

IP PTZ Cameras



	PTz ACM-8201/ACM-8211	PTz ACM-8511
Application Environment	Indoor/Outdoor* (ACM-8201) Indoor (ACM-8211)	Indoor/Outdoor*
Image Sensor	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/4" CCD Image Sensor
Zoom	N/A	10x optical, 10x digital
Day/Night	N/A (ACM-8201) Yes (ACM-8211)	Yes
Mechanical IR Cut Filter	N/A (ACM-8201) Yes (ACM-8211)	N/A
IR LED	N/A (ACM-8201) Yes (ACM-8211)	N/A
Lens	Fixed lens, 14.2 mm/F1.8, Fixed iris	Zoom lens, 14.2-42 mm / F1.8-2.9, Auto iris
Min. Illumination	0.5 Lux at F1.0 (ACM-8201) 0.05 Lux at F1.0 (ACM-8211)	0.07 Lux at F1.8
Compression	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	SXGA (1280 x 1024) at 8 fps	720 x 480 at 30fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS(NTSC/PAL)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	30/25 fps at all resolution
PTZ Control	Yes, 32 presets Preset Tours, Auto Scan	Yes, 32 presets Preset Tours, Auto Scan
Panning Range	0° - 350°	0° - 354°
Panning Speed	10° - 120° / sec	10° - 70° / sec
Tilting Range	-30° - 90°	-25° - 90°
Tilting Speed	15° - 70° / sec	10° - 70° / sec
Audio	2-way	2-way
Alarm Input/Output	1/1	1/1
Motion Detection	Yes (hardware)	Yes (hardware)
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Environmental Casing	Optional	Optional
Mounting Options	Surface/Pendant/Wall/Corner/Pole/Flush*** (ACM-8201) Surface/Pendant/Wall/Corner/Pole (ACM-8211)	Surface/Pendant/Wall/Corner/Pole/Flush***
Power Requirement	DC 12V/PoE	Yes
Approvals	Certificate	CE, FCC

*Outdoor application requires weatherproof housing
** Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP
*** Flush mount is identical to in-ceiling mount

	Speed Dome CAM-6510	Speed Dome CAM-6600 Series
Application Environment	Indoor	Outdoor
Image Sensor	1/4" EXview HAD CCD	1/4" EXview HAD CCD (CAM-6610) 1/4" Progressive CCD (CAM-6620/CAM-6630)
Zoom	18x optical, 12x digital	18x optical, 12x digital (CAM-6610) 23x optical, 12x digital (CAM-6620) 35x optical, 12x digital (CAM-6630)
Day/Night	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes
Lens	Zoom lens, 14.1-73.8 mm/F1.4-3.0, Auto iris	Zoom lens, 14.1-73.8 mm/F1.4-3.0, Auto iris (CAM-6610) Zoom lens, 13.6-82.8 mm/F1.6-3.7, Auto iris (CAM-6620) Zoom lens, 13.3-119 mm/F1.4-4.2, Auto iris (CAM-6630)
Min. Illumination	0.01 Lux at F1.4	0.01 Lux at F1.4 (CAM-6610/6630) 0.01 Lux at F1.6 (CAM-6620)
Compression	MPEG-4 ASP	MPEG-4 ASP
Max. Video Resolution v.s. Frame Rate	720 x 480 at 30fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS(NTSC/PAL)	30/25 fps at all resolution	30/25 fps at all resolution
PTZ Control	Yes, 256 presets Preset, Sequence, Auto-Pan, Cruise	Yes, 256 presets Preset, Sequence, Auto-Pan, Cruise
Panning Range	360° endless	360° endless
Panning Speed	5° - 400°/sec	5° - 400°/sec
Tilting Range	-10° - 190°	-10° - 190°
Tilting Speed	5° - 400°/sec	5° - 400°/sec
Preset accuracy	0.225°	0.225°
Audio	N/A	N/A
Wide Dynamic Range	N/A	N/A (CAM-6610) Yes (CAM-6620/CAM-6630)
Absolute Position	Yes	Yes (CAM-6610) Yes* (CAM-6620/CAM-6630)
Failover	Yes	Yes
Alarm Input/Output	8/1**	8/1**
Motion Detection	Yes (hardware)	Yes (hardware)
Analog Video Output	Yes	Yes
Multi-stream	Up to 4 configurable frame rate/ bit rate streams for preview and recording	Up to 4 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.***	TCP, UDP, RTP, RTSP, PPPoE, etc.***
Ethernet Networks	10/100 Base-T x 2 for LAN/WAN	10/100 Base-T x 2 for LAN/WAN
Environmental Casing	Vandal proof cover (Optional)	IP66 weatherproof dome casing Vandal proof cover (Optional)
Mounting Options	Surface/Pendant/Wall/Corner/Pole/Flush****	Surface/Pendant/Wall/Corner/Pole
Power Requirement	AC 24 V	Yes
Approvals	Certificate	CE, FCC, IP66

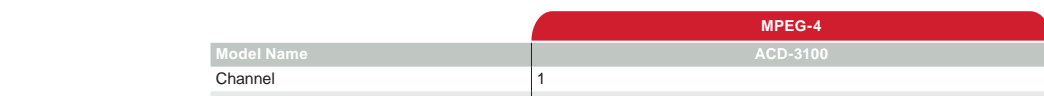
* Only Pan/Tilt absolute position is supported
** 8 alarm inputs and 1 alarm input support local event function, 2 alarm inputs support remote event function
*** Full list of supported Protocols include: TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP
**** Flush mount is identical to in-ceiling mount

Video Servers



	H.264 / MPEG-4 / MJPEG TCD-2100	H.264 / MPEG-4 / MJPEG TCD-2500
Model Name	TCD-2100	TCD-2500
Channel	1	1
Compression	H.264/MPEG-4 SP/MJPEG triple codec selectable	H.264/MPEG-4 SP/MJPEG triple codec selectable
Max. Video Resolution vs Frame Rate	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS (NTSC/PAL)	30/25 fps at all resolution	30/25 fps at all resolution
Video Input	Composite x 1	Composite x 1
Video Output	N/A	Composite x 1
Audio	N/A	2-way
Alarm Input/Output	1/1	2/2
PTZ*	Yes	Yes
Serial Ports	RS-485/422/232	RS-485/422/232
Motion Detection	Yes (hardware)	Yes (hardware)
Multi-stream	H.264/MPEG-4 SP/MJPEG simultaneous dual streams selectable	H.264/MPEG-4 SP/MJPEG simultaneous dual streams selectable
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x 1 for LAN/WAN	10/100 Base-T x 1 for LAN/WAN
Rack Solution	N/A	N/A
Power Requirement	DC 12V	Yes
Extended Temperature (-30° - 70°)	N/A	N/A
Approvals	Certificate	CE, FCC

Video Decoder



	MPEG-4 ACD-3100
Model Name	ACD-3100
Channel	1
Decompression	MPEG-4 ASP, SP
FPS (NTSC/PAL)	30/25 fps at all resolution
Max. Video Resolution	720 x 480 at 30 fps (NTSC) / 720 x 576 at 25 fps (PAL)
Video Output	Composite x 1, Y/C x 1
Serial Ports	RS-485/422/232
Alarm Input/Output	2/2
Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.***
Ethernet Networks	10/100 Base-T x 1 for LAN/WAN
Rack Solution	RMK-2000/RMK-3000 (Optional)
Power Requirement	DC 12V
Approvals	Certificate

* Requires additional third-party PTZ device.
** Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IP66, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP
*** Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP

H.264 Megapixel IP Cameras



	Box TCM-5311/TCM-5312	Box TCM-5601/TCM-5611	Bullet TCM-1231/TCM-1232	Bullet TCM-1511	Cube TCM-4301
Application Environment	Indoor/Outdoor*	Indoor/Outdoor*	Indoor/Outdoor*	Indoor	Indoor
Image Sensor	1/3" EXview HAD CCD, Progressive Scan, 1.25 Megapixel	1/3" Micron, Progressive Scan, CMOS, 1.3 Megapixel	1/3" Micron, Progressive Scan, CMOS, 1.3 Megapixel	1/3" Micron, Progressive Scan, CMOS, 1.3 Megapixel	1/3" Micron, Progressive Scan, CMOS, 1.3 Megapixel
Day/Night	Yes	N/A (TCM-5601) Yes (TCM-5611)	Yes	Yes	N/A
Mechanical IR Cut Filter	Yes	N/A (TCM-5601) Yes (TCM-5611)	Yes	Yes	N/A
IR LED	N/A	N/A	Yes	Yes	N/A
Wide Dynamic Range	N/A	Yes	Yes	Yes	N/A
Lens	Changeable (C/C/S mount), DC iris	Changeable (C/C/S mount); DC iris; Bundled Fixed lens, 14.2 mm/F1.8, Fixed iris	Varifocal, f3.3-12 mm/F1.6, Fixed iris	Varifocal, f3.3-12 mm/F1.6, Fixed iris	Changeable (CS mount); Bundled Fixed lens, 14.2 mm/F1.8, Fixed iris
Min. Illumination	0.05 Lux at F1.2	0.5 Lux at F1.0 (TCM-5601), 0.05 Lux at F1.0 (TCM-5611)	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0.5 Lux at F1.0
Compression	H.264/MPEG-4 SP/ MJPEG triple codec selectable	H.264/MPEG-4 SP/ MJPEG triple codec selectable	H.264/MPEG-4 SP/ MJPEG triple codec selectable	H.264/MPEG-4 SP/ MJPEG triple codec selectable	H.264/MPEG-4 SP/ MJPEG triple codec selectable
Max. Video Resolution v.s. Frame Rate	SXGA (1280 x 960) at 18 fps	SXGA (1280 x 1024) at 18 fps	SXGA (1280 x 1024) at 18 fps	SXGA (1280 x 1024) at 18 fps	SXGA (1280 x 1024) at 18 fps
FPS	15 fps at SXGA (1280 x 960) 30 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	18 fps at SXGA (1280 x 1024) 26 fps at HD720 (1280 x 720) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	18 fps at SXGA (1280 x 1024) 26 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	18 fps at SXGA (1280 x 1024) 26 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	18 fps at SXGA (1280 x 1024) 26 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)
Audio	2-way	2-way	2-way	2-way	2-way
Alarm Input/Output	1/1	1/1	1/1	1/1	N/A
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Multi-stream	H.264/MPEG-4 SP/ MJPEG simultaneous dual streams selectable	H.264/MPEG-4 SP/ MJPEG simultaneous dual streams selectable	H.264/MPEG-4 SP/ MJPEG simultaneous dual streams selectable	H.264/MPEG-4 SP/ MJPEG simultaneous dual streams selectable	H.264/MPEG-4 SP/ MJPEG simultaneous dual streams selectable
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Environmental Casing	Optional	IP66 weatherproof casing	Optional	Optional	N/A
Power Rqmt.	DC 12V/ PoE	Yes (TCM-5311) DC 12V/AC 24V	Yes (TCM-5312)	Yes (TCM-1231) Yes (TCM-1232)	Yes
Approvals	Certificate	CE, FCC	CE, FCC	CE, FCC, IP66	CE, FCC

*Outdoor application requires weatherproof housing
** Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IP66, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP

Megapixel IP Cameras



	Box	Bullet		Cube
Model Name	ACM-5601/ACM-5611	ACM-1231/ACM-1232	ACM-1511	ACM-4200/ACM-4201
Application Environment	Indoor/Outdoor*	Outdoor	Indoor	Indoor
Image Sensor	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel
Day/Night	N/A (ACM-5601) Yes (ACM-5611)	Yes	Yes	N/A
Mechanical IR Cut Filter	N/A (ACM-5601) Yes (ACM-5611)	Yes	Yes	N/A
IR LED	N/A	Yes	Yes	N/A
Lens	Changeable(C/CS mount), Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris	Vari-focal, f3.3-12 mm/F1.6, Fixed iris	Vari-focal, f3.3-12 mm/F1.6, Fixed iris	Changeable(CS mount), Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris
Min. Illumination	0.5 Lux at F1.0 (ACM-5601) 0.05 Lux at F1.0 (ACM-5611)	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0.5 Lux at F1.0
Compression	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps
FPS	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)
Audio	2-way	2-way	2-way	2-way
Alarm Input/Output	1/1	N/A	N/A	N/A
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Environmental Casing	Optional	IP66 weatherproof casing	N/A	N/A
Power Rqmt.	DC 3.3 V DC 12V/PoE DC 12V/AC 24V	N/A Yes (ACM-1231)	N/A Yes	N/A Yes (ACM-4201)
Approvals	Certificate CE, FCC	CE, FCC, IP66	CE, FCC	CE, FCC

*Outdoor application requires weatherproof housing
** Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP



	Fixed Dome			
Model Name	ACM-3401/ACM-3411	ACM-3511	ACM-3701/ACM-3703	ACM-7411
Application Environment	Indoor	Indoor	Indoor/Outdoor	Outdoor
Image Sensor	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel
Day/Night	N/A (ACM-3401) Yes (ACM-3411)	Yes	N/A	Yes
Mechanical IR Cut Filter	N/A (ACM-3401) Yes (ACM-3411)	Yes	N/A	Yes
IR LED	N/A	Yes	N/A	N/A
Lens	Changeable (Board mount) (ACM-3401), Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris	Vari-focal, f3.3-12 mm/F1.6, Fixed iris	Changeable(Board mount), Bundled fixed lens, f3.6 mm/F1.8, Fixed iris	Vari-focal, f3.3-12 mm/F1.6, Fixed iris
Min. Illumination	0.5 Lux at F1.0 (ACM-3401) 0.05 Lux at F1.0 (ACM-3411)	0 Lux (IR LED ON)	0.5 Lux at F1.0	0.05 Lux at F1.0
Compression	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps
FPS	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA(1280 x 1024) 10 fps at HD720(1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)
Audio	2-way	2-way	N/A	2-way
Alarm Input/Output	N/A	N/A	N/A	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment	X (Panning): 0° - 170° Y (Tilting): 0° - 180°	X (Panning): 0° - 330° Y (Tilting): 30° - 90°	X (Panning): ± 20° Y (Tilting): 0° - 90°	X (Panning): 0° - 360° Y (Tilting): 0° - 180° Z (Rotating): 0° - 360°
Environmental Casing	N/A	N/A	Heavy-duty, weatherproof and vandal proof with IP66 protection	Heavy-duty, weatherproof and vandal proof with IP66 protection
Mounting Options	Surface/Pendant/Wall/Corner/Pole/Flush**	Surface/Pendant/Wall/Corner/Pole/Flush**	Surface	Surface/Pendant/Wall/Corner/Pole/Flush**
Power Rqmt.	PoE Only DC 12V/PoE	N/A Yes	Rugged RJ-45 PoE (ACM-3701), Rugged M12 PoE (ACM-3703) N/A	N/A Yes
Approvals	Certificate CE, FCC	CE, FCC	CE, FCC, IP66, EN60950-1, EN50155, ISO16750-3 (Vibration)	CE, FCC, IP66

* Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP
** Flush mount is identical to in-ceiling mount

H.264 IP Cameras



	Box	Bullet	Cube	Fixed Dome		
Model Name	TCM-5001	TCM-1011	TCM-4101	TCM-3001	TCM-3011	TCM-7011
Application Environment	Indoor/Outdoor*	Indoor	Indoor	Indoor	Indoor	Outdoor
Image Sensor	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS
Day/Night	N/A	Yes	N/A	N/A	Yes	Yes
Mechanical IR Cut Filter	N/A	Yes	N/A	N/A	Yes	Yes
IR LED	N/A	Yes	N/A	N/A	Yes	N/A
Wide Dynamic Range	Yes	Yes	Yes	Yes	Yes	Yes
Lens	Changeable (C/CS mount), DC iris, Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris	Vari-focal, f=3.3-12 mm/F1.6, Fixed iris	Changeable (CS mount) Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris	Changeable (Board mount) Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris	Vari-focal, f3.3-12 mm/F1.6, Fixed iris	Vari-focal, f3.3-12 mm/F1.6, Fixed iris
Min. Illumination	0.5 Lux at F1.0	0 Lux (IR LED ON)	0.5 Lux at F1.0	0.5 Lux at F1.0	0 Lux (IR LED ON)	0.05 Lux at F1.0
Compression	H.264/MPEG-4 SP/MJPEG triple codec selectable	MPEG-4 SP, MJPEG selectable	H.264/MPEG-4 SP/MJPEG triple codec selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	640 x 480 at 30 fps	640 x 480 at 30 fps	640 x 480 at 30 fps	640 x 480 at 30 fps	640 x 480 at 30 fps	640 x 480 at 30 fps
FPS	30 fps at all resolution	30 fps at all resolution	30 fps at all resolution	30 fps at all resolution	30 fps at all resolution	30 fps at all resolution
Audio	2-way	2-way	2-way	2-way	2-way	2-way
Alarm Input/Output	1/1	1/1	N/A	1/1	1/1	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment	N/A	N/A	N/A	X (Panning): 0° - 170° Y (Tilting): 0° - 180°	X (Panning): 0° - 330° Y (Tilting): 30° - 90°	X (Panning): 0° - 360° Y (Tilting): 0° - 180° Z (Rotating): 0° - 360°
Environmental Casing	Optional	N/A	N/A	N/A	N/A	Heavy-duty, weatherproof and vandal proof with IP66 protection
Mounting Options	N/A	N/A	N/A	Surface/Pendant/Wall/Corner/Pole/Flush***	Surface/Pendant/Wall/Corner/Pole/Flush***	Surface/Pendant/Wall/Corner/Pole/Flush***
Power Rqmt.	DC 12V/PoE	Yes	Yes	Yes	Yes	Yes
Approvals	Certificate CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC, IP66

* Outdoor application requires weatherproof housing
** Full list of supported Protocols include: TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP
*** Flush mount is identical to in-ceiling mount

IP Cameras



	Box		
Model Name	ACM-5001	ACM-5711	ACM-5801/ACM-5811
Application Environment	Indoor/Outdoor*	Indoor/Outdoor*	Indoor/Outdoor*
Image Sensor	1/3" Micron Progressive Scan CMOS	1/3" Super HAD CCD	1/3" Super HAD CCD (ACM-5801) 1/3" EXview HAD CCD (ACM-5811)
Day/Night	N/A	Yes	N/A (ACM-5801) Yes (ACM-5811)
Mechanical IR Cut Filter	N/A	N/A	N/A (ACM-5801) Yes (ACM-5811)
IR LED	N/A	N/A	N/A
Lens	Changeable (C/CS mount), Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris	Changeable (C/CS mount); DC Iris	Changeable (C/CS mount); DC Iris
Min. Illumination	0.5 Lux at F1.0	0.05 Lux at F1.0 (AES & Sense-Up)	0.15 Lux at F1.2 (ACM-5801) 0.05 Lux at F1.2 (ACM-5811)
Compression	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS(NTSC/PAL)	30 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution
Audio	2-way	2-way	2-way
Alarm Input/Output	1/1	1/1	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	Yes	Yes
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**	TCP, UDP, RTP, RTSP, PPPoE, etc.**
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Environmental Casing	Optional	Optional	Optional
Power Rqmt.	DC 12V/PoE	Yes	Yes
Approvals	Certificate 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, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP

IP Cameras



	Bullet	Cube	
Model Name	ACM-1011	ACM-1431/ACM-1432	ACM-4000/ACM-4001
Application Environment	Indoor	Outdoor	Indoor
Image Sensor	1/3" Micron Progressive Scan CMOS	1/3" Super HAD CCD	1/3" Micron Progressive Scan CMOS
Day/Night	Yes	Yes	N/A
Mechanical IR Cut Filter	Yes	Yes	N/A
IR LED	Yes	Yes	N/A
Lens	Vari-focal, f3.3-12 mm/F1.6, Fixed iris	Vari-focal, f3.8-9.5 mm/F1.2, Auto iris	Changeable(CS mount), Bundled Fixed lens, f4.2 mm/F1.8, Fixed iris
Min. Illumination	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0.5 Lux at F1.0
Compression	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	640 x 480 at 30 fps
FPS(NTSC/PAL)	30 fps at all resolution	30/25 fps at all resolution	30 fps at all resolution
Audio	2-way	2-way	2-way
Alarm Input/Output	N/A	N/A	N/A
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	Yes	N/A
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.*	TCP, UDP, RTP, RTSP, PPPoE, etc.*	TCP, UDP, RTP, RTSP, PPPoE, etc.*
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Environmental Casing	N/A	IP66 weatherproof casing	N/A
Power Rqmt.	DC 3.3V DC 12V/PoE	N/A Yes (ACM-1431)	Yes (ACM-4000) Yes (ACM-4001)
Approvals	Certificate CE, FCC	CE, FCC, IP66	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



	Fixed Dome				
Model Name	ACM-3001	ACM-3011	ACM-3311	ACM-3601/ACM-3603	ACM-7501/ACM-7511
Application Environment	Indoor	Indoor	Indoor	Indoor/Outdoor	Outdoor
Image Sensor	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" Super HAD CCD	1/3" Micron Progressive Scan CMOS	1/3" Super HAD CCD (ACM-7501), 1/3" EXview HAD CCD (ACM-7511)
Day/Night	N/A	Yes	Yes	N/A	N/A (ACM-7501) Yes (ACM-7511)
Mechanical IR Cut Filter	N/A	Yes	N/A	N/A	N/A (ACM-7501) Yes (ACM-7511)
IR LED	N/A	Yes	Yes	N/A	N/A
Lens	Changeable (Board mount), Bundled Fixed lens, f4.2 mm/F1.8 Fixed iris	Vari-focal, f3.3-12 mm/F1.6 Fixed iris	Fixed lens, f4.3 mm/F2.0 Fixed iris	Changeable (Board mount), Bundled Fixed lens, f3.6 mm/F1.8, Fixed iris	Vari-focal, f3.7-12 mm/F1.4-2.8 Auto iris
Min. Illumination	0.5 Lux at F1.0	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0.5 Lux at F1.0	0.15 Lux at F1.2 (ACM-7501), 0.05 Lux at F1.2 (ACM-7511)
Compression	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable	MPEG-4 SP, MJPEG selectable
Max. Video Resolution v.s. Frame Rate	640 x 480 at 30 fps	640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC), 720 x 576 at 25 fps (PAL)	640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC), 720 x 576 at 25 fps (PAL)
FPS(NTSC/PAL)	30 fps at all resolution	30 fps at all resolution	30/25 fps at all res.	30 fps at all res.	30/25 fps at all res.
Audio	2-way	2-way	2-way	N/A	2-way
Alarm Input/Output	N/A	N/A	N/A	N/A	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	N/A	Yes	N/A	Yes
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, etc.*	TCP, UDP, RTP, RTSP, PPPoE, etc.*	TCP, UDP, RTP, RTSP, PPPoE, etc.*	TCP, UDP, RTP, RTSP, PPPoE, etc.*	TCP, UDP, RTP, RTSP, PPPoE, etc.*
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment	X (Panning): 0° - 170° Y (Tilting): 0° - 180°	X (Panning): 0° - 330° Y (Tilting): 30° - 90°	X (Panning): 0° - 170° Y (Tilting): 0° - 180°	X (Panning): ± 20° Y (Tilting): 0° - 90°	X (Panning): 0° - 300° Y (Tilting): 0° - 180° Z (Rotating): 0° - 360°
Environmental Casing	N/A	N/A	N/A	Heavy-duty, weatherproof and vandal proof with IP66 protection	Heavy-duty, weatherproof and vandal proof with IP66 protection
Mounting Options	Surface/Pendant/Wall/Corner/Pole/Flush**	Surface/Pendant/Wall/Corner/Pole/Flush**	Surface/Pendant/Wall/Corner/Pole/Flush**	Surface	Surface/Pendant/Wall/Corner/Pole/Flush**
Power Rqmt.	PoE Only DC 12V/PoE	N/A Yes	N/A Yes	Rugged RJ45 PoE (ACM-3601), Rugged M12 PoE (ACM-3603)	N/A Yes
Approvals	Certificate				