

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 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 |
| 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

* All specifications are subject to change without notice.

* All brand names and registered trademarks are the property of their respective owners.

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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

* All specifications are subject to change without notice.

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ACTi
Connecting Vision

SEG-110214-000

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.

* All brand names and registered trademarks are the property of their respective owners.

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Video Encoders



| | 1 Channel | | | 4 Channel | |
|---|---|---|---|--|---|
| Model Name | 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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