

Cisco IP Camera Comparison



Cisco Video Surveillance IP Cameras

Improve safety and security with Cisco Video Surveillance IP Cameras, which offer efficient network use and high-quality video. Simplify large-scale camera deployments with medianet autoconfiguring and media-monitoring capabilities. Cisco IP cameras can begin transmitting video seconds after being connected.

Cisco can deliver the best IP camera for your needs, whether it's a high-definition or multi-mega pixel, box or dome, or stationary or pan-tilt-zoom (PTZ) model.

Table 1. Dome Cameras

Camera Characteristics	Cisco Video Surveillance 3421V IP Camera	Cisco Video Surveillance 3520 IP Camera	Cisco Video Surveillance 3530 IP Camera	Cisco Video Surveillance 6020 IP Camera	Cisco Video Surveillance 6030 IP Camera	Cisco Video Surveillance 7030 IP Camera
Product Part Number	CIVS-IPC-3421V	CIVS-IPC-3520	CIVS-IPC-3530	CIVS-IPC-6020	CIVS-IPC-6030	CIVS-IPC-7030
Profile						
Description	720p indoor vandal-resistant surface mount IP camera	720p indoor IP camera available with flush, surface, and vandal-resistant mounts	720p outdoor vandal-resistant IP camera	1080p indoor IP camera available with flush, surface, and vandal-resistant mounts	1080p outdoor vandal-resistant IP camera	5-megapixel outdoor vandal-resistant IP camera with integrated infrared illuminator
Image sensor	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/4" progressive scan CMOS	1/2.7" progressive scan CMOS	1/2.7" progressive scan CMOS	Aptina MT9P006 1/2.5" progressive scan CMOS sensor
Lens	f = 3.3–12 mm F 1.4 (wide) F 2.0 (tele) Fixed iris	f = 3–9 mm F 1.2 (wide) F 2.1 (tele) DC-iris	f = 3–9 mm F 1.2 (wide) F 2.1 (tele) DC-iris	f = 3–9 mm	f = 3–9 mm	f = 3.6–9 mm F 1.8 (wide) F 3.4 (tele) DC-iris
Field of view	61.34–24.13° horizontal 37.56–15.08° vertical 72.85–28.18° diagonal	66.09–25.03° horizontal 40.66–15.77° vertical 78.36–28.83° diagonal	66.09–25.03° horizontal 40.66–15.77° vertical 78.36–28.83° diagonal	37.5–103.7° horizontal 21.6–71.2° vertical 42.6–111.21° diagonal	37.5–103.7° horizontal 21.6–71.2° vertical 42.6–111.21° diagonal	35.45–88.90° horizontal 26.69–67.01° vertical 43.99–111.00° diagonal
Day and night	No	Automatic, manual, scheduled	Automatic, manual, scheduled	Automatic, manual, scheduled	Automatic, manual, scheduled	Automatic, manual, scheduled
Minimum illumination and light sensitivity	Color: 0.4 lux	Color: 0.4 lux B/W: 0.2 lux	Color: 0.4 lux B/W: 0.2 lux	Color: 0.5 lux B/W: 0.05 lux	Color: 0.5 lux B/W: 0.05 lux	Color: 0.1 lux B/W: 0 lux w/illuminator active
				B/W: F1.2 @ 0.2 lux	B/W: F1.2 @ 0.2 lux	B/W: F1.8 @ 0.001 lux, 50 IRE
Video compression	H.264	H.264	H.264	H.264	H.264	H.264
	Motion JPEG	Motion JPEG	Motion JPEG	Motion JPEG	Motion JPEG	Motion JPEG



Table 1. Dome Cameras (continued)

Camera Characteristics	Cisco Video Surveillance 3421V IP Camera	Cisco Video Surveillance 3520 IP Camera	Cisco Video Surveillance 3530 IP Camera	Cisco Video Surveillance 6020 IP Camera	Cisco Video Surveillance 6030 IP Camera	Cisco Video Surveillance 7030 IP Camera
Resolutions and frame rates (H.264)	1280 x 800 @30 fps 1280 x 720 @ 30 fps 1024 x 576 @ 30 fps 960 x 544 @ 30 fps 704 x 480 or 576 @ 30 or 25 fps (4CIF) 640 x 368 @ 30 fps 352 x 240 or 288 @ 30 or 25 fps (CIF)	1280 x 800 @30 fps 1280 x 720 @ 30 fps 1024 x 576 @ 30 fps 960 x 544 @ 30 fps 704 x 480 or 576 @ 30 or 25 fps (4CIF) 640 x 368 @ 30 fps 352 x 240 or 288 @ 30 or 25 fps (CIF)	1280 x 800 @30 fps 1280 x 720 @ 30 fps 1024 x 576 @ 30 fps 960 x 544 @ 30 fps 704 x 480 or 576 @ 30 or 25 fps (4CIF) 640 x 368 @ 30 fps 352 x 240 or 288 @ 30 or 25 fps (CIF)	1920 x 1080 @ 30 fps 1280 x 720 @ 30 fps 1024 x 576 @ 30 fps 960 x 544 @ 30 fps 704 x 480 or 576 @ 30 or 25 fps (4CIF) 640 x 368 @ 30 fps 352 x 240 or 288 @ 30 or 25 fps (CIF)	1920 x 1080 @ 30 fps 1280 x 720 @ 30 fps 1024 x 576 @ 30 fps 960 x 544 @ 30 fps 704 x 480 or 576 @ 30 or 25 fps (4CIF) 640 x 368 @ 30 fps 352 x 240 or 288 @ 30 or 25 fps (CIF)	H.264: 2560 x 1920 @ 10 fps, 1920 x 1080 @ 30 fps MPEG-4: 1920 x 1536 @ 10 fps, 1920 x 1080 @ 25 fps MJPEG: 2560 x 1920 @ 13 fps, 1920 x 1080 @ 30 fps
802.3af PoE	Class1	Class 3	Class 3	Class 3	Class 3	Class 3
External power	12V DC	12V DC 24V AC	12V DC 24V AC	12V DC 24V AC	12V DC 24V AC	24V AC
Power consumption (in watts)	2.28 DC 2.88 PoE	3.6 DC 5.1 AC 5.28 PoE	3.6 DC 5.1 AC 5.28 PoE	4.7 DC 6.3 AC 6.2 PoE	9.5 DC 13.1 AC 12.72 PoE	7.20 AC 7.53 PoE
Environmental certifications (dust, salt spray, corrosion)	IK10	Dependent on mounting option	IP66 IK10	Dependent on mounting option	IP66 IK10	IP66 IK10
Pan, tilt, zoom	N	N	N	N	N	N
Camera adjustment range	Pan: 350° Tilt: 72° Rotate: 350°	Pan: 350° Tilt: 80° Rotate: 350°	Pan: 350° Tilt: 80° Rotate: 350°	Pan: 350° Tilt: 80° Rotate: 350°	Pan: 350° Tilt: 80° Rotate: 350°	Pan: 350° Tilt: 72° Rotate: 350°
Remote, autofocus support	N	N	N	Y	Y	Remote autofocus Focus assistant: Click for 5 seconds to let lens go wide and do full-range scan for focusing
Motorized lens	N	N	N	Y	Y	Y
Digital I/O (audio I/O, alarms, RS-485)	Video out x 1 (3.5-mm miniature jack, on PCBA) NTSC/PAL switch x 1 (on PCBA) DI x 1 (on cable)	Audio in x 1 (3.5-mm miniature jack) A/V out x 1 (3.5-mm miniature jack) DI x 1 DO x 1	Audio in x 1 (3.5-mm miniature jack) A/V out x 1 (3.5-mm miniature jack) DI x 1 DO x 1	Audio in x 1 (3.5-mm miniature jack) A/V out x 1 (3.5-mm miniature jack) DI x 1 DO x 1	Audio in x 1 (3.5-mm miniature jack) A/V out x 1 (3.5-mm5 miniature jack) DI x 1 DO x 1	Audio in x 1 (3.5-mm miniature jack) A/V out x 1 (3.5-mm miniature jack) DI x 3 DO x 1
Local storage (SD or microSD)	MircoSD or SDHC	MircoSD or SDHC	MircoSD or SDHC	MircoSD or SDHC	MircoSD or SDHC	MircoSD or SDHC
Operating temperature	32-122°F (0-50°C)	32-122°F (0-50°C)	-22-122°F (-30-50°C)	14-122°F (-10-50°C)	-40-131°F (-40-55°C)	-4-122°F (-20-50°C)
Cold-start temperature	0°C	0°C	-20°C	0	-40°C	-20°C



Table 2. Box/Fixed Cameras

Camera Characteristics	CIVS-IPC-4500E	CIVS-IPC-6000P	CIVS-IPC-6400
Profile			
Description	1080p Box camera with DSP - Edge Analytics options available	1080p P-Iris Box Camera	1080p Outdoor Bullet Camera with integrated IR Illuminator
Image sensor	1/3" progressive scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Lens	2.8-12/3-8/5-50/15-50 mm (Varifocal)	3 - 8 mm P-Iris Lens	3 - 9 mm
Field of View	Dependent on lens selection	Dependent on lens selection	37.5° ~ 95.98° (horizontal) 21.6° ~ 53.80° (vertical) 42.6° ~ 109.46° (diagonal)
Day and Night	Automatic/manual/scheduled	Automatic/manual/scheduled	Automatic/manual/scheduled
Minimum Illumination/Light Sensitivity	Color mode: F1.4 @ 0.4 lux	• Color: 0.3 lux • B/W: 0.05 lux	• Color: 0.5 lux • B/W: 0 lux w/illuminator active
	Black and white mode: F1.4 @ 0.2 lux	Black and white mode: F1.2 @ 0.2 lux	Black and white mode: F1.2 @ 0.2 lux
Video Compression	H.264	H.264	H.264
	Motion JPEG	Motion JPEG	Motion JPEG
Resolutions and frame rates (H.264)	• 1920 x 1080 @ 30 fps (1080p) • 1280 x 720 @ 60 fps (720p)* • 720 x 480/576 @ 30/25 fps (D1) • 704 x 480/576 @ 30/25 fps (4CIF) • 352 x 240/288 @ 30/25 fps (CIF)	• 1920 x 1080 @ 30 fps (1080p) • 1280 x 720 @ 30 fps (720p) • 1024 x 576 @ 30 fps • 960 x 544 @ 30 fps • 704 x 480 or 576 @ 30 or 25 fps (4CIF) • 640 x 368 @ 30 fps • 352 x 240 or 288 @ 30 or 25 fps (CIF)	• 1920 x 1080 @ 30 fps (1080p) • 1280 x 720 @ 30 fps (720p) • 1024 x 576 @ 30 fps • 960 x 544 @ 30 fps • 704 x 480 or 576 @ 30 or 25 fps (4CIF) • 640 x 368 @ 30 fps • 352 x 240 or 288 @ 30 or 25 fps (CIF)
PoE	802.3af compliant (Class 3)	802.3af compliant (Class 3)	802.3af compliant (Class 3)
External Power - D.C/A.C	12V DC 24V AC	12V DC 24V AC	12V DC 24V AC
Power Consumption (W) DC/AC/PoE	11.5 (max)	4.7/6.3/6.1	9.6/12.5/12.2
Env Certification (IP6x - Salt Spray/corrosion, IK10)	Dependent on mounting option	Dependent on mounting option	IP66
PTZ	N	N	N
Camera Adjustment Angle	N/A	N/A	N/A
Remote, Auto Focus support	N	N	Y
Motorized Lens	N	N	Y
Digital I/O (Audio I/O, Alarms, RS-485)	• 1, 3.5-mm input/output jack for optional external speaker and optional external line-in via Y-cable • Built-in microphone • Two-way (full-duplex)	Audio in x 1 Audio out x 1 Analog video out x 1 DI x 1 DO x 1	Audio in x 1 (Ø3.5 miniature jack) A/V out x 1 (Ø3.5 miniature jack) DI x 1 DO x 1
Local storage (S.D or Micro SD)	USB	SD/SDHC	SD/SDHC
Operating Temp	32 to 122°F (0 to 50°C) Note: The temperature range can be extended if you use an outdoor enclosure.	14 to 122°F (-10 to 50°C) Note: The temperature range can be extended if you use an outdoor enclosure.	-4 to 122 °F (-20 to 50 °C)
Cold Start Temp		0	-20°C

**Table 3.** Pan-Tilt-Zoom Cameras

Camera Characteristics	CIVS-IPC-2830	CIVS-IPC-2835	CIVS-IPC-6930
Profile			
Description	Standard Definition, Outdoor PTZ (NTSC)	Standard Definition, Outdoor PTZ (PAL)	1080p Outdoor PTZ
Image sensor	1/4" SONY EXmor CCD Sensor, EX12E (NTSC)	1/4" SONY EXmor CCD Sensor, EX12E (PAL)	1/2.8" SONY EXmor CMOS Sensor, EH6300
Lens	f=3.7-44.4 mm	f=3.7-44.4 mm	f=4.7-94.0 mm F 1.6 (wide) F 3.5 (tele)
Field of View	H: 56.3 (W) ~ 4.6 (T)°	H: 56.3 (W) ~ 4.6 (T)°	H: 55.4 (W) ~ 2.9 (T)°
Day and Night	Automatic/manual control and schedule mode	Automatic/manual control and schedule mode	Automatic/manual control and schedule mode
Minimum Illumination/Light Sensitivity	Color: 0.9 lux @1/60 sec (NTSC), 1/50 sec (PAL) (F1.4, 50IRE) 0.05 lux @1/4 sec (NTSC), 1/3 sec (PAL) B/W: 0.01 lux @ 1/4 sec (NTSC), 1/3 sec (PAL)	Color: 0.9 lux @1/60 sec (NTSC), 1/50 sec (PAL) (F1.4, 50IRE) 0.05 lux @1/4 sec (NTSC), 1/3 sec (PAL) B/W: 0.01 lux @ 1/4 sec (NTSC), 1/3 sec (PAL)	• Color: 0.05 lux • B/W: 0.05 lux
Video Compression	H.264	H.264	H.264
	Motion JPEG	Motion JPEG	Motion JPEG
Resolutions and frame rates (H.264)	30 fps at D1	30 fps at D1	30 fps at 1920x1080
PoE	PoE+ High PoE	PoE+ High PoE	PoE+ High PoE
External Power - D.C/A.C	24V AC	24V AC	24V AC
Power Consumption (W) DC/AC/PoE	AC: 28W PoE+: 18W High PoE: 28W	AC: 28W PoE+: 18W High PoE: 28W	AC: 30W PoE+: 20W High PoE: 30W
Env Certification (IP6x - Salt Spray/corrosion, IK10)	IP66	IP66	IP66
PTZ	Y	Y	Y
	Pan speed: 0.05° ~ 450°/sec Tilt speed: 0.05° ~ 450°/sec	Pan speed: 0.05° ~ 450°/sec Tilt speed: 0.05° ~ 450°/sec	Pan speed: 0.05° ~ 450°/sec Tilt speed: 0.05° ~ 450°/sec
Camera Adjustment Angle	Pan: Continuous 360° Tilt: 220° Zoom: 12x Optical	Pan: Continuous 360° Tilt: 220° Zoom: 12x Optical	Pan: Continuous 360° Tilt: 220° Zoom: 20x Optical
Remote, Auto Focus support	Auto focus	Auto focus	Auto focus
Motorized Lens	Y	Y	Y
Digital I/O (Audio I/O, Alarms, RS-485)	Audio in x 1 Audio out x 1 DI x 4 DO x 2	Audio in x 1 Audio out x 1 DI x 4 DO x 2	Audio in x 1 Audio out x 1 DI x 4 DO x 2
Local storage (S.D or Micro SD)	SD/SDHC	SD/SDHC	SD/SDHC
Operating Temp	AC24V: -40 ~ 55 °C PoE+: -5 ~ 55 °C High PoE: -40 ~ 55 °C	AC24V: -40 ~ 55 °C PoE+: -5 ~ 55 °C High PoE: -40 ~ 55 °C	AC24V: -40 ~ 55 °C PoE+: -5 ~ 55 °C High PoE: -40 ~ 55 °C
Cold Start Temp	AC24V: -40°C PoE+: -5°C High PoE: -40°C	AC24V: -40°C PoE+: -5°C High PoE: -40°C	AC24V: -40°C PoE+: -5°C High PoE: -40°C