

Box Cameras



	4-Megapixel (Full HD 1080p)			2-Megapixel (Full HD 1080p)	
Model Name	KCM-5111	KCM-5211	KCM-5211E	KCM-5311	KCM-5311E
Application Environment	Indoor	Indoor	Outdoor	Indoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	1/3.2" BSI Progressive Scan CMOS	1/3.2" BSI Progressive Scan CMOS	1/3.2" BSI Progressive Scan CMOS	1/4" Progressive Scan CMOS	1/4" Progressive Scan CMOS
Zoom Ratio	No	18x optical	18x optical	35x optical	35x optical
Lens	Bundled Fixed focal lens, f2.8 mm / F2.0; Fixed iris; Compatible P-Iris lenses available	Zoom, f4.7 - 84.6 mm / F1.6 - 2.8; DC Iris	Zoom, f4.7 - 84.6 mm / F1.6 - 2.8; DC Iris	Zoom, f3.5 - 122.5 mm / F1.65 - F4.5; DC Iris	Zoom, f3.5 - 122.5 mm / F1.65 - F4.5; DC Iris
Horizontal Viewing Angle	82.59°	48.94° - 3.61°	48.94° - 3.61°	45.35° - 1.6°	45.35° - 1.6°
Lens Mount	CS Mount (interchangeable lens)	Board Mount	Board Mount	Board Mount	Board Mount
Day / Night	Yes	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes
IR LED	No	No	Yes	No	Yes
Minimum Illumination	Color: 0.1 lux at F2.0 B/W : 0.05 lux at F2.0	Color: 0.1 lux at F1.6 B/W : 0.05 lux at F1.6	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)	Color: 0.1 lux at F1.65 B/W : 0.05 lux at F1.65	Color: 0.1 lux at F1.65 B/W : 0 lux (IR LED on)
Maximum Frame Rate at Maximum Resolution	8 fps at 2032 x 1920	8 fps at 2032 x 1920	8 fps at 2032 x 1920	15 fps at 1920 x 1080 (HD 1080p)	15 fps at 1920 x 1080 (HD 1080p)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations
Audio	2-way	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.**	TCP, UDP, HTTP, RTP, DDNS, etc.**	TCP, UDP, HTTP, RTP, DDNS, etc.**	TCP, UDP, HTTP, RTP, DDNS, etc.**
Digital Input / Output	2/2	2/2	2/2	2/2	2/2
Local Storage	MicroSD/SDHC memory card slot (card not included)	MicroSD/SDHC memory card slot (card not included)	MicroSD/SDHC memory card slot (card not included)	MicroSD/SDHC memory card slot (card not included)	MicroSD/SDHC memory card slot (card not included)
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	N/A	N/A	Weatherproof (IP66 rated)	N/A	Weatherproof (IP66 rated)
Operating Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	-20°C ~ 50°C (-4°F ~ 122°F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	-20°C ~ 50°C (-4°F ~ 122°F)
Approvals	CE, FCC	CE, FCC	CE, FCC, IP66	CE, FCC	CE, FCC, IP66

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPV6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPV6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D

Box Cameras



	1.3-Megapixel (HD 720p)			VGA
Model Name	TCM-5311	TCM-5601/ TCM-5611	ACM-5601/ ACM-5611	ACM-5001
Application Environment	Indoor / Outdoor*	Indoor / Outdoor*	Indoor / Outdoor*	Indoor / Outdoor*
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Image Sensor	1/3" Sony EXview HAD Progressive Scan CCD	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS
Lens	Compatible DC iris lenses available	Bundled Fixed focal lens, f4.2 mm / F1.8; Fixed iris; Compatible DC iris / manual iris lenses available	Bundled Fixed focal lens, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available	Bundled Fixed focal lens, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available
Horizontal Viewing Angle	Based on lens specification	64.4°	64.4°	64.4°
Lens Mount	C/CS mount (interchangeable lens)	C/CS mount (interchangeable lens)	C/CS mount (interchangeable lens)	C/CS mount (interchangeable lens)
Day / Night	Yes	TCM-5601: No TCM-5611: Yes	ACM-5601: No ACM-5611: Yes	No
Mechanical IR Cut Filter	Yes	TCM-5601: No TCM-5611: Yes	ACM-5601: No ACM-5611: Yes	No
Minimum Illumination	Color: 0.15 lux at F1.2 B/W : 0.05 lux at F1.2	<ul style="list-style-type: none"> • TCM-5601 Color: 0.5 lux F1.0 B/W : 0.5 lux F1.0 • TCM-5611 Color: 0.5 lux F1.0 B/W : 0.05 lux F1.0 	<ul style="list-style-type: none"> • ACM-5601 Color: 0.5 lux F1.0 B/W : 0.5 lux F1.0 • ACM-5611 Color: 0.5 lux F1.0 B/W : 0.05 lux F1.0 	Color: 0.5 lux at F1.0 B/W : 0.5 lux at F1.0
Wide Dynamic Range	No	Yes	No	No
Maximum Frame Rate at Maximum Resolution	15 fps at 1280 x 960	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)	30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Multiple streams based on single configuration
Audio	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.**	TCP, UDP, HTTP, RTP, DDNS, etc.**	TCP, UDP, HTTP, RTP, DDNS, etc.**	TCP, UDP, HTTP, RTP, DDNS, etc.**
Digital Input / Output	1/1	1/1	1/1	1/1
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	Optional housing (IP66 rated)	Optional housing (IP66 rated)	Optional housing (IP66 rated)	Optional housing (IP66 rated)
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC

* Outdoor application requires weatherproof housing

** Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

Bullet Cameras



	1.3-Megapixel (HD 720p)				D1
Model Name	TCM-1231	ACM-1231	TCM-1511	ACM-1511	ACM-1431
Application Environment	Outdoor	Outdoor	Indoor	Indoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Image Sensor	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Sony Super HAD Interlaced Scan CCD
Lens	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3.8 - 9.5 mm / F1.2; DC iris
Horizontal Viewing Angle	76.5° - 21.7°	85.9° - 23.1°	77.6° - 22.7°	78.5° - 22.6°	73.4° - 29.7°
Day / Night	Yes	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes
IR LED	Yes	Yes	Yes	Yes	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.15lux at F1.2 B/W : 0 lux (IR LED on)
Wide Dynamic Range	Yes	No	Yes	No	No
Maximum Frame Rate at Maximum Resolution	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Multiple streams based on single configuration
Audio	2-way	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Output	No	No	No	No	Yes
Digital Input / Output	1/1	No	1/1	No	No
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)	N/A	N/A	Weatherproof (IP66 rated)
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	-20 °C ~ 40 °C (-4 °F ~ 104 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC	CE, FCC	CE, FCC, IP66

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

Cube Cameras



	1.3-Megapixel (HD 720p)		VGA
Model Name	TCM-4201	ACM-4201	ACM-4001
Application Environment	Indoor	Indoor	Indoor
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Image Sensor	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS
Lens	Bundled Fixed focal lens, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available	Bundled Fixed focal lens, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available	Bundled Fixed focal lens, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available
Horizontal Viewing Angle	64.1°	64.1°	64.1°
Lens Mount	CS mount (interchangeable lens)	CS mount (interchangeable lens)	CS mount (interchangeable lens)
Day / Night	No	No	No
Mechanical IR Cut Filter	No	No	No
IR LED	No	No	No
Minimum Illumination	Color: 0.5 lux at F1.0 B/W: 0.5 lux at F1.0	Color: 0.5 lux at F1.0 B/W: 0.5 lux at F1.0	Color: 0.5 lux at F1.0 B/W: 0.5 lux at F1.0
Wide Dynamic Range	No	No	No
Maximum Frame Rate at Maximum Resolution	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)	30 fps at 640 x 480 (VGA)
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Multiple streams based on single configuration
Audio	2-way, built-in microphone	2-way, built-in microphone	2-way, built-in microphone
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input / Output	Yes	Yes	Yes
Passive IR Sensor	Yes	Yes	Yes
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Bundled Accessories	Bracket	Bracket	Bracket
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Approvals	CE, FCC	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

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SEG-110214-000

Fixed Dome Cameras



3.6x



	4-Megapixel (Full HD 1080p)		1.3-Megapixel (HD 720p)	
Model Name	KCM-7111	KCM-7211	TCM-3401/TCM-3411	ACM-3401/ACM-3411
Application Environment	Outdoor	Outdoor	Indoor	Indoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Image Sensor	1/3.2" BSI Progressive Scan CMOS	1/3.2" BSI Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS
Zoom Ratio	No	3.6x optical	No	No
Lens	Fixed focal, f2.8 mm / F2.0; Fixed iris	Zoom, f3.3 - 12 mm / F1.4 - 2.9; P-Iris	Fixed focal, f4.2 mm / F1.8; Fixed iris	Fixed focal, f4.2 mm / F1.8; Fixed iris
Horizontal Viewing Angle	82.59°	77.22° - 22.62°	64.7°	63.7°
Viewing Angle Adjustment	Pan : 0° - 360° Tilt : 0° - 180° Rotate: 0° - 360°	Pan : 0° - 360° Tilt : 0° - 180° Rotate: 0° - 360°	Pan: 0° - 170° Tilt : 0° - 180°	Pan: 0° - 170° Tilt : 0° - 180°
Lens Mount	CS Mount	Board Mount	TCM-3401: Board mount (interchangeable lens) TCM-3411: Board mount	ACM-3401: Board mount (interchangeable lens) ACM-3411: Board mount
Day / Night	Yes	Yes	TCM-3401: No TCM-3411: Yes	ACM-3401: No ACM-3411: Yes
Mechanical IR Cut Filter	Yes	Yes	TCM-3401: No TCM-3411: Yes	ACM-3401: No ACM-3411: Yes
IR LED	No	No	No	No
Minimum Illumination	Color: 0.1 lux at F2.0 B/W : 0.05 lux at F2.0	Color: 0.1 lux at F1.4 B/W : 0.05 lux at F1.4	• TCM-3401 Color: 0.5 lux at F1.0 B/W : 0.5 lux at F1.0 • TCM-3411 Color: 0.5 lux at F1.0 B/W : 0.05 lux at F1.0	• ACM-3401 Color: 0.5 lux at F1.0 B/W : 0.5 lux at F1.0 • ACM-3411 Color: 0.5 lux at F1.0 B/W : 0.05 lux at F1.0
Wide Dynamic Range	No	No	Yes	No
Maximum Frame Rate at Maximum Resolution	8 fps at 2032 x 1920	8 fps at 2032 x 1920	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration
Audio	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input / Output	2/2	2/2	1/1	1/1
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	Weatherproof (IP66 rated); Vandal proof	Weatherproof (IP66 rated); Vandal proof	N/A	N/A
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

Fixed Dome Cameras



1.3-Megapixel (HD 720p)

Model Name	TCM-3511	ACM-3511	ACM-3701
Application Environment	Indoor	Indoor	Indoor / Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Image Sensor	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS
Lens	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Fixed focal, f3.6 mm / F1.8; Fixed iris
Horizontal Viewing Angle	78.1° - 23.1°	75.4° - 22.7°	72.3°
Viewing Angle Adjustment	Pan: 0° - 330° Tilt: 30° - 90°	Pan: 0° - 330° Tilt: 30° - 90°	Pan: ± 20° Tilt: 0° - 90° Rotate: ± 15°
Lens Mount	Board mount	Board mount	Board mount (interchangeable lens)
Day / Night	Yes	Yes	No
Mechanical IR Cut Filter	Yes	Yes	No
IR LED	Yes	Yes	No
Minimum Illumination	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W : 0.5 lux at F1.0
Wide Dynamic Range	Yes	No	No
Maximum Frame Rate at Maximum Resolution	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Multiple streams based on single configuration
Audio	2-way	2-way	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input / Output	1/1	1/1	No
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	Rugged RJ-45 PoE Class 3
Environmental Casing	N/A	N/A	Weatherproof (IP66 rated) ; Vandal proof
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Approvals	CE, FCC	CE, FCC	CE, FCC, EN60950-1, EN55025, IP66, EN50155, ISO16750-3: Vibration

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** Flush mount is identical to in-ceiling mount

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Fixed Dome Cameras



	1.3-Megapixel (HD 720p)		
Model Name	TCM-7411	ACM-7411	TCM-7811
Application Environment	Outdoor	Outdoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Sony EXview HAD Progressive Scan CCD
Lens	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Vari-focal, f3 - 9 mm / F1.2; DC iris
Horizontal Viewing Angle	78.4° - 23.1°	83° - 23.8°	85.8° - 30.3°
Viewing Angle Adjustment	Pan: 0° - 360° Tilt: 0° - 180° Rotate: 0° - 360°	Pan: 0° - 360° Tilt: 0° - 180° Rotate: 0° - 360°	Pan: 0° - 360° Tilt: 10° - 90° Rotate: 0° - 360°
Day / Night	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes
IR LED	No	No	Yes
Minimum Illumination	Color: 0.5 lux at F1.0 B/W : 0.05 lux at F1.0	Color: 0.5 lux at F1.0 B/W : 0.05 lux at F1.0	Color: 0.15 lux at F1.2 B/W : 0 lux (IR LED on)
Wide Dynamic Range	Yes	No	No
Maximum Frame Rate at Maximum Resolution	18 fps at 1280 x 1024 (SXGA)	8 fps at 1280 x 1024 (SXGA)	15 fps at 1280 x 960
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations
Audio	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input / Output	1/1	1/1	1/1
Local Storage	No	No	MicroSD/SDHC memory card slot (card not included)
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**
Operating Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F) with DC 12V -5 °C ~ 50 °C (23 °F ~ 122 °F) with PoE	-30 °C ~ 50 °C (-22 °F ~ 122 °F) with DC 12V -5 °C ~ 50 °C (23 °F ~ 122 °F) with PoE	-30 °C ~ 50 °C (-22 °F ~ 122 °F) with DC 12V -5 °C ~ 50 °C (23 °F ~ 122 °F) with PoE
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCM series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
 ** Flush mount is identical to in-ceiling mount

Fixed Dome Cameras



VGA			
Model Name	ACM-3001	ACM-3011	ACM-3601
Application Environment	Indoor	Indoor	Indoor / Outdoor
Compression	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Image Sensor	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS	1/3" Aptina Progressive Scan CMOS
Lens	Fixed focal, f4.2 mm / F1.8; Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6; Fixed iris	Fixed focal, f3.6 mm / F1.8; Fixed iris
Horizontal Viewing Angle	63.7°	75.4° - 22.7°	72.3°
Viewing Angle Adjustment	Pan: 0° - 170° Tilt: 0° - 180°	Pan: 0° - 330° Tilt: 30° - 90°	Pan: ± 20° Tilt: 0° - 90° Rotate: ± 15°
Lens Mount	Board mount (interchangeable lens)	Board mount	Board mount (interchangeable lens)
Day / Night	No	Yes	No
Mechanical IR Cut Filter	No	Yes	No
IR LED	No	Yes	No
Minimum Illumination	Color: 0.5 lux at F1.0 B/W : 0.5 lux at F1.0	Color: 0.5 lux at F1.0 B/W : 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W : 0.5 lux at F1.0
Wide Dynamic Range	No	No	No
Maximum Frame Rate at Maximum Resolution	30 fps at 640 x 480 (VGA)	30 fps at 640 x 480 (VGA)	30 fps at 640 x 480 (VGA)
Multi-Streaming	Multiple streams based on single configuration	Multiple streams based on single configuration	Multiple streams based on single configuration
Audio	2-way	2-way	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input / Output	1/1	1/1	No
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	Rugged RJ-45 PoE Class 3
Environmental Casing	N/A	N/A	Weatherproof (IP66 rated) ; Vandal proof
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Approvals	CE, FCC	CE, FCC	CE, FCC, EN60950-1, EN55025, IP66, EN50155, ISO16750-3: Vibration

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP,

** Flush mount is identical to in-ceiling

Speed Dome Cameras



	D1	
Model Name	TCM-6610/TCM-6630	CAM-6610/CAM-6630
Application Environment	Outdoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 ASP
Image Sensor	TCM-6610: 1/4" Sony EXview HAD Interlaced Scan CCD TCM-6630: 1/4" Hitachi Progressive Scan CCD	CAM-6610: 1/4" Sony EXview HAD Interlaced Scan CCD CAM-6630: 1/4" Hitachi Progressive Scan CCD
Zoom Ratio	TCM-6610: 18x optical; 12x digital TCM-6630: 35x optical; 12x digital	CAM-6610: 18x optical; 12x digital CAM-6630: 35x optical; 12x digital
Lens	TCM-6610: f4.1-73.8 mm / F1.4 - 3.0; Auto iris TCM-6630: f3.4-119 mm / F1.4 - 4.2; Auto iris	CAM-6610: f4.1-73.8 mm / F1.4 - 3.0; Auto iris CAM-6630: f3.4-119 mm / F1.4 - 4.2; Auto iris
Horizontal Viewing Angle	TCM-6610: 48° - 2.8° TCM-6630: 55.8° - 1.7°	CAM-6610: 48° - 2.8° CAM-6630: 55.8° - 1.7°
Panning Range	0° ~ 360° endless	0° ~ 360° endless
Tilting Range	-10° ~ 100°	-10° ~ 100°
Day / Night	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes
IR LED	No	No
Minimum Illumination	<ul style="list-style-type: none"> • TCM-6610 Color: 0.1 lux at F1.4 B/W : 0.01 lux at F1.4 • TCM-6630 Color: 0.1 lux at F1.4 B/W : 0.01 lux at F1.4 	<ul style="list-style-type: none"> • CAM-6610 Color: 0.1 lux at F1.4 B/W : 0.01 lux at F1.4 • CAM-6630 Color: 0.1 lux at F1.4 B/W : 0.01 lux at F1.4
Wide Dynamic Range	TCM-6610: No TCM-6630: Yes	CAM-6610: No CAM-6630: Yes
PTZ Control	Manual; 256 preset points; 8 preset tours; auto scan	Manual; 256 preset points; 8 preset tours; auto scan
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration
Audio	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Output	Yes	Yes
Digital Input / Output	8/1**	8/1**
Power Source	AC 24V	AC 24V
Environmental Casing	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)
Mount Type	Pendant, Wall, Corner, Pole	Pendant, Wall, Corner, Pole
Operating Temperature	-45 °C ~ 50 °C (-49 °F ~ 122 °F)	-45 °C ~ 50 °C (-49 °F ~ 122 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66

* Full list of supported protocols include: TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, HTTPS, UPnP

** 8 alarm inputs and 1 alarm output support local event function. 2 alarm inputs support remote event function

Standalone Network Video Recorders



Standalone Network Video Recorders

Model Name		XNR-4200	GNR-2000
Video	Maximum Number of Cameras	64	16
	Maximum Number of Clients	Unlimited	Unlimited
	Video Resolution	Up to 4-Megapixel	Up to 4-Megapixel
	Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Recording	Recording Frame Rate	Max 1920 fps total; Max 30 fps per camera	Max 480 fps total; Max 30 fps per camera
	HDD Interface	Maximum 6 SATA disks (disks not included)	Maximum 5 SATA disks (disks not included)
	RAID Level	RAID 0, 1, 5, 10	RAID 0, 1, 5, 10
Live View	Display Layout Mode	1, 2, 4, 5, 6, 8, 9, 10, 16, 25, 32, 36, 49, 64	1, 2, 4, 5, 6, 8, 9, 10, 16, 25, 32, 36, 49, 64
	Event Panel	Alarm, connection and storage related events	Alarm, connection and storage related events
	Two-way audio	Audio sound from and to all the audio supported devices	Audio sound from and to all the audio supported devices
PTZ	Control	Pan, tilt and zoom controls; speed control	Pan, tilt and zoom controls; speed control
Playback	Playback Control	Forward and backward playback with speeds 1x-500x; pause; stop	Forward and backward playback with speeds 1x-500x; pause; stop
	Synchronized Playback	4 channels	4 channels
	Video Export	Export video clips in AVI format; text overlay supported	Export video clips in AVI format; text overlay supported
Remote Access	PC Web Browser	Microsoft Internet Explorer 7.0 or 8.0 with live view, PTZ, playback, setup	Microsoft Internet Explorer 7.0 or 8.0 with live view, PTZ, playback, setup
Event Management	Event Trigger	Video motion detection; Digital input; Video or Network loss/recovery	Video motion detection; Digital input; Video or Network loss/recovery
	Event Response	Record video; Alert beep; Digital output; Snapshot to FTP; E-mail with snapshots; Notify CMS; Event logging	Record video; Alert beep; Digital output; Snapshot to FTP; E-mail with snapshots; Notify CMS; Event logging
System	Operating System	Embedded Linux	Embedded Linux
	Data Backup	By external DVD drive (optional)	By external DVD drive (optional)
	Language	Multi-language support	Multi-language support
Hardware*	Dimensions (W x H x D)	482.6 mm x 88 mm x 545 mm (19" x 3.46" x 21.4"); Rack-mountable (2U)	300 mm x 200 mm x 205 mm (11.81" x 7.87" x 8.07")
	Weight	11.2 Kg (24.64 lb) without HDD	3.88 Kg (8.55 lb) without HDD
	Operating Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)	0 °C ~ 40 °C (32 °F ~ 104 °F)
	Operating Humidity	10% ~ 85% RH	10% ~ 85% RH
	Power Source / Consumption	110V ~ 220V AC (50/60Hz) / 350 W	110V ~ 220V AC (50/60Hz) / 350 W
	Approvals	CE, FCC (Part 15B Class A), LVD	CE, FCC (Part 15B Class A), LVD
	USB	USB 2.0, 6 ports	USB 2.0, 4 ports
Integration	Ethernet Port	2, Ethernet (1000 Base-T), RJ-45 connector	2, Ethernet (1000 Base-T), RJ-45 connector
	Camera Integration	Open platform	Open platform

* XNR-4200 & GNR-2000 will support local display, keyboard, mouse and audio from Q3 2011.

* All specifications are subject to change without notice.

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Video Encoders



Model Name	1 Channel			4 Channel	
	TCD-2100	ACD-2100	TCD-2500	ACD-2000Q	ACD-2200
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	<ul style="list-style-type: none"> Quad mode / Sequential mode: 30 fps at 720 x 480 (D1 NTSC) 25 fps at 720 x 576 (D1 PAL) Single mode: 7 fps at 720 x 480 (D1 NTSC) 7 fps at 720 x 576 (D1 PAL) 	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Multiple streams based on single configuration (per channel)
Wide Dynamic Range	No	No	Yes	No	No
Audio	No	2-way	2-way	2-way	2-way (per channel)
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Input	BNC x 1	BNC x 1	BNC x 1	BNC x 4	BNC x 4
Analog Video Output	No	BNC x 1	BNC x 1	No	No
Digital Input / Output	1/1	2/2	2/2	2/2	2/2 (per channel)
Serial Port	RS-485/422/232	RS-485/422/232	RS-485/422/232	RS-485/422/232	RS-485/422/232** (per channel)
Power Source	DC 12V	DC 12V	DC 12V	DC 12V	DC 12V
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)
Extended Temperature -30° C ~ 70° C (-22 °F ~ 158 °F)	No	Yes (ACD-2100T)	No	Yes (ACD-2000QT)	No
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6 (TCD series), DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
 ** RS-232 can be adjusted by inside jumper

Video Encoders



	8 Channel	16 Channel
Model Name	ACD-2300	ACD-2400
Compression	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Multi-Streaming	Multiple streams based on single configuration (per channel)	Multiple streams based on single configuration (per channel)
Wide Dynamic Range	No	No
Audio	2-way (per channel)	2-way (per channel)
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Input	BNC x 8	BNC x 16
Analog Video Output	No	No
Digital Input / Output	2/2 (per channel)	2/2 (per channel)
Serial Port	RS-485/422/232** (per channel)	RS-485/422/232** (per channel)
Power Source	AC 100 - 240V	AC 100 - 240V
Operating Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)	0 °C ~ 50 °C (32 °F ~ 122 °F)
Approvals	CE, FCC	CE, FCC

* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

** RS-232 can be adjusted by inside jumper

Video Decoder

	1 Channel
Model Name	ACD-3100
Decompression	MPEG-4 SP, MPEG-4 ASP
Number of Channels	1
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Audio	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Output	BNC x 1; S-Video x 1
Digital Input / Output	2/2
Serial Port	RS-485/422/232
Power Source	DC 12V
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)
Approvals	CE, FCC



* Full list of supported protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour

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