










## 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
								
Image Sensor	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/3" progressive scan CMOS	1/2.8" progressive scan CMOS	1/2.8" 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	73.1°(4 mm), 46°(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), 79° (4 mm), 52° (6 mm)	98.5° (2.8mm), 79° (4mm), 49° (6mm)	98.5° (2.8mm), 79° (4mm), 49° (6mm)
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	2048 x 1536
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. <sup>3</sup>	---	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 <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>
Other features	IP66	IP66	IP66	IP66/IK10	IP66/IK10	WiFi / IP66 / IK10	IP66/IK10	WiFi / 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)	-30° C to 60° C, humidity 95% (non-condensing)
Power Requirements (max.)	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 7 W	12 VDC, PoE (802.3af), 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

<sup>2</sup>Basic Smart Suite: Line Crossing Detection, Intrusion Detection

<sup>3</sup>Firmware 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-2CD2212-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
<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: 0.01 @ 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
<b>Lens</b>	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)
<b>Horizontal Angle of View</b>	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), 70° (4 mm)
<b>Pan/Tilt/Rotation</b>	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	3-Axis Positioning	0° to 360°/ 0° to 75°/0° to 360°	0° to 360°/ 0° to 75°/0° to 360°	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 (meters)</b>	Up to 50	Up to 50	Up to 50	Up to 80	up to 30	up to 30	Up to 10	Up to 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>Max. Image Resolution (pixels)</b>	1280 × 960	2048 × 1536	1920 × 1080	1920 × 1080	1280 × 960	2048 × 1536	1280 × 960	2048 × 1536
<b>Frame Rate (fps)</b>	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
<b>Multi-Streaming</b>	Dual	Dual	Dual	Dual	Dual	Dual	Dual	Dual
<b>Motion Detection</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Audio Input/Output</b>	---	---	---	---	---	---	Built-in mic and speaker	Built-in mic and speaker
<b>Alarm Input/Output</b>	---	---	---	---	---	---	1/1	1/1
<b>Local Storage</b>	---	---	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	---	---	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
<b>Smart Features</b>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>		
<b>Other features</b>	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
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	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

<sup>2</sup>Basic Smart Suite: Line Crossing Detection, Intrusion Detection

<sup>3</sup>Firmware 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
	 <b>1.3 MP</b>	 <b>1.3 MP</b>	 <b>1.3 MP</b>	 <i>FULL HD</i> <b>2.0 MP</b>	 <b>3.0 MP</b>	 <b>3.6 MP</b>	 <b>3.6 MP</b>
<b>Image Sensor</b>	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
<b>Min. Illumination (lux)</b>	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
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	67.27° (2.8 mm), 73.1° (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)
<b>Pan/Tilt/Rotation</b>	±15°/0° to 90°/±15°	±30°/0° to 80°/ 0° to 360°	±30°/0° to 80°/ 0° to 360°	-15° to 15°/0° to 90°/-15° to 15°	±30°/0° to 80°/ 0° to 360°	---	---
<b>Day/Night</b>	Electronic	TRUE	TRUE	Electronic	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range (meters)</b>	---	Up to 10	Up to 10	---	Up to 10	Up to 8	Up to 8
<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
<b>Max. Image Resolution (pixels)</b>	1280 × 960	1280 × 960	1280 × 960	1920 × 1080	2048 × 1536	2560 × 1440	2560 × 1440
<b>Frame Rate (fps)</b>	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
<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>	---	---	OUT: 1 MIC: Built in	---	---	---	OUT: 1 MIC: Built in
<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.	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
<b>Smart Features</b>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>3</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>3</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>
<b>Other features</b>	IP66	IP66/IK8	IP66/IK8	IP66/IK8	IP66/IK8	IP66/IK8	IP66/IK8
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	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), 5.55 W	12 VDC, PoE (802.3af), 5.55 W

<sup>2</sup>Basic Smart Suite: Line Crossing Detection, Intrusion Detection

<sup>3</sup>Firmware 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
<b>Image Sensor</b>	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	1/3" progressive scan CMOS
<b>Min. Illumination (lux)</b>	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
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	98.4° to 30.2°	113° to 33.8°	113° to 33.8°	113° to 33.8°	91.2° to 28.3°	112° to 33.8°	112° to 33.8°
<b>Pan/Tilt/Rotation</b>	3-Axis Positioning	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/Digital	Yes/Digital	Yes/120 dB	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/120 dB
<b>IR Range (meters)</b>	30	30	30	30	30	30	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
<b>Max. Image Resolution (pixels)</b>	1280 x 960	1920 x 1080	1920 x 1080	1920 x 1080	2048 x 1536	2688 x 1520	2688 x 1520
<b>Frame Rate (fps)</b>	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
<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.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.	MicroSD, 128 GB max.
<b>Smart Features</b>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>
<b>Other features</b>	IP66	IP66	IP66	IP66	IP66	IP66	IP66
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	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

<sup>2</sup>Basic 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	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	1/2.8" 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: 0.01 @ 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	98.4° to 30.2°	113° to 33.8°	113° to 33.8°	113° to 33.8°	91.2° to 28.3°	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 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, 1280 x 720	25 @ 1920 x 1080, 1280 x 720	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	25 @ 1920 x 1080, 1280 x 960, 1280 x 720	20 @ 2048 x 1536 30 @ 1920 x 1080, 1280 x 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 <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>
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. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
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.) <sup>s</sup>	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W	12 VDC, PoE (802.3af), 5.5 W

<sup>2</sup>Basic Smart Suite: Line Crossing Detection, Intrusion Detection

<sup>3</sup>Firmware 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
	 <b>1.0 MP</b>	 <b>2.0 MP</b>	 <b>2.0 MP</b>	 <b>1.3 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	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/1.6 B/W: 0.01 @ f/1.6	Color: 0.05 @ f/1.6 B/W: 0.01 @ f/1.6, 0 with IR
Lens	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	4.7 to 94 mm	4.7 to 94 mm
Horizontal Angle of View	77° to 37°	77° to 50°	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)	0° 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 50°/sec. Tilt: 0.1° to 40°/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: 50°/sec. Tilt: 40°/sec.	Pan: 60°/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 <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>	Basic Smart Suite <sup>2</sup>
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. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
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), 5.5 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

<sup>2</sup>Basic Smart Suite: Line Crossing Detection, Intrusion Detection  
<sup>3</sup>Firmware v 5.3 and later

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

## Network Camera - Smart Series

 <b>Box camera</b>						
Model	DS-2CD4024F-A	DS-2CD4025FWD-A	DS-2CD4032FWD-A	DS-2CD6026FHWD-A	DS-2CD4035FWD-A	DS-2CD4065F-AP
	FULL HD 	FULL HD 		FULL HD 		
	*Lens NOT included <b>2.0 MP</b>	*Lens NOT included <b>LightFighter 2.0 MP</b>	*Lens NOT included <b>3.0 MP</b>	*Lens NOT included <b>DarkFighter 2.0 MP</b>	*Lens NOT included <b>3.0 MP</b>	*Lens NOT included <b>6.0 MP</b>
<b>Image Sensor</b>	1/2.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/3" progressive scan CMOS	1/1.8" progressive scan CMOS	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	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: 0.001 @ f/1.2 B/W: 0.0001 @ f/1.2	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
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent	Lens dependent
<b>Pan/Tilt/Rotation</b>	---	---	---	---	---	---
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/140 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/Digital
<b>IR Range (meters)</b>	---	---	---	---	---	---
<b>Video Compression</b>	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG
<b>Max. Image Resolution (pixels)</b>	1920 x 1080	1920 x 1080	2048 x 1536	1920 x 1080	2048 x 1536	3072 x 2048
<b>Frame Rate (fps)</b>	25 @ 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 720 20 @ 2048 x 1536	50 @ 1920 x 1080, 1280 x 960, 1280 x 720	50 @ 1920 x 1080, 1280 x 720 45 @ 2048 x 1536	24 @ 3072 x 2048 25 @ 2560 x 2048, 2560 x 1920, 2048 x 1536, 1920 x 1080, 1280 x 720
<b>Multi-Streaming</b>	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>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>
<b>Audio Input/Output</b>	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
<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.	MicroSD 128 GB max.	MicroSD 128 GB max.	MicroSD 128 GB max.
<b>Other features</b>	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR	3D DNR P-Iris (-P)
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	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 W	24 VAC, 12 VDC, PoE (802.3af), 9 W	24 VAC, 12 VDC, PoE (802.3af), 9 W

<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, Face Detection, Object Counting, Defog










## Network Camera - Smart Series

Network Camera - Smart Series						
	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 <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">2.0 MP</span>	 FULL HD <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">2.0 MP</span>	 FULL HD <b>LightFighter</b> <span style="border: 1px solid red; border-radius: 50%; padding: 2px;">2.0 MP</span>	 FULL HD <b>DarkFighter</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;">3.0 MP</span>
<b>Image Sensor</b>	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
<b>Min. Illumination (lux)</b>	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: 0.007 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	113° to 33.8°	113° to 33.8°	113° to 33.8°	92° to 32°	91.2° to 28.3°	94.5° to 30.5°
<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°	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°
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/120 dB	Yes/120 dB	Yes/Digital
<b>IR Range (meters)</b>	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30	Up to 30
<b>Video Compression</b>	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG
<b>Max. Image Resolution (pixels)</b>	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080	2048 x 1536	2048 x 1536
<b>Frame Rate (fps)</b>	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
<b>Multi-Streaming</b>	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>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>
<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	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	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.
<b>Other features</b>	IK10 Smart Focus	IK10 Smart Focus	IK10 Smart Focus	IK10 Smart Focus HDMI output (M)	IK10 Smart Focus HDMI output (M)	IK10 Smart Focus
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	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), 13.5 W	12 VDC, PoE (802.3af), 9.5 W	12 VDC, PoE (802.3af), 9 W

<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, Face Detection, Object Counting, Defog



**Network Camera - Smart Series**

<span style="margin-left: 10px;"><b>Outdoor Dome</b></span>									
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
									
	<b>1.3 MP</b>	<b>1.3 MP</b>	<b>1.3 MP</b>	<b>2.0 MP</b>	<b>3.0 MP</b>	<b>LightFighter 2.0 MP</b>	<b>LightFighter 2.0 MP</b>	<b>DarkFighter 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	1/2.8" 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
<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: 0.14 @ 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: 0.007 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	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°
<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°	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°
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/140 dB	Yes/140 dB	Yes/120 dB	Yes/Digital
<b>IR Range (meters)</b>	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
<b>Video Compression</b>	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/MJPEG
<b>Max. Image Resolution (pixels)</b>	1280 × 1024	1280 × 1024	1280 × 960	1920 × 1080	2048 × 1536	1920 × 1080	1920 × 1080	1920 × 1080	2048 × 1536
<b>Frame Rate (fps)</b>	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	45 @ 2048 × 1536, 50 @ 1920 × 1080, 1280 × 720
<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>	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>
<b>Audio Input/Output</b>	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
<b>Alarm Input/Output</b>	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<b>Local Storage</b>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
<b>Other features</b>	IP66	IP66, Smart heater	IP66	IP66	IP66	IP66/IK10 3D DNR	IP66/IK10 3D DNR	IP66/IK10 3D DNR	IP66/IK10 3D DNR
<b>Operating Conditions (max.)</b>	-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)	-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)	-40° C to 60° C, humidity 95% (non-condensing)
<b>Power Requirements (max.)</b>	24 VAC, PoE (802.3af), 12.5 W	24 VAC, PoE (802.3af), 12.5 W	24 VAC, PoE (802.3af), 12.5 W	24 VAC, PoE (802.3af), 12.5 W	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

<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, Face Detection, Object Counting, Defog

<sup>3</sup>Firmware v 5.3 and later

**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
								
	<b>1.3 MP</b>	<b>1.3 MP</b>	<b>2 MP</b>	<b>3.0 MP</b>	<i>* Junctionbox NOT included</i> <b>2.0 MP</b>	<b>LightFighter 2.0 MP</b>	<b>LightFighter 2.0 MP</b>	<b>DarkFighter 2.0 MP</b>
<b>Image Sensor</b>	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	1/2.8" progressive scan CMOS	1/1.8" progressive scan CMOS
<b>Min. Illumination (lux)</b>	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 lux 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
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	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°
<b>Pan/Tilt/Rotation</b>	3-Axis Positioning	3-Axis Positioning	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
<b>BLC/WDR</b>	Yes/Digital	Yes/120 dB	Yes/Digital	Yes/120 dB	Yes/Digital	Yes/140 dB	Yes/140 dB	Yes/120 dB
<b>IR Range (meters)</b>	Up to 30 meters	Up to 30	Up to 30	Up to 30	Up to 50	Up to 50	Up to 50	Up to 50
<b>Video Compression</b>	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MPEG4/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MPEG4/MJPEG
<b>Max. Image Resolution (pixels)</b>	1280 x 1024	1280 x 960	1920 x 1080	2048 x 1536	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
<b>Frame Rate (fps)</b>	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	50 @ 1920 x 1080, 1280 x 960, 1280 x 720
<b>Multi-Streaming</b>	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>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>	Full Smart Suite <sup>1</sup>
<b>Audio Input/Output</b>	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
<b>Alarm Input/Output</b>	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
<b>Local Storage</b>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
<b>Other features</b>	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
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	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), 12.5 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

<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, Face Detection, Object Counting, Defog  
<sup>3</sup>Firmware 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
<b>Model</b>	 1.3 MP	 1.3 MP	 1.3 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP	 FULL HD 2.0 MP
<b>Image Sensor</b>	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
<b>Min. Illumination (lux)</b>	Color : 0.02 lux@F1.4 B/W : 0.002 lux@F1.4	Color : 0.02 lux@F1.4 B/W : 0.002 lux@F1.4	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6
<b>Lens</b>	4.3 to 86mm	4.3 to 86mm	4.3 to 129mm	4.7 to 94mm	4.7 to 94mm	4.3 to 129mm
<b>Horizontal Angle of View</b>	54.1° to 3.2°	54.1° to 3.2°	57.4° to 2.8°	58.3° to 3.2°	58.3° to 3.2°	65.5° to 2.11°
<b>Optical Zoom</b>	20X	20X	30X	20X	20X	30X
<b>Pan Range</b>	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
<b>Tilt Range</b>	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)	-5° ~ 90°(Auto Flip)
<b>Pan &amp; Tilt Speed (Manual)</b>	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
<b>Pan &amp; Tilt Speed (Preset)</b>	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
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range (Meters)</b>	---	---	---	---	---	---
<b>Smart Features</b>	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog
<b>Presets/Tours/Patterns</b>	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4
<b>Video Compression</b>	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4
<b>Max. Image Resolution (pixels)</b>	1280 × 960	1280 × 960	1280 × 960	1920×1080	1920×1080	1920×1080
<b>Frame Rate (fps)</b>	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
<b>Local Storage</b>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
<b>Other features</b>	IP66	IP66	IP66	IP66	IP66	IP66
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	24 VAC, 40W	24 VAC, PoE+, 65 W	24 VAC, 40W	24 VAC, 40W	24 VAC, PoE+, 60 W	24 VAC, 40W










<sup>3</sup>Firmware 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
<b>Model</b>	 <b>1.3 MP</b>	 <b>1.3 MP</b>	 <b>FULL HD</b> <b>2.0 MP</b>	 <b>FULL HD</b> <b>2.0 MP</b>	 <b>FULL HD</b> <b>2.0 MP</b>
<b>Image Sensor</b>	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
<b>Min. Illumination (lux)</b>	Color : 0.02 lux@F1.4 B/W : 0.002 lux@F1.4	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6	Color : 0.02 lux@F1.6 B/W : 0.002 lux@F1.6
<b>Lens</b>	4.3 to 86mm	4.3 to 129mm	4.7 to 94mm	4.7 to 94mm	4.3 to 129mm
<b>Horizontal Angle of View</b>	58.3° to 3.2°	57.4° to 2.8°	58.3° to 3.2°	58.3° to 3.2°	65.5° to 2.11°
<b>Optical Zoom</b>	20X	30X	20X	20X	30X
<b>Pan Range</b>	360° endless	360° endless	360° endless	360° endless	360° endless
<b>Tilt Range</b>	-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)
<b>Pan &amp; Tilt Speed (Manual)</b>	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
<b>Pan &amp; Tilt Speed (Preset)</b>	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s	Pan: 240°/s Tilt: 200°/s
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital	Yes/Digital
<b>IR Range (Meters)</b>	up to 150m	up to 150m	up to 150m	up to 150m	up to 150m
<b>Smart Features</b>	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog	Tracking, Defog
<b>Presets/Tours/Patterns</b>	300/8/4	300/8/4	300/8/4	300/8/4	300/8/4
<b>Video Compression</b>	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4	H.264/MJPEG/MPEG4
<b>Max. Image Resolution (pixels)</b>	1280 × 960	1280 × 960	1920 × 1080	1920 × 1080	1920 × 1080
<b>Frame Rate (fps)</b>	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
<b>Local Storage</b>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>	MicroSD, 128 GB max. <sup>3</sup>
<b>Other features</b>	IP66	IP66	IP66	IP66	IP66
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	24 VAC, 50W	24 VAC, 50W	24 VAC, 50W	24 VAC, PoE+, 60 W	24 VAC, 50W

<sup>3</sup>Firmware v 5.3 and later

**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-AVPIR3	DS-2CE56D1T-AVPIR3	DS-2CE56D5T-AVPIR3	DS-2CE16D5T-IT3	DS-2CE56D5T-IT3	DS-2CE16D5T-AVFI3	DS-2CE56D5T-VFI3
<b>Image Sensor</b>									
<b>Video Out</b>	HD-TVI	HD-TVI	HD-TVI	HD-TVI	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HDTVI/CVBS (Dual)	HD-TVI/CVBS (Dual)	HD-TVI/CVBS (Dual)
<b>Image Sensor</b>	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
<b>Min. Illumination (lux)</b>	Color: 0.01 @ f/1.2 0 with IR	Color: 0.01 @ f/1.2 0 with IR	Color: 0.14 @ f/1.2 0 with IR	Color: 0.01 @ 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
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105.8° (2.8 mm), 84.3° (3.6 mm), 55.4° (6 mm)	105.2° to 32.8°	105.2° to 32.8°	103° to 32.1°	82.6° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.4° (12 mm)	82.6° (3.6 mm), 103.5° (2.8 mm), 54.3° (6 mm), 24.4° (12 mm)	103° to 32.1°	103° to 32.1°
<b>Pan/Tilt/Rotation</b>	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°
<b>Day/Night</b>	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/No	Yes/No	Yes/No	Yes/No	No/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB	Yes/120 dB
<b>IR Range (meters)</b>	20	20	40	40	Up to 40	40	40	50	50
<b>Max. Image Resolution (pixels)</b>	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
<b>Vertical Synchronization</b>	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
<b>OSD Menu via Up-the-Coax (UTC)</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Other features</b>	IP66	IP66	IP66	IP66/IK10	IP66/IK10	IP66	IP66	IP66	IP66
<b>Operating Conditions (max.)</b>	-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)	-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)
<b>Power Requirements (max.)</b>	12 VDC, 3 W	12 VDC, 3 W	12 VDC, 6W	12 VDC, 24 VAC, 4 W	12 VDC, 4 W 24 VAC, 5 W	12 VDC, 5 W	12 VDC, 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, 24 W (heater on), 18 W (heater off)	24 VAC, 30 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
<b>Image Sensor</b>	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS	1/3" PICADIS
<b>Min. Illumination (lux)</b>	Color: 0.1 @ f/1.2	Color: 0.1 @ f/1.2 B/W: 0 with IR	Color: 0.1 @ f/1.2 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR	Color: 0.1 @ f/1.2 B/W: 0 with IR	Color: 0.1 @ f/1.2 B/W: 0 with IR	Color: 0.14 @ f/1.4 B/W: 0 with IR
<b>Lens</b>	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
<b>Horizontal Angle of View</b>	71.4°	71.4°	71.4°	80° to 27.2°	71.4°	71.4°	80° to 27.2°
<b>Pan/Tilt/Rotation</b>	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°
<b>Day/Night</b>	Electronic	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
<b>BLC/WDR</b>	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
<b>IR Range (meters)</b>	No	20	40	40	20	40	30-40
<b>Max. Image Resolution</b>	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL	720TVL
<b>Vertical Synchronization</b>	Internal	Internal	Internal	Internal	Internal	Internal	Internal
<b>OSD Menu</b>	No	No	No	No	No	No	No
<b>Ratings</b>	---	IP66	IP66	IP66	IP66	IP66	IP66
<b>Operating Conditions (max.)</b>	-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)
<b>Power Requirements (max.)</b>	12 VDC, 1 W	12 VDC, 4.5 W	12 VDC, 5 W	12 VDC, 5 W	12 VDC, 4.5 W	12 VDC, 5 W	12 VDC, 5 W