

## Network Camera - Smart Series

	Box Camera							Indoor Dome	
Model	DS-2CD4012FWD-A  *Lens NOT included <b>1.3 MP</b>	DS-2CD6026FHW-D-A  *Lens NOT included <b>DarkFighter 2.0 MP</b>	DS-2CD6026FHW-D-A3/A7/A11  <b>DarkFighter 2.0 MP</b>	DS-2CD4025FWD-A  *Lens NOT included <b>LightFighter 2.0 MP</b>	DS-2CD4032FWD-A  *Lens NOT included <b>3.0 MP</b>	DS-2CD4065F-A  *Lens NOT included <b>6.0 MP</b>	DS-2CD4085F-AP  *Lens NOT included <b>4K</b>	DS-2CD4112FWD-IZ  <b>1.3 MP</b>	DS-2CD4125-FWD-IZ  <b>LightFighter 2.0 MP</b>
Image Sensor	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
Min. Illumination (lux)	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2	Color: 0.001 @ f/1.2 B/W: 0.0001 @ f/1.2	Color: 0.0016 @ f/1.5 B/W: 0.00016 @ f/1.5	Color: 0.005 @ f/1.2 B/W: 0.0005 @ f/1.2	Color: 0.1 @ f/1.2 B/W: 0.01 @ f/1.2	Color: 0.02 @ f/1.2 B/W: 0.002 @ f/1.2	Color: 0.01 @ f/1.2 B/W: 0.001 @ f/1.2	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.007 @ f/1.4 B/W: 0 with IR
Lens	Auto back focus, C/CS mount	Auto back focus, C/CS mount	A3: 3.8 to 16 mm f/1.5 A7: 7 to 33 mm f/0.95 A11: 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	Auto back focus, C/CS mount	Auto back focus, C/CS mount	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	98.4° to 30.2°	113° to 33.8°
Pan/Tilt/Rotation	---	---	---	---	---	---	---	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/140 dB
IR Range Max. (meters)	---	---	---	---	---	---	---	30	30
Video Compression	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	3072x2048	4096x2160	1280x960	1920x1080
Frame Rate (fps)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x720 20 @ 2048x1536	24 @ 3072x2048 30 @ 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup> except Object Counting	Full Smart Suite <sup>1</sup> except Object Counting	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line MIC: Built in	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)
Power Requirements (max.)	24 VAC, 12 VDC, PoE (802.3af), 8.5 W	24 VAC, 12 VDC, PoE (802.3af), 12 W	24 VAC, 12 VDC, PoE (802.3af), 12 W	24 VAC, 12 VDC, PoE (802.3af), 8.5 W	24 VAC, 12 VDC, PoE (802.3af), 10 W	24 VAC, 12 VDC, PoE (802.3af), 8 W	24 VAC, 12 VDC, PoE (802.3af), 8 W	12 VDC, PoE (802.3af), 10.5 W	12 VDC, PoE (802.3af), 10 W

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

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

## Network Camera - Smart Series

Model	Indoor Dome			Outdoor Bullet					
	DS-2CD4132FWD-IZ	DS-2CD4165F-IZ	DS-2CD4185F-IZ	DS-2CD4212FWD-IZH	DS-2CD4212FWD-IZH8	DS-2CD4A25FWD-IZH	DS-2CD4A25FWD-IZH8	DS-2CD4A26FWD-IZH	DS-2CD4A26FWD-IZH8
	 <b>3.0 MP</b>	 <b>6.0 MP</b>	 <b>4K</b>	 <b>1.3 MP</b>	 <b>1.3 MP</b>	 <b>LightFighter EXIR</b> <b>2.0 MP</b>	 <b>LightFighter EXIR</b> <b>2.0 MP</b>	 <b>DarkFighter EXIR</b> <b>2.0 MP</b>	 <b>DarkFighter EXIR</b> <b>2.0 MP</b>
<b>Image Sensor</b>	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.014 lux @ f/1.4 B/W: 0 lux with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus
<b>Horizontal Angle of View</b>	91.2° to 28.3°	94.5° to 30.5°	96.0° to 32.6°	98.4° to 30.2°	27.8° to 9.1°	98.4° to 30.2°	27.8° to 9.1°	92° to 32°	28° to 12°
<b>Pan/Tilt/Rotation</b>	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/140 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB
<b>IR Range Max. (meters)</b>	30	30	30	30	80	50	100	50	100
<b>Video Compression</b>	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG
<b>Maximum Image Resolution (pixels)</b>	2048x1536	3072x2048	4096x2160	1280x960	1280x960	1920x1080	1920x1080	1920x1080	1920x1080
<b>Frame Rate (fps)</b>	20 @ 2048x1536 30 @ 1920x1080, 1280x720	24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)	30 @ 1920x1080, 1280x960, 1280x720 (60 @ 1920x1080 with WDR off)
<b>Multi-Streaming</b>	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
<b>Smart Features</b>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	IN: 1 line/mic OUT: 1 line	---	---	---	---	---	---
<b>Alarm Input/Output</b>	1/1	1/1	1/1	---	---	---	---	---	---
<b>Local Storage</b>	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.
<b>Ratings</b>	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed
<b>Operating Temperature Range</b>	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 11.5 W	12 VDC, PoE (802.3af), 12.5 W	12 VDC, PoE (802.3af), 13 W	12 VDC, PoE+ (802.3at), 12 W	12 VDC, PoE+ (802.3at), 12 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 21 W	12 VDC, PoE+ (802.3at), 21 W

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

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

## Network Camera - Smart Series

Model	Outdoor Bullet				Outdoor Dome				
	DS-2CD4A35FWD-IZH	DS-2CD4A35FWD-IZH8	DS-2CD4A65F-IZH	DS-2CD4A85F-IZH	DS-2CD4312FWD-IZHS	DS-2CD4312FWD-IZHS8	DS-2CD4324FWD-IZHS	DS-2CD4324FWD-IZHS8	DS-2CD4526FWD-IZH
									
	<b>EXIR</b> <b>3.0 MP</b>	<b>EXIR</b> <b>3.0 MP</b>	<b>EXIR</b> <b>6.0 MP</b>	<b>EXIR</b> <b>4K</b>	<b>1.3 MP</b>	<b>1.3 MP</b>	<b>2.0 MP</b>	<b>2.0 MP</b>	<b>DarkFighter</b> <b>2.0 MP</b>
<b>Image Sensor</b>	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.0027 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus
<b>Horizontal Angle of View</b>	105° to 32°	29.7° to 9.7°	94.5° to 30.5°	96.0° to 32.6°	98.4° to 30.2°	27.8° to 9.1°	113° to 33.8°	31.2° to 10.2°	92° to 32°
<b>Pan/Tilt/Rotation</b>	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 355°/ 0° to 75°/0° to 355°				
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital	Yes/120 dB				
<b>IR Range Max. (meters)</b>	50	100	50	50	30	50	30	50	40
<b>Video Compression</b>	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG
<b>Maximum Image Resolution (pixels)</b>	2048x1536	2048x1536	3072x2048	4096x2160	1280x960	1280x960	1920x1080	1920x1080	1920x1080
<b>Frame Rate (fps)</b>	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1280 with WDR off)	24 @ 3072x2048, 30 @ 3072x1728, 2560x2048, 2560x1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160 30 @ 1920x1080, 1280x720	30 @ 1280x960 (60 @ 1280x720 with WDR off)	30 @ 1280x960 (60 @ 1280x720 with WDR off)	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)
<b>Multi-Streaming</b>	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple	Triple
<b>Smart Features</b>	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup> except Audio feature	Full Smart Suite <sup>1</sup>				
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	---	---	---	---	IN: 1 line OUT: 1 line				
<b>Alarm Input/Output</b>	---	---	---	---	2/2	2/2	2/2	2/2	1/1
<b>Local Storage</b>	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.
<b>Ratings</b>	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP67, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed
<b>Operating Temperature Range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	12 VDC, PoE+ (802.3at), 15.5 W	24 VAC/PoE (802.3af), 13 W	24 VAC/PoE (802.3af), 13 W	24 VAC/PoE+ (802.3at), 14 W	24 VAC/PoE+ (802.3at), 14 W	24 VAC, 12 VDC, PoE+ (802.3at), 17.5 W

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

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

## Network Camera - Smart Series

smart IPC		Outdoor Dome				
Model	DS-2CD4332FWD-IZH5	DS-2CD4332FWD-IZH5H	DS-2CD4535FWD-IZH	DS-2CD4535FWD-IZH8	DS-2CD4565F-IZH	DS-2CD4585F-IZH
	 <b>3.0 MP</b>	 <b>3.0 MP</b>	 <b>3.0 MP</b>	 <b>3.0 MP</b>	 <b>6.0 MP</b>	 <b>4K</b>
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS	1/1.7" progressive scan CMOS
Min. Illumination (lux)	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
Lens	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	8 to 32 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus	2.8 to 12 mm @ f/1.4, motorized, autofocus
Horizontal Angle of View	91.2° to 28.3°	26° to 8.54°	105° to 32°	29.7° to 9.7°	94.5° to 30.5°	96.0° to 32.6°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/Digital
IR Range Max. (meters)	30	50	40	50	40	40
Video Compression	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MPEG4/MJPEG	H.264+/H.264/MJPEG	H.264+/H.264/MJPEG
Maximum Image Resolution (pixels)	2048x1536	2048x1536	2048x1536	2048x1536	3072x2048	4096x2160
Frame Rate (fps)	20 @ 2048x1536 30 @ 1920x1080, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1080 with WDR off)	30 @ 2048x1536 (45 @ 2048x1536, 60 @ 1920x1080 with WDR off)	24 @ 3072x2048 30 @ 3072x1728, 2560x2048, 2560 x 1920, 2048x1536, 1920x1080, 1280x720	22 @ 4096x2160, 24 @ 3840x2160, 30 @ 1920x1080, 1280x720
Multi-Streaming	Triple	Triple	Triple	Triple	Triple	Triple
Smart Features	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>				
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line				
Alarm Input/Output	2/2	2/2	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.				
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed				
Operating Temperature Range	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)	-40° C to 60° C (-40° F to 140° F)
Power Requirements (max.)	24 VAC/PoE (802.3af), 13 W	24 VAC/PoE (802.3af), 13 W	12 VDC, 24 VAC/PoE+ (802.3af), 17.5 W	12 VDC, 24 VAC/PoE+ (802.3af), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3af), 17.5 W	12 VDC, 24 VAC, PoE+ (802.3af), 17.5 W

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

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

## Ultra HD 4K Technology

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

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

## Network Camera - Smart Series

smart IPC		Fisheye				
Model	DS-2CD6332FWD-I	DS-2CD6332FWD-IV	DS-2CD6362F-I	DS-2CD6362F-IV	DS-2CD63C2F-IV	
	 <b>3.0 MP</b>	 <b>3.0 MP</b>	 <b>6.0 MP</b>	 <b>6.0 MP</b>	 <b>12.0 MP</b> <span style="color: red; font-weight: bold;">NEW</span>	
<b>Image Sensor</b>	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	
<b>Min. Illumination (lux)</b>	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.28 @ f/2.0 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	Color: 0.3 @ f/2.8 B/W: 0 with IR	Color: 0.04 @ f/2.4 B/W: 0 with IR	
<b>Lens</b>	1.19 mm @ f/2.0, Fisheye	1.19 mm @ f/2.0, Fisheye	1.27 mm @ f/2.8, Fisheye	1.27 mm @ f/2.8, Fisheye	1.98 mm @ f/2.4	
<b>Horizontal Angle of View</b>	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	180°/360° (wall)	
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	
<b>BLC/WDR</b>	No/120 dB	No/120 dB	No/Digital	No/Digital	No/Digital	
<b>IR Range Max. (meters)</b>	10	10	10	10	10	
<b>Video Compression</b>	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	
<b>Maximum Image Resolution (pixels)</b>	2048x1536	2048x1536	3072x2048	3072x2048	4000x3072	
<b>Frame Rate (fps)</b>	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)	
<b>Multi-Streaming</b>	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	
<b>Smart Features</b>	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	Intrusion Detection, Line Crossing	
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	
<b>Audio Input/Output</b>	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	
<b>Alarm Input/Output</b>	---	---	---	---	---	
<b>Local Storage</b>	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	
<b>Ratings</b>	UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	
<b>Operating Temperature Range</b>	-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)	
<b>Power Requirements (max.)</b>	12 VDC/PoE (802.3af), 12.5 W	12 VDC/PoE (802.3af), 12.5 W	12 VDC/PoE (802.3af), 12 W	12 VDC/PoE (802.3af), 12 W	12 VDC/PoE (802.3af), 14.7 W	

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

## Network Camera - Smart Series

smart IPC		Covert			
Model	DS-2CD6412FWD-C2 (Base Unit)	DS-2CD6412FWD-L10 (Lens/Sensor)	DS-2CD6412FWD-L20 (Lens/Sensor)	DS-2CD6412FWD-L30 (Lens/Sensor)	
					
	*Base unit ONLY	*Base unit NOT included <b>1.3 MP</b>	*Base unit NOT included <b>1.3 MP</b>	*Base unit NOT included <b>1.3 MP</b>	
Image Sensor	Supports (2) L10, L20, or L30 lenses/sensor units (not included)	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	
Min. Illumination (lux)	---	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.3	Color: 0.04 @ f/2.0	
Lens	---	Fixed, 3.7 mm @ f/2.3	Fixed, 3.7 mm @ f/2.3	Fixed, 2.8 mm, 4 mm @ f/2.0	
Horizontal Angle of View	Lens dependent	57°	57°	92.5°, 73.1°	
Day/Night	---	Electronic	Electronic	Electronic	
BLC/WDR	---	No/120 dB	No/120 dB	No/120 dB	
IR Range Max. (meters)	---	---	---	---	
Video Compression	H.264+/H.264/MPEG4/MJPEG	---	---	---	
Maximum Image Resolution (pixels)	---	1280x960	1280x960	1280x960	
Frame Rate (fps)	30 @ 1280x960, 1280x720	---	---	---	
Multi-Streaming	Triple Stream	---	---	---	
Smart Features	Full Smart Suite <sup>1</sup> except Object Counting	---	---	---	
Motion Detection	Yes	---	---	---	
Audio Input/Output	IN: 1 line/mic OUT: 1 line	---	---	---	
Alarm Input/Output	1/1	---	---	---	
Local Storage	MicroSD, 128 GB max.	---	---	---	
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	
Power Requirements (max.)	12 VDC/PoE (802.3af), 8.5 W	Powered by Base Unit	Powered by Base Unit	Powered by Base Unit	

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

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

## Network PTZ Camera - Smart Pro Series

smart IPC		Indoor		
Model	DS-2DF5276-AE3	DS-2DF5220S-DE4/W	DS-2DF5286-AE3	
				
	<b>1.3 MP</b>	<b>2.0 MP</b>	<b>2.0 MP</b>	
Image Sensor	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.3 @ f/1.6 B/W: 0.02 @ f/1.6	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6	
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	
Horizontal Angle of View	57.4° to 2.8°	58.3° to 3.2°	65.5° to 2.11°	
Optical Zoom	30x	20x	30x	
Pan Range	360° endless	360° endless	360° endless	
Tilt Range	-5° to 90° (auto flip)	-30° to 90° (auto flip)	-5° to 90° (auto flip)	
Pan & Tilt Speed (Manual)	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 150°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 270°/sec. Tilt: 200°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	
Day/Night	TRUE	TRUE	TRUE	
BLC/WDR	Yes/Digital	Yes/Digital	Yes/Digital	
Electronic Image Stabilization	Yes	Yes	Yes	
IR Range Max. (Meters)	---	---	---	
Smart Features/Presets/Tours/Patterns	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	
Ratings	IK9, UL/cUL Listed	UL/cUL Listed	IK9, UL/cUL Listed	
Operating Temperature Range	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	
Power Requirements (max.)	24 VAC, PoE+ (802.3at), 25 W, PoE injector included	12 VDC, PoE+ (802.3at), 25 W, PoE injector included	24 VAC, PoE+ (802.3at), 25 W, PoE injector included	

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

<sup>2</sup>PTZ Suite: Line Crossing, Intrusion, Region Entrance, Region Exiting, Sudden Audio Increase/Decrease, Audio Loss, Defog

## Network PTZ Camera - Smart Pro Series

Network PTZ Camera - Smart Pro Series						Smart PTZ dome cameras incorporate Hikvision's innovative HD camera modules
smart IPC	Outdoor					
Model	 <b>1.3 MP</b>	 <b>2.0 MP</b>	 <b>DarkFighter 2.0 MP</b>	 <b>LightFighter 2.0 MP</b>	 <b>3.0 MP</b>	Based on Hikvision ISP (Image Signal Processing) technology, the HD camera modules can provide 3 MP (2048 × 1536), 2 MP (1920 × 1080) and 1.3 MP (1280 × 960) real-time HD output. The 36x zoom capability enables a closer view to capture more detail. Using progressive scan sensors, the camera modules deliver true color representation and clear images of fast-moving objects.
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	5.7 to 205.2 mm motorized zoom, autofocus	4.5 to 162 mm, motorized zoom, autofocus	4.5 to 162 mm, motorized zoom, autofocus	
Horizontal Angle of View	57.4° to 2.8°	65.5° to 2.11°	58.7° to 2.0°	60.6° to 3.68°	60.6° to 3.68°	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
Optical Zoom	30x	30x	36x	36x	36x	
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	Using progressive scan sensors, the camera modules deliver true color representation and clear images of fast-moving objects.
Tilt Range	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	
Pan & Tilt Speed (Manual)	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Pan: 0.1° to 300°/sec. Tilt: 0.1° to 240°/sec.	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
Pan & Tilt Speed (Preset)	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	Pan: 540°/sec. Tilt: 400°/sec.	
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
BLC/WDR	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/140 dB	
Electronic Image Stabilization	Yes	Yes	Yes	---	---	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
IR Range Max. (Meters)	---	---	---	---	---	
Smart Features/ Presets/Tours/Patterns	PTZ Suite <sup>2/</sup> 300/8/4	PTZ Suite <sup>2/</sup> 300/8/4	PTZ Suite <sup>2/</sup> 300/8/4	PTZ Suite <sup>2/</sup> 300/8/4	PTZ Suite <sup>2/</sup> 300/8/4	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG	
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	Hikvision's new 4K (8.8 MP, 4096 × 2160) dome cameras offer even greater resolution for unsurpassed detail and clarity. Complemented by an abundance of Smart features, these 4K dome cameras define state-of-the-art surveillance.
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720 with WDR off 60 @ 1920x1080, 1280x960, 1280x720 with WDR off	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off	
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	<b>GepaNet</b> <b>88142 Wasserburg</b> <b>Wiesenstraße 12</b> <b>Tel +49 8382 9479825</b> <b>Fax +49 8382 9479826</b> <b>Mail: info@gepanet.com</b> <b>WEB: <a href="http://www.gepanet.com">www.gepanet.com</a></b>
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	IP67, IK10, UL/cUL Listed	
Operating Temperature Range	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	
Power Requirements (max.)	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	24 VAC, PoE+ (802.3at), 60 W, PoE Injector Included	

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

## Network PTZ Camera - Smart Pro Series

 <span>Outdoor</span>								
Model	DS-2DF7276-AEL	DS-2DF7286-AEL	DS-2DF8236I-AEL	DS-2DF8236IV-AEL	DS-2DF8336IV-AEL	DS-2DF8836IV-AEL	DS-2DF8836IV-AELW <span style="color:red">NEW</span>	
	 <span style="border:1px solid red; border-radius:50%; padding:2px;">1.3 MP</span>	 <span style="border:1px solid red; border-radius:50%; padding:2px;">2.0 MP</span>	 <b>DarkFighter</b> <span style="border:1px solid red; border-radius:50%; padding:2px;">2.0 MP</span>	 <b>LightFighter</b> <span style="border:1px solid red; border-radius:50%; padding:2px;">2.0 MP</span>	 <span style="border:1px solid red; border-radius:50%; padding:2px;">3.0 MP</span>	 <span style="border:1px solid red; border-radius:50%; padding:2px;">4K</span>	 <span style="border:1px solid red; border-radius:50%; padding:2px;">4K</span>	
Image Sensor	1/2.8" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/1.9" progressive scan CMOS	1/1.9" progressive scan CMOS	
Min. Illumination (lux)	Color: 0.05 @ f/1.6 B/W: 0.005 @ f/1.6, 0 with IR	Color: 0.4 @ f/1.6 B/W: 0.03 @ f/1.6, 0 with IR	Color: 0.002 @ f/1.5 B/W: 0.0002 @ f/1.5, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01, 0 with IR	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5 with IR	Color: 0.02 @ f/1.5 B/W: 0.002 @ f/1.5 with IR	
Lens	4.3 to 129.0 mm, motorized zoom, autofocus	4.3 to 129.0 mm, motorized zoom, autofocus	5.7 to 205.2 mm, motorized zoom, autofocus	4.5 to 162 mm, motorized zoom, autofocus	4.5 to 162 mm, motorized zoom, autofocus	6.2 to 202 mm, motorized zoom, autofocus	6.2 to 202 mm, motorized zoom, autofocus	
Horizontal Angle of View	57.4° to 2.8°	65.5° to 2.11°	58.7° to 2.0°	60.6° to 3.68°	60.6° to 3.68°	56.8° to 2.02°	56.8° to 2.02°	
Optical Zoom	30x	30x	36x	36x	36x	36x	36x	
Pan Range	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless	
Tilt Range	-2° to 90° (auto flip)	-2° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	-20° to 90° (auto flip)	
Pan & Tilt Speed (Manual)	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	
Pan & Tilt Speed (Preset)	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	Pan: 240°/sec. Tilt: 200°/sec.	
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	
BLC/WDR	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/Digital	Yes/Digital	
Electronic Image Stabilization	Yes	Yes	Yes	---	---	---	---	
IR Range Max. (Meters)	150	150	200	200	200	200	200	
Smart Features/ Presets/Tours/Patterns	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	PTZ Suite <sup>2</sup> / 300/8/4	
Video Compression	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	
Maximum Image Resolution (pixels)	1280x960	1920x1080	1920x1080	1920x1080	2048x1536	4096x2160	4096x2160	
Frame Rate (fps)	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720 (60 @ 1920x1080, 1280x960, 1280x720 with WDR off)	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720 (60 @ 2048x1536, 1920x1080, 1280x960, 1280x720 with WDR off)	24 @ 4096x2160 (30 @ 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720)	24 @ 4096x2160 (30 @ 3840x2160, 3072x1728, 2560x1440, 1920x1080, 1280x720)	
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	
Ratings	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	
Operating Temperature Range	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	24 VAC: -40° C to 65° C (-40° F to 149° F); Hi-PoE: -30° C to 65° C (-22° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	-40° C to 65° C (-40° F to 149° F)	
Power Requirements (max.)	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included	24 VAC, Hi-PoE (802.3at), 60 W, PoE Injector Included, Wiper 2 W	

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

## Network Video Recorder

	Pro Series						
Model	DS-9616NI-ST	DS-9632NI-ST	DS-9664NI-ST	DS-9632NI-I8	DS-9664NI-I8	DS-96128NI-F24/H <sup>3</sup>	DS-96256NI-F24/H <sup>3</sup>
							
<b>Max. Recording Resolution</b>	6 MP	6 MP	6 MP	12MP	12MP	4K	4K
<b>Video Compression</b>	H.264, H.264+	H.264, H.264+	H.264, H.264+	H.264, H264+, H.265	H.264, H264+, H.265	H.264	H.264
<b>HDMI/VGA Output</b>	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	3840x2160/1920x1080 (HDMI1/VGA1 Synchronous), 1920x1080/1920x1080 (HDMI2/VGA2 Synchronous), HDMI1/HDMI2 Independent	14 HDMI and 1 VGA at 1920x1080 Resolution, HDMI1/VGA/LCD Synchronous. HDMI2 to HDMI14 are Independent	14 HDMI and 1 VGA at 1920x1080 Resolution, HDMI1/VGA/LCD Synchronous. HDMI2 to HDMI14 are Independent
<b>IP Video Inputs</b>	16	32	64	32	64	128	256
<b>Alarm Input/Output</b>	16/4	16/4	16/4	16/4	16/4	16/8	16/8
<b>USB</b>	3 USB 2.0	3 USB 2.0	3 USB 2.0	2 USB 2.0; 1 USB 3.0	2 USB 2.0; 1 USB 3.0	1 USB 2.0; 2 USB 3.0	1 USB 2.0; 2 USB 3.0
<b>RAID Support</b>	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10	RAID 0, RAID 1, RAID 5, RAID 10
<b>Internal SATA</b>	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	8 SATA interfaces (up to 6 TB each)	24 SATA interfaces (up to 6 TB each)	24 SATA interfaces (up to 6 TB each)
<b>Maximum Internal Storage</b>	48 TB	48 TB	48 TB	48 TB	48 TB	144 TB	144 TB
<b>eSATA Interface</b>	Yes	Yes	Yes	Yes	Yes	---	---
<b>Support DVD-RW</b>	Yes, replaces 4x SATA	Yes, replaces 4x SATA	---	---			
<b>Max. Incoming Bandwidth (Mbps)</b>	100 (100 with RAID)	200 (100 with RAID)	200 (100 with RAID)	320 (200 with RAID)	320 (200 with RAID)	400	640 (400 with RAID)
<b>Maximum Outgoing Bandwidth (Mbps)</b>	240 (100 with RAID)	160 (100 with RAID)	160 (100 with RAID)	256 (200 with RAID)	256 (200 with RAID)	400	400
<b>Ratings</b>	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
<b>Rack Units</b>	2	2	2	2	2	4	4
<b>Power Requirements</b>	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
<b>Power Consumption</b>	≤45 W without HDD	≤45 W without HDD	≤45 W without HDD	≤30 W without HDD or DVD-R/W	≤30 W without HDD or DVD-R/W	≤100 W without HDD or DVD-R/W	≤100 W without HDD or DVD-R/W

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

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

## Hikvision's Optimized H.264+ Compression Technology

Hikvision has enhanced its video products through the application of the latest in technology. Our unique H.264+ Advanced Video Coding (AVC) optimizes compression beyond the current H.264 standard. Through the combination of intelligent analysis, predictive encoding, noise suppression, and bitrate control, Hikvision is meeting the demand for higher resolution at reduced bandwidths. Our customers benefit from the lower bitrate provided by H.264+, which reduces bandwidth and storage requirements by 50 to 70%, improving network throughput and lowering security system costs.

## Network Camera - Value Plus Series

	Outdoor Dome		Outdoor Compact Dome		Outdoor Dome		Outdoor Turret
Model	DS-2CD2122FWD-IS	DS-2CD2142FWD-IS	DS-2CD2522FWD-IS	DS-2CD2542FWD-IS	DS-2CD2722FWD-IZS	DS-2CD2742FWD-IZS	DS-2CD2322WD-I
	 <b>2.0 MP</b>	 <b>4.0 MP</b>	 <b>2.0 MP</b>	 <b>4.0 MP</b>	 <b>2.0 MP</b>	 <b>4.0 MP</b>	 <b>EXIR 2.0 MP</b>
<b>Image Sensor</b>	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR			
<b>Lens</b>	Fixed, 4mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed 4mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, motorized	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)
<b>Horizontal Angle of View</b>	102° (2.8 mm), 85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	102° (2.8 mm), 85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	106° to 35°	112° to 33.8°	109° (2.8 mm), 90° (4 mm), 54° (6 mm)
<b>Pan/Tilt/Rotation</b>	0° to 355°/0° to 75°/0° to 355°	0° to 355°/0° to 75°/0° to 355°	-30° to 30°/0° to 75°/0° to 360°	-30° to 30°/0° to 75°/0° to 360°	0° to 355°/0° to 75°/0° to 355°	0° to 355°/0° to 75°/0° to 355°	0° to 360°/0° to 75°/0° to 360°
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
<b>IR Range Max. (meters)</b>	30	30	10	10	30	30	30
<b>Video Compression</b>	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
<b>Maximum Image Resolution (pixels)</b>	1920x1080	2688x1520	1920x1080	2688x1520	1920x1080	2688x1520	1920x1080
<b>Frame Rate (fps)</b>	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
<b>Multi-Streaming</b>	Dual	Dual	Dual	Dual	Dual	Dual	Dual
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	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	---
<b>Alarm Input/Output</b>	1/1	1/1	1/1	1/1	1/1	1/1	---
<b>Local Storage</b>	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---			
<b>Smart Features</b>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>			
<b>Ratings</b>	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed
<b>Operating Temperature Range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 7.5 W			

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

<sup>4</sup>Basic Smart Suite: Line Crossing, Intrusion

## Network Camera - Value Plus Series

	Outdoor Turret	Outdoor Bullet					
	DS-2CD2342WD-I	DS-2CD2022WD-I	DS-2CD2042WD-I	DS-2CD2T22WD-I5	DS-2CD2T42WD-I5	DS-2CD2622FWD-I5ZS	DS-2CD2642FWD-I5ZS
<b>Model</b>	 <b>EXIR</b> <b>4.0 MP</b>	 <b>2.0 MP</b>	 <b>4.0 MP</b>	 <b>EXIR</b> <b>2.0 MP</b>	 <b>EXIR</b> <b>4.0 MP</b>	 <b>2.0 MP</b>	 <b>4.0 MP</b>
<b>Image Sensor</b>	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	Fixed, 2.8 mm @ f/2.0 (4 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (6 mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	Fixed, 4 mm @ f/2.0 (6mm option)	2.8 to 12 mm @ f/1.4, motorized	2.8 to 12 mm @ f/1.4, motorized
<b>Horizontal Angle of View</b>	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	85° (4 mm), 52° (6 mm)	82° (4 mm) , 55° (6 mm)	90° (4 mm), 54° (6 mm)	83° (4 mm), 56° (6 mm)	106° to 35°	112° to 33.8°
<b>Pan/Tilt/Rotation</b>	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
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/120 dB	No/120 dB	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
<b>IR Range Max. (meters)</b>	30	30	30	50	50	30	30
<b>Video Compression</b>	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
<b>Maximum Image Resolution (pixels)</b>	2688x1520	1920x1080	2688x1520	1920x1080	2688x1520	1920x1080	2688x1520
<b>Frame Rate (fps)</b>	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720
<b>Multi-Streaming</b>	Dual	Dual	Dual	Dual	Dual	Dual	Dual
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	---	--	--	--	---	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line
<b>Alarm Input/Output</b>	---	--	--	--	---	1/1	1/1
<b>Local Storage</b>	---	--	--	--	---	MicroSD, 128 GB max.	MicroSD, 128 GB max.
<b>Smart Features</b>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>
<b>Ratings</b>	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
<b>Operating Temperature Range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W	12 VDC, PoE (802.3af), 7.5 W

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

<sup>4</sup>Basic Smart Suite: Line Crossing, Intrusion

## Network Camera - Value Series

	Indoor Recessed Dome		Outdoor Dome		Outdoor Compact Dome			
Model	DS-2CD2E10F	DS-2CD2E20F	DS-2CD2112F-I	DS-2CD2132F-I	DS-2CD2510F	DS-2CD2512F-I	DS-2CD2520F	DS-2CD2532F-I
	 <b>1.3 MP</b>	 <b>2.0 MP</b>	 <b>1.3 MP</b>	 <b>3.0 MP</b>	 <b>1.3 MP</b>	 <b>1.3 MP</b>	 <b>2.0 MP</b>	 <b>3.0 MP</b>
<b>Image Sensor</b>	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			
<b>Min. Illumination (lux)</b>	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0.0028 @ f/2.0	Color: 0.19 @ f/2.0 B/W: 0 with IR
<b>Lens</b>	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed, 2 mm @ f/2.0	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)	Fixed, 2 mm @ f/2.0	Fixed, 4 mm @ f/2.0 (2.8 mm, 6 mm option)
<b>Horizontal Angle of View</b>	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)
<b>Pan/Tilt/Rotation</b>	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°
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	Electronic	TRUE	Electronic	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range Max. (meters)</b>	---	---	30	30	---	10	---	10
<b>Video Compression</b>	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
<b>Maximum Image Resolution (pixels)</b>	1280x960	1920x1080	1280x960	2048x1536	1280x960	1280x960	1920x1080	2048x1536
<b>Frame Rate (fps)</b>	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
<b>Multi-Streaming</b>	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
<b>Smart Features</b>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>			
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	---	---	---	---	---	---	---	---
<b>Alarm Input/Output</b>	---	---	---	---	---	1/1	---	1/1
<b>Local Storage</b>	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.			
<b>Ratings</b>	UL/cUL Listed	UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK8, UL/cUL Listed
<b>Operating Temperature Range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 4.2 W	12 VDC, PoE (802.3af), 4.5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 4 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 4 W	12 VDC, PoE (802.3af), 7 W

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

<sup>4</sup>Basic Smart Suite: Line Crossing, Intrusion

## Network Camera - Value Series

	Outdoor Dome		Outdoor Turret	Outdoor Bullet				
Model	DS-2CD2712F-I  <b>1.3 MP</b>	DS-2CD2732F-I  <b>3.0 MP EXIR</b>	DS-2CD2332-I  <b>3.0 MP</b>	DS-2CD2012-I  <b>1.3 MP</b>	DS-2CD2032-I  <b>3.0 MP EXIR</b>	DS-2CD2212-I5  <b>1.3 MP EXIR</b>	DS-2CD2232-I5  <b>3.0 MP EXIR</b>	DS-2CD2612F-I  <b>1.3 MP</b>
<b>Image Sensor</b>	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
<b>Min. Illumination (lux)</b>	Color: 0.014 @ f/1.4 B/W: 0 with IR	Color: 0.01 @ f/1.4 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.028 @ f/2.0 B/W: 0 with IR	Color: 0.19 @ f/2.0 B/W: 0 with IR	Color: 0.014 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	2.8 to 12 mm @ f/1.4, manual	2.8 to 12 mm @ f/1.4, manual	Fixed 4 mm @ f/2.0 (2.8 mm, 6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	Fixed 4 mm @ f/2.0 (6 mm, 12 mm option)	2.8 to 12 mm @ f/1.4, manual
<b>Horizontal Angle of View</b>	98.4° to 30.2°	91.2° to 28.3°	86° (2.8 mm), 70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	73.1° (4 mm), 46° (6 mm), 22° (12 mm)	70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	73.1° (4 mm), 46° (6 mm), 22° (12 mm)	70° (4 mm), 43.3° (6 mm), 20.6° (12 mm)	98.4° to 30.2°
<b>Pan/Tilt/Rotation</b>	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	0° to 360°/ 0° to 75°/0° to 360°	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range Max. (meters)</b>	30	30	30	30	30	50	50	30
<b>Video Compression</b>	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
<b>Maximum Image Resolution (pixels)</b>	1280x960	2048x1536	2048x1536	1280x960	2048x1536	1280x960	2048x1536	1280x960
<b>Frame Rate (fps)</b>	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720
<b>Multi-Streaming</b>	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
<b>Smart Features</b>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	---	---	---	---	---	---	---	---
<b>Alarm Input/Output</b>	---	---	---	---	---	---	---	---
<b>Local Storage</b>	MicroSD, 128 GB max.	MicroSD, 128 GB max.	---	---	---	---	---	MicroSD, 128 GB max.
<b>Ratings</b>	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
<b>Operating Temperature Range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 9 W	12 VDC, PoE (802.3af), 9 W	12 VDC, PoE (802.3af), 7 W

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

<sup>4</sup>Basic Smart Suite: Line Crossing, Intrusion

## Network Camera - Value Series

	Outdoor Bullet	Indoor Pinhole	Covert	Indoor Fisheye
<b>Model</b>	DS-2CD2632F-I  <b>3.0 MP</b>	DS-2CD2D14WD  <b>1.0 MP</b>	DS-2CD2D14WD/M  <b>1.0 MP</b> <span style="color:red">NEW</span>	DS-2CD2942F-IS  <b>4.0 MP</b>
<b>Image Sensor</b>	1/3" progressive scan CMOS	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/3" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.1 @ f/1.4 B/W: 0 with IR	Color: 0.028 @ f/2.0	Color: 0.028 @ f/2.0	Color: 0.018 @ f/1.6 B/W: 0.0018 @ f/1.6 0 with IR
<b>Lens</b>	2.8 to 12 mm @ f/1.4, manual	Pinhole, 3.2 mm @ f/2.5	2.8 mm @ f/2.0 or 4.0 mm @ f/2.0	Fisheye, 1.6 mm, f/1.6
<b>Horizontal Angle of View</b>	91.2° to 28.3°	65° (3.2 mm)	67.3° (2.8 mm), 53° (4.0 mm)	186° (horizontal), 106° (vertical)
<b>Pan/Tilt/Rotation</b>	3-Axis Positioning	0° to 360°/0° to 90°/na	0° to 360°/0° to 90°/na	---
<b>Day/Night</b>	TRUE	Electronic	Electronic	TRUE
<b>BLC/WDR</b>	Yes/Digital	No/100 dB	No/100 dB	Yes/Digital
<b>IR Range Max. (meters)</b>	30	---	---	8
<b>Video Compression</b>	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
<b>Maximum Image Resolution (pixels)</b>	2048x1536	1280x720	1280x720	2560x1440
<b>Frame Rate (fps)</b>	20 @ 2048x1536 30 @ 1920x1080, 1280x720	30 @ 1280x720, 704x576, 640x480	30 @ 1280x720, 704x576, 640x480	15 @ 2560x1440 30 @ 1920x1080, 1280x720
<b>Multi-Streaming</b>	Dual	Dual	Dual	Dual
<b>Smart Features</b>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup> + tampering alarm, dynamic analysis, motion detection	Basic Smart Suite <sup>4</sup> + tampering alarm, dynamic analysis, motion detection	---
<b>Motion Detection</b>	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	---	---	---	IN: 1 line OUT: 1 line
<b>Alarm Input/Output</b>	---	---	---	1/1
<b>Local Storage</b>	MicroSD, 128 GB max.	---	---	MicroSD, 128 GB max.
<b>Ratings</b>	IP66, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
<b>Operating Temperature Range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 7 W	12 VDC, 3 W	12 VDC, 3 W	12 VDC, PoE (802.3af), 5.55 W

## Network PTZ Camera - Value Series

	Indoor PTeZ™		Indoor PTZ
<b>Model</b>	DS-2DE2103-DE3/W  <b>1.0 MP</b>	DS-2DE22021-DE3/W  <b>2.0 MP</b>	DS-2DE4220-AE3  <b>2.0 MP</b>
<b>Image Sensor</b>	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/2.0 B/W: 0.01 @ f/2.0	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6
<b>Lens</b>	3.6 to 11 mm, 3x (effective) <sup>5</sup> via PTeZ™	3.6 to 8.6 mm, 2x (effective) <sup>5</sup> via PTeZ™	4.7 to 94 mm, motorized zoom, autofocus
<b>Horizontal Angle of View</b>	80° to 33°	80° to 64.5°	58.3° to 3.2°
<b>Optical Zoom</b>	3x	2x	20x
<b>Pan Range</b>	0° to 350°	0° to 350°	360° endless
<b>Tilt Range</b>	0° to 90° (auto flip)	+5° to 90°	+5° to 90° (auto flip)
<b>Pan &amp; Tilt Speed (Manual)</b>	Pan: 0.1° to 100°/sec. Tilt: 0.1° to 80°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
<b>Pan &amp; Tilt Speed (Preset)</b>	Pan: 100°/sec. Tilt: 80°/sec.	Pan: 50°/sec. Tilt: 50°/sec.	Pan: 160°/sec. Tilt: 120°/sec.
<b>Day/Night</b>	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range Max. (meters)</b>	---	20	---
<b>Smart Features</b>	Basic Smart Suite <sup>5</sup>	Basic Smart Suite <sup>5</sup>	Basic Smart Suite <sup>4</sup>
<b>Presets/Tours/Patterns</b>	300/0/0	300/0/0	300/8/4
<b>Wireless</b>	IEEE 802.11b/g/n	IEEE 802.11b/g/n	---
<b>Video Compression</b>	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
<b>Maximum Image Resolution (pixels)</b>	1280x720	1920x1080	1920x1080
<b>Frame Rate (fps)</b>	30 @ 1280x720	30 @ 1920x1080	30 @ 1920x1080, 1280x720
<b>Local Storage</b>	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
<b>Ratings</b>	UL/cUL Listed	UL/cUL Listed	IK8, UL/cUL Listed
<b>Operating Temperature range</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, PoE (802.3af), 6 W	12 VDC, PoE (802.3af), 9 W	24 VAC, PoE (802.3af), 18 W

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

<sup>4</sup>Basic Smart Suite: Line Crossing, Intrusion Detection

<sup>5</sup>PTeZ™ cameras have a sensor-based zoom

## Network PTZ Camera - Value Series

	Indoor PTZ	Outdoor PTZ				Outdoor IR PTZ		
Model	DS-2DE5184-AE3	DS-2DE3304W-DE <span style="color:red">NEW</span>	DS-2DE4220-AE	DS-2DE5174-AE	DS-2DE5184-AE	DS-2DE5220I-AE	DS-2DE7174-AE	DS-2DE7184-AE
<b>Image Sensor</b>	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.5 B/W: 0.01 @ f/1.5	Color: 0.05 @ f/1.4 B/W: 0.01 @ f/1.4, 0 with IR	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6, 0 with IR
<b>Lens</b>	4.7 to 94 mm, motorized zoom, autofocus	2.8 to 12 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus	4.7 to 94 mm, motorized zoom, autofocus
<b>Horizontal Angle of View</b>	58.3° to 3.2°	105° to 33.5°	58.3° to 3.2°	58.3° to 3.2°				
<b>Optical Zoom</b>	20x	4x (16x Digital)	20x	20x	20x	20x	20x	20x
<b>Pan Range</b>	360° endless	0° to 350°	360° endless	360° endless				
<b>Tilt Range</b>	-5° to 90° (auto flip)	+5° to 90°	+5° to 90° (auto flip)	-5° to 90° (auto flip)	-5° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)	-15° to 90° (auto flip)
<b>Pan &amp; Tilt Speed (Manual)</b>	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 60°/sec. Tilt: 0.1° to 50°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 250°/sec. Tilt: 0.1° to 150°/sec.	Pan: 0.1° to 400°/sec. Tilt: 0.1° to 200°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.	Pan: 0.1° to 160°/sec. Tilt: 0.1° to 120°/sec.
<b>Pan &amp; Tilt Speed (Preset)</b>	Pan: 300°/sec. Tilt: 200°/sec.	Pan: 50°/sec. Tilt: 50°/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.
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range Max. (meters)</b>	---	---	---	---	---	150	100	100
<b>Smart Features</b>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>	Basic Smart Suite <sup>4</sup>
<b>Presets/Tours/Patterns</b>	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4
<b>Wireless</b>	---	---	---	---	---	---	---	---
<b>Video Compression</b>	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
<b>Maximum Image Resolution (pixels)</b>	1920x1080	2048x1536	1920x1080	1280x960	1920x1080	1920x1080	1280x960	1920x1080
<b>Frame Rate (fps)</b>	30 @ 1280x960, 1280x720	30 @ 2048x1536, 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	30 @ 1920x1080, 1280x960, 1280x720
<b>Local Storage</b>	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.
<b>Ratings</b>	IK9, UL/cUL Listed	IP66, UL/cUL Listed	IP66, IK8, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	IP66, UL/cUL Listed	IP66, UL/cUL Listed
<b>Operating Temperature Range</b>	-10° C to 50° C (14° F to 122° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)	-30° C to 65° C (-22° F to 149° F)
<b>Power Requirements (max.)</b>	24 VAC, PoE+ (802.3at), 18 W	12 VDC, PoE (802.3af), 8 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, PoE+ (802.3at), 18 W	24 VAC, Hi-PoE (802.3at), 32 W	24 VAC, Hi-PoE (802.3at), 40 W	24 VAC, Hi-PoE (802.3at), 40 W

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

<sup>4</sup>Basic Smart Suite: Line Crossing, Intrusion

## Network Video Recorder

	Plug-and-play					
Model	DS-7604NI-E1/4P	DS-7608NI-E2/8P	DS-7608NI-I2/8P	DS-7616NI-I2/8P	DS-7716NI-SP/16	DS-7716NI-I4/16P
						
Max. Recording Resolution	6 MP	6 MP	12 MP	12 MP	6 MP	12 MP
Video Compression	H.264, H.264+	H.264, H.264+	H.264, H.264+, H.265	H.264, H.264+, H.265	H.264, H.264+	H.264, H.264+, H.265
HDMI/VGA Output	1920x1080/1920x1080, synchronized output	1920x1080/1920x1080, synchronized output	3840x2160/1920x1080, 1920x1080/1920x1080, independent output	3840x2160/1920x1080, 1920x1080/1920x1080, independent output	1920x1080/1920x1080, independent output	3840x2160/1920x1080, 1920x1080/1920x1080, independent output
IP Video Input	4-ch IPC with integrated 4-port 802.3af/at PoE switch	8-ch IPC with integrated 8-port 802.3af/at PoE switch	8-ch IPC with integrated 8-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch	16-ch IPC with integrated 16-port 802.3af/at PoE switch
Audio Input/Output	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out	1 line in/1 line out
Alarm Input/Output	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	4 ch/1 ch	16 ch/4 ch	16 ch/4 ch
USB	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	1 USB 2.0; 1 USB 3.0	3 USB 2.0	3 USB 2.0
Internal SATA	1 SATA interface (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	2 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)	4 SATA interfaces (up to 6 TB each)
eSATA Interface	---	---	---	---	Yes	Yes
Max. Internal Storage	6 TB	12 TB	12 TB	12 TB	24 TB	24 TB
Support DVD-RW	---	---	---	---	Yes, replaces 2x SATA	Yes, replaces 2x SATA
Max. Incoming Bandwidth (Mbps)	40	80	80	160	100	160
Maximum Outgoing Bandwidth (Mbps)	80	80	256	256	240	256
Max. Remote Connections	128	128	128	128	128	128
Rack Units	1	1	1	1	1.5	1.5
Ratings	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
PoE Budget	50 W	120 W	180 W	280 W	200 W	300 W
Power Requirements	48VDC, ≤10W without HDD	100 to 240 VAC, ≤10W without HDD	100 to 240 VAC, ≤15W without HDD	100 to 240 VAC, ≤15W without HDD	100 to 240 VAC, ≤40 W without HDD	100 to 240 VAC, ≤20W without HDD

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

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## Network Camera - Value Series

	Outdoor Wi-Fi Dome		Wi-Fi Compact Dome		Wi-Fi Cube		Indoor Wi-Fi PTeZ™		Indoor PTZ
Model	DS-2CD2112F-IWS	DS-2CD2132F-IWS	DS-2CD2522FWD-IWS	DS-2CD2542FWD-IWS	DS-2CD2421F-IW	DS-2CD2432F-IW	DS-2DE2103-DE3/W	DS-2DE2201-DE3/W	DS-2DF5220S-DE4/W
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) <sup>2</sup> via PTeZ™	3.6 to 8.6 mm, 2x (effective) <sup>2</sup> via PTeZ™	4.7 to 94 mm, motorized zoom, autofocus, 20x
Horizontal Angle of View	92.5° (2.8 mm), 73.1° (4 mm), 46° (6 mm)	98.5° (2.8 mm), 79° (4 mm), 49° (6 mm)	85° (4 mm), 52° (6 mm)	106° (2.8 mm), 83° (4 mm), 56° (6 mm)	92.5° (2.8 mm), 73.1° (4 mm)	86° (2.8 mm), 79° (4 mm)	80° to 33°	80° to 64.5°	58.3° to 3.2°
Pan/Tilt/Rotation	0° to 355°/ 0° to 75°/0° to 355°	0° to 355°/ 0° to 75°/0° to 355°	-30° to 30°/ 0° to 75°/0° to 360°	-30° to 30°/ 0° to 75°/0° to 360°	3-Axis Positioning	3-Axis Positioning	0° to 350°/0° to 90°/NA	0° to 350°/0° to 90°/NA	360° endless/ -30° to 90° (auto flip)/NA
Day/Night	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
BLC/WDR	Yes/Digital	Yes/Digital	No/120 dB	No/120 dB	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
IR Range Max. (meters)	30	30	10	10	10	10	---	20	---
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Maximum Image Resolution (pixels)	1280x960	2048x1536	1920x1080	2688x1520	1280x960	2048x1536	1280x720	1920x1080	1920x1080
Frame Rate (fps)	30 @ 1280x960, 1280x720	20 @ 2048x1536, 30 @ 1920 x 1080, 1280x720	30 @ 1920x1080, 1280x960, 1280x720	20 @ 2688x1520 30 @ 1920x1080, 1280x720	30 @ 1280x960, 1280x720	20 @ 2048x1536 30 @ 1920x1080	30 @ 1280x720	30 @ 1920x1080	30 @ 1920x1080, 1280x960, 1280x720
Multi-Streaming	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
Motion Detection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wireless	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n	IEEE 802.11b/g/n
Audio Input/Output	IN: 1 line OUT: 1 line	IN: 1 line OUT: 1 line	OUT: 1 line Mic: Built in	OUT: 1 line Mic: Built in	Built-in mic and speaker	Built-in mic and speaker	OUT: 1 line Mic: Built in	OUT: 1 line Mic: Built in	IN: 1 line OUT: 1 line
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Local Storage	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
Ratings	IP66, IK10, UL/cUL Listed	IP66, IK10, UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed	UL/cUL Listed
Operating Temperature Range	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	-30° C to 60° C (-22° F to 140° F)	0° C to 40° C (-22° F to 104° F)	0° C to 40° C (-22° F to 104° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)	-10° C to 50° C (14° F to 122° F)
Power Requirements (max.)	12 VDC PSU included, PoE (802.3af), 5 W	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5 W, PSU included	12 VDC, PoE (802.3af), 5.5 W, PSU included	12 VDC, PoE (802.3af), 9 W, PSU included	12 VDC, PoE+ (802.3at), 24 W

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

<sup>2</sup>PTeZ™ cameras have a sensor-based zoom

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

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

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

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