.3 MP	 1.3 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP
Image Sensor	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Min. Illumination (lux)	Color : 0.05 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.05 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.05 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.05 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.05 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.05 lux@F1.6 B/W : 0.005 lux@F1.6
Lens	4.7 to 94mm	4.7 to 94mm	4.3 to 129mm	4.7 to 94mm	4.7 to 94mm	4.3 to 129mm
Horizontal Angle of View	58.3° to 3.2°	58.3° to 3.2°	65.5° to 2.11°	58.3° to 3.2°	58.3° to 3.2°	65.5° to 2.11°
Optical Zoom	20X	20X	30X	20X	20X	30X
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° ~ 300°/s Tilt: 0.1° ~ 240°/s	Pan: 0.1° ~ 300°/s Tilt: 0.1° ~ 240°/s	Pan: 0.1° ~ 300°/s Tilt: 0.1° ~ 240°/s	Pan: 0.1° ~ 300°/s Tilt: 0.1° ~ 240°/s	Pan: 0.1° ~ 300°/s Tilt: 0.1° ~ 240°/s	Pan: 0.1° ~ 300°/s Tilt: 0.1° ~ 240°/s
Pan & Tilt Speed (Preset)	Pan: 540°/s Tilt: 400°/s	Pan: 540°/s Tilt: 400°/s	Pan: 540°/s Tilt: 400°/s	Pan: 540°/s Tilt: 400°/s	Pan: 540°/s Tilt: 400°/s	Pan: 540°/s Tilt: 400°/s
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (Meters)	---	---	---	---	---	---
Smart Features	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog
Presets/Tours/Patterns	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	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
Max. Image Resolution (pixels)	1280 × 960	1280 × 960	1280 × 960	1920×1080	1920×1080	1920×1080
Frame Rate (fps)	25 @ 1280 × 960, 1280 × 720	25 @ 1280 × 960, 1280 × 720	25 @ 1280 × 960, 1280 × 720	25 @ 1920 × 1080, 1280 × 960, 1280 × 720	25 @ 1920×1080, 1280 × 960, 1280 × 720	25 @ 1920×1080, 1280 × 960, 1280 × 720
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Other features	IP66	IP66	IP66	IP66	IP66	IP66
Operating Conditions (max.)	-30° C to 65° C, humidity 90% (non-condensing)	24 VAC: -40° C to 65° C, Hi-PoE: -30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)	24 VAC: -40° C to 65° C, Hi-PoE: -30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)
Power Requirements (max.)	24 VAC, 40W	24 VAC, PoE+, 60 W	24 VAC, 40W	24 VAC, 40W	24 VAC, PoE+, 60 W	24 VAC, 40W

³Firmware v 5.3 and later

Network PTZ Camera - Smart Pro Series

	DS-2DF7274-A	DS-2DF7276-A	DS-2DF7284-A	DS-2DF7284-AEL	DS-2DF7286-A
Model	 1.3 MP	 1.3 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP
Image Sensor	1/3" Progressive Scan CMOS	1/3" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS	1/2.8" Progressive Scan CMOS
Min. Illumination (lux)	Color : 0.03 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.03 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.03 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.03 lux@F1.6 B/W : 0.005 lux@F1.6	Color : 0.03 lux@F1.6 B/W : 0.005 lux@F1.6
Lens	4.7 to 94mm	4.3 to 129mm	4.7 to 94mm	4.7 to 94mm	4.3 to 129mm
Horizontal Angle of View	58.3° to 3.2°	65.5° to 2.11°	58.3° to 3.2°	58.3° to 3.2°	65.5° to 2.11°
Optical Zoom	20X	30X	20X	20X	30X
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt Range	-2° to 90°(Auto Flip)	-2° to 90°(Auto Flip)	-2° to 90°(Auto Flip)	-2° to 90°(Auto Flip)	-2° to 90°(Auto Flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 160°/s Tilt: 0.1° to 120°/s	Pan: 0.1° to 160°/s Tilt: 0.1° to 120°/s	Pan: 0.1° to 160°/s Tilt: 0.1° to 120°/s	Pan: 0.1° to 160°/s Tilt: 0.1° to 120°/s	Pan: 0.1° to 160°/s Tilt: 0.1° to 120°/s
Pan & Tilt Speed (Preset)	Pan: 160°/s Tilt: 120°/s	Pan: 160°/s Tilt: 120°/s	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range (Meters)	up to 150m	up to 150m	up to 150m	up to 150m	up to 150m
Smart Features	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog
Presets/Tours/Patterns	300/8/4	300/8/4	300/8/4	300/8/4	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
Max. Image Resolution (pixels)	1280 × 960	1280 × 960	1920 × 1080	1920 × 1080	1920 × 1080
Frame Rate (fps)	25 @ 1280 × 960, 25 @ 1280 × 720	25 @ 1280 × 960, 25 @ 1280 × 720	25 @ 1920×1080, 1280 × 960, 1280 × 720	25 @ 1920×1080, 1280 × 960, 1280 × 720	25 @ 1920×1080, 1280 × 960, 1280 × 720
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Other features	IP66	IP66	IP66	IP66	IP66
Operating Conditions (max.)	-30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)	24 VAC: -40° C to 65° C, Hi-PoE: -30° C to 65° C, humidity 90% (non-condensing)	-30° C to 65° C, humidity 90% (non-condensing)
Power Requirements (max.)	24 VAC, 50W	24 VAC, 50W	24 VAC, 50W	24 VAC, PoE+, 60 W	24 VAC, 50W

³Firmware v 5.3 and later

Network PTZ Camera - Smart Pro Series

	Indoor	Outdoor IR		
	DS-2DF5276-AE3	DS-2DF6223-AEL	DS-2DF7286-AEL	DS-2DF82231-AEL
Model	 1.3 MP	 2.0 MP <i>FULL HD</i>	 1.3 MP	 2.0 MP <i>FULL HD</i> DarkFighter
Image Sensor	1/3" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.005 @ f/1.5 B/W: 0.0005 @ f/1.5	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6, 0 with IR	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5
Lens	4.3 to 129.0 mm	5.9 to 135.7 mm	4.3 to 129.0 mm	5.9 to 135.7 mm
Horizontal Angle of View	65.5° to 2.11°	59.8° to 3.0°	65.5° to 2.11°	59.8° to 3.0°
Optical Zoom	30x	23x	30x	23x
Pan Range	360° endless	360° endless	360° endless	360° endless
Tilt Range	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-2° to 90° (auto flip)	-20° to 90° (auto flip)
Pan & Tilt Speed (Manual)	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 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: 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
BLC/WDR	Yes/Digital	No/120 dB	Yes/Digital	Yes/120 dB
IR Range (Meters)	---	---	150	200
Smart Features/Presets/Tours/Patterns	Tracking, Defog/ 300/8/4	Tracking, Defog/ 300/8/4	Tracking, Defog/ 300/8/4	Tracking, Defog/ 300/8/4
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4
Max. Image Resolution (pixels)	1280 × 960	1920 × 1080	1920 × 1080	1920 × 1080
Frame Rate (fps)	30 @ 1280 × 960, 1280 × 720	30 @ 1920 × 1080, 1280 × 960, 1280 × 720	30 @ 1920 × 1080, 1280 × 960, 1280 × 720	30 @ 1920 × 1080, 1280 × 960, 1280 × 720
Local Storage	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³	MicroSD, 128 GB max. ³
Ratings	IP66	IP66, IK10	IP66	IP66
Operating Conditions (max.)	-10° C to 50° C, humidity 90% (non-condensing)	24 VAC: -40° C to 65° C ; Hi-PoE: -30° C to 65° C, humidity 90% (non-condensing)	24 VAC: -40° C to 65° C ; Hi-PoE: -30° C to 65° C, humidity 90% (non-condensing)	24 VAC: -40° C to 65° C ; Hi-PoE: -30° C to 65° C, humidity 90% (non-condensing)
Power Requirements (max.)	24 VAC, PoE+, 25 W	24 VAC, Hi-PoE, 60 W	24 VAC, Hi-PoE, 60 W	24 VAC, Hi-PoE, 60 W

Hikvision is proud to present state-of-the-art IP cameras for every lighting situation: DarkFighter and LightFighter Cameras

DarkFighter cameras feature industry-leading ultra-low light technology. With models offering IR distances up to 200 m, DarkFighter is the perfect solution to capture color images clearly in dimly lit environments.

In extremely bright light conditions, LightFighter's groundbreaking 140 db Wide Dynamic Range (WDR) feature operates similarly to the human eye, extending the range of lighting extremes, on the scene, that the camera can successfully resolve, resulting in an image without under or over exposure.

Both cameras offer full 1080p HD to capture even the most minute details. Smart features, 3D digital noise reduction (DNR), defogging technology, and electronic image stabilization (EIS) options allow DarkFighter and LightFighter cameras to provide superior quality images and high performance.

Conventional PTZ Camera



Hikvision DarkFighter PTZ



Conventional Camera



Hikvision LightFighter Camera



³Firmware v 5.3 and later

Network Video Recorder

	Pro Series						
Model	DS-7708NI-SP	DS-7716NI-SP	DS-7732NI-SP	DS-7716NI-ST	DS-7732NI-ST	DS-7732NI-E4	DS-9632NI-ST
							
Max. Recording Resolution	6 MP	6 MP	6 MP	6 MP	6 MP	6 MP	6 MP
Video Compression	H.264	H.264	H.264	H.264	H.264	H.264	H.264
HDMI/VGA Output	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080	1920 x 1080/1920 x 1080
IP Video Inputs	8	16	32	16	32	32	32
Alarm Input/Output	16/4	16/4	16/4	16/4	16/4	16/4	16/4
USB	3 USB 2.0	3 USB 2.0	3 USB 2.0	3 USB 2.0	3 USB 2.0	2 USB 2.0 + 1 USB 3.0	3 USB 2.0
HDD Array Type	---	---	---	---	---	---	RAID 0, RAID 1, RAID 5, RAID 10
Internal SATA	"4 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)"	"4 SATA interfaces (up to 6 TB each)"	"4 SATA interfaces (up to 6 TB each)"	8 SATA interfaces (up to 6 TB each)
Maximum Internal Storage	24 TB	24 TB	24 TB	24 TB	24 TB	24 TB	48 TB
Max Incoming Bandwidth (Mbps)	50	100	200	100	200	160	200 (100 with RAID)
Maximum Outgoing Bandwidth (Mbps)	240	240	160	240	160	80	160 (100 with RAID)
Other features	---	---	---	---	---	---	---
Rack Units	1.5	1.5	1.5	1.5	1.5	1.5	2
Power Requirements	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz	100 to 240 VAC, 50 to 60 Hz
Power Consumption	6.3 A, ≤35 W without HDD	6.3 A, ≤40 W without HDD	6.3 A, ≤45 W without HDD	6.3 A, ≤40 W without HDD	6.3 A, ≤45 W without HDD	6.3 A, ≤20 W without HDD	6.3 A, ≤45 W without HDD

ANALOG MIGRATION SOLUTIONS

TURBOHD HD-TVI Technology

TurboHD is HD-TVI, the latest in high-definition analog technology, delivering significant advantages over other HD analog formats. Ideal for supporting the move away from legacy analog to HD video, Hikvision's analog-to-digital migration solution enables users to utilize existing infrastructure, maximizing the ROI on their video surveillance equipment.



Unparalleled Performance, Amazing Price.

With tried and true analog installation methods and an attractive price point, the TurboHD solution represents an ideal migration path.

TurboHD Analog Camera - 720p					
	Outdoor Bullet	Outdoor Turret		Outdoor Bullet	Outdoor Dome
Model	DS-2CE16C2T-IR	DS-2CE56C2T-IRM	DS-2CE56C5T-VFIT3	DS-2CE16C5T-AVFIR3	DS-2CE56C5T-AVPIR3
					
Video Out	HD-TVI	HD-TVI	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (selectable)	HD-TVI/CVBS (selectable)
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR	Color: 0.0014 @ f/1.4 B/W: 0 with IR
Lens	2.8 mm @ f/2.5 (3.6 mm option)	2.8 mm @ f/2.5 (3.6mm option)	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4
Horizontal Angle of View	99.73°, (2.8 mm), 76.88° (3.6 mm)	99.73°, (2.8 mm), 76.88° (3.6 mm)	78° to 28°	78° to 28°	78° to 28°
Pan/Tilt/Rotation	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 355°/ 0° to 90°/0° to 355°	3-Axis Positioning	0° to 355°/ 0° to 80°/±90°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/No	Yes/No	Yes/Digital	Yes/Digital	No/Digital
IR Range (meters)	Up to 20	Up to 20	Up to 50	40	40
Max. Image Resolution (pixels)	1280 x 720	1280 x 720	1280 x 720	1280 x 720	1280 x 720
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	No	No	Yes	Yes	Yes
Other features	IP66	IP66	IP66	IP66	IP66/IK10
Operating Conditions (max.)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)
Power Requirements (max.)	12 VDC, 4 W	12 VDC, 4 W	12 VDC, 6 W	12 VDC, 5.5 W	12 VDC, 3.5 W 24 VAC: 5 W



TurboHD Cameras Accessories: Video Balun DS-1H18.

TurboHD Analog Camera - 1080p

	Outdoor Bullet	Outdoor Dome	Outdoor Bullet	Outdoor Dome		Outdoor Bullet	Outdoor Turret	Outdoor Bullet	Outdoor Turret
Model	DS-2CE16D1T-IR	DS-2CE56D1T-VPIR	DS-2CE16D1T-AVFIR3	DS-2CE56D1T-AVPIR3	DS-2CE56D5T-AVPIR3	DS-2CE16D5T-IT3	DS-2CE56D5T-IT3	DS-2CE16D5T-AVFIT3	DS-2CE56D5T-VFIT3
									
Video Out	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS-(Dual)	HD-TVI/CVBS (Dual)	HDTV/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
Image Sensor	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8 mm)	1/2.7" progressive scan CMOS 1/3" progressive scan CMOS (only 2.8mm)	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
Min. Illumination (lux)	Color: 0.01 @ f/1.2 0 with IR	Color: 0.034 @ f/2.2 B/W: 0.0034 @ f/2.2, 0 with IR	Color: 0.14 @ f/1.2 0 with IR	Color: 0.1 @ f/1.2 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.01 @ f/1.2 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 mm, 3.6 mm, 6 mm option	2.8 mm, 3.6 mm, 6 mm option	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4	3.6 mm @ f/2.5 (2.8 mm, 6 mm, 12 mm option)	3.6 mm @ f/2.5 2.8 mm, 6 mm, 12 mm, option)	2.8 to 12 mm @ f/1.4	2.8 to 12 mm @ f/1.4
Horizontal Angle of View	90° (2.8 mm), 80° (3.6 mm), 54.3° (6 mm)	115.6° (2.8 mm), 90° (3.6 mm), 55.4° (6 mm)	102° to 35°	102° to 35°	92° to 32°	80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm)	80° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.3° (12 mm)	92° to 32°	92° to 32°
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 355°/ 0° to 90°/0° to 355°	0° to 355°/ 0° to 80°/±90°	---	0° to 360°/ 0° to 90°/0° to 360°	3-Axis Positioning	0° to 360°/ 0° to 90°/0° to 360°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/No	Yes/No	Yes/No	Yes/No	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
IR Range (meters)	20	20	40	40	Up to 40	40	40	50	50
Max. Image Resolution (pixels)	1920 x 1080	1930 x 1088	1930 x 1088	1930 x 1088	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu via Up-the-Coax (UTC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Other features	IP66	IP66	IP66	IP66/IK10	IP66/IK10	IP66	IP66	IP66	IP66
Operating Conditions (max.)	-30° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)	-30° C to 60° C, humidity 90% (non-condensing)
Power Requirements (max.)	12 VDC, 4 W	12 VDC, 3 W	12 VDC, 24 VAC, 56W	12 VDC, 24 VAC, 4 W	12 VDC, 4.5 W 24 VAC, 6.5 W	12 VDC, 5.5 W	12 VDC, 5.5 W	12 VDC, 7 W 24 VAC, 8.5 W	12 VDC, 7 W



TurboHD Analog PTZ Camera - 1080p			
	Outdoor IR		
	DS-2AE5230T-A	DS-2AE5123TI-A	DS-2AE7230TI-A
Model			
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS
Min. Illumination (lux)	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6	Color: 0.05 @ f/1.4 B/W: 0.005 @ f/1.4, 0 with IR	Color: 0.02 @ f/1.6 B/W: 0.002 @ f/1.6, 0 with IR
Lens	4 to 120 mm	4 to 92 mm	4 to 120 mm
Horizontal Angle of View	58° to 1.7°	49° to 2.2°	58° to 1.7°
Pan/Tilt/Zoom	360° endless/ -5° to 90° (auto flip)/30x	360° endless/ -15° to 90° (auto flip)/23x	360° endless/ -5° to 90° (auto flip)/30x
Pan & Tilt Speed (Manual)	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: 300°/sec. Tilt: 200°/sec.	Pan: 400°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.
Day/Night	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	No/Digital
IR Range (meters)	---	Up to 150	120
Presets/Tours/Patterns	256/8/4	256/8/4	256/8/4
Max. Image Resolution (pixels)	1920 × 1080	1280 × 720	1920 × 1080
Video Output	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu	HD-TVI/CVBS, UTC menu
Other features	IP66, IK10	IP66	IP66
Operating Conditions (max.)	-30° C to 65° C, humidity 90% or less (non-condensing)	-30° C to 65° C, (outdoor dome), humidity 90% or less (non-condensing)	-30° C to 65° C, humidity 90% or less (non-condensing)
Power Requirements (max.)	24 VAC, 20 W (heater on), 12 W (heater off)	24 VAC, 20 W (heater on), 12 W (heater off)	24 VAC, 40 W



Analog Camera PICADIS - 720TVL/960H

	Indoor Dome Fixed Focal	Outdoor Turret Fixed Focal		Outdoor Dome Vari-Focal	Outdoor Bullet Fixed Focal		Outdoor Bullet Vari-Focal
Model	DS-2CE55C2N	DS-2CE55C2N-IRM	DS-2CE56C2N-IT3	DS-2CE55C2N-VFIR3	DS-2CE15C2N-IR	DS-2CE16C2N-IT3	DS-2CE15C2N-VFIR3
							
Image Sensor	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS
Min. Illumination (lux)	Color: 0.34 @ f/2.2	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.34 @ f/2.2 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR
Lens	3.6 mm @ f/2.2	3.6 mm @ f/2.2	3.6 mm @ f/2.2	2.8 to 12 mm @ f/1.4	3.6 mm @ f/2.2	3.6 mm @ f/2.2	2.8 to 12 mm @ f/1.4
Horizontal Angle of View	71.4°	71.4°	71.4°	80° to 27.2°	71.4°	71.4°	80° to 27.2°
Pan/Tilt/Rotation	0° to 355°/ 0° to 90°/0° to 355°	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°	0° to 360°/ 0° to 90°/0° to 360°
Day/Night	Electronic	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
IR Range (meters)	No	20	40	40	20	40	30-40
Max. Image Resolution	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL
Vertical Synchronization	Internal	Internal	Internal	Internal	Internal	Internal	Internal
OSD Menu	No	No	No	No	No	No	No
Ratings	---	IP66	IP66	IP66	IP66	IP66	IP66
Operating Conditions (max.)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)	-40° C to 60° C, humidity 90% (non-condensing)
Power Requirements (max.)	12 VDC, 1 W	12 VDC, 4.5 W	12 VDC, 5 W	12 VDC, 6.5 W	12 VDC, 4.5 W	12 VDC, 5 W	12 VDC, 6.5 W



Digital Video Recorder

	TurboHD Tribrid DVR Value Series			TurboHD Tribrid DVR Pro Series	
	DS-7204HGHI-SH/A	DS-7208HGHI-SH/A	DS-7216HGHI-SH/A	DS-7308HQHI-SH	DS-7316HQHI-SH
Model					
Video Compression	H.264	H.264	H.264	H.264	H.264
HDMI/VGA Output	1920 x 1080/1920 x 1080, sync output	1920 x 1080/1920 x 1080, sync output	1920 x 1080/1920 x 1080, sync output	1920 x 1080/1920 x 1080, sync output	1920 x 1080/1920 x 1080, sync output
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	4-ch/2-ch	4-ch/2-ch
Alarm Input/Output	4 /1	8/4	16/4	16/4	16/4
USB 2.0	2	2	2	3	3
Internal SATA	1 (up to 6 TB)	2 (up to 6 TB each)	2 (up to 6 TB each)	4 (up to 6 TB each)	4 (up to 6 TB each)
Total Internal Storage	6TB	12 TB	12 TB	24 TB	24 TB
Auto Detect CVBS or Turbo Signal	Yes	Yes	Yes	Yes	Yes
Support 720p Turbo (p/ch)	Yes, 30 fps	Yes, 30 fps	Yes, 30 fps	Yes, 30 fps	Yes, 30 fps
Support 1080p Turbo (p/ch)	Yes, 12 fps	Yes, 12 fps	Yes, 12 fps	Yes, 30 fps	Yes, 30 fps
Analog Resolution to 960H (WD1)	Yes	Yes	Yes	Yes	Yes
Disable Turbo/CVBS Channel/Add IPC	---	---	---	Yes	Yes
Hikvision IP Camera Support	1 up to 1080p	2 up to 1080p	2 up to 1080p	2 up to 1080p (up to 10 ch if disable turbo channels)	2 up to 1080p (up to 18 ch if disable turbo channels)
Front Panel Control	---	---	---	Yes	Yes
OSD Menu-Up-the-Coax	Yes	Yes	Yes	Yes	Yes
Spot Monitor Output (BNC)	---	---	---	Yes	Yes
eSATA Interface	---	---	---	Yes	Yes
VCA (Video Content Analysis) ⁶	Up to 1 channel support	Up to 1 channel support	Up to 1 channel support	Up to 2 channel support	Up to 2 channel support
Smart Play ⁷	Yes	Yes	Yes	Yes	Yes
Max Incoming Bandwidth (Mbps)	60 Mbps	96 Mbps	128 Mbps	200 Mbps	200 Mbps
Maximum Outgoing Bandwidth (Mbps)	60 Mbps	96 Mbps	128 Mbps	200 Mbps	200 Mbps
Max. Network Streams	128	128	128	128	128
User Names	32	32	32	32	32
Remote User Logins	128	128	128	128	128
Other features	---	---	---	---	---
Rack Units	1	1	1	1.5	1.5
Power Requirements	12 VDC, ≤15 W without HDD	12 VDC, ≤20 W without HDD	12 VDC, ≤20 W without HDD	100 to 240 VAC, 50 to 60 Hz, ≤40 W without HDD	100 to 240 VAC, 50 to 60 Hz, ≤55 W without HDD

Encoders and Decoders				
Model	Encoders			
	DS-6701HWI	DS-6704HWI	DS-6708HWI	DS-6716HWI
				
Frame Rate (fps)	30	30	30	30
Multi-Streaming	Yes	Yes	Yes	Yes
Video In	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)
Video Out	Ethernet	Ethernet	Ethernet	Ethernet
Network Interface	1 RJ-45 10/100 Mbps adaptive Ethernet (PoE)	1 RJ-45 10/100 Mbps adaptive Ethernet (PoE)	1 RJ-45 10/100/1000 Mbps adaptive Ethernet	1 RJ-45 10/100/1000 Mbps adaptive Ethernet
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
Voice Talk Input	1-ch	1-ch	1-ch	1-ch
Alarm Input/ Output	1/1	4/2	8/4	16/4
RS-232	---	Yes	Yes	Yes
RS-485	Yes	Yes	Yes	Yes
Resolution	WD1 (960H)/4CIF/2CIF/ CIF/qCIF	WD1 (960H)/4CIF/2CIF/ CIF/qCIF	WD1 (960H)/4CIF/2CIF/ CIF/qCIF	WD1 (960H)/4CIF/2CIF/ CIF/qCIF
Ratings	---	---	---	---
Power Requirements (max.)	12 VDC, PoE (802.3af), ≤5 W	12 VDC, PoE (802.3af), ≤7 W	12 VDC (≤10 W)	12 VDC (≤22 W)

Model	Keyboards		
	DS-1003KI	DS-1005KI	DS-1100KI
			
RS-485	Yes	No	Yes
USB	No	Yes	Yes
Control Mode	RS-485	USB	Network
LCD Screen	5" x 2.5"	N/A	7" TFT touchscreen at 800 x 480 resolution
Joystick	3-Axis	3-Axis	3-Axis
Resolution	No	No	1920 x 1080
Network	No	No	Yes
Power Requirements	12 VDC (<10 W)	5 VDC via USB (≤5 W)	12 VDC (<15 W)

Megapixel Auto Iris Lenses					
Model	TV0515D-MPIR	TV2712D-MPIR	TV0550D-MPIR	HV1140D-8MPIR	HV3816D-8MPIR
					
	1.3 MP	3.0 MP	3.0 MP	8.0 MP	8.0 MP
Specifications	1.3 MP, 1/3" sensor, 5 to 50mm f/1.4 Auto-iris, IR corrected, CS	3 MP, 1/2.7" sensor 2.7 to 12mm f/1.7 Auto-iris, IR corrected, CS	3 MP, 1/2.7" sensor 5 to 50mm f/1.7 Auto-iris, IR corrected CS	8 MP, 1/1.8" sensor 11 to 40mm f/1.5 Auto-iris, IR corrected CS	8 MP, 1/1.8" sensor 3.8 to 16mm f/1.5 Auto-iris, IR corrected CS

DS-2CD2112F-I) DS-2CD2132F-I)				
				
Model	DS-1259ZJ	DS-1258ZJ	DS-1272ZJ-110	DS-1272ZJ-110B
Features	Inclined ceiling mount(Plastic)	Wall mount(Plastic)	Wall mount	Wall mount with power intake box

DS-2CD2712F-I(S) DS-2CD2732F-I(S)		
		
Model	DS-1273ZJ-135	DS-1273ZJ-135B
Features	Wall mount	Wall mounting with power intake box

DS-2CD2212-I5 DS-2CD2232-I5			
			
Model	DS-1214ZJ	DS-1215ZJ	DS-1260ZJ
Features	Horizontal pole mount	Vertical pole mount	Power intake box

DS-2CD2612F-I(S) DS-2CD2632F-I(S)	
	
Model	DS-1260ZJ
Features	Power intake box

DS-2CD41 series						
						
Model	DS-1273ZJ-130	DS-1273ZJ-130B	DS-1271ZJ-130	DS-1227ZJ	DS-1275ZJ	DS-1276ZJ
Features	Wall mount	Pendant Mount	Pendant mount	In-ceiling mount	Vertical pole mount	Corner mount
Descriptions	Aluminum alloy Φ130×182×120mm	500mm/Φ140mm Hik White	Aluminum alloy Φ130×545mm	Aluminum alloy Φ210×90mm	Aluminum alloy 117×143×194mm	Aluminum alloy 158X173mm

DS-2CD6362F-I(S)(V) DS-2CD6332FWD-I(S)(V)			
			
Model	DS-1280ZJ-DM25	DS-1281ZJ-DM25	DS-1271ZJ-DM25
Features	Junction box	Inclined ceiling mount	Pendant mount

DS-2CD41 series	
	
Model	DS-1275ZJ
Features	Vertical pole mount
Descriptions	Aluminum alloy 117×143×194mm

DS-2CD43 series					
					
Model	DS-1273ZJ-160	DS-1273ZJ-160B	DS-1268ZJ	DS-1275ZJ	DS-1276ZJ
Features	Wall mount	Wall mount	Pendant mount	Vertical pole mount	Corner mount
Descriptions	Aluminum alloy Φ160×182×120mm	Aluminum alloy Φ160×182×120mm	Aluminum alloy Φ139×500mm	Aluminum alloy 117×143×194mm	Aluminum alloy 158×173mm

DS-2CD2312-I DS-2CD2332-I	
	
Model	DS-1273ZJ-130-TRL
Features	Wall mount

4" PTZ dome DS-2AF4xxx DS-2DE4xxx					
					
Model	DS-1618ZJ	DS-1602ZJ	DS-1661ZJ	DS-1662ZJ	DS-1663ZJ
Features	Wall mount(short arm)	Wall mount	Pendant mount	Pendant mount	Ceiling mount
Descriptions	Hikvision white Aluminum alloy Φ110×145×189mm	Hikvision white Aluminum alloy 97×182×305mm	Hikvision white Aluminum alloy Φ116.5×200mm	Hikvision white Aluminum alloy Φ116.5×500mm	Hikvision white Aluminum alloy Φ116.5×57mm

5" PTZ dome DS-2DF/AF52xx DS-2DE/AE51xx DS-2DF1/AF1-5xx		IR PTZ DS-2DF/AF72xx DS-2DE/AE71xx DS-2DF1/AF1-7xx								
										
Model		DS-1661ZJ	DS-1662ZJ	DS-1663ZJ	DS-1602ZJ	DS-1602ZJ-pole	DS-1602ZJ-corner	DS-1602ZJ-box	DS-1660ZJ	
Features		Pendant mount	Pendant mount	Ceiling mount	Wall mount	Vertical pole mount	Corner mount	Wall mount, Including ower box	Parapet wall mount	
Descriptions		Hikvision white Aluminum alloy Φ116.5×200mm	Hikvision white Aluminum alloy Φ116.5×500mm	Hikvision white Aluminum alloy Φ116.5×57mm	Hikvision white Aluminum alloy 97×182×305mm	Hikvision white Aluminum alloy 117×194×310mm	Hikvision white Aluminum alloy 176.8×194×419.5mm	Hikvision white Aluminum alloy Φ209.2×310×399.1mm	Hikvision white Aluminum alloy Φ180×950×800mm	

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

		Minimum Server System Requirements   Intel Pentium IV 3.0 and above, Microsoft Windows XP/2003/2008/Win 7 (32-bit) 2 GB RAM, 100 Mbps Ethernet card, 1024 x 768 pixels or higher display resolution, ATI 5000/nVidia GTX260, 512 MB video card
LIVE VIEW	Support up to 4 output screens for live view, and upmost 64 cameras in live view screens	
ENCODING DEVICE	Up to 256 encoded devices	
DECODING DEVICE	Up to 64 decoding devices	
IMPORTED CAMERA	Up to 1024 imported cameras	
CAMERA GROUP	Up to 256 camera groups, and maximum 64 cameras in one group	
STORAGE SERVER	Up to 16 storage servers, each server's recording performance is 64*2 Mbps	
STREAM MEDIA SERVER	Up to 16 stream media server, each server is with incoming connections of 64*2 Mbps and outgoing connections of 200*2 Mbps	
PLAYBACK	Up to 16 channels playback	
DOWNLOAD	Up to 16 simultaneous download tasks	
USER	Up to 51 users	
SYSTEM LOG	Unlimited	
MAP	Supports PNG, BMP, and JPEG images. Nested maps supported.	
PTZ	Control, presets, patrols, pattern supported	
DEVICE SEARCH	Supports Search Activated Device Protocol (SADP)	
DEVICE CONFIGURATION	Supports remote programming and configuration of any connected device. Features Add Device Wizard.	

iVMS-4500 Mobile Client Applications for SmartPhones and Tablets

		Compatible Devices    Android (1.6 or higher)** BlackBerry Bold (Not Shown) Windows Mobile (Not Shown) Apple iOS (iPhone/iPad)* *iPhone/iPad app must be acquired from the iTunes App Store. **Android app can be obtained at the Android Market or Hikvision.com. *Windows Phone 8 app must be acquired from the Windows Store.
NUMBER OF DEVICES	100 device addresses	
LIVE VIEW	iPhone/Android Phone: up to 4 cameras; iPad/Android Tablet: up to 16 cameras; Windows Phone: up to 4 cameras	
REMOTE PLAYBACK	iPhone/Android Phone/Windows Phone: 1-ch playback; iPad/Android Tablet: up to 4-ch	
CONFIGURABLE IMAGE QUALITY	Clear, balanced, fluent, and customized	
FRAME RATE	Up to 25/30 fps (dependant on device and network)	
RESOLUTION	Up to 1080p	
STREAM TYPE	Video and audio	
PTZ CONTROL	Pan, tilt, zoom	
SNAPSHOT	Snapshot and video recording in Live View	

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HIKVISION EUROPE

Parellaan 24, 2132 WS Hoofddorp, The Netherlands. Tel +31 23 5542770, fax +31 23 5631112

www.hikvision.com - info.eu@hikvision.com

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