

MPEG-4 IP Surveillance

2006 Buyer's Guide





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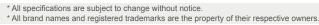




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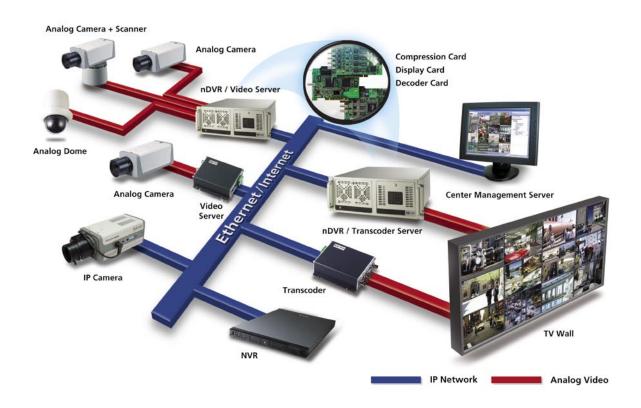
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• ACTi Media Server

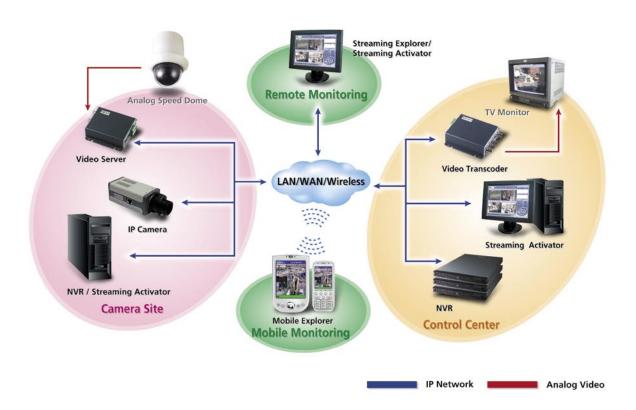


Solution Template

Converged IP Surveillance Solution

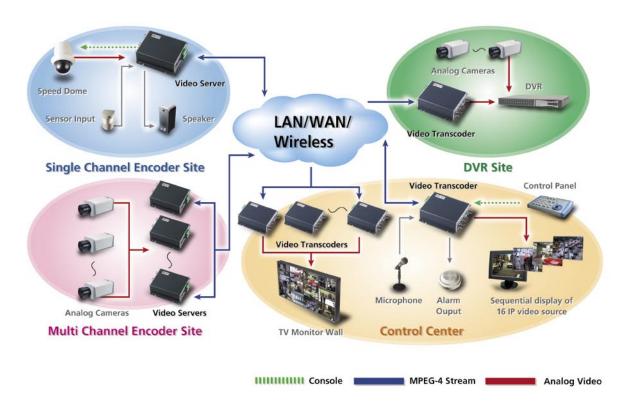


Best MPEG-4 IP Surveillance Solution

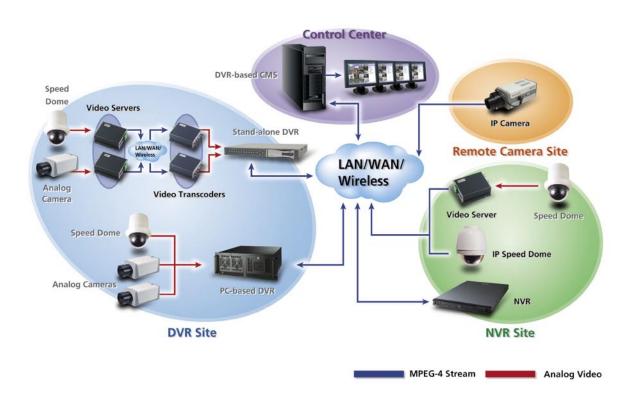


Solution Template

Hybrid Solution -- CCTV + IP



Hybrid Solution -- nDVR + IP



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IP Box Camera

Preliminary













| IP Indoor/Outdoor Box Camera | | | | | | | |
|------------------------------|-----------------------|--|--|--|--|--|--|
| Mod | lel name | CAM-5200 Series | CAM-5220 Series | CAM-5300 Series | CAM-5320 Series | CAM-5400 series | CAM-5420 series |
| Туре | | IP indoor* camera with audio | IP indoor* D/N camera with audio | IP indoor* camera | IP indoor* D/N camera | IP indoor* camera with audio and 540 TVL | IP indoor* D/N camera with audio and 540 TVL |
| Compre | ession | MPEG-4 ASP |
| Multi-st | ream | 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 | 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 | 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 |
| FPS (N | TSC/PAL) | 30/25 | 30/25 | 30/25 | 30/25 | 30/25 | 30/25 |
| Max. Vi Resolut | | 720 x 480 (NTSC) 720 x 576 (PAL) |
| Bit Rate | e | 28 K ~ 3 M bps |
| Image S | Sensor | 1/3" SuperHAD | 1/3" EXviewHAD | 1/3" SuperHAD | 1/3" EXviewHAD | 1/3" SuperHAD | 1/3" EXviewHAD |
| Horizon Resolut | - | 480 TVL | 480 TVL | 480 TVL | 480 TVL | 540 TVL | 540 TVL |
| Zoom | | None | None | None | None | None | None |
| Day/Night | | None | Yes | None | Yes | None | Yes |
| Lens Changeable | | Yes | Yes | Yes | Yes | Yes | Yes |
| Audio | | 1 way | 1 way | None | None | 1 way | 1 way |
| Alarm II | nput/Output | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Motion | Detection | Yes | Yes | Yes | Yes | Yes | Yes |
| Min. Illu | ımination | 0.15 Lux | 0.05 Lux | 0.15 Lux | 0.05 Lux | 0.15 Lux | 0.05 Lux |
| Analog Compos | Video site Output | Yes | Yes | Yes | Yes | Yes | Yes |
| Environ Casing | mental | | | | | | |
| Etherne | et Networks | 10/100Base-T x2 for LAN/WAN |
| Failover | | Yes | Yes | Yes | Yes | Yes | Yes |
| Protoco | ol | TCP, UDP, RTP, RTSP |
| Security | y | Password/ Username protection | Password/ Username protection | Password/ Username protection | Password/ Username protection | Password/ Username protection | Password/ Username protection |
| | DC 12 V | Yes (CAM-5200) | Yes (CAM-5220) | Yes (CAM-5300) | Yes (CAM-5320) | Yes (CAM-5400) | Yes (CAM-5420) |
| Power | PoE (IEEE 802.3af) | Yes (CAM-5201) | Yes (CAM-5221) | Yes (CAM-5301) | Yes (CAM-5321) | Yes (CAM-5401) | Yes (CAM-5421) |
| | AC 24 V | Yes (CAM-5202) | Yes (CAM-5222) | Yes (CAM-5302) | Yes (CAM-5322) | Yes (CAM-5402) | Yes (CAM-5422) |

^{*} Outdoor application requires weather-proof housing.
** Products will start to provide RTP and RTSP after September, 2006.

IP Box Camera











| IP Indoor/Outdoor Box Camera | | | | | | | |
|---|-------------------------------------|--|--|--|--|--|--|
| CAM-5130 series | CAM-5140 series | CAM-5150 series | CAM-5500 series | CAM-5520 series | | | |
| IP indoor D/N camera with 23x zoom | IP outdoor D/N camera with 23x zoom | IP outdoor D/N camera with 23x zoom | IP indoor* camera with audio & 10x zoom | IP indoor* D/N camera with audio & 10x zoom | | | |
| MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | | | |
| rate/bit rate streams for rate/bit rate streams for | | 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 | Up to 4 configurable frame rate/bit rate streams for preview and recording | | | |
| 30/25 | 30/25 | 30/25 | 30/25 | 30/25 | | | |
| 720 x 480 (NTSC) 720 x 576 (PAL) | 720 x 480 (NTSC) 720 x 576 (PAL) | 720 x 480 (NTSC) 720 x 576 (PAL) | 720 x 480 (NTSC) 720 x 576 (PAL) | 720 x 480 (NTSC) 720 x 576 (PAL) | | | |
| 28 K ~ 3 M bps | 28 K ~ 3 M bps | 28 K ~ 3 M bps | 28 K ~ 3 M bps | 28 K ~ 3 M bps | | | |
| 1/4" SuperHAD | 1/4" EXviewHAD | 1/4" SuperHAD | 1/3" SuperHAD | 1/3" EXviewHAD | | | |
| 480 TVL | 480 TVL | 480 TVL | 480 TVL | 480 TVL | | | |
| 23x Optical; 10x Digital | 23x Optical; 10x Digital | 23x Optical; 10x Digital | 10x Optical; 10x Digital | 10x Optical; 10x Digital | | | |
| Yes | Yes | Yes | None | Yes | | | |
| None | None | None | None | None | | | |
| None | None | None | 2 way | 2 way | | | |
| 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | | | |
| Yes | Yes | Yes | Yes | Yes | | | |
| 0.01 Lux | 0.002 Lux | 0.01 Lux | 0.15 Lux | 0.01 Lux | | | |
| Yes | Yes | Yes | Yes | Yes | | | |
| IP-66 weatherproof casing | IP-66 weatherproof casing | IP-66 weatherproof casing | | | | | |
| 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | | | |
| Yes | Yes | Yes | Yes | Yes | | | |
| TCP, UDP, RTP**, RTSP** | TCP, UDP, RTP**, RTSP** | TCP, UDP, RTP**, RTSP** | TCP, UDP, RTP, RTSP | TCP, UDP, RTP, RTSP | | | |
| Password/Username protection | Password/Username protection | Password/Username protection | Password/Username protection | Password/Username protection | | | |
| Yes (CAM-5130) | Yes (CAM-5140) | Yes (CAM-5150) | Yes (CAM-5500) | Yes (CAM-5520) | | | |
| None | None | None | Yes (CAM-5501) | Yes (CAM-5521) | | | |
| Yes (CAM-5131) | Yes (CAM-5143) With heater | Yes (CAM-5153) With heater | None | None | | | |

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

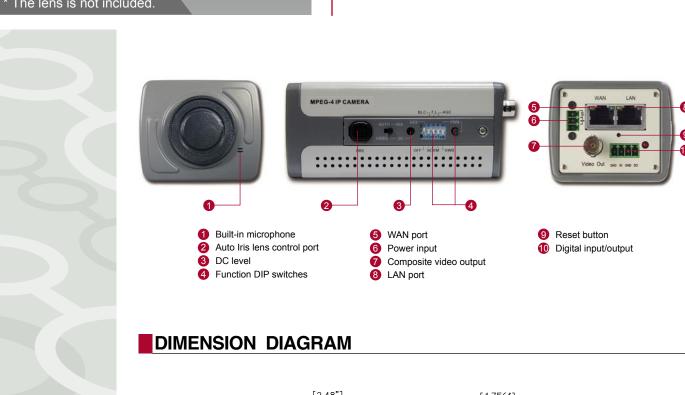


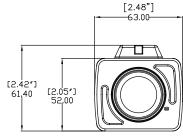
MPEG-4 Real-time Network Streaming IP Camera with Audio

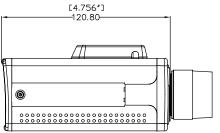
CAM-5200 Series



- 1/3" SONY Super HAD / EXviewHAD with 470K/410K pixels
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- Day and night function with IR cut-filter switching mechanism (CAM-5220)
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- One-way audio supported (built-in microphone)
- Power Over Ethernet (IEEE 802.3af) supported (CAM-5201/CAM-5221) or AC 24 V power source supported (CAM-5202/CAM-5222)









PRODUCT SPECIFICATION

| | | CAM-5200 | CAM-5220 | | | |
|-------------------------|------------------------|--|---|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | |
| | Size | 1/3 i | nch | | | |
| Image | Effective Pixels (HxV) | 811 x 508 (NTSC) | ; 795 x 596 (PAL) | | | |
| | Horizontal Resolution | 480 TVL / 380 TVL | 480 TVL | | | |
| | Color | 0.15 Lux at F1.2 (30 IRE, SAGC) (CAM-52xxH) 0.2 Lux at F1.2 (30 IRE, AGC) (CAM-52xxS) | Color mode automatically switched to B/W mode under 4 Lux | | | |
| Min. scene Illumination | B/W | N/A | 0.05 Lux at F1.2 (30 IRE, SAGC) | | | |
| | IR Sensitivity | N/A | from 700nm to 1100nm | | | |
| Lens | Lens Mount | C / CS (wit | h adaptor) | | | |
| Synchronization | Sync. System | Inter | | | | |
| Day/Night Functions | Day/Night Switching | N/A | Mechanical IR Cut Filter: Auto; Colour/Monochrome | | | |
| Day/right r dilottorio | Motion Detection | Yes (3 w | · | | | |
| | Electronic Shutter | AES On: 1/60 ~ 1/100,000 sec. (NTSC); AES Off: 1/60 sec. (NTSC | • | | | |
| | BLC | On / Off (st | , | | | |
| Functions | AGC | On / Off (switchable) | On / Off (switchable) Turning off AGC will disable D&N function | | | |
| T directions | White Balance | AWB / PWB | , , , | | | |
| | Flickerless | On / Off (s | ` ' | | | |
| | Auto Iris Control | Video / DC (| | | | |
| S/N Ratio | S/N Ratio | Better than 50 | • | | | |
| | Compression | MPEG-4 AS | ` , | | | |
| | Picture Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL); CIF (352 x 240 in NTSC, 352 x 288 in PAL); QCIF (160 x 112 in NTSC, 176 x 144 in PAL) | | | | |
| Video (Compression) | Bit Rate | 28 K ~ 3 M bps | | | | |
| ` ' ' | Image Frame Rate | 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) | | | | |
| | Multi-stream | Up to 4 configurable frame rate/bit rat | te streams for preview and recording | | | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω | loading, BNC connector | | | |
| | Compression | 8 kHz, Mo | no, PCM | | | |
| Audio Input | Built-in Microphone | Sensitivity: -44±5 dB (0 dB=1V/pa, 1 kHz); S/N Ra | atio : more than 58 dB; Directivity : omnidirectional | | | |
| A1 | Input | 1, TTL, terr | ninal block | | | |
| Alarm | Output | 1, TTL, terr | ninal block | | | |
| External I/O | Reset Button | Reset | button | | | |
| External I/O | LED | System | status | | | |
| | LAN Port | Ethernet(10/100Base | -T), RJ-45 connector | | | |
| Network | WAN Port | Ethernet(10/100Base | -T), RJ-45 connector | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PF | PPoE, RTP, RTSP, FTP, SMTP | | | |
| | Web Browser | Microsoft Internet Ex | plorer 6.0 or above | | | |
| Software | SDK | ActiveX control, C SDK | | | | |
| | Security | Password Protection : configured by the administrator | | | | |
| Operating | Temperature | 5 °C ~ 50 °C (4 | • | | | |
| Power | Power Requirement | DC 12 V ±10% (CAM-5200) PoE (IEEE802.3af) with Class 3 (CAM-5201) AC 24 V ±10% (CAM-5202) | DC12V ±10% (CAM-5220) PoE (IEEE802.3af) with Class 3 (CAM-5221) AC 24 V ±10% (CAM-5222) | | | |
| | Power Consumption | 9 W | 12 W | | | |
| Physical | Dimensions (WxHxD) | 63 mm x 52 mm x 120 m | m (2.48" x 2.05" x 4.76") | | | |
| i iiyalcai | Weight | 450 g (0 | 0.99 lb) | | | |

ORDERING INFORMATION

| Part Number | Full D1 | NTSC | PAL | 480 TVL | 380 TVL | DC 12 V | PoE | AC 24 V | D & N |
|-------------|---------|------|-----|---------|---------|---------|-----|---------|-------|
| CAM-5200HP | V | | V | V | | V | | | |
| CAM-5200HN | V | V | | V | | V | | | |
| CAM-5201HP | V | | V | V | | | V | | |
| CAM-5201HN | V | V | | V | | | V | | |
| CAM-5202HP | V | | V | V | | | | V | |
| CAM-5202HN | V | V | | V | | | | V | |
| CAM-5220HP | V | | V | V | | V | | | V |
| CAM-5220HN | V | V | | V | | V | | | V |
| CAM-5221HP | V | | V | V | | | V | | V |
| CAM-5221HN | V | V | | V | | | V | | V |
| CAM-5222HP | V | | V | V | | | | V | V |
| CAM-5222HN | V | V | | V | | | | V | V |

ACCESSORY OPTIONS

Lens, f3.0~8mm F1.0, CS mount, Format 1/3"

• Lens, f3.0~8.5mm F1.0, CS mount, Format 1/3"

· Camera bracket

· Outdoor housing

0690-00002-000

0690-00012-000

GL-201/GL-202

GL-606

Lens. f5.0~55mm F1.4. CS mount. Format 1/3"

• Lens, f7.5~50mm F1.3, CS mount, Format 1/3"

0690-00004-000 0690-00013-000

· Housing bracket

GL-205N

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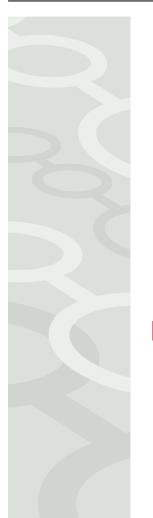
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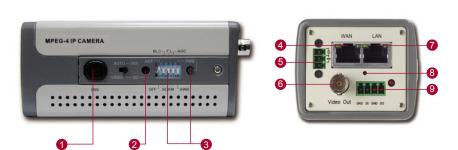
MPEG-4 Real-time Network Streaming IP Camera

CAM-5300 Series



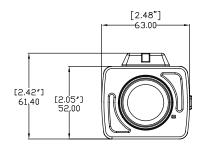
- 1/3" SONY Super HAD / EXviewHAD with 470K/410K pixels
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- Day and night function with IR cut-filter switching mechanism (CAM-5320)
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- Power Over Ethernet (IEEE 802.3af) supported (CAM-5301/CAM-5321) or AC 24 V power source supported (CAM-5302/CAM-5322)

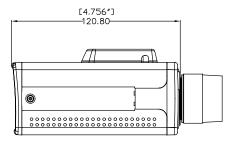




- Auto Iris lens control port
- OC level
- 3 Function DIP switches
- 4 WAN port
- 6 Power input
- 6 Composite video output
- LAN port
- 8 Reset button
- Oigital input/output

DIMENSION DIAGRAM







PRODUCT SPECIFICATION

| | | CAM-5300 | CAM-5320 | | | |
|-------------------------|------------------------|--|---|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | |
| lmana | Size | 1/3 i | nch | | | |
| Image | Effective Pixels (HxV) | 811 x 508 (NTSC) | ; 795 x 596 (PAL) | | | |
| | Horizontal Resolution | 480 TVL / 380 TVL | 480 TVL | | | |
| | Color | 0.15 Lux at F1.2 (30 IRE, SAGC) (CAM-53xxH) 0.2 Lux at F1.2 (30 IRE, AGC) (CAM-53xxS) | Color mode automatically switched to B/W mode under 4 Lux | | | |
| Min. scene Illumination | B/W | N/A | 0.05 Lux at F1.2 (30 IRE, SAGC) | | | |
| | IR Sensitivity | N/A | from 700nm to 1100nm | | | |
| Lens | Lens Mount | C / CS (wit | h adaptor) | | | |
| Synchronization | Sync. System | Intel | • , | | | |
| Day/Night Functions | Day/Night Switching | N/A | Mechanical IR Cut Filter: Auto; Colour/Monochrome | | | |
| | Motion Detection | Yes (3 w | • | | | |
| | Electronic Shutter | AES On: 1/60 ~ 1/100,000 sec. (NTSC); AES Off: 1/60 sec. (NTSC | * | | | |
| | BLC | On / Off (s | , , , | | | |
| Functions | AGC | On / Off (switchable) | On / Off (switchable) Turning off AGC will disable D&N function | | | |
| | White Balance | AWB / PWB | , , | | | |
| | Flickerless | On / Off (s | , | | | |
| | Auto Iris Control | Video / DC (| , | | | |
| S/N Ratio | S/N Ratio | Better than 50 | , | | | |
| | Compression | MPEG-4 AS | , , | | | |
| | Picture Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL); CIF (352 x 240 in NTSC, 352 x 288 in PAL); QCIF (160 x 112 in NTSC, 176 x 144 in PAL) | | | | |
| Video (Compression) | Bit Rate | 28 K ~ 3 M bps | | | | |
| , , | Image Frame Rate | 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) | | | | |
| | Multi-stream | Up to 4 configurable frame rate/bit rat | te streams for preview and recording | | | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω | loading, BNC connector | | | |
| | Input | 1, TTL, terr | ninal block | | | |
| Alarm | Output | 1, TTL, terr | ninal block | | | |
| F. t 1.1/O | Reset Button | Reset | button | | | |
| External I/O | LED | System | status | | | |
| | LAN Port | Ethernet(10/100Base | -T), RJ-45 connector | | | |
| Network | WAN Port | Ethernet(10/100Base | -T), RJ-45 connector | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PF | PPoE, RTP, RTSP, FTP, SMTP | | | |
| | Web Browser | Microsoft Internet Ex | xplorer 6.0 or above | | | |
| Software | SDK | ActiveX con | trol, C SDK | | | |
| | Security | Password Protection : configured by the administrator | | | | |
| Operating | Temperature | 5°C~50°C (4 | 0°F~122°F) | | | |
| Power | Power Requirement | DC 12 V ±10% (CAM-5300) PoE (IEEE802.3af) with Class 3 (CAM-5301) AC 24 V ±10% (CAM-5302) DC12V ±10% (CAM-5320) PoE (IEEE802.3af) with Class 3 (CAM-5321) AC 24 V ±10% (CAM-5322) | | | | |
| | Power Consumption | 9 W | 12 W | | | |
| Dhariaal | Dimensions (WxHxD) | 63 mm x 52 mm x 120 m | m (2.48" x 2.05" x 4.76") | | | |
| Physical | Weight | 450 g (0.99 lb) | | | | |

ORDERING INFORMATION

| Part Number | Full D1 | CIF | NTSC | PAL | 480 TVL | 380 TVL | DC 12 V | PoE | AC 24 V | D & N |
|-------------|---------|-----|------|-----|---------|---------|---------|-----|---------|-------|
| CAM-5300HP | V | | | V | V | | V | | | |
| CAM-5300HN | V | | V | | V | | V | | | |
| CAM-5300SP | | V | | V | | V | V | | | |
| CAM-5300SN | | V | V | | | V | V | | | |
| CAM-5301HP | V | | | V | V | | | V | | |
| CAM-5301HN | V | | V | | V | | | V | | |
| CAM-5302HP | V | | | V | V | | | | V | |
| CAM-5302HN | V | | V | | V | | | | V | |
| CAM-5320HP | V | | | V | V | | V | | | V |
| CAM-5320HN | V | | V | | V | | V | | | V |
| CAM-5321HP | V | | | V | V | | | V | | V |
| CAM-5321HN | V | | V | | V | | | V | | V |
| CAM-5322HP | V | | | V | V | | | | V | V |
| CAM-5322HN | V | | V | | V | | | | V | V |

ACCESSORY OPTIONS

• Lens, f3.0~8mm F1.0, CS mount, Format 1/3"

• Lens, f3.0~8.5mm F1.0, CS mount, Format 1/3"

· Camera bracket

· Outdoor housing

0690-00002-000

0690-00012-000

GL-201/GL-202 GL-606

• Lens, f5.0~55mm F1.4, CS mount, Format 1/3"

0690-00004-000

• Lens, f7.5~50mm F1.3, CS mount, Format 1/3"

0690-00013-000

Housing bracket

GL-205N

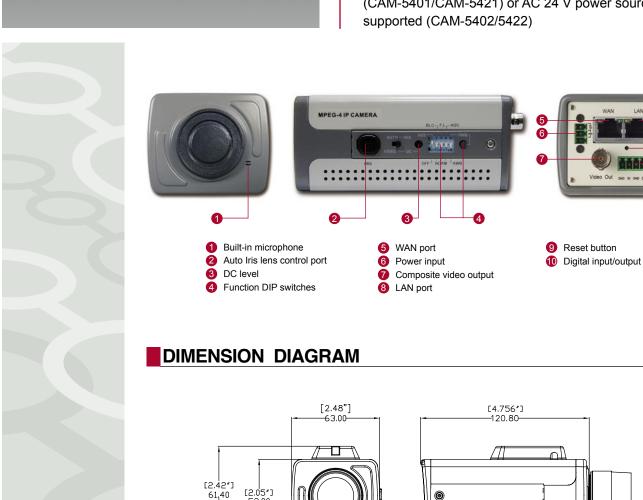
^{*} All specifications are subject to change without notice.
* All brand names and registered trademarks are the property of their respective owners.

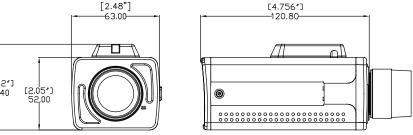
CAM-5400 Series

MPEG-4 Real-time Network Streaming IP Camera with Audio and 540 TVL



- 1/3" SONY Super HAD / EXviewHAD with 440K/380K pixels
- Min. 0.05 Lux at F=1.2 (30 IRE, SAGC ON)
- · Backlight Compensation, Auto Iris Control, Auto White Balance supported
- · Day and night function with IR cut-filter switching mechanism (CAM-5420)
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · One-way audio supported
- Power Over Ethernet (IEEE 802.3af) supported (CAM-5401/CAM-5421) or AC 24 V power source supported (CAM-5402/5422)







PRODUCT SPECIFICATION

| | | CAM-5400 | CAM-5420 | | | |
|---------------------|-----------------------|---|---|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | |
| maga | Size | 1/3 ir | nch | | | |
| lmage | Pixels - Effective | 768 x 494 (NTSC); | 752 x 582 (PAL) | | | |
| | Horizontal Resolution | 540 1 | √L | | | |
| Min. Scene | Color | 0.15 Lux at F1.2 (30 IRE, SAGC) | Color mode automatically switched to B/W mode under 4 Lux | | | |
| Illumination | B/W | N/A | 0.05 Lux at F1.2 (30 IRE, SAGC) | | | |
| | IR Sensitivity | N/A | from 700nm to 1100nm | | | |
| _ens | Lens Mount | C / CS (with | n adaptor) | | | |
| Synchronization | Sync. System | Inter | nal | | | |
| Day/Night Functions | Day/Night Switching | N/A | Mechanical IR Cut Filter: Auto | | | |
| , , | Motion Detection | Yes (3 Wi | indows) | | | |
| | Electronic shutter | AES On: 1/60 ~ 1/100,000 sec. (255 steps) (NT AES Off: 1/60 sec. (NT | SC); 1/50 ~ 1/100,000 sec. (255 steps) (PAL); | | | |
| | BLC | On / Off (sv | vitchable) | | | |
| unctions | AGC | On (255 st | eps) / Off | | | |
| | White Balance | AWB / MWI | 3 (4 Sets) | | | |
| | Flickerless | 1/100 sec. (NTSC); | | | | |
| | Auto Iris Control | Video / DC (s | · , | | | |
| S/N Ratio | S/N Ratio | Better than 50 | , | | | |
| | Compression | MPEG-4 ASF | , | | | |
| | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL) QCIF (160x112 in NTS | ; CIF (352x240 in NTSC, 352x288 in PAL); | | | |
| /ideo Compression | Bit Rate | 28 K ~ 3 M bps | | | | |
| | Image Frame Rate | 30 fps at full D1 resolution (NTSC); | 25 fps at full D1 resolution (PAL) | | | |
| | Multi-stream | Up to 4 configurable frame rate/bit rate | e streams for preview and recording | | | |
| /ideo Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω | loading, BNC connector | | | |
| Vudia lanut | Compression | 8 kHz, Mo | no, PCM | | | |
| Audio Input | Built-in Microphone | Sensitivity: -44±5 dB (0 dB=1V/pa, 1 kHz); S/N Ra | tio : more than 58 dB; Directivity : omnidirectional | | | |
| 1 | Input | 1, TTL, term | ninal block | | | |
| Marm | Output | 1, TTL, term | ninal block | | | |
| | Reset Button | Factory | default | | | |
| External I/O | LED | System | status | | | |
| | LAN Port | Ethernet (10/100 Base | -T), RJ-45 connector | | | |
| Network | WAN Port | Ethernet (10/100 Base | -T), RJ-45 connector | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PP | ** | | | |
| | Web Browser | Microsoft Internet Ex | | | | |
| Software | SDK | ActiveX cont | • | | | |
| | Security | Password protection: config | | | | |
| Operating | Temperature | 5 ~ 50 °C (40 | | | | |
| | Power Requirement | DC 12 V ±10% (CAM-5400) PoE (IEEE802.3af) with Class 3 (CAM-5401) | DC 12 V ±10% (CAM-5420) PoE (IEEE802.3af) with Class 3 (CAM-5421) | | | |
| Power | | AC 24 V ±10% (CAM-5402) | AC 24 V ±10% (CAM-5422) | | | |
| | Power Consumption | 9 V | V | | | |
| Obi.a.al | Dimensions (WxHxD) | 63 mm x 52 mm x 120 mr | m (2.48" x 2.05" x 4.76") | | | |
| Physical | Weight | 450 g (0 | .99 lb) | | | |

ORDERING INFORMATION

| Model Number | NTSC | PAL | D&N | DC 12 V | DC 12 V / PoE | DC 12 V/ AC 24 V |
|--------------|------|-----|-----|---------|---------------|------------------|
| CAM-5400N | V | | | V | | |
| CAM-5400P | | V | | V | | |
| CAM-5401N | V | | | | v | |
| CAM-5401P | | V | | | v | |
| CAM-5402N | V | | | | | V |
| CAM-5402P | | V | | | | V |
| CAM-5420N | V | | v | v | | |
| CAM-5420P | | V | V | V | | |
| CAM-5421N | V | | V | | v | |
| CAM-5421P | | V | V | | v | |
| CAM-5422N | V | | V | | | V |
| CAM-5422P | | V | V | | | V |

ACCESSORY OPTIONS

- Lens. f3.0~8mm F1.0. CS mount. Format 1/3"
- Lens, f3.0~8.5mm F1.0, CS mount, Format 1/3"
- · Camera bracket
- Outdoor housing

- 0690-00002-000 0690-00012-000
- Lens, f5.0~55mm F1.4, CS mount, Format 1/3" • Lens, f7.5~50mm F1.3, CS mount, Format 1/3"
- 0690-00004-000

- GL-201/GL-202 GL-606
- 0690-00013-000 GL-205N

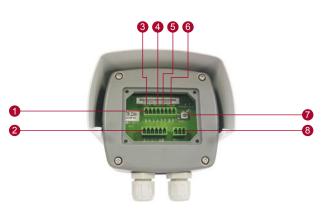
Housing bracket

CAM-5130/5140/ CAM-5150 Series

MPEG-4 Real-time Network Streaming Day and Night 230X IP Zoom Camera

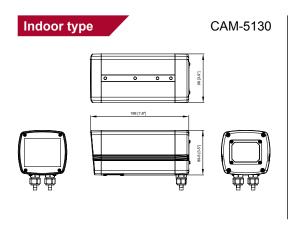


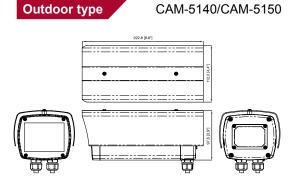
- 1/4" SONY Super HAD / EXviewHAD CCD with 470K/410K pixels
- Built-in auto focus / auto iris / 23X optical zoom lens with 10X digital zoom
- Smart Optical Low Pass Filter (OLPF) switching mechanism
- Backlight Compensation (BLC), motion detection and masking functions
- Advanced white balance mode: ATW, AWB, MWB (level, R-Y gain, B-Y gain control)
- MPEG-4 ASP compliant compression
- CIF Up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · IP66 weatherproof



- 1 LAN port & WAN port
- 2 DI/O & video output
- 3 LAN link LED indicator
- 4 LAN/WAN active LED indicator
- 5 WAN link LED indicator
- Action LED indicator
- Reset button
- 8 Power input

DIMENSION DIAGRAM





CAM-5130/5140/5150 Series

PRODUCT SPECIFICATION

| | | CAM-5130 | CAM-5140 | CAM-5150 | |
|-----------------|------------------------|---|--|---------------------------------------|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | Interline Transfer SONY Super HAD CCD | |
| | Size | · | 1/4 inch | | |
| Image | Effective Pixels (HxV) | | 811 x 508 (NTSC); 795 x 596 (PAL) | | |
| | Horizontal Resolution | | 480 TVL | | |
| | Color | 0.5 Lux at F1.6 (30 IRE, SAGC) | 0.1 Lux at F1.6 (30 IRE, SAGC) | 0.5 Lux at F1.6 (30 IRE, SAGC) | |
| Min. scene | | 0.1 Lux at F1.6 (30 IRE, SAGC) | 0.02 Lux at F1.6 (30 IRE, SAGC) | 0.1 Lux at F1.6 (30 IRE, SAGC) | |
| Illumination | B/W | | 0.002 Lux at F1.6 (64x sense up, 30 IRE, SAGC) | | |
| | IR Sensitivity | , | from 700nm to 1100nm | , , , | |
| | Focal Length | 3.6 ~ 82.8 mm | | | |
| Lens | Zoom Ratio | | 230x (23x optical & 10x digital zoom) | | |
| | Aperture Ratio | | F1.6 ~ 3.8 | | |
| Synchronization | Sync. System | | Internal | | |
| , | OLPF Removable | | Internal (auto switching) / External | | |
| Day/Night | OLPF Change Level | 0.4. 451 | 0.00 451 | 0.4. 451 | |
| Functions | Adjustment | 0.1 ~ 15 Lux adjustable | 0.02 ~ 15 Lux adjustable | 0.1 ~ 15 Lux adjustable | |
| | OLPF Change Delay Time | | 5 ~ 8 sec. | | |
| | Diagonal Angle | | 58° (W) ~ 2.8° (T) | | |
| | Zoom Speed | | 4.2 sec. | | |
| | Motion Detection | | Yes (48 zones, level sensitivity 10) | | |
| | Electronic Shutter | 1/60 | ~ 1/100,000 sec. (NTSC); 1/50 ~ 1/100,000 sec. (| (PAL) | |
| | Fixed Shutter | 1/ | 100, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/100 | 00 | |
| | BLC | | Auto On/Off, 48 zones and weighting adjustable | | |
| Functions | AGC | | Super AGC 0 ~ 36 dB | | |
| | White Balance | ATW (2500 | 0°K ~ 9600°K), AWB, MWB (level, R-Y gain, B-Y g | ain control) | |
| | Camera ID | | Max. 20 characters | | |
| | Number of Privacy Zone | | 2 | | |
| | Digital Zoom | | 10x | | |
| | Sense Up | | 2x ~ 64x sense up adjustable | | |
| | Number of Preset | | 64 preset memory position (zoom / focus) | | |
| S/N Ratio | S/N Ratio | | Better than 50 dB | | |
| | Compression | | MPEG-4 ASP compliant | | |
| Video | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in I | PAL); CIF (352x240 in NTSC, 352x288 in PAL); Q | CIF (160x112 in NTSC, 176x144 in PAL) | |
| (Compression) | Bit Rate | | 28 K ~ 3 M bps | | |
| (Compression) | Image Frame Rate | 30 fps at | full D1 resolution (NTSC); 25 fps at full D1 resolut | tion (PAL) | |
| | Multi-stream | Up to 4 con | figurable frame rate/bit rate streams for preview a | - | |
| Video Output | Composite Output | | CVBS, 1.0Vp-p with 75 Ω loading, terminal block | | |
| Alarm | Input | | 1, TTL, terminal block | | |
| , uami | Output | | 1, TTL, terminal block | | |
| External I/O | Reset Button | | Factory default | | |
| External I/O | LED | | System Status / Network Status | | |
| Casing | IP66 Rated | | IP-66 weatherproof casing | | |
| | LAN Port | | Ethernet(10/100 Base-T), terminal block | | |
| Network | WAN Port | Ethernet(10/100 Base-T), terminal block | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP*, RTSP*, FTP, SMTP | | | |
| | Web Browser | Microsoft Internet Explorer 6.0 or above | | | |
| Software | SDK | ActiveX Control, C SDK | | | |
| | Security | Password Protection : configured by the administrator | | | |
| Operating | Temperature | | -10 ~ 50 °C (14 ~ 122 °F) | | |
| Power | Power Requirement | | DC 12 V ±10% / AC 24 V ±10% | | |
| . 51101 | Power Consumption | | 12 W | | |
| Physical | Dimensions (WxHxD) | 98 mm x 89.8 mm x 198 mm (3.9" x 3.5" x 7.8") | | 2.8 mm (4.4" x 3.8" x 8.8") | |
| iyoloul | Weight | 1,180 g (2.6lb) | 1,280 g | (2.8lb) | |
| | | | | | |

^{*} Product will start to provide RTP and RTSP after September, 2006.

ORDERING INFORMATION

| Model Number | NTSC | PAL | SONY Super HAD | SONY ExviewHAD | DC 12 V | AC 24V | Heater |
|--------------|------|-----|----------------|----------------|---------|--------|--------|
| CAM-5130N | V | | v | | V | | |
| CAM-5130P | | V | V | | V | | |
| CAM-5131N | V | | v | | | V | |
| CAM-5131P | | v | v | | | ٧ | |
| CAM-5140N | V | | | v | V | | |
| CAM-5140P | | v | | v | V | | |
| CAM-5143N | V | | | v | | v | V |
| CAM-5143P | | V | | v | | ٧ | V |
| CAM-5150N | v | | v | | V | | |
| CAM-5150P | | V | v | | V | | |
| CAM-5153N | V | | v | | | v | V |
| CAM-5153P | | V | V | | | v | ٧ |

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



MPEG-4 Real-time Network Streaming 100X IP Zoom Camera

CAM-5500 Series



- 1/4" SONY Super HAD / EXviewHAD with 470K/410K pixels
- Built-in auto focus / auto iris / 10X optical zoom lens with 10X digital zooms
- Min. 0.01 Lux at F=1.8 (64x sense up, 30 IRE, SAGC ON)
- Backlight Compensation, Motion Detection, Masking and Auto White Balance supported
- · Digital P/T/Z function
- Pictures freeze function by field or frame mode
- · Auto zooming while motion detection event triggered
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Two-way audio supported





2 Digital input/output

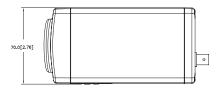
3 Composite video output

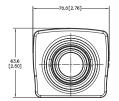
WAN port

6 LAN port

6 DC 12 V power input

DIMENSION DIAGRAM











CAM-5500 Series

PRODUCT SPECIFICATION

| | | CAM-5500 | CAM-5520 | | | | |
|-----------------|-------------------------------|--|--|--|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | | |
| | Size | 1/4 i | inch | | | | |
| Image | Effective Pixels (HxV) | 811 x 508 (NTSC); 795 x 596 (PAL) | | | | | |
| | Horizontal Resolution | 500 TVL | | | | | |
| | Color | 0.5 Lux at F1.8 (30 IRE, SAGC) | 0.1 Lux at F1.8 (30 IRE, SAGC) | | | | |
| Horizontal | | 0.1 Lux at F1.8 (30 IRE, SAGC) | 0.02 Lux at F1.8 (30 IRE, SAGC) | | | | |
| Resolution | B/W | 0.01 Lux at F1.8 (64x sense up, 30 IRE, SAGC) | 0.002 Lux at F1.8 (64x sense up, 30 IRE, SAGC) | | | | |
| | IR Sensitivity | From 700 nm | n to 1100 nm | | | | |
| | Focal Length | 4.2 ~ 4 | 12 mm | | | | |
| l ana | Zoom Ratio | 100x (10x optical 8 | k 10x digital zoom) | | | | |
| Lens | Aperture Ratio | F1 | .8 | | | | |
| | Digital P/T/Z | Zoom 0~10, PAN 72° ~ -72° | , Tilt 54° ~ -54°, Wide 8 ~80 | | | | |
| Synchronization | Sync. System | Internal / | line lock | | | | |
| | Diagonal Angle | 3.7° ~ 36° (| | | | | |
| | Zoom Speed | 1.6 s | • | | | | |
| | Motion Detection | Yes (48 zones, le | | | | | |
| | Electronic Shutter | 1/60 ~ 1/100,000 sec. (NTSC) | | | | | |
| | Fixed Shutter | 1/100, 1/250, 1/500, 1/1000 | . , | | | | |
| | BLC | Auto ON/OFF, 48 Zones | | | | | |
| Functions | AGC | Super AGC | | | | | |
| unctions | White Balance | | | | | | |
| | Camera ID | ATW/AWB/Indoor/Outdoor/Manual Max. 20 characters | | | | | |
| | | Max. 20 characters | | | | | |
| | Number of Privacy Zone | 4 10x | | | | | |
| | Digital Zoom | | | | | | |
| | Sense Up | 2x ~ 64x sense | • • | | | | |
| | Number of Preset | 64 preset memory po | , | | | | |
| S/N Ratio | S/N Ratio | Better that | | | | | |
| | Compression | MPEG-4 AS | · | | | | |
| Video | Picture Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL); CIF (352 x 240 in NT | | | | | |
| (Compression) | Bit Rate | 28 K ~ 3 | · | | | | |
| | Image Frame Rate | 30 fps at full D1 resolution (NTSC) | . , | | | | |
| Video Output | Multi-stream Composite Output | Up to 4 configurable frame rate/bit rat CVBS, 1.0Vp-p with 75 Ω | | | | | |
| video Odipui | | | • | | | | |
| Audio Input | Compression | 8kHz, Mo | | | | | |
| | Audio Line Input | Unbalanced, 1.4Vp-p, | | | | | |
| Audio Output | Compression | 8kHz, Mo | | | | | |
| | Audio Line Output | Unbalanced, 1.4Vp-p. | | | | | |
| Alarm | Input | 1, TTL, terr | | | | | |
| | Output | 1, TTL, terr | | | | | |
| External I/O | Reset Button | Factory | | | | | |
| | LED | System | | | | | |
| | LAN Port | Ethernet (10/100Base | | | | | |
| Network | WAN Port | Ethernet (10/100Base | | | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PF | PPoE, RTP, RTSP, FTP, SMTP | | | | |
| | Web Browser | Microsoft Internet Explorer 6.0 or above | | | | | |
| Software | SDK | ActiveX control, C SDK | | | | | |
| | Security | Password protection : confi | igured by the administrator | | | | |
| Operating | Temperature | 5 ~ 50 °C (4 | 0 ~ 122 °F) | | | | |
| Power | Power Requirement | DC 12 V ±10% (CAM-5500) PoE (IEEE802.3af) with Class 3 (CAM-5501) | DC 12 V ±10% (CAM-5520) PoE (IEEE802.3af) with Class 3 (CAM-5521) | | | | |
| | Power Consumption | 9, | W | | | | |
| Dhysical | Dimensions (WxHxD) | 70.0 mm x 63.6 mm x 138.6 | 6 mm (2.76" x 2.50" x 5.46") | | | | |
| Physical | Weight | 520 g (1.2 lb) | | | | | |

ORDERING INFORMATION

| Model Number | NTSC | PAL | Audio | D & N | DC 12 V | DC 12 V / PoE |
|--------------|------|-----|-------|-------|---------|---------------|
| CAM-5500N | V | | V | | V | |
| CAM-5500P | | V | V | | V | |
| CAM-5501N | ٧ | | V | | | ٧ |
| CAM-5501P | | V | V | | | ٧ |
| CAM-5520N | V | | V | V | V | |
| CAM-5520P | | V | V | V | V | |
| CAM-5521N | V | | V | V | | ٧ |
| CAM-5521P | | V | V | V | | ٧ |

^{*} All specifications are subject to change without notice.
* All brand names and registered trademarks are the property of their respective owners.



IP Fixed Dome













| | | | Indoor Fix | ked Dome | | Outdoor | Fixed Dome |
|----------------------------|-----------------------|--|--|--|--|--|--|
| Model Nam | ıe | CAM-7100 Series | | CAM-7200 Series | CAM-7220 Series | CAM-7300 Series | CAM-7320 Series |
| Туре | | IP indoor fixed dome | IP indoor D/N fixed dome | IP indoor fixed dome | IP indoor D/N fixed dome | IP outdoor fixed dome | IP outdoor fixed D/N dome |
| Compression | | MPEG-4 ASP |
| 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 | 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 | 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 |
| FPS (NTSC/P/ | AL) | 30/25 | 30/25 | 30/25 | 30/25 | 30/25 | 30/25 |
| Max. Video Resolution | | 720 x 480 (NTSC) 720 x 576 (PAL) |
| Bit Rate | | 28 K ~ 3 M bps | $28 \text{K} \sim 3 \text{M} \text{bps}$ | 28 K ~ 3 M bps | 28 K ~ 3 M bps | 28 K ~ 3 M bps | $28 \mathrm{K} \sim 3 \mathrm{M} \mathrm{bps}$ |
| Image Sensor | | 1/3" Super HAD | 1/3" EXviewHAD | 1/3" Super HAD | 1/3" EXviewHAD | 1/3" Super HAD | 1/3" EXviewHAD |
| Lens | | 3.5 ~ 8 mm | 3.5 ~ 8 mm | 3.8 ~ 9.5 mm | 3.8 ~ 9.5 mm | 3.8 ~ 9.5 mm | 3.8 ~ 9.5 mm |
| Camera Angle Adjustment |) | X (Panning): ±180° Y (Tilting): 90° Z (Rotating): 360° | X (Panning): ±180° Y (Tilting): 90° Z (Rotating): 360° | X (Panning): ±180° Y (Tilting): 90° | X (Panning): ±180° Y (Tilting): 90° | X (Panning): ±150° Y (Tilting): 90° | X (Panning): ±150° Y (Tilting): 90° |
| Day/Night | | None | Yes | None | Yes | None | Yes |
| Audio | | 1 way | 1 way | 1 way | 1 way | 2 way | 2 way |
| Alarm Input/O | utput | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 |
| Motion Detecti Support | ion | Yes | Yes | Yes | Yes | Yes | Yes |
| Min. Illumination | on | 0.5 Lux | 0.14 Lux | 0.15 Lux | 0.05 Lux | 0.15 Lux | 0.05 Lux |
| Analog Video | Output | Yes | Yes | Yes | Yes | Yes | Yes |
| Ethernet Netw | orks/ | 10/100Base-T x2 for LAN/WAN |
| Failover | | Yes | Yes | Yes | Yes | Yes | Yes |
| Protocol | | TCP, UDP, RTP, RTSP |
| Casing | | Vandal proof, durability up to 702 KgF | Vandal proof, durability up to 702 KgF | | | Vandal proof, durability up to 702 KgF IP66 weatherproof dome casing | Vandal proof, durability up to 702 KgF IP66 weatherproof dome casing |
| Mounting Option | ions | Flush* | Flush* | Flush*/Surface/ Wall | Flush*/Surface/ Wall | Flush/Surface*/ Wall | Flush/Surface*/ Wall |
| С | DC 12 V | Yes (CAM-7100) | Yes (CAM-7120) | Yes (CAM-7200) | Yes (CAM-7220) | Yes (CAM-7300) | Yes (CAM-7320) |
| Requirement 8 | PoE (IEEE 302.3af) | Yes (CAM-7101) | Yes (CAM-7121) | Yes (CAM-7201) | Yes (CAM-7221) | Yes (CAM-7301) | Yes (CAM-7321) |
| А | AC 24 V | Yes (CAM-7102) | Yes (CAM-7122) | None | None | Yes (CAM-7302) | Yes (CAM-7322) |

^{*} Flush mount is identical to in-ceiling mount.

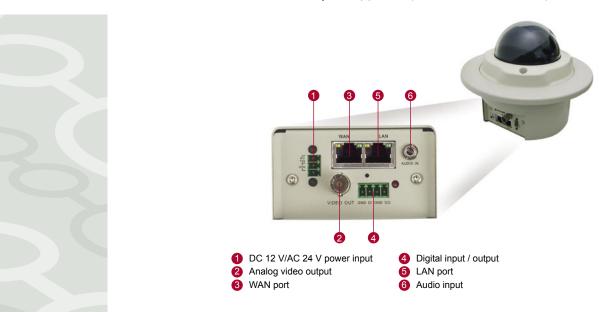
ę.

MPEG-4 Real-time Network Streaming Indoor IP Rugged Dome

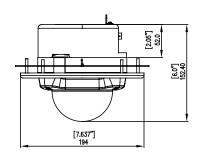
CAM-7100 Series

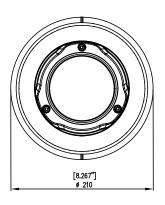


- 1/3" SONY Super HAD / EXviewHAD CCD with 440K/380K pixels
- Min. 0.14 Lux at F=1.6 (30 IRE, SAGC ON)
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- · Vandal proof
- Flush mount
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · One-way audio supported
- Power Over Ethernet (IEEE 802.3af) supported (CAM-7101/CAM-7121) or AC 24V power source supported (CAM-7102/CAM-7122)



DIMENSION DIAGRAM





^{*} All specifications are subject to change without notice.

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



PRODUCT SPECIFICATION

| | | CAM-7100 | | | | | |
|---------------|------------------------|---|---|--|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY ExviewHAD CCD | | | | |
| | Size | 1/3 in | ch | | | | |
| age | Effective Pixels (HxV) | 811 x 508 (NTSC); 795 x 596 (PAL) | | | | | |
| | Horizontal Resolution | 480 T | VL | | | | |
| n. Scene | Color | 0.5 Lux at F1.2 (30 IRE, SAGC ON) | 0.4 Lux at F1.6 (30 IRE, SAGC ON) | | | | |
| ımination | B/W | N/A | 0.14 Lux at F1.6 (30 IRE, SAGC ON) | | | | |
| | Focal Length | 3.5 ~ 8 | mm | | | | |
| ns | Lens Mount | Board I | ens | | | | |
| | X (Panning) | ± 180 |)° | | | | |
| mera Angle | Y (Tilting) | 90° | | | | | |
| ljustment | Z (Rotating) | 360° | | | | | |
| nchronization | Sync. System | Internal / Line-lock (CAM-7102) | Internal / Line-lock (CAM-7122) | | | | |
| | Motion Detection | Yes (3 win | , , | | | | |
| | Electronic Shutter | 1/60 ~ 1/10,000 sec. (NTSC); | · | | | | |
| | Fixed Shutter | 1/60, 1/100, 1/250, 1/500, 1/1000, 1/2 1/50, 1/120, 1/250, 1/500, 1/1000, 1/2 | 000, 1/4000, 1/10,000 sec. (NTSC) | | | | |
| nctions | BLC | Auto detect ON/OFF; Histogram p | | | | | |
| HOUDIN | AGC | Auto Gain 0 | • | | | | |
| | White Balance | ATW (2500°K ~ 950 | | | | | |
| | Flickerless | 1/100 sec. (NTSC); 1/120 | • | | | | |
| | Auto iris control | 1/60 sec. (NTSC); | | | | | |
| N Ratio | S/N Ratio | Better than | , , | | | | |
| | Compression | MPEG-4 ASP | compliant | | | | |
| deo | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NTS | | | | | |
| ompression) | Bit Rate | 28 K ~ 3 | | | | | |
| | Multi-stream | Up to 4 configurable frame rate/bit rate | streams for preview and recording | | | | |
| deo Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω l | oading, BNC connector | | | | |
| | Compression | 8 kHz, Mon | io, PCM | | | | |
| dio Input | Audio Line input | Unbalanced, 1.4 Vpp, 1 | IVrms, 3.5 mm Jack | | | | |
| | Input | 1, TTL, termi | inal block | | | | |
| arm | Output | 1, TTL, termi | inal block | | | | |
| | Reset Button | Factory d | lefault | | | | |
| ternal I/O | LED | System s | status | | | | |
| | Vandal Proof | Vandal proof supports, du | rability up to 702 KgF | | | | |
| asing | Mount Types | Flusi | | | | | |
| | LAN Port | Ethernet(10/100Base-1 | Γ), RJ-45 connector | | | | |
| etwork | WAN Port | Ethernet(10/100Base-1 | Γ), RJ-45 connector | | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PPF | PoE, RTP, RTSP, FTP, SMTP | | | | |
| | Web Browser | Microsoft Internet Exp | olorer 6.0 or above | | | | |
| ftware | SDK | ActiveX contr | ol, C SDK | | | | |
| | Security | Password protection : config | ured by the administrator | | | | |
| perating | Temperature | 5 ~ 50 °C (40 | • | | | | |
| wer | Power Requirement | DC 12 V ±10% (CAM-7100) PoE (IEEE802.3af) with Class 3 (CAM-7101) AC 24 V ±10% (CAM-7102) | DC 12 V ±10% (CAM-7120) PoE (IEEE802.3af) with Class 3 (CAM-7121) AC 24 V ±10% (CAM-7122) | | | | |
| | Power Consumption | 9 w | | | | | |
| | Dimensions (ØxH) | 210 mm x 152.4 m | m (8.27" x 6.0") | | | | |
| hysical | Weight | 1,310 g (2.9lb) | | | | | |

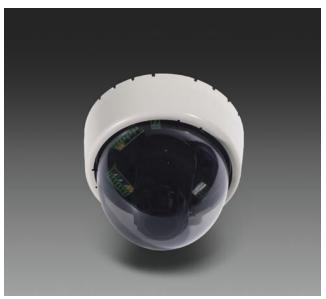
ORDERING INFORMATION

| Model Name | NTSC | PAL | D&N | DC 12 V | DC 12 V / PoE | DC 12 V / AC 24 V |
|------------|------|-----|-----|---------|---------------|-------------------|
| CAM-7100N | V | | | V | | |
| CAM-7100P | | V | | V | | |
| CAM-7101N | V | | | | V | |
| CAM-7101P | | V | | | V | |
| CAM-7102N | V | | | | | V |
| CAM-7102P | | V | | | | V |
| CAM-7120N | V | | V | V | | |
| CAM-7120P | | V | V | V | | |
| CAM-7121N | V | | V | | V | |
| CAM-7121P | | V | V | | V | |
| CAM-7122N | V | | V | | | V |
| CAM-7122P | | V | V | | | V |

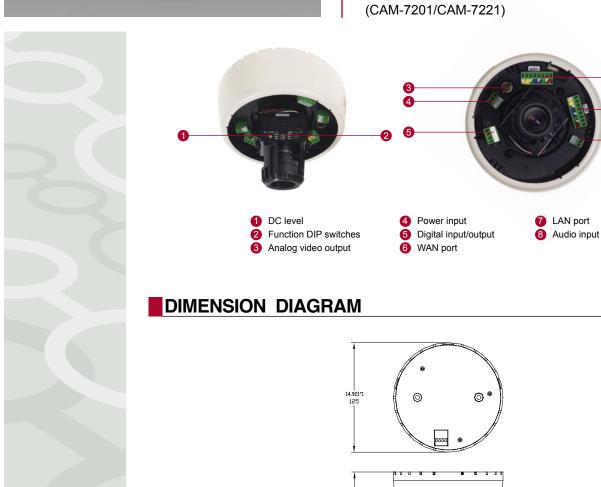
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MPEG-4 Real-time Network Streaming Indoor IP Dome

CAM-7200 Series



- 1/3" SONY Super HAD / EXviewHAD CCD with 470K/410K pixels
- Min. 0.05 Lux at F=1.2 (30 IRE, SAGC ON)
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- · Surface, Flush and Wall mount supported
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) video streaming
- · One-way audio supported
- Power Over Ethernet (IEEE 802.3af) supported (CAM-7201/CAM-7221)



^{*} All specifications are subject to change without notice.

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

CAM-7200 Series

PRODUCT SPECIFICATION

| | | CAM-7200 | CAM-7220 | | | |
|---------------------------|------------------------|--|--|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | |
| | Size | 1/3 | inch | | | |
| mage | Effective Pixels (HxV) | 811 x 508 (NTSC |); 795 x 596 (PAL) | | | |
| | Horizontal Resolution | | TVL | | | |
| | Color | 0.15 Lux at F1.2 (30 IRE, SAGC ON) | Color mode automaticall switched to B/W mode under 4 Lux | | | |
| Min. scene Ilumination | B/W | N/A | 0.05 Lux at F1.2 (30 IRE, SAGC ON) | | | |
| numination | IR Sensitivity | N/A | from 700 nm to 1100 nm | | | |
| | Focal Length | 3.8~9 | 9.5 mm | | | |
| .ens | Lens Mount | Board | d lens | | | |
| Camera Angle | X (Panning) | ± 180° | ± 180° | | | |
| Adjustment | Y (Tilting) | 90° | 90° | | | |
| Synchronization | Sync. System | Internal / | Line-lock | | | |
| Day/Night Functions | Day/Night Switching | N/A | Mechanical IR cut filter: auto; color / monochrome | | | |
| | Motion Detection | Yes (3 w | vindows) | | | |
| | Electronic Shutter | 1/60 ~ 1/100,000 sec. (NTSC); 1/50 ~ 1/100,000 sec. (PAL) | | | | |
| | BLC | On / Off (S | Switchable) | | | |
| unctions | AGC | On / Off (Switchable) | On / Off (Switchable) Turning off AGC wil disable D&N function | | | |
| | White Balance | AWB / PWB | (switchable) | | | |
| | Flickerless | On / Off (switchable) | | | | |
| | Auto Iris Control | Video / DC | (switchable) | | | |
| S/N Ratio | S/N Ratio | Better th | an 50 dB | | | |
| | Compression | MPEG-4 AS | SP compliant | | | |
| /ideo (Compression) | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NTSC, 352x288 in PAL); QCIF (160x112 in NTSC, 176x144 in PAL) | | | | |
| rideo (compression) | Bit Rate | 28 K ~ 3 M bps | | | | |
| | Multi-stream | Up to 4 Configurable frame rate/bit ra | ate streams for preview and recording | | | |
| /ideo Output | Composite Output | CVBS, 1.0Vp-p with 75 C | Ω loading, BNC connector | | | |
| Audio Input | Compression | 8 kHz, Mono, PCM | | | | |
| Audio Iriput | Audio Line Input | Unbalanced, 1.4 Vp-p | o, 1Vrms, 3.5 mm Jack | | | |
| Alarm | Input | 1, TTL, ten | minal block | | | |
| Alaim | Output | 1, TTL, ten | minal block | | | |
| External I/O | Reset Button | Factory | / default | | | |
| External I/O | LED | System | n status | | | |
| Casing | Mount Types | Surface / F | Flush / Wall | | | |
| | LAN Port | Ethernet(10/100 Ba | se-T), terminal block | | | |
| Network | WAN Port | Ethernet(10/100 Ba | se-T), terminal block | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, P | PPoE, RTP, RTSP, FTP, SMTP | | | |
| | Web Browser | Microsoft Internet E | explorer 6.0 or above | | | |
| Software | SDK | ActiveX cor | ntrol, C SDK | | | |
| | Security | Password Protection: configured by the administrator | | | | |
| Operating | Temperature | 5 ~ 50 °C (4 | 40 ~ 122 °F) | | | |
| Power | Power Requirement | DC 12 V ±10% (CAM-7200) PoE (IEEE802.3af) with Class 3 (CAM-7201) | DC 12 V ±10% (CAM-7220) PoE (IEEE802.3af) with Class 3 (CAM-7221) | | | |
| | Power Consumption | 7.4 | 4 W | | | |
| | Dimensions (ØxH) | 125 mm x 108.81 | mm (4.92" x 4.28") | | | |
| Physical | Weight | 1,020 g | (2.25 lb) | | | |
| | - | 1 | | | | |

ORDERING INFORMATION

| Model Name | NTSC | PAL | D & N | DC 12 V | DC 12 V / POE |
|------------|------|-----|-------|---------|---------------|
| CAM-7200N | V | | | V | |
| CAM-7200P | | V | | V | |
| CAM-7201N | V | | | | V |
| CAM-7201P | | V | | | V |
| CAM-7220N | V | | V | V | |
| CAM-7220P | | V | V | V | |
| CAM-7221N | V | | V | | V |
| CAM-7221P | | V | V | | V |

ACCESSORY OPTIONS

· Wall mount kit

MTB-201 MTB-503





MTB-201

MTB-503

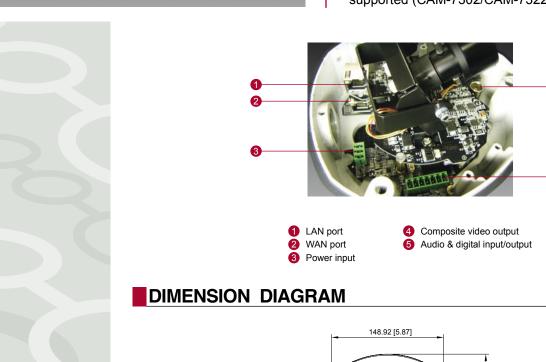
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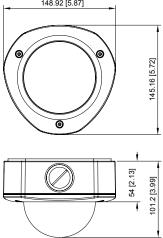
MPEG-4 Real-time Network Streaming Outdoor IP Rugged Dome

CAM-7300 Series



- 1/3" SONY Super HAD / EXviewHAD CCD with 440K/380K pixels
- Min. 0.05 Lux at F=1.2 (30 IRE, SAGC ON)
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- Heavy-duty, weatherproof and vandal proof with IP66 protection
- · Surface, Flush and Wall mount supported
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) video streaming
- · Two-way audio supported
- Power Over Ethernet (IEEE 802.3af) supported (CAM-7301/CAM-7321), or AC 24 V power source supported (CAM-7302/CAM-7322)





^{*} All specifications are subject to change without notice.

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

CAM-7300 Series

PRODUCT SPECIFICATION

| | | CAM-7300 | CAM-7320 | | | | |
|---------------------|------------------------|---|---|--|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | | |
| | Size | 1/3 i | nch | | | | |
| mage | Effective Pixels (HxV) | 768 x 494 (NTSC) | ; 752 x 582 (PAL) | | | | |
| · | Horizontal Resolution | 540 | . , | | | | |
| | Multi-stream | | te streams for preview and recording | | | | |
| | Color | 0.15 Lux at F1.2 (30IRE, SAGC) | Color mode automatically switched to B/W mode under 4 Lu | | | | |
| Min. Scene | B/W | N/A | 0.05 Lux at F1.2 (30IRE, SAGC ON) | | | | |
| llumination | IR Sensitivity | N/A | from 700nm to 1100nm | | | | |
| | Focal Length | 3.8~9 | | | | | |
| _ens | Lens Mount | Board | | | | | |
| Camera Angle | X (Panning) | ± 1! | 50° | | | | |
| Adjustment | Y (Tilting) | 90° (The adjust angl | | | | | |
| Synchronization | Sync. System | Inte | • | | | | |
| Day/Night Functions | Day/Night Switching | N/A | Internal auto switching | | | | |
| undon | Motion Detection | Yes (3 w | • | | | | |
| | Electronic Shutter | | • | | | | |
| unctions | BLC | AES On: 1/60 ~ 1/100,000 sec. (NTSC); 1/50 ~ 1/100,000 sec. (PAL); AES Off: 1/60 sec. (NTSC); 1/50 sec. (PAL) On / Off (switchable) | | | | | |
| | AGC | On / Off (switchable) | | | | | |
| | White Balance | AWB | | | | | |
| | Auto Iris Control | Video / DC (| (switchable) | | | | |
| S/N Ratio | S/N Ratio | Better than 50 | dB (AGC off) | | | | |
| | Compression | MPEG-4 AS | P compliant | | | | |
| Video (Compression) | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NT | SC, 352x288 in PAL); QCIF (160x112 in NTSC, 176x144 in PAL) | | | | |
| | Bit Rate | 28 K ~ 3 | 3M bps | | | | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | | | | | |
| | Compression | 8kHz, Mo | no, PCM | | | | |
| Audio Input | Audio Line Input | Unbalanced, 1.4 Vp-p, | 1Vrms, terminal block | | | | |
| | Compression | 8kHz, Mo | no, PCM | | | | |
| Audio Output | Audio Line Input | Unbalanced, 1.4 Vp-p, | 1Vrms, terminal block | | | | |
| | Input | 1, TTL, terr | minal block | | | | |
| Alarm | Output | 1, TTL, terr | ninal block | | | | |
| External I/O | Reset Button | Factory | default | | | | |
| | IP66 Rated | Weatherproof casing | with IP66 standard | | | | |
| Casing | Vandal Proof | Vandal proof supports, o | durability up to 702 KgF | | | | |
| ŭ | Mount Types | Surface / F | | | | | |
| | LAN Port | Ethernet (10/100Base-T), RJ-45 connector | | | | | |
| Network | WAN Port | Ethernet (10/100Base | | | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PI | | | | | |
| | Web Browser | Microsoft Internet Ex | | | | | |
| Software | SDK | ActiveX con | • | | | | |
| | Security | Password Protection : Conf | | | | | |
| | Heater | Ye | | | | | |
| Operating | Temperature | -30 ~ 50 °C (| | | | | |
| Power | Power Requirement | DC 12 V ±10% (CAM-7300) PoE (IEEE802.3af) with Class 3 (CAM-7301) AC 24 V ±10% (CAM-7302) | DC 12 V ±10% (CAM-7320) PoE (IEEE802.3af) with Class 3 (CAM-7321) AC 24 V ±10% (CAM-7322) | | | | |
| | Power Consumption | 91 | , , | | | | |
| | Dimensions (ØxH) | 148.92 mm x 101.2 | mm (5.87" x 3.99") | | | | |
| Physical | Weight | 1,145 g | | | | | |
| | | 1,140 9 | · · · / | | | | |

ORDERING INFORMATION

| Model Name | NTSC | PAL | D&N | DC 12 V | DC 12 V / PoE | DC 12 V / AC 24 V |
|------------|------|-----|-----|---------|---------------|-------------------|
| CAM-7300N | V | | | V | | |
| CAM-7300P | | V | | V | | |
| CAM-7301N | V | | | | V | |
| CAM-7301P | | V | | | V | |
| CAM-7302N | V | | | | | V |
| CAM-7302P | | V | | | | V |
| CAM-7320N | V | | V | V | | |
| CAM-7320P | | V | V | V | | |
| CAM-7321N | V | | V | | V | |
| CAM-7321P | | V | V | | V | |
| CAM-7322N | V | | V | | | V |
| CAM-7322P | | V | V | | | V |

ACCESSORY OPTIONS

Wall mount kit
 0695-

Flush mount kit

0695-00019-000 0695-00018-000





0695-00019-000

0695-00018-000



IP Speed Dome









| | IP Indoor/Outdoo | r High Speed Dome | IP Indoor/Outdoor | r Speed Dome |
|----------------------------------|--|--|--|--|
| Model Name | CAM-6100 | CAM-6110 | CAM-6200 | CAM-6220 |
| Гуре | IP high speed dome | IP D/N high speed dome | IP indoor speed dome | IP D/N speed dome |
| Compression | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP |
| 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 | 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 |
| FPS (NTSC/PAL) | 30/25 | 30/25 | 30/25 | 30/25 |
| Max. Video Resolution | 720 x 480(NTSC) 720 x 576(PAL) |
| Bit Rate | 28 K ~ 3 M bps |
| mage Sensor | 1/4" Super HAD | 1/4" EXviewHAD | 1/4" Super HAD | 1/4" Super HAD |
| Zoom | 18x optical; 12x digital | 18x optical; 12x digital | 22x optical; 16x digital | 27x optical; 10x digital |
| PTZ Control | Yes | Yes | Yes | Yes |
| Tilting Range | 92° | 92° | 90° | 90° |
| Tilting Speed | Manual: 0.1°~45° / sec. Preset: 200° / sec. | Manual: 0.1°~45° / sec. Preset: 200° / sec. | 0.5° / sec.~ 50° / sec. Vari-speed | 0.5° / sec.~ 50° / sec. Vari-speed |
| Panning Range | 360° endless | 360° endless | 360° endless | 360° endless |
| Panning Speed | Manual: 0.1°~90° / sec. Turbo: 150° / sec. Preset: 300° / sec. | Manual: 0.1°~90° / sec. Turbo: 150° / sec. Preset: 300° / sec. | 0.5° / sec.~ 50° / sec. Vari-speed | 0.5° / sec.~ 50° / sec. Vari-speed |
| Absolute Position | Yes | Yes | None | None |
| Wide Dynamic Range | None | None | None | None |
| Day/Night | None | Yes | None | Yes |
| Audio | None | None | None | None |
| Serial Port | RS-485 | RS-485 | RS-485 | RS-485 |
| Alarm Input/Output | 2/2 | 2/2 | None | None |
| Motion Detection Support | Yes | Yes | Yes | Yes |
| Min. Illumination | 1.5 Lux | 0.01 Lux | 1.0 Lux | 0.1 Lux |
| Analog Video Composite Output | Yes | Yes | Yes | Yes |
| Casing | IP66 weatherproof dome casing | IP66 weatherproof dome casing | IP66 weatherproof dome casing | IP66 weatherproof dome casing Vandal proof (option) |
| Ethernet Networks | 10/100Base-T x2 for LAN/ WAN | 10/100Base-T x2 for LAN/ WAN | 10/100Base-T x2 for LAN/ WAN | 10/100Base-T x2 for LAN WAN |
| Failover | Yes | Yes | Yes | Yes |
| Protocol | TCP, UDP | TCP, UDP | TCP, UDP, RTP, RTSP | TCP, UDP, RTP, RTSP |
| mage Stabilizer | None | None | None | None |
| Mounting Options | Surface/Flush**/ Wall/Pole/Corner/Outdoor Ceiling | Surface/Flush**/ Wall/Pole/Corner/Outdoor Ceiling | Surface/ Flush** | Surface/Flush**/ Wall/Pole/Corner/Outdoo Ceiling |
| Power Requirement | AC 24 V | AC 24 V | DC 12 V | Outdoor: AC 110 V or AC 22 Indoor: DC 12 V |

^{*} Only Pan/Tilt absolute position is supported. ** Flush mount is identical to in-ceiling mount.

IP Speed Dome













| IP In | door High Speed D | ome | IP Ou | tdoor High Speed | Dome |
|--|--|--|--|--|--|
| CAM-6500 | CAM-6510 | CAM-6520 | CAM-6600 | CAM-6610 | CAM-6620 |
| IP indoor high speed dome | IP indoor D/N high speed dome | IP indoor D/N high speed dome with WDR | IP outdoor high speed dome | IP outdoor D/N high speed dome | IP outdoor D/N high speed dome with WDR |
| MPEG-4 ASP |
| 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 | 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 | 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 |
| 30/25 | 30/25 | 30/25 | 30/25 | 30/25 | 30/25 |
| 720 x 480(NTSC) 720 x 576(PAL) |
| 28 K ~ 3 M bps |
| Progressive 1/4" | 1/4" EXviewHAD | Progressive 1/4" | Progressive 1/4" | 1/4" EXviewHAD | Progressive 1/4" |
| 22x optical; 12x digital | 18x optical; 12x digital | 23x optical; 12x digital | 22x optical; 12x digital | 18x optical; 12x digital | 23x optical; 12x digital |
| Yes | Yes | Yes | Yes | Yes | Yes |
| -10° ~ 100° | -10° ~ 190° | -10° ~ 190° | -10° ~ 100° | -10° ~ 190° | -10° ~ 190° |
| 5° / sec.~ 400° / sec. |
| 360° endless |
| 5° / sec.~ 400° / sec. |
| Yes* | Yes | Yes* | Yes* | Yes | Yes* |
| None | None | Yes | None | None | Yes |
| None | Yes | Yes | None | Yes | Yes |
| 2 way |
| None | None | None | None | None | None |
| Yes (option) |
| Yes | Yes | Yes | Yes | Yes | Yes |
| 3 Lux | 0.005 Lux | 0.02 Lux | 3 Lux | 0.005 Lux | 0.02 Lux |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Vandal proof cover (option) | Vandal proof cover (option) | Vandal proof cover (option) | IP66 weatherproof dome casing Vandal proof cover (option) | IP66 weatherproof dome casing Vandal proof cover (option) | IP66 weatherproof dome casing Vandal proof cover (option) |
| 10/100Base-T x2 for LAN/WAN |
| Yes | Yes | Yes | Yes | Yes | Yes |
| TCP, UDP, RTP, RTSP None |
| Surface/Flush**/Wall/ Pole/Corner | Surface/Flush**/Wall/ Pole/Corner | Surface/Flush**/Wall/ Pole/Corner | Wall/Pole/Corner/ Outdoor Ceiling | Wall/Pole/Corner/ Outdoor Ceiling | Wall/Pole/Corner/ Outdoor Ceiling |
| AC 24 V |



CAM-6100 Series

MPEG-4 Real-time IP High Speed Dome



- 1/4" SONY Super HAD / EXviewHAD with 440K/380K pixels
- Min. 0.05 Lux at F1.4 (30 IRE, AGC on)
- 216X zoom: 18X optical zoom and 12X digital zoom
- Day & Night (CAM-6110)
- · Absolute Position
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) for video streaming
- Remote Pan/Tilt/Zoom control











Indoor Flush mount







Speed dome module

Indoor housing

^{*} All specifications are subject to change without notice.

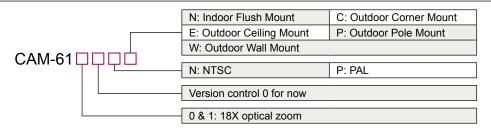
^{*} All brand names and registered trademarks are the property of their respective owners.



PRODUCT SPECIFICATION

| | | CAM-6100 | CAM-6110 | | | | | |
|----------------------------|------------------------|---|---|--|--|--|--|--|
| | Device | Interline Transfer SONY Super HAD CCD | Interline Transfer SONY EXviewHAD CCD | | | | | |
| | Size | 1/4 in | nch | | | | | |
| Image | Effective Pixels (HxV) | 768 x 494 (NTSC); 720 x 576 (PAL) | | | | | | |
| | Horizontal Resolution | 480 T | VL | | | | | |
| | Color | 1.5 Lux at F1.4 (30 IRE, AGC on) | 0.7 Lux at F1.4 (30 IRE, AGC on) | | | | | |
| Min. scene Illumination | | | Slow shutter mode: 0.05 Lux at F1.4 (30 IRE, AGC on) | | | | | |
| illullillation | B/W | N/A | Night mode: 0.01 Lux at F1.4 (30 IRE, AGC on) | | | | | |
| | Focal Length | 4.1 ~ 73. | .8 mm | | | | | |
| | Zoom ratio | 18X | | | | | | |
| Lens | Aperture Ratio | F1.4 (Wide), F | F3.0 (Tele) | | | | | |
| 20110 | Diagonal Angle | 48° (W) ~ 2 | 2.8° (T) | | | | | |
| | Zoom Speed | 7.5 se | ec. | | | | | |
| | Digital Zoom | 12X (up to 216X wi | | | | | | |
| Synchronization | Sync. System | Internal/lir | ne lock | | | | | |
| Day/Night Functions | Day/Night Switching | N/A | Auto / manual | | | | | |
| | Motion Detection | Yes (3 wir | • | | | | | |
| | Electronic Shutter | Auto 1/60 to 1/100,000 sec. (NTSC); | • • | | | | | |
| | Fixed Shutter | Manual 16 steps 1/60 to 1/10000 sec. (NTSC) Manual 16 steps 1/50 to 1/10000 sec. (PAL) | Manual 22 steps 1/1 to 1/10000 sec. (NTSC) Manual 22 steps 1/1 to 1/10000 sec. (PAL) | | | | | |
| | Auto Slow Shutter | N/A | On (max 1/1 sec.) / Off | | | | | |
| | BLC | On / C | Off | | | | | |
| | AGC | Auto | | | | | | |
| | Auto Exposure Control | Auto / manual / backlight compensation | | | | | | |
| Franklana | Auto Exposure | -10.5 ~ +10.5 dB (15 steps) | | | | | | |
| Functions | Compensation | | | | | | | |
| | White Balance | AWB / ATW / PWB | | | | | | |
| | Camera ID | Max. 20 characters | | | | | | |
| | Number of Privacy Zone | 8 | | | | | | |
| | Number of Preset | 64 points | | | | | | |
| | Flickerless | 1/100 sec. (NTSC); 1/120 ~ 1/100,000 sec. (PAL) | | | | | | |
| | Auto Iris Control | Auto / ma | anual | | | | | |
| | Cruise | 4 | | | | | | |
| | Absolute Position | Yes | | | | | | |
| S/N Ratio | S/N Ratio | Better than 50 c | • • | | | | | |
| | Compression | MPEG-4 ASP | • | | | | | |
| Video (Compression) | Picture Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL); CIF (352 x 240 in NTS | | | | | | |
| (Compression) | Bit Rate | 28 K ~ 3 | • | | | | | |
| Video Outro | Multi-stream | Up to 4 configurable frame rate/bit rate | | | | | | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω l | • | | | | | |
| Alarm | Input | 2, TTL, termi 2, TTL, termi | | | | | | |
| | Output Reset Button | z, ITE, termi | | | | | | |
| External I/O | LED Reset Button | · | | | | | | |
| | LAN Port | System/pow Ethernet(10/100 Base- | | | | | | |
| Network | WAN Port | Ethernet(10/100 Base- | • | | | | | |
| HOLWOIN | Protocol | TCP, UDP, IP, HTTP, DHCP, PPF | | | | | | |
| | Web Browser | Microsoft Internet Exp | | | | | | |
| Software | SDK | ActiveX contr | | | | | | |
| Continuio | Security | Password Protection : config | | | | | | |
| Operating | Temperature | 5 ~ 50 °C (40 | • | | | | | |
| operating | Power Requirement | AC 24 | | | | | | |
| Power | Power Consumption | Outdoor: 57 W; | | | | | | |
| | Dimensions (ØxH) | 134 mm x 233.7 m | | | | | | |
| Physical | Weight | 1,750 g (| , , | | | | | |
| | ***Olgrit | 1,750 g (| 0.0 10) | | | | | |

ORDERING INFORMATION



MPEG-4 Real-time Entry-level IP Speed Dome

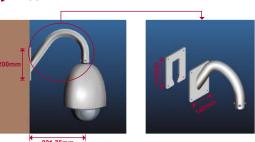
CAM-6200 Series



- 1/4" Sony Super HAD CCD sensor
- 352X zoom: 22X optical zoom and 16X digital zoom (CAM-6200)
 - 270X zoom: 27X optical zoom and 10X digital zoom (CAM-6220)
- Day & Night (CAM-6220)
- MPEG-4 ASP compliant hardware compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) for video streaming
- PPPoE supported
- · DDNS supported
- · Remote Pan/Tilt/Zoom control
- · Vandal proof housing (optional)

Appearance CAM-6220NW/CAM-6220PW **Appearance**

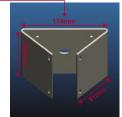
Outdoor wall mount



Outdoor pole mount

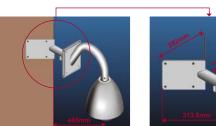






QA-305

Outdoor corner mount



QA-302

Outdoor ceiling mount



Appearance



CAM-6220NE/CAM-6220PE

Indoor flush mount



CAM-6200NN/CAM-6200PN CAM-6220NN/CAM-6220PN

CAM-6200 Series

PRODUCT SPECIFICATION

| | | | CAM-6220 | | | | | |
|----------------------------|---------------------|-------------|--|------------------------|--|--|--|--|
| | Device | | Super HAD CCD | | | | | |
| | Size | | 1/4 inch | | | | | |
| Image | Effective Pixels (H | lxV) | 811 X 508 (NTSC); 795 X 596 (PAL) | | | | | |
| | Horizontal Resolu | - 1 | More than 470 TVL | | | | | |
| | Color | LIOIT | 1.0 Lux | | | | | |
| Min. Scene Illumination | | | | | | | | |
| Illumination | B/W | | N/A 0.1 Lux 3.9 ~ 85.8 mm 3.25 ~ 88 mm | | | | | |
| | Focal Length | | | | | | | |
| | Zoom Ratio | | 22x 27x | - | | | | |
| Lens | Aperture Ratio | | F1.6 (Wide), F3.7 (Tele) F1.5 (Wide), F3.6 (| | | | | |
| | Diagonal Angle | | 72.19° (W) ~ 3.48° (T) 82.3° (W) ~ 3.43° | (1) | | | | |
| | Zoom Speed | | 13 sec. | | | | | |
| | Digital Zoom | | 22X optical zoom; 16X digital zoom 27X optical zoom; 10X digital zoom | gital Zoom | | | | |
| Synchronization | Sync. System | | Internal | | | | | |
| Day/Night Functions | Day/Night Switchi | ng | N/A IR cut filter | | | | | |
| | Motion Detection | | Yes (3 windows) | | | | | |
| | Electronic Shutter | | 1/60 ~ 1/100,000 sec. (NTSC); 1/50 ~ 1/100,000 sec. (PAL) | | | | | |
| | Fixed Shutter | | Manual 27 steps ,1/125~1/10,000 sec. (NTSC); Manual 27 steps ,1/125~1/10,000 sec. (PAL | -) | | | | |
| | BLC | | On / Off | | | | | |
| Functions | AGC | | Auto / manual | | | | | |
| | Auto Exposure Co | ntrol | Auto / manual / backlight compensation | | | | | |
| | White Balance | | AWB / ATW / PWB/ Manual | | | | | |
| | Camera ID | | Max. 10 characters | | | | | |
| | Number of Preset | | 32 points | | | | | |
| | Auto Iris Control | | Auto / manual | | | | | |
| S/N Ratio | S/N Ratio | | Better than 48 dB | | | | | |
| | Manual Speed | Pan Tilt | 0.5° ~ 55° / sec. | | | | | |
| | | Pan | 55° / sec. | | | | | |
| DANITHE | Preset Speed | Tilt | 55° / sec. | | | | | |
| PAN/TILT | Preset Accuracy | Pan Tilt | Approximating 1.5° per rotation | | | | | |
| | Pan | | 360° endless | | | | | |
| | Travel Range | Tilt | 0° ~ 90° | | | | | |
| | Compression | | MPEG-4 ASP compliant | | | | | |
| | Picture Resolution | n | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL); CIF (352 x 240 in NTSC, 352 x 288 in PAL); QCIF (160 x 112 in N | TSC, 176 x 144 in PAL) | | | | |
| Video | Bit Rate | | 28 K ~ 3M bps | , | | | | |
| (Compression) | Image Frame Rat | e l | 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) | | | | | |
| | Multi-stream | | Up to 4 configurable frame rate/bit rate streams for preview and recording | | | | | |
| Video Output | Composite Outpu | t I | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | | | | | |
| External I/O | Reset Button | | Factory default | | | | | |
| | LAN Port | | Ethernet (10/100Base-T), RJ-45 connector | | | | | |
| Network | WAN Port | | Ethernet (10/100Base-T), RJ-45 connector | | | | | |
| | Protocol | | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP | | | | | |
| | Web Browser | | Microsoft Internet Explorer 6.0 or above | | | | | |
| Software | SDK | | ActiveX control, C SDK | | | | | |
| 33 | Security | | Password protection : configured by the administrator | | | | | |
| Operating | Temperature | | 5 ~ 40 °C (41 ~ 104 °F) | | | | | |
| Operating | Power Requireme | nt | Outdoor: AC 110 V or AC 220 V; Indoor: DC 12 V | | | | | |
| Power | Power Requireme | | Outdoor: 52 W; Indoor: 20 W | | | | | |
| | Dimensions (ØxH | | Outdoor: 246 mm x 376.5 mm; Indoor: 249.8 mm x 283 mm | | | | | |
| Physical | , | , | | | | | | |
| | Weight | | Outdoor: 8 Kg (17.62 lb); Indoor: 2.5 Kg (5.51 lb) | | | | | |

ORDERING INFORMATION

| Part Number | NTSC | PAL | D & N | Indoor flush mount | Outdoor wall mount |
|-------------|------|-----|-------|--------------------|--------------------|
| CAM-6200NN | V | | | V | |
| CAM-6200PN | | V | | V | |
| CAM-6220NN | V | | V | V | |
| CAM-6220PN | | V | V | V | |
| CAM-6220NW | V | | V | | V |
| CAM-6220PW | | V | V | | V |

ACCESSORY OPTIONS

Vandal proof dome cover for CAM-62xx outdoor
 Pole mount bracket

0692-00017-000 QA-305 Corner mount bracket

QA-302

CAM-6500





- 1/4" SONY EXviewHAD with 440K/380K pixels
- Preset speed up to 400°/sec.
- Digital flip and high speed P/T/Z functions enhance tracking ability
- Pan driver accuracy of 0.225°
- · Pan & Tilt proportional to Zoom Ratio
- Minimum illumination down to 0.005Lux under D/N function
- · Digital slow shutter
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) video streaming
- Remote Pan/Tilt/Zoom control
- Vandal proof (optional)

Indoor wall mount



Indoor mount kit 69-77H05AIMK



Gooseneck tube D77H03-BW



Wall box mounting D77H05-WBM

Appearance





Indoor pole mount



Indoor mount kit 69-77H05AIMK



Gooseneck tube D77H03-BW



Pole thin box mounting D77H05-PTB

Appearance





Indoor corner mount



Indoor mount kit



Gooseneck tube



Corner thin box

al.

Indoor flush mount



T-Bar ceiling mount



Ceiling panel

Appearance



Appearance



Indoor surface mount



CAM-6500

PRODUCT SPECIFICATION

| | | | CAM-6500 | CAM-6510 | CAM-6520 | | |
|---|-------------------------------------|-------------|--|--|---|--|--|
| | Device | | Progressive CCD | EXviewHAD CCD | Progressive CCD | | |
| mage | Size | | | 1/4 inch | | | |
| go | Effective Pixels (H | xV) | 768x494(NTSC | ;); 752x582(PAL) | 724x494(NTSC); 724x582(PAL) | | |
| | Horizontal Resolut | ion | 470 TVL (NTSC | ;); 460 TVL (PAL) | 470 TVL (NTSC); 470 TVL (PAL) | | |
| /lin. scene | Color | | 3 Lux (F1.4, 1/60s(NTSC) or 1/50s(PAL)) | 0.1 Lux (F1.4, 1/4s(NTSC) or 1/3s (PAL)) | 0.1 Lux (F1.6, 1/60s(NTSC), 1/50s (PAL) | | |
| llumination | B/W | | N/A | 0.005 Lux at F1.4 | 0.01 Lux or less (F1.6, 1/4sec. (NTSC) o 1/3sec. (PAL, IR ON)) | | |
| | Focal Length | | 4 ~ 88 mm | 4.1 ~ 73.8 mm | 3.6 ~ 82.8 mm | | |
| | Zoom Ratio | | 22x | 18x | 23x | | |
| .ens | Aperture Ratio | | F1.6(Wide), F3.8(Tele) | F1.4(Wide), F3.0(Tele) | F1.6(Wide), F3.7(Tele) | | |
| | Diagonal angle | | 47.3°(W)~2.2°(T) | 48°(W)~2.8°(T) | 54°(W)~2.5°(T) | | |
| | Zoom Speed | | 2.9sec(1x to 22x) | 2.1sec(1x to 18x) | 2.9sec(1x to 23x) | | |
| | Digital Zoom | | | X1 ~ X12 variable | | | |
| Synchronization | Sync. System | | | Internal / line lock | | | |
| ay/Night unctions | Day/Night Switchin | ıg | N/A | IR cu | t filter | | |
| | Motion Detection | | | Yes (3 windows) | | | |
| | Electronic Shutter | | 1/2 ~ 1/4,000 sec. (NTSC) 1/1.5 ~ 1/4,000 sec. (PAL) | 1/1 ~ 1/10,000 sec. (NTSC) 1/1 ~ 1/10,000 sec. (PAL) | 1/2 ~ 1/4,000 sec. (NTSC) 1/1.5 ~ 1/4,000 sec. (PAL) | | |
| | Fixed Shutter | | N/A | Ye | es | | |
| | Auto Slow Shutter | | N/A | Ye | es | | |
| | BLC | | | On / Off | | | |
| | AGC | | | Auto / Manual | | | |
| | Auto Exposure Co | ntrol | Auto/manual/IRIS OFFSET | Auto/manual/exposure compensation | Auto/manual/IRIS OFFSET | | |
| | Exposure Compen | sation | IRIS OFFSET(000~100 steps) | -10.5~+10.5dB (15steps) | IRIS OFFSET(000~100 steps) | | |
| | White Balance | | Auto / Manual | | | | |
| unctions | Camera ID | | Max. 20 characters | | | | |
| | Number of Preset | | 256 points | | | | |
| | Auto Iris Control | | Auto / manual | | | | |
| Sequence Group Auto Pan (patrol) Schedule | | 8 | | | | | |
| | ,, , | | 4 | | | | |
| | | | | Yes | | | |
| | Privacy Mask | | N/A | 24 | 8 | | |
| | WDR | | N/A | N/A | Yes | | |
| | Absolute Position | | Yes | Yes* | Yes* | | |
| | Cruise | | | 1 | | | |
| S/N Ratio | S/N Ratio | I D | | Better than 49 dB (AGC off) | | | |
| | Manual Speed | Pan Tilt | | 0.6° ~ 80° / sec. | | | |
| | Preset Speed | Pan Tilt | | 5° ~ 400° / sec | | | |
| PAN/TILT | | Pan | | 0.225° | | | |
| | Preset Accuracy | Tilt | | 0.45° | | | |
| | T 15 | Pan | | 360° endless | | | |
| | Travel Range | Tilt | -10° ~ 100° | -10° ~ 100°(190° ir | n Image Flip mode) | | |
| | Compression | | | MPEG-4 ASP compliant | | | |
| /ideo | Picture Resolution | | Full D1 (720x480 i | in NTSC, 720x576 in PAL); CIF (352x240 in NTSC QCIF (160x112 in NTSC, 176x144 in PAL) | c, 352x288 in PAL); | | |
| Compression) | Bit Rate | | | 28 K ~ 3 M bps | | | |
| | Multi-stream | | Up to 4 configurable frame rate/bit rate streams for preview and recording | | | | |
| /ideo Output | Composite Output | | | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | r | | |
| Alarm | Input | | | 8, TTL, terminal block(optional) | | | |
| | Output | | | 1, TTL, terminal block(optional) | | | |
| Casing | Vandal Proof | | | Yes (cover with vandal proof option) | | | |
| | LAN Port | | Ethernet (10/100Base-T), RJ-45 connector | | | | |
| letwork | WAN Port | | Ethernet (10/100Base-T), RJ-45 connector | | | | |
| | Protocol Web Browner | | TCP, | UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, | SIVITY | | |
| | Web Browser | | Microsoft Internet Explorer 6.0 or above | | | | |
| oftware | SDK | | | ActiveX control, C SDK | | | |
| Operating | Security | | P | assword protection : configured by the administrat | OI | | |
| Operating | Temperature | nt | | 0 ~ 40 °C (32 ~ 104 °F) AC 24 V ±20% | | | |
| Power | Power Requirement Power Consumption | | | AC 24 V ±20% 30 W | | | |
| Physical | Dimensions (ØxH) Weight | | | 131 mm x 226 mm (5.2" x 7.6") 1,600 g (3.5 lb) | | | |
| | vveigni | 1 | | 1,000 g (3.5 lb) | | | |

^{*} Only Pan/Tilt absolute position is supported.

MPEG-4 Real-time Outdoor IP High Speed Dome with Two Way Audio

CAM-6600 Series



- 1/4" SONY EXviewHAD with 440K/380K pixels
- Preset speed up to 400°/sec.
- Digital flip and high speed P/T/Z functions enhance tracking ability
- Pan driver accuracy of 0.225°
- Minimum illumination down to 0.005Lux under D/N function
- Weather resistant housing, with IP66 certification
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Remote Pan/Tilt/Zoom control
- · Vandal proof (optional)





Appearance



Outdoor pole mount Gooseneck tube D77H03-BW Pole thin box mounting D77H05-PTB Appearance







Outdoor surface mount

 $^{^{\}star}\,\mbox{All}$ specifications are subject to change without notice.

CAM-6600 Series

PRODUCT SPECIFICATION

| | Device | | CAM-6600 | CAM-6610 EXviewHAD CCD | CAM-6620 | | |
|---------------------------|-------------------------------------|-------------|--|---|---|--|--|
| | Size | | Progressive CCD | 1/4 inch | Progressive CCD | | |
| mage | Effective Pixels (F | IV// | | 768x494 (NTSC); 752x582 (PAL) | | | |
| | Horizontal Resolu | | 470 TVL (NTSC); 752X502 (PAL) | | | | |
| | Color | | 3 Lux (F1.4, 1/60s(NTSC) or 1/50s(PAL)) | 0.1 Lux (F1.4, 1/4s(NTSC) or 1/3s (PAL)) | 0.1 Lux (F1.6, 1/60s(NTSC), 1/50s (PAL) | | |
| Min. Scene Ilumination | B/W | | N/A | 0.005 Lux (F1.4, 1/1s (NTSC) or 1/1s (PAL), IR ON) | 0.02 Lux or less (F1.4, 1/4s (NTSC) or 1/3s (PAL), IR ON) | | |
| | Focal Length | | 4 ~ 88 mm | 4.1 ~ 73.8 mm | 3.6 ~ 82.8 mm | | |
| | Zoom Ratio | | 22x | 18x | 23x | | |
| .ens | Aperture Ratio | | F1.6(Wide), F3.8(Tele) | F1.4(Wide), F3.0(Tele) | F1.6(Wide), F3.7(Tele) | | |
| ens | Diagonal Angle | | 47.3°(W) ~ 2.2°(T) | 48°(W) ~ 2.8°(T) | 54°(W) ~ 2.5°(T) | | |
| | Zoom Speed | | 2.9 sec (1x to 22x) | 2.1 sec (1x to 18x) | 2.9 sec (1x to 23x) | | |
| | Digital Zoom | | | X1 ~ X12 variable | | | |
| Synchronization | Sync. System | | | Internal / Line Lock | | | |
| Day/Night Functions | Day/Night Switchi | ng | N/A | IR cu | t filter | | |
| | Motion Detection | | 442 444 222 447 223 | Yes (3 windows) | | | |
| | Electronic Shutter | | 1/2 ~ 1/4,000 sec. (NTSC) 1/1.5 ~ 1/4,000 sec. (PAL) | 1/1 ~ 1/10,000 sec. (NTSC) 1/1 ~ 1/10,000 sec. (PAL) | 1/2 ~ 1/4,000 sec. (NTSC) 1/1.5 ~ 1/4,000 sec. (PAL) | | |
| | Fixed Shutter | | N/A | Ye | es | | |
| | Auto Slow Shutter | . | N/A | Ye | es | | |
| | BLC | | | On / Off | | | |
| | AGC | | | Auto / Manual | | | |
| | Auto Exposure Co | | Auto /Manual/IRIS OFFSET | Auto/Manual/Exposure Compensation | Auto /Manual/IRIS OFFSET | | |
| | Exposure Compe | nsation | IRIS OFFSET (000~100 steps) | -10.5 ~ +10.5 dB | IRIS OFFSET (000~100 steps) | | |
| unctions | White Balance | | | Auto / Manual | | | |
| | Camera ID | | | Max. 20 characters | | | |
| | Number of Preset | | | 256 points | | | |
| | Auto Iris Control Sequence Group | | Auto / Manual | | | | |
| | Auto Pan (Patrol) | | | | | | |
| | Schedule | | | Yes | | | |
| | Privacy Mask | | N/A | 24 | 8 | | |
| | Cruise | | IVA | 1 | Ü | | |
| | Absolute Position | | Yes* | Yes | Yes* | | |
| | Wide Dynamic Range | | N/A | N/A | Yes | | |
| S/N Ration | S/N Ratio | J. | | Better than 49dB (AGC off) | | | |
| | Manual Speed | Pan Tile | 0.6° ~ 80°/sec. | | | | |
| | Bit Rate | Pan Tile | 5° ~ 400°/sec. | | | | |
| PAN/TILT | D | Pan | | | | | |
| | Preset Accuracy | Tile | | 0.45° | | | |
| | Travel Range | Pan | | 360° endless | | | |
| | Traverrange | Tile | 0° ~ 100° | 0° ~ 100° (190° in | Image Flip mode) | | |
| | Compression | | | MPEG-4 ASP compliant | | | |
| √ideo | Picture Resolution | 1 | Full D1 (720x480 in NTSC, 720x576 in F | PAL); CIF (352x240 in NTSC, 352x288 in PAL); Q | CIF (160x112 in NTSC, 176x144 in PAL) | | |
| (Compression) | Bit Rate | | 28K ~ 3M bps | | | | |
| | Image Frame Rat | е | | 30fps at full D1 resolution (NTSC); 25fps at full D1 resolution (PAL) | | | |
| Video Output | Multi-stream | | Up to 4 configurable frame rate/bit rate streams for preview and recording | | | | |
| video Output | Composite Output | | , | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | | | |
| Audio Input | Compression Audio Line Input | | | 8kHz, Mono, PCM Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Jack | | | |
| | Compression | | | 8kHz, Mono, PCM | | | |
| Audio Output | Audio Line Output | | | Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Jack | | | |
| | Input | | | 8, TTL, terminal block (option) | | | |
| Alarm | Output | | | 1, TTL, terminal block (option) | | | |
| | IP66 Rated | | | Weatherproof housing with IP66 certification | | | |
| Casing | Vandal Proof | | | Yes (cover with vandal proof option) | | | |
| | LAN Port | | | Ethernet(10/100Base-T), RJ-45 connector | | | |
| Network | WAN Port | | Ethernet(10/100Base-T), RJ-45 connector | | | | |
| | Protocol | | TCP, | UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, | SMTP | | |
| | Web Browser | | | Microsoft Internet Explorer 6.0 or above | | | |
| Software | SDK | | | ActiveX control, C SDK | | | |
| | Security | | P | assword Protection: configured by the administrat | or | | |
| | 1 - | | | -20 ~ 50 °C (-4 ~ 122 °F) | | | |
| Operating | Temperature | | | | | | |
| | Power Requireme | | | AC 24 V | | | |
| Operating Power | | on | | | | | |

^{*} Only Pan/Tilt absolute position is supported.



Video Server











| | 1-channel Video Server | | | Quad Video Server | |
|-----------------------|--|--|--|--|--|
| Model name | SED-2100 | SED-2120 | SED-2140 | SED-2310Q | SED-2320Q |
| Channel | 1 | 1 | 1 | 4 | 4 |
| Compression | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP |
| 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 | 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 | Up to 4 configurable frame rate/bit rate streams for preview and recording |
| FPS (NTSC/PAL) | 30/25 | 30/25 | 30/25 | 30/25 | 30/25 |
| Bit Rate | 28 K ~ 3 M bps | 28 K ~ 3 M bps |
| PTZ * | Yes | Yes | Yes | Yes | Yes |
| Max. Video Resolution | 720 x 480 (NTSC) 720 x 576 (PAL) | 720 x 480 (NTSC) 720 x 576 (PAL) | 720 x 480 (NTSC) 720 x 576 (PAL) | 1 Channel: 720 x 480 (NTSC) 720 x 576 (PAL) 2-4 Channel: 352 x 240 (NTSC) 352 x 288 (PAL) | 1 Channel: 720 x 480 (NTSC) 720 x 576 (PAL) 2-4 Channel: 352 x 240 (NTSC) 352 x 288 (PAL) |
| Video Input | Composite x1 | Composite x1 | Composite x1 | Composite x4 | Composite x4 |
| Video Output | Composite x1 | Composite x1 | Composite x1 | Composite x1 | Composite x1 |
| Audio | None | None | 2 way | None | 2 way |
| Serial Port | RS-485/422/232 | RS-485/422/232 | RS-485/422/232 | RS-485/422/232 | RS-485/422/232 |
| Alarm Input/Output | 2/2 | 2/2 | 2/2 | 2/2 | 2/2 |
| Motion Detection | Yes | Yes | Yes | Yes | Yes |
| Failover | Yes | Yes | Yes | Yes | Yes |
| Protocol | TCP, UDP | TCP, UDP, RTP, RTSP | TCP, UDP, RTP, RTSP | TCP, UDP, RTP, RTSP | TCP, UDP, RTP, RTSP |
| Security | Password/Username protection | Password/Username protection | Password/Username protection | Password/Username protection | Password/Username protection |
| Rack Solution | RMK-1000 | RMK-2000 | RMK-2000 | RMK-2000 | RMK-2000 |
| Ethernet Networks | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN |

^{*} Requires additional third-party PTZ device.

Video Server



Preliminary









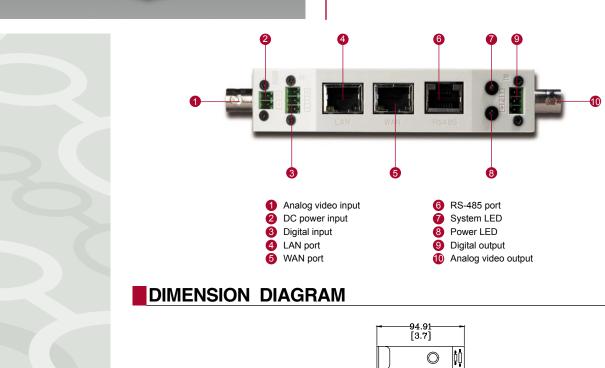
| - | - | | |
|---|---|---|---|
| 2-channel Video Server | | 8-channel Video Server | |
| SED-2410 | SED-2420 | SED-2600 | SED-2610 |
| 2 | 2 | 8 | 8 |
| MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP | MPEG-4 ASP |
| Up to 4 configurable frame rate/ bit rate streams for preview and recording (per channel) | Up to 4 configurable frame rate/ bit rate streams for preview and recording (per channel) | Up to 4 configurable frame rate/ bit rate streams for preview and recording (per channel) | Up to 4 configurable frame rate/ bit rate streams for preview and recording (per channel) |
| 30/25 (per channel) | 30/25 (per channel) | 30/25 (per channel) | 30/25 (per channel) |
| 28 K ~ 3 M bps (per channel) | 28 K ~ 3 M bps (per channel) | 28 K ~ 3 M bps (per channel) | 28 K ~ 3 M bps (per channel) |
| Yes | Yes | Yes | Yes |
| 720 x 480 (NTSC) 720 x 576 (PAL) (per channel) | 720 x 480 (NTSC) 720 x 576 (PAL) (per channel) | 720 x 480 (NTSC) 720 x 576 (PAL) (per channel) | 720 x 480 (NTSC) 720 x 576 (PAL) (per channel) |
| Composite x2 | Composite x2 | Composite x8 | Composite x8 |
| Composite x2 | Composite x2 | None | None |
| None | 2 way (per channel) | None | 2 way (per channel) |
| RS-485/422/232 | RS-485/422/232 | RS-485/422/232 (per channel) | RS-485/422/232 (per channel) |
| 2/2 | 2/2 | 2/2 (per channel) | 2/2 (per channel) |
| Yes | Yes | Yes | Yes |
| Yes | Yes | None | None |
| TCP, UDP, RTP, RTSP |
| Password/Username protection | Password/Username protection | Password/Username protection | Password/Username protection |
| RMK-2000 | RMK-2000 | Yes | Yes |
| 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN | 10/100 Base-T x1 | 10/100 Base-T x1 |

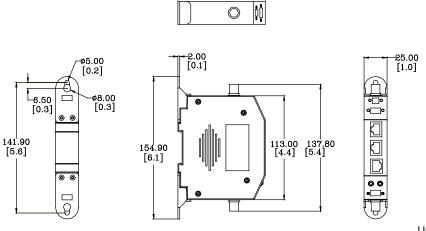


DIN Rail Type MPEG-4 Video Server



- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- QoS enabled (L3) video streaming (UniCast/MultiCast)
- · Digital time code embedded
- Motion detection





Unit: mm [inch]



PRODUCT SPECIFICATION

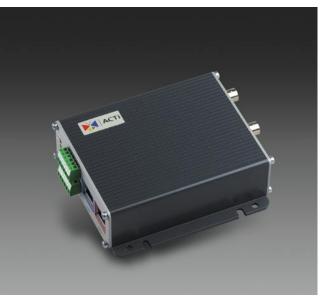
| Video (Compression) | |
|---------------------|--|
| Compression | MPEG-4 ASP compliant compression |
| Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (160 x 112 in NTSC, 176 x 144 in PAL) |
| Bit Rate | 28 K ~ 3 M bps |
| Image Frame Rate | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) |
| Multi-stream | Up to 4 configurable frame rate/bit rate streams for preview and recording |
| Video Input | |
| Composite Input | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector |
| Video Output | |
| Composite Output | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector |
| Alarm | |
| Input | 2, TTL, terminal block |
| Output | 2, TTL, terminal block |
| Remote Control | |
| Serial Port | RS-485: half duplex, RJ-45 |
| External I/O | |
| Reset Button | Factory default |
| LED | System / power status |

| Network | | |
|--------------------|---|--|
| LAN Port | Ethernet (10/100Base-T), RJ-45 connector | |
| WAN Port | Ethernet (10/100Base-T), RJ-45 connector | |
| Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, FTP, SMTP | |
| Software | | |
| Web Browser | Microsoft Internet Explorer 6.0 or above | |
| SDK | ActiveX control, C SDK | |
| PTZ Protocol* | Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 | |
| Security | Password protection : configured by the administrator | |
| Operating | | |
| Temperature | 5 ~ 50 °C (40 ~ 122 °F) | |
| Power | | |
| Power Requirement | DC 12 V ±10% | |
| Power Consumption | 7.5 W | |
| Physical | | |
| Dimensions (WxHxD) | 25 mm x 113 mm x 95 mm (0.98" x 4.45" x 3.74") | |
| Weight | 200 g (0.44 lb) | |
| | | |

^{*} These PTZ protocols are supported in ACTi Streaming Activator and Streaming Explorer.

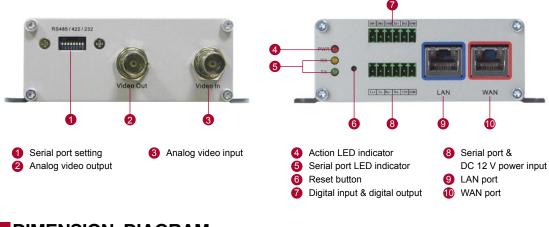
| Model Name | Full D1 | CIF | 4 MB Flash |
|------------|---------|-----|------------|
| SED-2100R | V | | V |
| SED-2100S | | V | V |



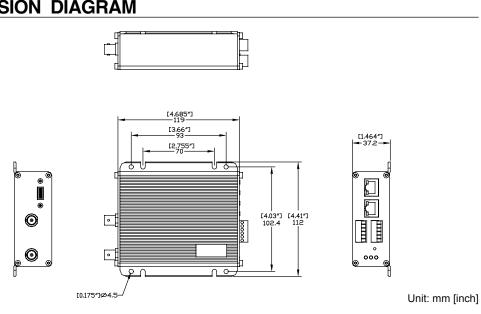


- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Digital time code embedded
- · Motion detection
- · Isolated digital input and output supported





DIMENSION DIAGRAM



^{*} All specifications are subject to change without notice.
* All brand names and registered trademarks are the property of their respective owners.



Video Server
SED-2120

PRODUCT SPECIFICATION

| Video (Compression) | |
|---------------------|--|
| Compression | MPEG-4 ASP compliant compression |
| Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (160 x 112 in NTSC, 176 x 144 in PAL) |
| Bit Rate | 28 K ~ 3 M bps |
| Image Frame Rate | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) |
| Multi-stream | Up to 4 configurable frame rate/bit rate streams for preview and recording |
| Video Input | |
| Composite Input | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector |
| Video Output | |
| Composite Output | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector |
| Alarm | |
| Input | 2, TTL, terminal block |
| Output | 2, TTL, terminal block |
| Remote Control | |
| Serial Port | RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232: full duplex, terminal block |
| External I/O | |
| Reset Button | Factory default |
| LED | System status |

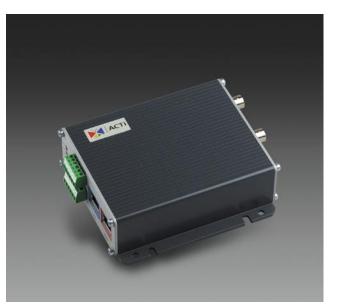
| Ethernet (10/100Base-T), RJ-45 connector |
|---|
| Ethernet (10/100Base-T), RJ-45 connector |
| TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP |
| |
| Microsoft Internet Explorer 6.0 or above |
| ActiveX control, C SDK |
| Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 |
| Password protection : configured by the administrator |
| |
| 5 ~ 50 °C (40 ~ 122 °F), SED-2120 -30 ~ 70 °C (-22 ~ 158 °F), SED-2120T |
| |
| DC 12 V ±10% |
| 7.5 W |
| |
| 112 mm x 37.2 mm x 119 mm (4.41" x 1.46" x 4.68") |
| 350 g (0.66 lb) |
| |

^{*} These PTZ protocols are supported in ACTi Streaming Activator and Streaming Explorer.

| Model Name | Full D1 | CIF | Extended Temperature |
|------------|---------|-----|----------------------|
| SED-2120 | V | | |
| SED-2120S | | V | |
| SED-2120T | V | | V |

Wallmount Type MPEG-4 Video Server with Two Way Audio and Extended Temperature Option

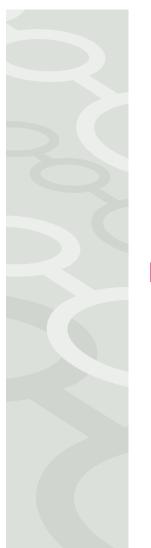
SED-2140

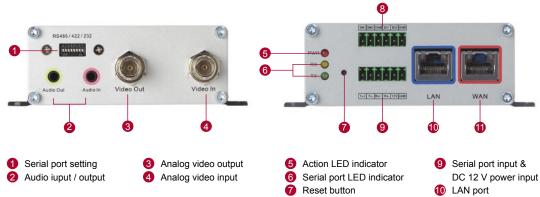


- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Digital time code embedded
- · Motion detection
- · Two way audio supported
- · Isolated digital input and output supported

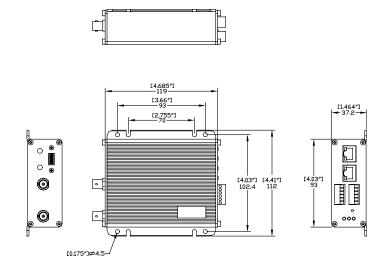
8 Digital input & digital output

WAN port





DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

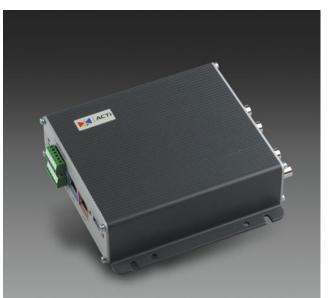
| Video (Compression) | |
|---------------------|--|
| Compression | MPEG-4 ASP compliant compression |
| Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (160 x 112 in NTSC, 176 x 144 in PAL) |
| Bit Rate | 28 K ~ 3 M bps |
| Image Frame Rate | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) |
| Multi-stream | Up to 4 configurable frame rate/bit rate for preview and recording |
| Video Input | |
| Composite Input | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector |
| Video Output | |
| Composite Output | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector |
| Audio Input | |
| Compression | 8 kHz, Mono, PCM |
| Audio Line Input | Unbalanced, 1.0 Vpp, 1 Vrms, 3.5 mm Jack |
| Audio Output | |
| Compression | 8 kHz, Mono, PCM |
| Audio Line Output | Unbalanced, 1.0 Vpp, 1 Vrms, 3.5 mm Jack |
| Alarm | |
| Input | 2, TTL, terminal block |
| Output | 2, TTL, terminal block |
| Remote Control | |
| Serial Port | RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232: full duplex, terminal block |

| External I/O | |
|--------------------|---|
| Reset Button | Factory default |
| LED | System status |
| Network | |
| LAN Port | Ethernet (10/100Base-T), RJ-45 connector |
| WAN Port | Ethernet (10/100Base-T), RJ-45 connector |
| Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP |
| Software | |
| Web Browser | Microsoft Internet Explorer 6.0 or above |
| SDK | ActiveX control, C SDK |
| PTZ Protocol | Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 |
| Security | Password protection : configured by the administrator |
| Operating | |
| Temperature | 5 ~ 50 °C (40 ~ 122 °F), SED-2140; -30 ~ 70 °C (-22 ~ 158 °F), SED-2140T |
| Power | |
| Power Requirement | DC 12 V ±10% |
| Power Consumption | 7.5 W |
| Physical | |
| Dimensions (WxHxD) | 112 mm x 37.2 mm x 119 mm (4.41" x 1.46" x 4.68") |
| Weight | 350 g (0.66 lb) |
| | |

| Model Name | Full D1 | CIF | Extended Temperature |
|------------|---------|-----|----------------------|
| SED-2140 | V | | |
| SED-2140S | | V | |
| SED-2140T | V | | V |

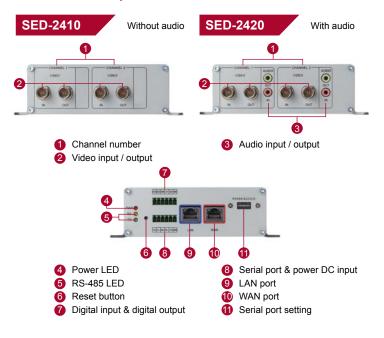
Wallmount Type Two-channel Video Server with Two Way Audio Option

SED-2410/2420

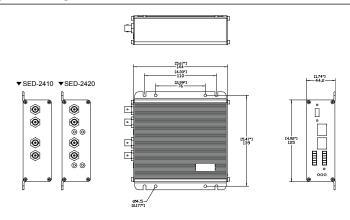


- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Digital time code embedded
- · Motion detection
- Two way audio supported (SED-2420)
- · Isolated digital input and output supported





DIMENSION DIAGRAM



Unit: mm [inch]

 $^{^{\}star}\,\mbox{All}$ specifications are subject to change without notice.

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



PRODUCT SPECIFICATION

| Video (Compression) Full D1 (720 x 480 in NTSC, 720 x 75 in PAL); CIF (362 x 240 in NTSC, 352 x 288 in PAL) (per channel) Video (Compression) Full D1 (720 x 480 in NTSC, 720 x 75 in PAL); CIF (362 x 240 in NTSC, 352 x 288 in PAL) (per channel) Video (Compression) Bit Rate 28 x - 3M bops per channel) Video input Composite Input Up to 4 configurable frame rate/bit rate streams for preview and recording (per channel) Video Output Composite Output 2, CVBS, 1,0Vp-p with 75 □ loading, BNC connector Video Output Composite Output N/A 8 kHz, Mono, PCM Audio Line Input N/A 8 kHz, Mono, PCM Audio Line Input N/A 8 kHz, Mono, PCM Audio Line Output N/A 8 kHz, Mono, PCM Author Propersion N/A 8 kHz, Mono, PCM Alarm Input 2, TTL, terminal block 8 kHz, Mono, PCM Remote Control Serial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Seset Button RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, termin | | | SED-2410 | SED-2420 |
|--|----------------|--------------------|---|--|
| Video (Compression) Picture Resolution QCIF (180 x 112 in NTSC, 176 x 144 in PAL) (per channel) (Compression) Bit Rate 28 K - 3M bps (per channel) Image Frame Rate (Image Frame Rate) 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) (per channel) Video input Composite Input 2, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector Video Output Composite Output 8 kHz, Mono, PCM Audio Input N/A 8 kHz, Mono, PCM Audio Line Input N/A Unbalanced, 1.4Vp-p, 1Vms, 3.5 mm Jack Audio Output N/A Unbalanced, 1.4Vp-p, 1Vms, 3.5 mm Jack Alarm Input 2, TTL, terminal block Remote Control Serial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block Network WAN Port Ethemet(10/100 Base-T), RJ-45 connector Network WAN Port Ethemet(10/100 Base-T), RJ-45 connector Yeb Browser Microsoft Internet Explorer 6.0 or above Solk Activez Control, C SDK <td></td> <td>Compression</td> <td colspan="2">MPEG-4 ASP compliant</td> | | Compression | MPEG-4 ASP compliant | |
| COmpression) Bit Rate 28 K - 3M bps (per channel) Image Frame Rate Image Frame Rate 30 fpss at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) (per channel) Video input Composite Input Up to 4 configurable frame rate/bit rate stress for preview and recording (per channel) Video Output Composite Output 30 fpss 4 full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) (per channel) Video Input Composite Output 2, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector Video Output Compression N/A 8 kHz, Mono, PCM Audio Line Input N/A 9 kHz, Mono, PCM Audio Line Output N/A 1 kHz, Mono, PCM Audio Line Output N/A 8 kHz, Mono, PCM Audio Line Output N/A 9 kHz, Mono, PCM Audio Line Output N/A 1 kHz, Mono, PCM Audio Line Output N/A 1 kHz, Mono, PCM Audio Line Output N/A 1 kHz, Mono, PCM Audio Line Output RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block; RS-242: full duplex, terminal block; RS-242: full dupl | Video | Picture Resolution | QCIF (160 x 112 in NTSC, 176 x 144 in PAL) | |
| Image Frame Rate (per channel) Multi-stream Up to 4 configurable frame rate/bit rate streams for preview and recording (per channel) Video Input Composite Input 2, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | | Bit Rate | 28 K ~ 3M bps | s (per channel) |
| Video input Composite Input 2, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector Video Output Composite Output 2, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector Audio Input Compression N/A 8 kHz, Mono, PCM Audio Output Compression N/A 0 kHz, Mono, PCM Audio Output Compression N/A 0 kHz, Mono, PCM Audio Line Output N/A 0 kHz, Mono, PCM Audio Line Output N/A 0 kHz, Mono, PCM Alarm Input 2, TTL, terminal block Renote Control Resial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System status Metwork WAN Port Ethermet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPCB, RTP, RTSP, FTP, SMTP Software Web Browser Microsoft Internet Explorer 6.0 or above Software SDK Activex control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 | | Image Frame Rate | · · | to the second of |
| Video Output Composite Output 2, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector Audio Input Compression N/A 8 kHz, Mono, PCM Audio Line Input N/A Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack Audio Output Compression N/A 8 kHz, Mono, PCM Audio Line Output N/A Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack Alarm Input 2, TTL, terminal block Remote Control Serial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System status LAN Port Ethernet(10/100 Base-T), RJ-45 connector WAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Meb Browser Microsoft Internet Explorer 6.0 or above Software SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperat | | Multi-stream | Up to 4 configurable frame rate/bit rate stream | ams for preview and recording (per channel) |
| Audio Input Compression N/A 8 kHz, Mono, PCM Audio Line Input N/A Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack Audio Output Compression N/A 8 kHz, Mono, PCM Audio Line Output N/A Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack Alarm Input 2, TTL, terminal block Output Reset Button 2, TTL, terminal block; RS-232: full duplex, terminal block; RS-232: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System status LED System status LAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above Software SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Power Requirement DC 12 V ±10% | Video input | Composite Input | 2, CVBS, 1.0Vp-p with 75 | Ω loading, BNC connector |
| Audio Input Audio Line Input N/A Unbalanced, 1.4 Vp-p, 1Vms, 3.5 mm Jack Audio Output N/A 8 kHz, Mono, PCM Audio Line Output N/A Unbalanced, 1.4 Vp-p, 1Vms, 3.5 mm Jack Alarm Input 2, TTL, terminal block Output 2, TTL, terminal block Remote Control Serial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System status LED System status LAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPOE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above SOftware SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Requirement DC 12 V ±10% Power Consumption 7.5 W | Video Output | Composite Output | 2, CVBS, 1.0Vp-p with 75 | $\boldsymbol{\Omega}$ loading, BNC connector |
| Audio Line Input | Audio Input | Compression | N/A | 8 kHz, Mono, PCM |
| Audio Output Audio Line Output N/A Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack Alarm Input 2, TTL, terminal block Output RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System satus Metwork LAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPOE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above Software SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) | Audio iriput | Audio Line Input | N/A | Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack |
| Audio Line Output | Audia Output | Compression | N/A | 8 kHz, Mono, PCM |
| Alarm Output 2, TTL, terminal block Remote Control Serial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System status LAN Port Ethernet(10/100 Base-T), RJ-45 connector Network WAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPDE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Power Requirement DC 12 V ± 10% Power Power Consumption 7.5 W Physical Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | Audio Output | Audio Line Output | N/A | Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack |
| Remote Control Serial Port RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block External I/O Reset Button Factory default LED System status LAN Port Ethernet(10/100 Base-T), RJ-45 connector WAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPOE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) | Alarm | Input | 2, TTL, terminal block | |
| External I/O Reset Button Factory default LED System status Network LAN Port Ethernet(10/100 Base-T), RJ-45 connector WAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) | Alaim | Output | 2, TTL, terminal block | |
| External I/O LED System status Network LAN Port Ethernet(10/100 Base-T), RJ-45 connector WAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) | Remote Control | Serial Port | RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block | |
| LED System status LAN Port Ethernet(10/100 Base-T), RJ-45 connector WAN Port Ethernet(10/100 Base-T), RJ-45 connector Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Web Browser Microsoft Internet Explorer 6.0 or above SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | F. ta 1 1/0 | Reset Button | Factory default | |
| Network WAN Port Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Web Browser SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature Power Power Requirement Power Power Consumption Physical Physical | External I/O | LED | System status | |
| Protocol TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Web Browser SDK ActiveX control, C SDK PTZ Protocol* Security Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature Temperature DC 12 V ±10% Power Consumption Physical Dimensions (WxHxD) TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP Microsoft Internet Explorer 6.0 or above ActiveX control, C SDK ActiveX control, C SDK Polyacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Password Protection: configured by the administrator DC 12 V ±10% Power Consumption T.5 W Dimensions (WxHxD) | | LAN Port | Ethernet(10/100 Base-T), RJ-45 connector | |
| Software Web Browser SDK ActiveX control, C SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature Power Power Requirement Power Consumption Physical Physical Microsoft Internet Explorer 6.0 or above ActiveX control, C SDK Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Password Protection: configured by the administrator DC (40 ~ 122 °F) DC 12 V ±10% Power Consumption 7.5 W Dimensions (WxHxD) Dimensions (WxHxD) | Network | WAN Port | Ethernet(10/100 Base-T), RJ-45 connector | |
| Software SDK PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Requirement Power Consumption Physical Physical ActiveX control, C SDK ActiveX control, C SDK Polica | | Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP | |
| Software PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 Security Password Protection: configured by the administrator Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Requirement Power Consumption 7.5 W Dimensions (WxHxD) Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | | Web Browser | Microsoft Internet Explorer 6.0 or above | |
| PTZ Protocol* Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V2 Security Password Protection : configured by the administrator Power Power Requirement Power Consumption Physical Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V2 Password Protection : configured by the administrator DC 12 V ±10% Power Requirement Power Consumption T.5 W Dimensions (WxHxD) Physical | Coffee | SDK | ActiveX cor | ntrol, C SDK |
| Operating Temperature 5 ~ 50 °C (40 ~ 122 °F) Power Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | Software | PTZ Protocol* | Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 | |
| Power Requirement DC 12 V ±10% Power Consumption 7.5 W Physical Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | | Security | Password Protection : configured by the administrator | |
| Power Power Consumption 7.5 W Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | Operating | Temperature | 5 ~ 50 °C (40 ~ 122 °F) | |
| Power Consumption 7.5 W Dimensions (WxHxD) 139 mm x 44.2 mm x 144 mm (5.47" x 1.74" x 5.67") | Dower | Power Requirement | DC 12 | V ±10% |
| Physical | rowei | Power Consumption | 7.9 | 5 W |
| Weight 570 g (1.07 lb) | Dhysical | Dimensions (WxHxD) | 139 mm x 44.2 mm x 144 | mm (5.47" x 1.74" x 5.67") |
| | Priysical | Weight | 570 g (1.07 lb) | |

^{*} These PTZ protocols are supported in ACTi Streaming Activator and Streaming Explorer.

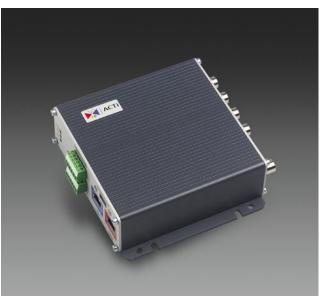
ORDERING INFORMATION

| Model Name | w/ Audio | w/o Audio |
|------------|----------|-----------|
| SED-2410 | | V |
| SED-2420 | V | |

Unit: mm [inch]

4-channel MPEG-4 Quad Processor Integrated Video Server with Two Way Audio and Extended Temperature Option

SED-2310Q/2320Q



- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Real-time quad video
- Monitor output displays full-screen or quad image
- · Digital time code embedded
- · Motion detection
- Two way audio supported (for SED-2320Q only)
- · Isolated digital input and output supported
- Up to 4 analog video inputs blended into one digital MPEG-4 output stream



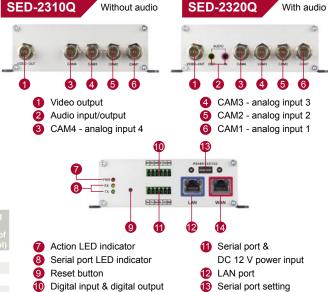




Full-screen

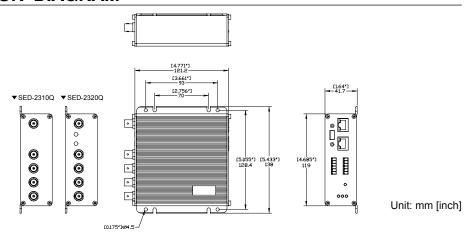


| Number of Video Input | Total Stream Output | Full-screen Display (resolution) | Quad Tiling Display (resolution of each channel) |
|-----------------------------|------------------------|--|---|
| 1 | 1 D1 stream | D1 | CIF |
| 2 | 1 D1 stream | D1 | CIF |
| 3 | 1 D1 stream | D1 | CIF |
| 4 | 1 D1 stream | D1 | CIF |



WAN port

DIMENSION DIAGRAM



^{*} All specifications are subject to change without notice.

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

SED-2310Q/2320Q

PRODUCT SPECIFICATION

| | | SED-2310Q | SED-2320Q | |
|------------------------|--------------------|--|---|--|
| | Compression | MPEG-4 ASP Compliant Compression | | |
| Video (Compression) | Picture Resolution | 1 channel : Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) 2 channel : CIF (352 x 240 in NTSC, 352 x 288 in PAL) 3 channel : CIF (352 x 240 in NTSC, 352 x 288 in PAL) 4 channel : CIF (352 x 240 in NTSC, 352 x 288 in PAL) | | |
| (Compression) | Bit Rate | 28 K ~ 3 M bps | | |
| | Image Frame Rate | 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) | | |
| | Multi-stream | Up to 4 configurable frame rate/bit ra | te streams for preview and recording | |
| Video input | Composite Input | 4, CVBS, 1.0Vp-p with 75 | Ω loading, BNC connector | |
| Video Output | Composite Output | 1, CVBS, 1.0Vp-p with 75 | Ω loading, BNC connector | |
| Audia lanut | Compression | N/A | 8 kHz, Mono, PCM | |
| Audio Input | Audio Line input | N/A | Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack | |
| Audio Output | Compression | N/A | 8 kHz, Mono, PCM | |
| Audio Output | Audio Line output | N/A | Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack | |
| Alarm | Input | 1 TTL, terminal block | | |
| Alailii | Output | 1 TTL, terr | ninal block | |
| Remote Control | Serial Port | RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block | | |
| External I/O | Reset Button | Factory Default | | |
| External I/O | LED | Power / serial port / network status | | |
| | LAN Port | Ethernet (10/100Base-T), RJ-45 connector | | |
| Network | WAN Port | Ethernet (10/100Base-T), RJ-45 connector | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PI | PPoE, RTP, RTSP, FTP, SMTP | |
| | Web Browser | Microsoft Internet E. | xplorer 6.0 or above | |
| Software | SDK | ActiveX control, C SDK | | |
| Software | PTZ Protocol* | Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 | | |
| | Security | Password protection : configured by the administrator | | |
| Operating | Temperature | 5 ~ 50 °C (40 ~ 122 °F), SED-2310Q/SED-2320Q; -3 | 0 ~ 70 °C (-22 ~ 158 °F), SED-2310QT/SED-2320QT | |
| Power | Power Requirement | DC 12 V | V ±10% | |
| i Owei | Power Consumption | 9.6 | W | |
| Physical | Dimensions (WxHxD) | 119 x 41.7 x 122 mm | (4.69" x 1.65" x 4.81") | |
| Physical | Weight | 470 g (| 1.04 lb) | |

^{*} These PTZ protocols are supported in ACTi Streaming Activator and Streaming Explorer.

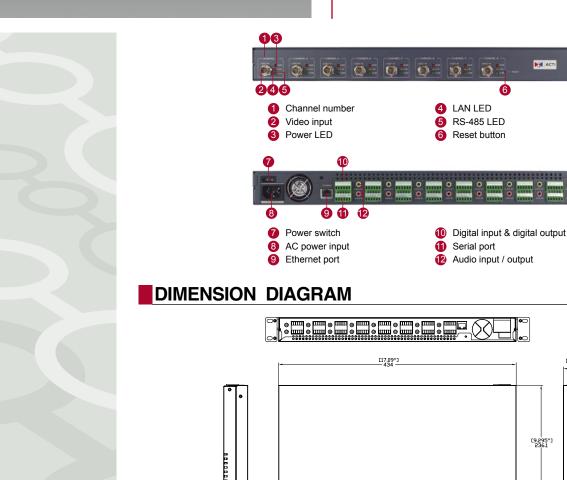
| Model Name | w/ Audio | Extended Temperature |
|------------|----------|----------------------|
| SED-2310Q | | |
| SED-2310QT | | V |
| SED-2320Q | V | |
| SED-2320QT | V | V |

1U Rackmount 8-channel **MPEG-4 Video Server** with Two Way Audio Option

SED-2600/2610



- 8 independent channels with 8 isolated video inputs
- MPEG-4 ASP compliant compression
- CIF up to Full D1 resolution at 25/30 fps per channel
- · QoS enabled (L3) video streaming
- Digital time code embedded for each channel
- Isolated digital input and output pairs for each channel
- · Isolated serial ports (RS-485 or RS-232 or RS-422) for each channel
- Isolated two way audio ports for each channel (SED-2610)
- 1U form factor for rackmount



Unit: mm [inch]

o: o: o: o: o: <u>o: o: o:</u>

[9.295″] 236.1

^{*} All specifications are subject to change without notice.



Video Server **SED-2600/2610**

PRODUCT SPECIFICATION

| | | SED-2600 | SED-2610 | |
|----------------|--------------------|--|---|--|
| | Compression | MPEG-4 ASP Compliant | | |
| Video | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NTSC, 352x288 in PAL); QCIF (160x112 in NTSC, 176x144 in PAL) (per channel) | | |
| Compression | Bit Rate | 28K ~ 3M bps (per channel) | | |
| | Image Frame Rate | 30fps at full D1 resolution (NTSC); 25fps at full D1 resolution (PAL) (per channel) | | |
| | Multi-stream | Up to 4 configurable frame rate/bit rate streams for preview and recording (per channel) | | |
| Video Input | Composite Input | 8, CVBS, 1.0Vp-p with 759 | Ω loading, BNC connector | |
| Video Output | Composite Output | N/ | 'A | |
| Audio Input | Compression | N/A | 8kHz, Mono, PCM | |
| Addio Iriput | Audio Line Input | N/A | 8, Unbalanced, 1.4 Vpp, 1Vrms, 3.5 mm Jack | |
| Audio Output | Compression | N/A | 8kHz, Mono, PCM | |
| Audio Output | Audio Line Output | N/A | 8, Unbalanced, 1.0 Vpp, 1Vrms, 3.5 mm Jack | |
| Alarm | Input | 2 , TTL, terminal block (per channel) | | |
| Alailli | Output | 2 , TTL, terminal block (per channel) | | |
| Remote Control | Serial Port | RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block (per channel) | | |
| F. 4 11/0 | Reset Button | Factory | default | |
| External I/O | LED | System status | (per channel) | |
| Nationali | Ethernet | Ethernet (10/100Base | e-T), RJ-45 connector | |
| Network | Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP | | |
| | Web Browser | Microsoft Internet Explorer 6.0 or above | | |
| Software | SDK | ActiveX control, C SDK | | |
| Sollware | PTZ Protocol | Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, | Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2 | |
| | Security | Password Protection: confi | gured by the administrator | |
| Operating | Temperature | 5 ~ 50 °C (4 | 0 ~ 122 °F) | |
| Power | Power Requirement | AC 100 - 240 |) V 50/60 Hz | |
| rowei | Power Consumption | 300 | W | |
| Dhysical | Dimensions | 434 mm x 236 mm x 44.3 m | m (17.09" x 9.295" x 1.744") | |
| Physical | Weight | 4.2 | Kg | |

| Model Name | w/ Audio | w/o Audio |
|------------|----------|-----------|
| SED-2600 | | V |
| SED-2610 | V | |



Video Transcoder

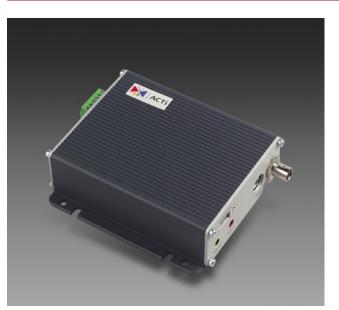




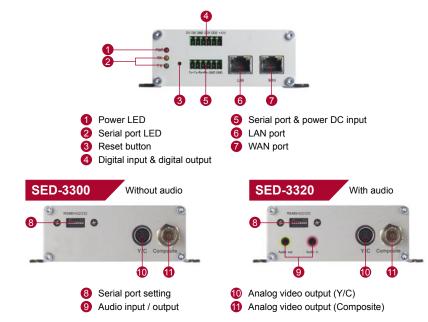
| Model Name | SED-3300 | SED-3320 |
|-----------------------|-----------------------------------|-----------------------------------|
| Channel | 1 | 1 |
| Compression | MPEG-4 ASP | MPEG-4 ASP |
| FPS (NTSC/PAL) | 30/25 | 30/25 |
| Max. Video Resolution | 720 x 480(NTSC) 720 x 576(PAL) | 720 x 480(NTSC) 720 x 576(PAL) |
| Bit Rate | 28 K ~ 3 M bps | 28 K ~ 3 M bps |
| Video Connector | Composite x1; Y/C x1 | Composite x1; Y/C x1 |
| Audio | None | 2 way |
| Serial Port | RS-485/422/232 | RS-485/422/232 |
| Alarm Input/Output | 2/2 | 2/2 |
| Protocol | TCP, UDP, RTP, RTSP | TCP, UDP, RTP, RTSP |
| Security | Password/Username protection | Password/Username protection |
| Rack Solution | RMK-2000 | RMK-2000 |
| Ethernet Networks | 10/100Base-T x2 for LAN/WAN | 10/100Base-T x2 for LAN/WAN |
| | | |

QoS-enabled Real-time MPEG-4 Video Transcoder with Two Way Audio Option

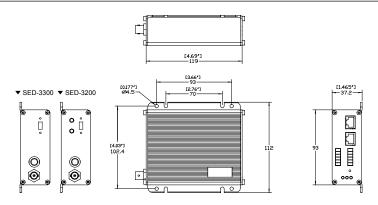
SED-3300/3320



- Up to full D1 MPEG-4 video decoding at 30/25 FPS
- · QoS enabled (L3) video streaming
- Dual MPEG-4 video stream input via LAN or WAN (PPPoE supported) ports at the same time
- · Digital time code retrieved
- Analog image decoded from up to 16 different ACTi devices can be displayed or set for patrol
- Two way audio supported (for SED-3320 only)



DIMENSION DIAGRAM



Unit: mm [inch]



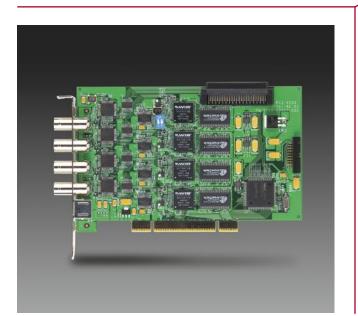
PRODUCT SPECIFICATION

| | | SED-3300 | SED-3320 | |
|------------------------|--------------------|--|--|--|
| | Compression | MPEG-4 AS | P decoding | |
| Video (Compression) | Picture Resolution | Full D1 (720 x 480 in NTSC, 720 x 576 in PAL); CIF (352 x 240 in NTSC, 352 x 288 in PAL) | | |
| , , | Image Frame Rate | 30 fps at full D1 resolution (NTSC) | ; 25 fps at full D1 resolution (PAL) | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω loading, BNC connector; Y/C, 1.0Vp-p with 75 Ω loading/0.286Vp-p with 75 Ω loading, S connector | | |
| Audio Input | Compression | N/A | 8 kHz, Mono, PCM | |
| Audio Iriput | Audio Line Input | N/A | Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Jack | |
| Audio Output | Compression | N/A | 8 kHz, Mono, PCM | |
| Audio Output | Audio Line Output | N/A | Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Jack | |
| A.I | Input | 2, TTL, terminal block | | |
| Alarm | Output | 2, TTL, terminal block | | |
| Remote Control | Serial Port | RS-485: half duplex, terminal block; RS-422: full duplex, terminal block; RS-232: full duplex, terminal block | | |
| External I/O | Reset Button | Factory default | | |
| External I/O | LED | System | System status | |
| | LAN Port | Ethernet(10/100 Base | e-T), RJ-45 connector | |
| Network | WAN Port | Ethernet(10/100 Base | e-T), RJ-45 connector | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, Pf | PPoE, RTP, RTSP, FTP, SMTP | |
| | Web Browser | Microsoft Internet Explorer 6.0 or above | | |
| Software | SDK | ActiveX control, C SDK | | |
| | Security | Password Protection : conf | igured by the administrator | |
| Operating | Temperature | 5 ~ 50 °C (4 | 0 ~ 122 °F) | |
| ъ | Power Requirement | DC 12 \ | / ±10% | |
| Power | Power Consumption | 7.5 | W | |
| Dhysical | Dimensions (WxHxD) | 112 mm x 37.2 mm x 119 | mm (4.41" x 1.46" x 4.68") | |
| Physical | Weight-Net | 350 g (| 0.66lb) | |

| Model Name | w/ Audio | w/o Audio |
|------------|----------|-----------|
| SED-3300 | | V |
| SED-3320 | V | |

/ideo

PCI-4100



4-channel MPEG-4 Video Audio Compression Card

- 4 channel video/audio inputs via BNC and RCA connectors
- MPEG-4 ASP compliant hardware compression
- CIF up to full D1 resolution at 30/25 FPS per channel
- · Digital time code embedded
- Windows WDM Driver (DirectShow Filter Supported)
- · Video signal loss detection

▶ MPEG-4 compression gives a high resolution image quality

The PCI-4100 adopts MPEG-4 ASP compliant compression technology which can compress video data into MPEG-4 video streaming while maintaining resolution up to full D1, 30 fps at NTSC and 25 fps at PAL. To sustain the image quality of each channel, 4 encoders are put on the board to process signals from the 4 independent image sources. Under this design, each channel can be real-time previewed and recorded as well as displayed by Full D1 resolution.

Another special feature of PCI-4100 is the embedded digital time-code. Any attempts to change the images will destroy the time code, which can be applied to identify forged images.

The PCI-4100 also supports a daughter card, DIO-1100 for DI/O functions. The DIO-1100 provides 4-ports dry/wet switch digital inputs with photo couple, and 4 relay output channels with surge protection. It supports RS-232, RS-422 or RS-485 for easy integration with external devices.

Ultra extensibility to provide a 16-channel real-time solution

The additional enhancement of PCI-4100 is its extensibility of utilizing four PCI-4100 cards to connect to one PCI-6100 Real-time Display Card, thus providing a real-time solution of 16 channel video display preview on both VGA and TV monitor simultaneously.

Other features such as motion detection, blind cameras detection, multiplexer are also enabled when connecting to PCI-6100 real-time display card.

PRODUCT SPECIFICATION

| Compression | MPEG-4 ASP compliant compression | Compression | 8 kHz, Mono, PCM |
|--------------------|--|------------------|--|
| | Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (160x112 in NTSC, 176x144 in PAL) | Audio Line Input | Unbalanced, 1.4Vp-p, 1Vrms, Mini Din |
| Picture Resolution | | Web Browser | Microsoft Internet Explorer 6.0 or above |
| Inches France Date | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) 4, CVBS, 1.0Vp-p with 75Ω loading, | SDK | ActiveX control, C SDK |
| Image Frame Rate | | Security | Password protection : configured by the |
| Composite Input | | Occurry | administrator |

ORDERING INFORMATION

| Model Name | Description |
|------------|---|
| PCI-4100 | 4-channel MPEG-4 video audio compression card |

ACCESSORY OPTIONS

Digital I/O board (4-in, 4-out)

DIO-1100





ę.

PCI-6100

Real-time Display Card Supports up to 16 Channels of Video Output



- 16 live video channels previewing at the same time
- · Hardware motion detection
- · Video loss detection
- · Blind camera detection
- · VGA and TV output supported

16 channels of video displaying at the same time

The PCI-6100 is a real-time display card that supports maximum 16 channels of live digital video signal from four PCI-4100 video compression cards, or four PCI-5100 video decoder cards. To decrease system loading when displaying 16 video channels simultaneously, PCI-6100 utilizes hardware computing technology to process the video display. Compared with using software computing to finish these tasks, hardware computing can share most loadings of CPU and thus can have higher system performance as well as sustain a video resolution up to Full D1.

Through the BNC connector on the PCI-6100, video data can be displayed on both TV monitor and VGA monitor at the same time without extra signal converters.

Extra features enhance the power of PCI-4100/PCI-5100

There are some additional functions of the PCI-6100 to support the PCI-4100/PCI-5100 in :

- Motion detection: In addition to utilizing the hardware computing to lower system resource consumptions in motion detection, PCI-6100 also enables motion detection to specific areas on the screen, or settings to the sensitivity of motion upon different situations.
- 2. Video loss or blind images detection: The PCI-6100 can auto-detect if the video signal is lost or camera lens are covered.
- 3. Multiplexing: The PCI-6100 can split the TV monitor screen into different sections for multi-channel preview without any extra physical multiplexer.

PRODUCT SPECIFICATION

| Video (Compression) | | |
|---------------------|---|--|
| Compression | MPEG-4 Decoding | |
| Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) | |
| Image Frame Rate | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) | |

| Video Output | Video Output | | | |
|------------------|--|--|--|--|
| Composite Output | 1, CVBS, 1.0Vp-p with 75 Ω loading, BNC connector | | | |
| Software | Software | | | |
| Web Browser | Microsoft Internet Explorer 6.0 or above | | | |
| SDK | ActiveX control, C SDK | | | |
| Security | Password protection : configured by the administrator | | | |

| Model Name | Description |
|------------|--|
| PCI-6100 | Real-time display card with 16-channel video outputs |

^{*} All specifications are subject to change without notice.

^{*} All brand names and registered trademarks are the property of their respective owners



PCI-5100

4-channel MPEG-4 Video Decoder Card



- MPEG-4 hardware decompression supported
- CIF up to Full D1 resolution at 30/25 FPS
- 4 composite video outputs

▶ MPEG-4 decompression gives a high resolution image quality

The PCI-5100 are the 4-channel PCI-based decoding add-in cards that provide high performance MPEG-4 decoding from a local HD, or a remote ACTi video products to analog video/audio signals. This allows analog video devices such as TV system, analog monitors or existing analog video switches to be connected to an ACTi IP-based video system.

Ultra extensibility to provide a 16-channel real-time solution

The PCI-5100 also provides digital video signals output via an ACTi proprietary cable connect to the ACTi's PCI-6100, the real-time display PCI-based add-on Card. This saves lots of CPU loading for supporting a larger system.

PRODUCT SPECIFICATION

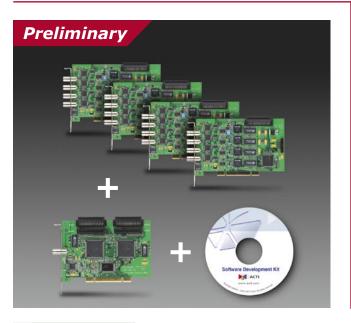
| Video (Compression) | | |
|---------------------|--|--|
| Compression | MPEG-4 decoding | |
| Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) | |
| Image Frame Rate | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) | |

| Video Output | | |
|----------------------------|---|--|
| Video Output | 4, CVBS, 1.0Vp-p with 75Ω loading, loading, BNC connector | |
| Software | | |
| Web Browser | Microsoft Internet Explorer 6.0 or above | |
| SDK ActiveX control, C SDK | | |
| Security | Password protection : configured by the administrator | |

| Model Name | Description |
|------------|-------------------------------------|
| PCI-5100 | 4-channel MPEG-4 video decoder card |

nDVR Development Kit for **Hybrid nDVR Solution**

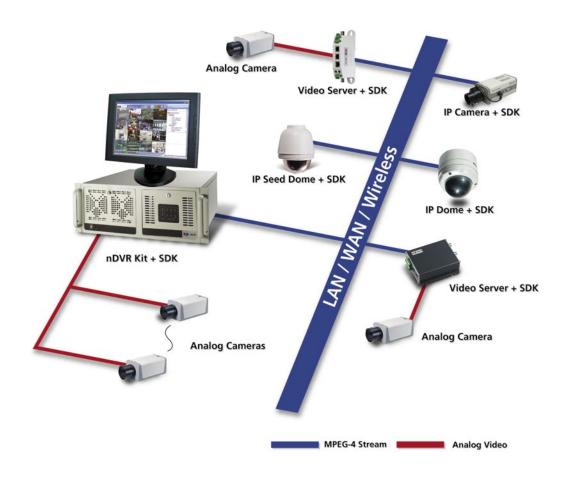
nDVR Development Kit



- · Easy to integrate into video surveillance applications
- Visual C, C++ support
- · Maximum 16-channel video and audio inputs
- Maximum 16-channel live preview at the same time
- MPEG-4 ASP compliant hardware compression
- CIF up to Full D1 resolution at 30/25 FPS
- Digital time code embedded
- Windows WDM driver (DirectShow Filter Supported)
- · Video signal loss detection
- · Hardware motion detection
- · Blind camera detection

nDVR Solution







nDVR Development Kit

PRODUCT SPECIFICATION

| Compression | MPEG-4 ASP compliant hardware compression | |
|--------------------------|---|--|
| Resolution | QCIF (NTSC: 160 x 112, PAL: 176 x 144) CIF (NTSC: 352 x 240, PAL: 352 x 288) Full D1 (NTSC: 720 x 480 , PAL: 720 x 576) | |
| Image Frame Rate | 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL) | |
| Video Input | Composite, BNC connector | |
| Video Output | Composite, BNC connector x1 | |
| Audio Output | Unbalance audio, RCA connector | |
| PCI Interface | PCI 2.1 compliant | |
| Device Driver | Driver supports Windows 2000, Windows XP and Windows 2003 | |
| Programming Languages | Visual C++ v6.0, Visual Studio.Net 2003 | |
| Live Preview | Streaming and decode MPEG-4 information | |

| Recording | Background recording, alarm recording, pre-event and post-event recording |
|----------------------|--|
| Playback | MPEG-4 decoding and display |
| Motion Detection | Callback function supported when a motion detected |
| Digital I/O Event | Callback function supported when a digital input is triggered |
| Serial Port Function | Sends serial port command |
| PTZ Function | Pelco-P and Pelco-D protocol sample code included |
| Others | 1. Digital time-code embedded 2. Windows WDM Driver (DirectShow Filter supported) 3. Video signal lose detection 4. Motion detection 5. Video loss and blind camera detection 6. VGA and TV output support |

System Requirement

| CPU | Pentium IV 2.8 GHz and above |
|--------------------|---|
| PCI Slots | 5 (32bit/33Mhz PCI slot) for maximum load (PCI-4100 x4 + PCI-6100 x1) |
| System Memory | 512 MB |
| Network Connection | 1 Gbps Ethernet |

| Display | AGP 8X with 64 MB memory and above |
|--------------|------------------------------------|
| Hard Disk | 40 GB and above |
| Power Supply | ATX 300 W |

Detail qualified vender list is provided upon request. Please conact your sales representatives for more detial informaiton.

Integration Test

Power Push-Button (Manual-mode ; count = 50)

PCI-4100 Video-in Plug-in / Pull-out (Manual-mode; count = 50)

Reset Functional (Manual-mode; count = 50)

Network Connection: 1 Gbps Ethernet

NTSC Video-in (BNC-type) Interface Functional Test

PAL Video-in (BNC-type) Interface Functional Test

Digital I/O Interface Connector Functional Test

nDVR Kit Content

| PCI-4100 | 4-channel MPEG-4 Video Audio Compression Card | |
|---------------------|--|--|
| PCI-6100 | 16-channels Real time Video Output Display Card (optional) | |
| SDK-4000 / SDK-6000 | nDVR SDK for PCI-4100 and PCI-6100 | |

ACCESSORY OPTIONS

• Digital I/O board (4-in, 4-out)

DIO-1100



SEM-1110/1120

MPEG-4 Encoder Module

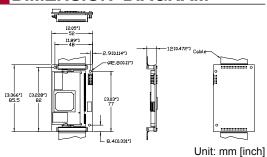


- MPEG-4 ASP compliant compression
- CIF up to full D1 resolution at 30/25 FPS
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- · QoS enabled (L3) video streaming
- · Digital time code embedded
- · Bi-directional audio supported
- · Isolated digital input and output supported
- Three options for video interfacing composite or S-Video or component

PRODUCT SPECIFICATION

| | | SEM-1110 | SEM-1120 | | |
|--------------------|----------------------------------|---|---|--|--|
| | Compression | MPEG-4 AS | SP compliant | | |
| Video Compression | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NTSC, 352x288 in PAL); QCIF (160x112 in NTSC, 176x144 in PAL) | | | |
| | Bit Rate | 28 K ~ 3 M bps | | | |
| | Image Frame Rate | 30fps at full D1 resolution (NTSC); 25fps at full D1 resolution (PAL) | | | |
| | Multi-stream | Up to 4 configurable frame rate/bit ra | ite streams for preview and recording | | |
| Video Input | Composite Input Digital Input | CVBS, 1.0Vp-p with 75 Ω loading Y/C, 1.0Vp-p YPbPr, 1.0Vp-p with 75 Ω load | with 75 Ω loading/ 0.286Vp-p with 75 Ω loading ling/ 0.7Vp-p with 75 Ω loading | | |
| Video Output | Composite Output | CVBS, 1.0Vp-p | with 75Ω loading | | |
| Audio Input | Compression | 8kHz, Mono, PCM | N/A | | |
| Audio iriput | Audio Line Input | Unbalanced, 1.4Vp-p, 1Vrms | N/A | | |
| Audio Output | Compression | 8kHz, Mono, PCM | N/A | | |
| Audio Output | Audio Line Input | Unbalanced, 1.4Vp-p, 1Vrms | N/A | | |
| Alarm Input 2, TTL | | TTL | | | |
| Alailii | Output | 2, TTL | | | |
| Remote Control | Serial Port | RS-485: half duplex; RS-422: full duplex; RS-232: full duplex | | | |
| External I/O | Reset Key | Factory default | | | |
| LXterriar i/O | LED | System | n status | | |
| | LAN Port | Ethernet(10/100Base-T) | | | |
| Network | WAN Port | Ethernet(10/100Base-T) | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP | | | |
| | Web Browser | Microsoft Internet Explorer 6.0 or above | | | |
| Software | SDK | ActiveX control, C SDK | | | |
| | Security | Password protection: configured by the administrator | | | |
| Operating | Temperature | -30 °C to 60 °C (-86 °F ~ 140 °F) | | | |
| Power | Power Requirement | DC 12 V ±10% | | | |
| rowel | Power Consumption | 7.5 | 5 W | | |
| Physical | Dimensions | 52 mm x 85.5 mm x 12 n | nm (2.05" x 3.37" x 0.47") | | |
| i ilysicai | Weight | 50 g (0 | 0.01 lb) | | |

DIMENSION DIAGRAM



ORDERING INFORMATION

| Model Number | w/ Audio | w/o Audio | Wire to Board Connection | w/ Casing | Board to Board Connection |
|-----------------|-------------------------|-------------|--------------------------------|-------------|---------------------------------|
| SEM-1110 | V | | V | | |
| SEM-1110C | V | | V | V | |
| SEM-1111 | V | | | | V |
| SEM-1120 | | V | V | | |
| SEM-1120C | | V | V | V | |
| SEM-1121 | | V | | | V |
| * EVD 0400 | at carrier and a second | 1 C OFN 444 | 0/0514 44400/0 | EN 4400/0EN | 44000 :- |

EVB-2100 evaluation board for SEM-1110/SEM-1110C/SEM-1120/SEM-1120C is



Module Housing

^{*} All specifications are subject to change without notice.
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SEM-2110/2120

MPEG-4 Decoder Module

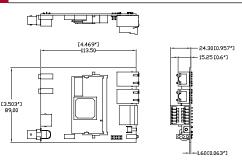


- Up to full D1 MPEG-4 video decoding at 30/25 FPS
- · QoS enabled (L3) video streaming
- Dual MPEG-4 video stream output via LAN and WAN (PPPoE supported) ports at the same time
- Digital time code retrieved
- · Isolated digital input and output supported

PRODUCT SPECIFICATION

| | | SEM-2110 | SEM-2120 | | | |
|-------------------|--------------------|--|---------------------------|--|--|--|
| | Compression | MPEG-4 AS | P decoding | | | |
| Video Compression | Picture Resolution | Full D1 (720x480 in NTSC, 720x576 in PAL); CIF (352x240 in NTSC, 352x288 in PAL) | | | | |
| | Bit Rate | 28 K ~ 3 M bps | | | | |
| | Image Frame Rate | 30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL) | | | | |
| Video Output | Composite Output | CVBS, 1.0Vp-p with 75 Ω Y/C, 1.0Vp-p with 75 Ω loading/ 0.286 | | | | |
| Audio Input | Compression | 8 kHz, Mono, PCM | N/A | | | |
| Audio iriput | Audio Line Input | Unbalanced, 1.4Vp-p, 1Vrms | N/A | | | |
| Audio Output | Compression | 8 kHz, Mono, PCM | N/A | | | |
| Addio Odiput | Audio Line Input | Unbalanced, 1.4Vp-p, 1Vrms | N/A | | | |
| Alarm | Input | 2, TTL | | | | |
| AldIII | Output | 2, TTL | | | | |
| Remote Control | Serial Port | RS-485: half duplex; RS-422: full duplex; RS-232: full duplex | | | | |
| External I/O | Reset Key | Factory | default | | | |
| External I/O | LED | System | status | | | |
| | LAN Port | Ethernet(10/100Base-T) | | | | |
| Network | WAN Port | Ethernet(10/100Base-T) | | | | |
| | Protocol | TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP | | | | |
| | Web Browser | Microsoft Internet Ex | xplorer 6.0 or above | | | |
| Software | SDK | ActiveX control, C SDK | | | | |
| | Security | Password protection: configured by the administrator | | | | |
| Operating | Temperature | -30 °C to 60 °C (-86 °F ~ 140 °F) | | | | |
| Power | Power Requirement | DC 12 V ±10% | | | | |
| 1 01101 | Power Consumption | 7.5 W | | | | |
| Physical | Dimensions | 89 mm x 116.8 mm x 24.3 | mm (3.5" x 4.55" x 0.95") | | | |
| i ilyalodi | Weight | 150 g (| 0.35 lb) | | | |

DIMENSION DIAGRAM



Unit: mm [inch]

| Model Number | w/ Audio | w/o Audio |
|--------------|----------|-----------|
| SEM-2110 | V | |
| SEM-2120 | | V |





RMK-1000

Rackmount Kit for DIN Rail Type Devices



- 19-inch 3U Rackmount DIN rail design
- Standard 35 x 7.5 mm DIN rail
- 4 separated DIN rail mounting planes
- · Dedicated fan for cooling ventilation
- · Better and fast access for installation and maintenance
- Flexible mounting environment
- Minimal setup cost

The RMK-1000 is a 3U high 19-inch rackmount DIN rail designed for easy access and install for those devices with the DIN rail design such as ACTi's SED-2100 video server. The RMK-1000 provides the space efficiency required in applications that need the central management for high volume of DIN rail devices.

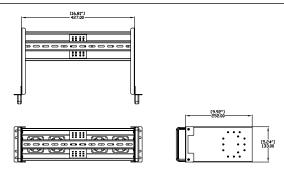
The RMK-1000 also provides a set of 5 fans cooling method for best ventilation. Each of the fans is replaceable if it reaches its end of life or by customer's request for higher CFM of air flow or lower dBA of noise.

For installing the ACTi's SED-2100, a DIN rail mounting bracket is needed, It is recommended that a max. of 16 pieces of the SED-2100 are installed for the best ventilation; there are 8 pieces in each side.

PRODUCT SPECIFICATION

| Construction | Heavy-duty steel |
|--------------------------------|---|
| Din Rail | 4 (35 mm x 7.5 mm) |
| Applied Devices for RMK-1000 | SED-2100 |
| Max. Supported Device Quantity | 16 |
| Cooling Fan | 5 (60 mm x 60 mm x 25 mm) |
| Power for FAN | Input : 100-240 Vac AC-DC adapter Output: 12 Vdc / 1.5 A |
| Operation Temperature | 5 °C ~ 50 °C (40 °F ~ 122 °F) |
| Color | Beige |
| Dimension (W x D X H) | 427 mm x 133 mm x 252 mm (16.8" x 5.24" x 9.92") |

DIMENSION DIAGRAM



Unit: mm [inch]

^{*} All specifications are subject to change without notice.

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



RMK-2000

Rackmount Kit for Wallmount Type Devices



- 19-inch 4U Rackmount Kit
- · Dedicated FAN for cooling ventilation
- Better and fast access for installation and maintenance
- · Flexible mounting environment
- Minimal setup cost
- Support up to 8 devices

The RMK-2000 is a 4U high 19-inch rackmount Kit designed for easy access and install for ACTi MPEG-4 IP Surveillance products in wallmount types. The RMK-2000 provides the space efficiency required in applications that need the central management for high volume of ACTi MPEG-4 IP Surveillance devices.

The RMK-2000 also provides a set of 8 fans cooling method for best ventilation, each of the fans is replaceable if it reaches its end of life or by customer's request for higher CFM of air flow or lower dBA of noise.

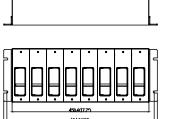
PRODUCT SPECIFICATION

| Construction | Heavy-duty steel |
|--------------------------------|---|
| Applied Devices for RMK-2000 | SED-2120/SED-2140/SED-2310Q/ SED-2320Q/ SED-2410/SED-2420/SED-3300/ SED-3320 |
| Max. Supported Device Quantity | 8 |
| Cooling Fan | 8 (60 mm x 60 mm x 25 mm) |
| Power for FAN | Input: 100-240 Vac AC-DC adapter Output: 12 Vdc / 1.5 A |
| Operation Temperature | 5 °C ~ 50 °C (40 °F ~ 122 °F) |
| Color | Black |
| Dimension (W x D X H) | 505.4 mm x 216.25 mm x 176.3 mm (19.9" x 8.5" x 6.9") |

ACCESSORY OPTIONS

| FRONT-BEZEL for SED-2410/SED-2420 | 0306-00003-000 |
|--|----------------|
| FRONT-BEZEL for SED-2120/SED-2140/ SED-2310Q/SED-2320Q/SED-3300/SED-3320 | 0306-00004-000 |
| FRONT-BEZEL for SED-8100 | 0306-00005-000 |
| FRONT-BEZEL for SED-8120/SED-8140/ SED-8310Q/SED-8320Q/SED-9300/SED-9320 | 0306-00006-000 |
| FRONT-BEZEL for General | 0306-00007-000 |
| | |

DIMENSION DIAGRAM





Unit: mm [inch]



IP Integration Products

PoE

MS-POE-PD1212



802.3af Enable PoE Splitter

- · Work with 802.3af PSE (Power Source Equipment), as a data/power splitter and DC to DC converter
- · With surge voltage protection
- Support 12 V DC, 1 A max.
- Plastic Case Dimension: 85mm (D) x 76mm (W) x 36mm (H)
- · Weight: 150 g
- CAT-5 UTP cable length: 30 cm, RJ-45 plug, gray color
- DC power cable length: 30 cm, DC power plug, gray color

MS-POE-IJAF



802.3af Enable PoE Injector

- Fully IEEE 802.3af enable solution.
- Transform AC power to 48 V DC power
- Inject 48 V DC through CAT-5 cable pin# 4,5, 7, 8, into remote devices such as Wireless AP, IP Phone, Web Camera, etc.
- Input: AC 90 V AC 264 V / 0.4 A @ 110 Vac, 0.2 A @ 220 Vac
- OUTPUT: DC 48 V, 350 mA
- · Plastic case dimension: 85 mm (L) x 76 mm (W) x 36 mm (H)
- Weight: 150g

POE-1200



FGSW-2402PVS



MidSpan Switch

- · 12-port 802.3af in-line mid-span power injector box
- Comply with IEEE802.3, IEEE802.3u, 10/100Base-TX
- Comply with IEEE802.3af, 48VDC power over unused twisted-pair wires
- Full power support for per POE
- · Circuit protection to prevent power interference between ports
- Support POE-150S · MOQ: 5 PCS

PoE Switch

- · Complies with the IEEE802.3, IEEE802.3u, IEEE802.3z and IEEE802.3ab Gigabit Ethernet standard, IEEE802.3af Power over Ethernet standard
- 24-Port 10/100 Mbps Fast Ethernet ports with PoE support
- 2 open slots for 10/100Base-TX, 1000Base-T and 100Base-FX, 1000Base-SX/LX fiber-optic interface connection varied by media and distance
- MOQ: 5 PCS

Wireless (Outdoor)

ALink-5801



Broadband Wireless Bridge Solutions (1 Master to 4 Salves in maximum)

- Standard: IEEE 802.11a
- Output Power: 20 dBm
- · Operation Mode: Bridge only (1 Master to 4 Slaves)
- Turbo Function to 108 Mbps
- Operation Temperature: -30 ~ 70 Celsius degree
- Accessories: CAT5 Cable, DC Injector, Power Adaptor
- · Without Antenna

R-ASU-24005g



Broadband Wireless Access Point Solutions (AP/Bridge/Client)

- Standard: IEEE 802.11b, IEEE 802.11g, IEEE 802.3, IEEE802.3u, IEEE802.3x
- · Output Power: 18 dBm (802.11b), 17 dBm (802.11g)
- Operation Mode: AP / Wireless Client (Infrastructure and Ad Hoc) / Repeater / WDS PtP and PtMP Mode
- Operation Temperature: -20 °C ~ +70 °C
- · Combined Antenna: Integrated 12 dBi flat panel antenna
- · Accessories: 12 V DC Injector/RJ-45, Bracket, FTP CAT5E/25M RJ-45, Switch Adaptor, 2 M RJ-45

R-AAP-24005g



Broadband Wireless Access Solutions (AP/Bridge)

- Standard: IEEE 802.11b, IEEE 802.11g, IEEE802.3, IEEE802.3u
- Output Power: 23 dBm
- · Operation Mode: 802.11b: 70 mW 18 dBm 802.11g: 35 mW 14 dBm 802.11g+1W Booster: 30 dBm
- Operation Temperature: -30 ~ 70 Celsius degree
- · Combined Antenna: 18 dRi Panel

Wireless (Indoor)

WL-699C



802.11g Wireless **Ethernet Adapter**

- IEEE 802.11b/g standard compliant with data rate of up to 54Mpbs
- · Enable consumer electronic devices with LAN port operate wirelessly
- WEP&WPA Encryption security
- Easy-to-setup and easyto-operate

WX-6800GS



108Mbps Wireless 11g Multi-Function AP

- · Dual mode capability protects your 802.11b wireless investment and has you ready for the 802.11g
- · WDS extends the wireless coverage Enhance the user network security
- WPA dynamic key provides better data security than traditional static key
- Intuitive Web-based management makes easy configuration and maintenance

^{*} All specifications are subject to change without notice.

.

Accessories

Antenna for Wireless

AN51812B



5.8GHz Omni-directional Antenna

- Frequency Range: 5.1~5.9 GHz
- Impedance: 50 OHMS \pm 5 Ω
- SWR: ≤1.5
- Gain: 12 dBi
- · Radiation: Omnidirectional
- Polarization: Vertical
- Connector: N-FEMALE
- Weight: 370g

AN51818A



5.8GHz Flat panel Antenna

- Frequency Range: 5.1~5.9 GHz
- Impedance: 50 OHMS \pm 5 Ω
- SWR: ≤1.5
- · Gain: 18 dBi
- · Radiation: Directional
- · Polarization: Vertical
- Connector: N-FEMALE
- · Weight: 900g
- Size (mm):

L 263mm ×W 263 mm ×H 30mm

AN58022D



Gridpak Antenna

- Frequency range: 5725-5850 MHz
- Gain: 22dBi
- VSWR: < 1.5:1 avg.
- · Polarization: Horizontal or Vertical
- HPBW / horizontal: 13°
- HPBW / vertical: 10°
- · Front to back ratio: 25 dB
- · Max. Input Power: 100 Watts
- Impedance: 50ohms
- Connector: N-Female
- Weight: 3 lbs. (1.4 kg)

AN51823A



Directional Panel Antenna

- Frequency range: 5150-5875MHz
- Gain*: 23dBi
- VSWR: 2.0:1Max
- · Polarization: Linear
- HPBW / horizontal: 9°
- · HPBW / vertical: 9°
- Front to back ratio: 30dB
- · Power handling: 1W
- Impedance: 50ohms
- · Connector: N-Female
- · Weight: 1.2kg
- Dimensions: 320x320x18mm

Outdoor Housing

GL-606



Outdoor Housing

- Construction: Aluminum (Beige Baked Enamel)
- Mounting: From Bottom
- Dimension (W x H x D): 113 mm x 106 mm x 410 mm
- · Weight: 2.7 Kg
- · Heater & Blower (Option)
- IP66, CE

Bracket

GL-201





Bracket

- · Construction: Plastic / Ivory Color
- Maximum Load: 3.5 Kg
- Swivel Angle: 360°
- Dimension (L x Baseplate): GL-201: 175 mm x 89 mm
- Weight: 160 g

GL-205N



Housing Bracket

- Construction: Aluminum (Beige Silver-grey)
- Maximum Load: 10 Kg
- Swivel Angle: 360°
- Tilt Angle: 90°
- Dimension (W x L x H): 85 x 100 x 285mm
- Weight: 750g

CCTV Lens

0690-00002-000



0690-00004-000



| Model No. | Focus | Aperture | Mount | Format | | of View zontal) | M.O.D. | Remark | Support Devices |
|----------------|---------|----------|-------|--------|------|--------------------|--------|-----------------|---------------------|
| | (mm) | (F) | | | 1/2" | 1/3" | (IVI) | | |
| 0690-00002-000 | 3.0-8 | 1.0 | CS | 1/3" | - | - | - | Auto DC Iris | CAM-5100 / CAM-5200 |
| 0690-00004-000 | 5.0-55 | 1.4 | CS | 1/3" | - | 61°-5° | 0.15 | Auto DC Iris | CAM-5100 / CAM-5200 |
| 0690-00012-000 | 3.0-8.5 | 1.0 | CS | 1/3" | - | 90.5°-33.6° | - | IR DC Auto Iris | CAM-5120 |
| 0690-00013-000 | 7.5-50 | 1.3 | CS | 1/3" | - | 27.5°-20.4° | - | IR DC | CAM-5120 |



Accessories

Speed Dome Mounting (CAM-6500/CAM-6600 Series)

D77H06-H00



Hard Ceiling Mount

- Height: 21.4mm;
 Diameter of the three holes: 4.5mm;
 Diameter of the bracket: 158mm; 0.2kg
- For CAM-6500 Series

69-77H05AIMK



Indoor Mount Kit

- White; Diameter:
 140 mm (5.5 inches);
 Height: 74 mm (2.9 inches)
- For CAM-6500 Series

D77H05-WBM



Wall Box Mounting

270x166x95mm (10.6x6.5x3.7 inches); 2.2kg (4.84lbs)

D77H06-T25



T-Bar Ceiling Mount

- Height: 170 mm (6.7 inches);
 Diameter: 180 mm (7.1 inches);
 0.5 kg (1.1 lbs)
- For CAM-6500 Series

D77H03-BW



Gooseneck Tube

White/Iron; 298×385 mm (11.73×15.56 inches); 2.1 kg (4.6 lbs)

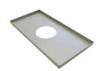
D77H05-CTB



Corner Thin Box Mounting

300x164x222mm (11.8x6.5x8.7 inches); 3kg (6.7lbs)

90-77H061P00



Ceiling Panel

- Zn platted;
 610×305 mm (24×12 inches);
 Diameter: 135 mm (5.3 inches)
- For CAM-6500 Series

D77H03-1W

D77H03-2W



Straight Tube

White/Iron; Height: 250/500 mm (9.8/19.7 inches); Diameter:50 mm (2 inches); 1 kg (2.2 lbs) / 1.8 kg (4 lbs)

D77H05-PTB



Pole Thin Box Mounting

291x170x250mm (11.5x6.7x9.8 inches); 3.1kg (6.9lbs)

Speed Dome Bracket (CAM-6100/CAM-6200 Series)

SAD755



Speed Dome Corner Mount Bracket

- · Color: Beige
- Dimensions: 210 x 305 x 180 mm
- Combined with SAD752 + SAD753
- Weight: 1.8 Kg
- For CAM-6100 Series

SAD756



Speed Dome Pole Mount Bracket

- Color: Beige
- Dimensions: 180 x 60 x 240 mm
- Combined with SAD752 + SAD753
- · Weight: 1.2 Kg
- For CAM-6100 Series

QA-302



Speed Dome Corner Mount Bracket

- Color: Beige
- Dimensions: 279 x 239 x 313.5 mm
- Weight: 3.5 Kg
- For CAM-6200 Series

QA-305



Speed Dome Pole Mount Bracket

- Color: Beige
- Dimensions: 174 x 51 x 238 mm
- Weight: 3.5 Kg
- For CAM-6200 Series

^{*} All specifications are subject to change without notice.

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Accessories

Speed Dome Cover

61-PDH700105A1

(Non-Vandal)



5" Transparent Cover for CAM-6500

Diameter: 127 mm

69-H8101CA1

(Non-Vandal)



6" Transparent Cover for CAM-6600

Diameter: 152 mm

61-PDH700106A1

(Non-Vandal)

61-PDH700109A1

(Vandal)



5.4" Transparent Cover for CAM-6500

Diameter: 137 mm

69-DH8001CV1

(Vandal)



6" Transparent Cover for CAM-6600

Diameter: 152 mm

61-PDH700107A1

(Non-Vandal)



5" Smoke Cover for CAM-6500

Diameter: 127 mm

69-DH8101CS1

(Non-Vandal)



6" Smoke Cover for CAM-6600

Diameter: 152 mm

Control Panel

0697-00001-000



Control Panel for CAM-6100 Series

- RS-485/422/232 multi-protocols
- · Controls up to 256 speed domes directly
- Compatible with CAM-61xx series
- Presets, tour, auto scan, random scan and frame scan control
- RS-232 port for computer to control cameras via this control panel
- Support Pelco-P / Pelco-D protocol
- Dimensions (W x H x D): 175 x 248 x 55 mm
- · Weight: 1.2 Kg

0697-00002-000



Control Panel for CAM-6200 Series

- Communication port: RS485
- · Controls up to 255 speed domes directly
- Compatible with CAM-62xx series
- Presets, tour, auto pan and patrol learn
- Set up as "Master" and "Slave" keyboard, max. up to 4 keyboard to enable the function of the multi-control system
- Support Pelco-P / Pelco-D / Eyeview / Alec protocol
- Dimensions (W x H x D): 350 x 62 x 200 mm
- · Weight: 5.5 Kg

0697-00003-000



Control Panel for CAM-6500 Series/ CAM-6600 Series

- · RS-485 port for CCTV system control
- Built-in DSCP, Pelco D&P protocol
- Joystick control of PTZ functions
- · Preset position and Cruise control
- User-friendly interface
- Firmware upgrade via RS-232
- Control Dome cameras, P/T/Z Receivers, Multiplexers, DVRs
- Maximum 255 devices can be controlled on the same bus, included 223 Dome Cameras or Receivers, 16 System Keyboards
- Dimensions (W x H x D): 175 x 330 x 65 mm
- Weight: 1.5 Kg

Others

90-D77H05AT02



Cutting Tools for Stainless Straps 1.4 kg (3.1 lbs)

69-77H071C00



Alarm Kit

White Color; 92×42 mm (3.7×1.7 inches); 0.13 kg (0.3 lbs)

69-77H071PD13



Power Box (IP66)

- White; 186.5×147 mm (7.3×5.8 inches); 2.6 kg (5.8 lbs)
- PD13 Input: 10~115VAC/Output: 24VAC 72VA
- PD23 Input: 220~230VAC/Output: 24VAC 72VA







- Easy to integrate into video surveillance application
- · Simple calls to support preview/record/playback
- Visual C, C++, Visual BASIC and JavaScript supported
- · Sample codes included
- · C Library edition
- ActiveX Control edition
- · URL Command edition
- May decode with XviD, FFMPEG, DivX
- · Support video and audio functions

Versatile support on industry-standard programming languages

ACTi SDK-2000 offers a complete set of function calls to enable quick cost-effective development of IP surveillance application under various developing environment such as Windows API, COM+, AciveX Control and URL command. User may implement video surveillance system using Visual C++, Visual BASIC and Browser Script programming language (HTML + JavaScript). Sample codes (in Visual C++, Visual BASIC and HTML + Java Script) are included. User may use XviD, FFMPEG, DivX or other ISO-14496-2 compliant MPEG-4 software decoder to decode ACTi's MPEG-4 raw data stream.

Software modules

ACTi Streaming SDK modules include User Interface, Media, PTZ, Network, Video Motion Detection and Digital I/O modules. User may program with these modules through supported programming languages.

Decodes with Xvid. FFMPEG

Developers may get MPEG-4 raw stream with a simple function, then decodes with XviD, FFMPEG, DivX or other MPEG-4 compliant software decoders. Users may manipulate these MPEG-4 raw data by themselves, or decode them into RGB buffer and process them as a series of pictures, in this way, you can treat the decoded RGB buffer as if they are MJPEG streams. Sample codes are included.

Sample implementation codes

To implement a video surveillance system with ActiveX Control, the codes is listed as follow:

; preview

objMedia.MediaSource = "192.168.1.1"

objMedia.Account = "root"

objMedia.Password = "password"

objMedia.Play()

;; recording

objMedia.Record(C:\\TEST.AVI")

;; playback

objMedia.MediaSource = "C:\\TEST.AVI"

objMedia.Play()

| Development Er | vironment |
|-------------------------|---|
| Environment | Win 2000, Win XP, Win 2003, WSS2003 |
| Programming Language | Visual C++ v6.0, Visual Studio.Net, Visual Studio. Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript |
| | |
| Format | Support video and audio format |
| Live Preview | Streaming and decode MPEG-4 information |
| Recording | Background recording, alarm recording, pre-event and post-event recording |
| Playback | MPEG-4 decoding and display |
| Motion Detection | Callback function supported when a motion detected |

| | Digital I/O Event | Callback function supported when a digital input is triggered |
|--|--------------------------------|---|
| | Serial Port Function | Sends serial port command |
| | PTZ Function | Pelco-P and Pelco-D protocol sample code included |
| | MPEG-4 Streaming Management | Callback function to get MPEG-4 raw data directly |
| | Standard MPEG-4 Decoding | User may decodes ACTi's MPEG-4 raw data using XviD, FFMPEG, DivX or other standard ISO-14496 compliant MPEG-4 software decoder libraries. |
| | MJPEG Function | Provides function calls to convert ACTi's MPEG-4 stream to a series of RGB buffer |

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SDK for ACTI NVR



- ACTi NVR Integration via URL Commands
- Easy to integrate into video surveillance application
- · Search events and remote playback functions
- Simple calls to support preview/record/playback
- Visual C, C++, Visual BASIC and JavaScript supported
- Sample codes included
- · C Library edition
- · ActiveX Control edition
- URL Command edition
- May decode with XviD, FFMPEG, DivX
- · Supports video and audio functions

▶ Versatile support on industry-standard programming languages

ACTi SDK-2200 offers a complete set of function calls to enable quick cost-effective development of IP surveillance application under various developing environment such as Windows API, COM+, AciveX Control and URL command. User may implement video surveillance system using Visual C++, Visual BASIC and Browser Script programming language (HTML + JavaScript). Sample codes (in Visual C++, Visual BASIC and HTML + Java Script) are included. User may use XviD, FFMPEG, DivX or other ISO-14496-2 compliant MPEG-4 software decoder to decode ACTi's MPEG-4 raw data stream.

URL commands to manage ACTi NVR

User may use URL commands to interact with ACTi NVR system, including manage, monitor ACTi NVR system, search events stored in ACTi NVR system and playback recorded video clip remotely. The commands are listed in XML format; sample codes are included.

Decodes with Xvid, FFMPEG

Developers may get MPEG-4 raw stream with a simple function, then decodes with XviD, FFMPEG, DivX or other MPEG-4 compliant software decoders. Users may manipulate these MPEG-4 raw data by themselves, or decode them into RGB buffer and process them as a series of pictures, in this way, you can treat the decoded RGB buffer as if they are MJPEG streams. Sample codes are included.

| Windows XP, Windows 2000, Windows 2003, WSS 2003 |
|---|
| Visual C++ v6.0, Visual Studio.Net, Visual Studio. Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript |
| |
| Support video and audio format |
| Streaming and decode MPEG-4 information |
| Background recording, alarm recording, pre-event and post-event recording |
| MPEG-4 decoding and display |
| Callback function supported when a motion detected |
| Callback function supported when a digital input is triggered |
| |

| MPEG-4 Streaming Management | Callback function to get MPEG-4 raw data directly | | | |
|--------------------------------|---|--|--|--|
| Standard MPEG-4 Decoding | User may decodes ACTi's MPEG-4 raw data using XviD, FFMPEG, DivX or other standard ISO-14496 compliant MPEG-4 software decoder libraries. | | | |
| MJPEG Function Calls | Provides function calls to convert ACTi's MPEG-4 stream to a series of RGB buffer. | | | |
| ACTi NVR Integr | ACTi NVR Integration | | | |
| Manage | Query system information and add, delete device | | | |
| Monitor | Monitor ACTi NVR system resources, disk capacity, recording and schedule status | | | |
| Search | Search events by channel, date, time, motion detection, alarm event, video loss event and network disconnect event | | | |
| Remote Playback | Playback video clips remotely | | | |
| Remote Preview | Preview IP device via ACTi NVR system | | | |



SDK for Transcoder



- Easy to integrate into video surveillance application
- · Simple calls to link video server and decoding
- Visual C, C++, Visual BASIC and JavaScript Supported
- · Sample codes included
- C Library edition
- · URL Command edition

Versatile support on industry-standard programming languages

ACTi SDK-3000 offers a simple but flexible way to enable quick and cost-effective development of Transcoder management functions with various development environments, such as Windows API, COM+, ActiveX Control and URL commands. User may implement video surveillance system using Visual C++, Visual BASIC and browser script programming language (HTML + JavaScript). Sample codes (in Visual C++, Visual BASIC and HTML + JavaScript) are included.

Software modules

ACTi Streaming SDK modules include Search, Manage, Add and Delete modules. User may program with these modules through supported programming languages

Sample implementation codes

To implement a video switch system with URL command, the codes are listed as follow: http://192.168.1.1/cgi-bin/url.cgi?USER=Admin&PWD=123456&VIDEO_TCP_IP=192.168.1. 100&SWITCH

| Development Environment | |
|-------------------------|--|
| Environment | Win 2000, Win XP, Win 2003 |
| Programming Language | Visual C++ v6.0, Visual Studio.Net, Visual Studio.Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript |
| Functionality | |
| Add Media Source | Link transcoder with video server or other media source on the network |
| Delete Media Source | Remove the link between transcoder and the media source |
| Digital I/O Event | Handles digital I/O events |
| Serial Port Function | Handles serial port command passed from media source on the network |
| OSD Function | Manage and display OSD information |

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SDK for Capture Card



- Easy to integrate into video surveillance application
- · Simple calls to implement DVR functions
- Visual C, C++, Visual BASIC and JavaScript Supported
- Sample codes included
- · C Library edition
- ActiveX Control edition
- Supports GraphEdit and DirectShow Filter
- May decode with XviD, FFMPEG, DivX

Versatile support on industry-standard programming languages

ACTi SDK-4000 offers a simple but flexible way to enable quick and cost-effective development of capture card management functions with various development environments, such as Windows API, COM+, ActiveX Control and URL commands. User may implement video surveillance system using Visual C++, Visual BASIC and browser script programming language (HTML + JavaScript). Sample codes (in Visual C++, Visual BASIC and HTML + JavaScript) are included. User may use XviD, FFMPEG, DivX or other ISO-14496-2 compliant MPEG-4 software decoder to decode ACTi's MPEG-4 raw data stream.

Software modules

ACTi Streaming SDK modules include User Interface, Media, PTZ, Network, Video Motion Detection and Digital I/O modules. User may program with these modules through supported programming.

Decodes with Xvid, FFMPEG

Developers may get MPEG-4 raw stream with a simple function, then decodes with XviD, FFMPEG, DivX or other MPEG-4 compliant software decoders. Users may manipulate these MPEG-4 raw data by themselves, or decode them into RGB buffer and process them as a series of pictures, in this way, you can treat the decoded RGB buffer as if they are MJPEG streams. Sample codes are included.

Sample implementation codes

To implement a video surveillance system with ActiveX Control, the codes is listed as follow:

;; preview on board 1, channel 1 objMedia.MediaSource ="1" objMedia.Account = "root"

objMedia.Password = "password"

objMedia.Play()

;; recording objMedia.Record("C:\\TEST.AVI") ;; playback objMedia.MediaSource =" C:\\TEST.AVI" objMedia.Play()

| | Development Environment | | | |
|--|-------------------------|---|--|--|
| | Environment | Win 2000, Win XP, Win 2003 | | |
| | Programming Language | Visual C++ v6.0, Visual Studio.Net, Visual Studio. Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript | | |
| | Functionality | | | |
| | Live Preview | Streaming and decode MPEG-4 information | | |
| | Recording | Background recording, alarm recording, pre-event and post-event recording | | |
| | Playback | MPEG-4 decoding and display | | |
| | Motion Detection | Callback function supported when a motion detected | | |
| | | | | |

| Digital I/O Event | Callback function supported when a digital input is triggered |
|-----------------------------|---|
| Serial Port Function | Sends serial port command |
| PTZ Function | Pelco-P and Pelco-D protocol sample code included |
| Standard MPEG-4 Decoding | User may decodes ACTi's MPEG-4 raw data using XviD, FFMPEG, DivX or other standard ISO-14496 compliant MPEG-4 software decoder libraries. |
| MJPEG Function Calls | Provides function calls to convert ACTi's MPEG-4 stream to a series of RGB buffer. |



SDK for Decoder Card



- Easy to integrate into video surveillance application
- · Simple calls to link video server and decoding
- Visual C, C++, Visual BASIC and JavaScript Supported
- · Sample codes included
- · C Library edition
- · URL Command edition

Versatile support on industry-standard programming languages

ACTi SDK-5000 offers a simple but flexible way to enable quick and cost-effective development of Transcoder management functions with various development environments, such as Windows API, COM+, ActiveX Control and URL commands. User may implement video surveillance system using Visual C++, Visual BASIC and browser script programming language (HTML + JavaScript). Sample codes (in Visual C++, Visual BASIC and HTML + JavaScript) are included.

Software modules

ACTi Streaming SDK modules include Search, Manage, Add and Delete modules. User may program with these modules through supported programming languages

Sample implementation codes

To implement a video surveillance system with ActiveX Control, the codes are listed as follow:

```
;; link video server
objMedia.DirectConnect( "192.168.1.100", "root", "password", "10060")
;; play on the decoder board
objMedia.Play()
```

| Development Environment | | |
|-------------------------|--|--|
| Environment | Win 2000, Win XP, Win 2003 | |
| Programming Language | Visual C++ v6.0, Visual Studio.Net, Visual Studio.Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript | |
| Functionality | | |
| Add Media Source | Link decoder card with video server or other media source on the network | |
| Delete Media Source | Remove the link between decoder card and the media source | |
| OSD Function | Manage and display OSD information | |

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SDK for Multiplexer Card



- Easy to integrate into video surveillance application
- Simple calls to implement multiplexing and motion detection functions
- Visual C, C++, Visual BASIC and JavaScript Supported
- · Sample codes included
- · C Library edition
- · ActiveX Control edition

Versatile support on industry-standard programming languages

ACTI SDK-6000 offers a simple but flexible way to enable quick and cost-effective development of multiplexing video source from Capture Card or Decoder Card with various development environments, such as Windows API, COM+, ActiveX Control and URL commands. User may implement video surveillance system using Visual C++, Visual BASIC and browser script programming language (HTML + JavaScript). Sample codes (in Visual C++, Visual BASIC and HTML + JavaScript) are included.

Software modules

ACTi SDK-6000 include multiplexing and motion detection modules. User may program with these modules through supported programming languages.

Sample implementation codes

To implement a video surveillance system with ActiveX Control, the codes are listed as follow:

```
;; multiplexing on 4-window, 9-window
objMedia.DisplayMode = 4; 4-window layout
objMedia.SetMappingChannel(1, 1)
objMedia.SetMappingChannel(2, 2)
objMedia.Connect()
objMedia.Play()
;; motion detection enabling
;; on channel 1, grid (3, 5) to (6, 8)
;; with sensitivity 80
objMedia.EnableMD(1, 3, 5, 6, 8, 80)
```

| Development Environment | |
|-------------------------|--|
| Environment | Win 2000, Win XP, Win 2003 |
| Programming Language | Visual C++ v6.0, Visual Studio.Net, Visual Studio.Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript |
| Functionality | |
| Multiplexing | Supports various mode of window layout, including 1, 4, 6, 7, 9, 10, 13, 16 window layout |
| Motion Detection | Enable motion detection |



Unified SDK



- Easy to integrate into video surveillance application
- Simple calls to support preview/record/playback/motion detection/DIO/PTZ functions
- Unified SDK for IP devices, capture card and decoder card products
- Superset of SDK-2000, SDK-4000 and SDK-5000
- Visual C, C++, Visual BASIC and JavaScript Supported
- · C Library edition
- ActiveX Control edition
- · URL Command edition
- May decode with FFMPEG, XviD, DivX
- Support video and audio functions

Versatile support on industry-standard programming languages

ACTI SDK-10000 offers a complete set of function calls to enable quick cost-effective development of IP surveillance application under various developing environment such as Windows API, COM+, AciveX Control and URL command.

Software modules

ACTi SDK-10000 modules include device connection (TCP, Multicast), device configuration, receive MPEG-4 stream callback, decode MPEG-4 to RGB callback, preview, after render callback, DIO, motion detection, PTZ, recording, and playback functions; user may easily develop their own application with desired programming language and methods to link with ACTi devices.

Unified SDK

ACTi SDK-10000 links with ACTi IP Devices, Capture cards and Decoder cards. SDK-10000 is the superset of SDK-2000, SDK-4000 and SDK-5000 with the benefits of the same function calls for integrating these products.

▶ Decodes with FFMPEG, XviD, DivX

Developers may get MPEG-4 raw stream and decodes with FFMPEG, XviD, DivX or other MPEG-4 compliant software decoders. Users may decode them into RGB buffer and process them as a series of pictures. Detailed protocols (TCP, Multicast, RTP) and MPEG-4 data structure are listed in the Programming Guide.

Sample implementation codes

To implement a video surveillance system with ActiveX Control, the codes is listed as follow:

;; preview on board 1, channel 1 objMedia.MediaSource = "1" objMedia.Account = "root" objMedia.Password = "password" objMedia.Play() ;; recording
objMedia.Record(C:\\TEST.AVI")
;; playback
objMedia.MediaSource = C:\\TEST.AVI"
objMedia.Play()

| Development Environment | | |
|-------------------------|--|--|
| Environment | Win 2000, Win XP, Win 2003, WSS2003 | |
| Programming Language | Visual C++ v6.0, Visual Studio.Net, Visual Studio.Net 2003, Visual BASIC v6.0, Visual BASIC.Net, HTML + JavaScript | |
| Device Supported | | |
| IP Products | IP Camera, Video Server, IP Speed Dome, Quad Video Server | |
| Capture Card Products | Capture card series products | |
| Decorder Card Products | Decoder card series products | |
| Functionality | | |
| Format | ISO-14496-2 video and audio format | |
| Live Preview | Streaming and decode MPEG-4 information | |
| | | |

| Recording | Recording, alarm recording with pre-event, post-event recording time |
|--------------------------------|---|
| Playback | Playing recorded archive with various control mechanisms |
| Motion Detection | Callback function supported when a motion detected |
| Digital I/O Event | Callback function supported when a digital input is triggered |
| Serial Port Function | Sends serial port command |
| PTZ Function | Various PTZ protocols (including Pelco-P, Pelco-D), etc and sample codes included |
| MPEG-4 Streaming Management | Callback function to get MPEG-4 raw data directly |
| Standard MPEG-4 Decoding | Decode with FFMPEG, XviD, DivX |

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IP Utility

IP Network Utility And Management Tool



- · Search and locate ACTi IP Surveillance products
- Search and report firmware version and Configuration of the IP devices
- · Manages IP devices on-the-fly
- · Upgrade firmware to multiple devices at the same time
- Backup and restore configuration to multiple devices at the same time
- · Duplicate settings to multiple devices at the same time



ACTi IP utility searches and locates ACTi's IP devices on the network, including video server, Transcoder, IP camera and IP speed dome.

This utility is useful when the administrator forgets the IP address assigned; it also reports camera name, LAN IP address, WAN IP address, Multicast IP address, MAC address, device type and firmware version of the devices on the network.

Manage IP devices on the network

Administrator may manage IP devices on the network on following functions:

- Modify device name
- Modify LAN/WAN IP address
- Modify multicast setting

Administrator may duplicate the same settings to multiple devices on the network, including:

- Analog standard
- Resolution, Bit Rate, Frame Mode, Frame Rate
- Serial port baud rate and setting

Global firmware upgrades

Manages multiple devices at the same time:

- Upgrade firmware to multiple devices
- Update configuration to multiple devices

| Supported IP Devices | |
|------------------------------|---|
| Video Server | SED-2000 video server series |
| Transcoder | SED-3000 Transcoder series |
| IP Camera | CAM-5000 IP Camera Series |
| IP Speed Dome | CAM-6000 IP Speed Dome Series |
| IP Dome | CAM-7000 IP Dome series |
| Search and Locate IP Devices | |
| Name | Camera Name |
| LAN IP | LAN IP address |
| WAN IP | WAN IP address |
| Multicast IP | Multicast IP address |
| MAC | MAC address |
| Туре | IP Device Type |
| Firmware | Firmware version |
| Manage IP Devices | |
| Device Name | Modify device name |
| Network Setting | Modify LAN / WAN / Multicast IP address |

| Global Updates | |
|-----------------------|---|
| Firmware Upgrade | Upgrade firmware to multiple devices at the same time |
| Configuration Updates | Update configuration to multiple devices at the same time |
| Duplicate Setting | |
| Analog Video | NTSC or PAL standard |
| Bit Rate | 3Mbps, 2.5Mbps, 2Mbps, 1.5Mbps, 1.2Mbps, 1Mbps, 750Kbps, 500Kbps, 256Kbps, 128Kbps, 56Kbps |
| Frame Mode | Constant Frame Rate or Variable Frame Rate |
| Frame Rate | NTSC Constant Frame Rate: 30, 15, 10, 7, 6, 5, 4, 3, 2, 1 PAL Constant Frame Rate: 25, 12, 10, 7, 6, 5, 4, 3, 2, 1 NTSC Variable Frame Rate: 30, 6, 3, 1 PAL Variable Frame Rate: 25, 5, 3, 1 |
| Serial Port Baud Rate | 115200, 57600, 38400, 19200, 9600, 4800, 2400 bps |
| Serial Port Setting | N81, E81, O81 |



Streaming Explorer

ACTi Streaming Explorer



- · Web Application
- · One-channel live video display
- · Camera Configuration via Web OSD Menu
- · Support PTZ operations
- On-screen 8-way Mouse PTZ
- Support PTZ, Focus, IRIS, Preset, OSD, BLC, day and night operations

▶ Web-enabled application

ACTi Streaming Explorer is a web application running under Microsoft Internet Explorer.

PTZ protocols supported

ACTi Streaming Explorer supports PTZ protocols of ACTi CAM-5000 (IP Camera), CAM-6000 (IP Speed Dome) and CAM-7000 (IP Dome) series as well as multiple PTZ protocols, including Pelco-P, Pelco-D, Lilin, Dynacolor, TOA, Kampro, etc.

User may add new PTZ protocols by themselves or download latest PTZ protocols from ACTi web site

Web OSD function

With ACTi Streaming Explorer, user may further configure ACTi IP Camera, IP Dome, IP Speed Dome OSD functions, including OSD, Patrol, Preset Position, Pattern, Mask, etc.

PRODUCT SPECIFICATION

| PTZ Protocols Supp | ported | |
|----------------------------|--|--|
| Supported Protocols | Pelco-P, Pelco-D, Lilin, Dynacolor, TOA, Kampro, Eyeview, VideoTrec | |
| Supported Devices | ACTi CAM-5000 Series, CAM-6000, CAM-7000 Series | |
| Expandable PTZ Commands | User may create the PTZ commands themselves or download new PTZ protocols from ACTi web site | |
| PTZ Functions | | |
| Pan, Tilt, Zoom | 8-way Pan, Tilt and Zoom operation with speed | |
| OSD Menu | On screen menu to further configure the setting in speed dome or camera | |
| Preset | Set, Goto, Clear preset position. Maximum 16 positions supported | |

| Preset Tour | preset tour |
|----------------------|--|
| Pattern Tour | Configure and execute a pattern tour |
| Auto Scan | Execute auto scan |
| Day and Night Switch | Enable/disable day-n-night setting via a button |
| Mouse PTZ | On-screen mouse PTZ. 8-direction pan-tilt control. |
| Saved Setting | Streaming Explorer remember 3 sets of settings, including IP, Account, Password, Port information, Serial Port and PTZ Protocol information |

Configure and execute a

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Streaming Engine

ACTi Streaming Engine



- · Supports 64 remote clients all at D1, 30 FPS
- Supports 64 ACTi devices all at D1, 30 FPS
- · Supports load-balancing architecture
- Supports ISO-14496-2 MPEG-4 video + audio format
- Remote Preview on IP Camera, Video Server, IP Speed
 Dome and Capture Card
- · Remote Playback with seek operation
- Win32 Service
- · Integrated with Activator, NVR web client
- May link with SDK-2000 v2.0, SDK-10000 v1.0

▶ Multiple concurrent connections

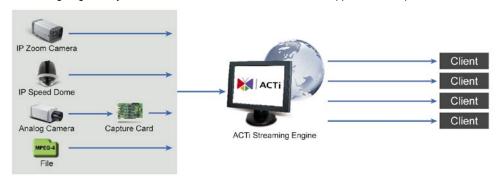
ACTi Streaming Engine connects to all ACTi products, and forwards the MPEG-4 streaming data to connected clients; with maximum 64 concurrent clients.

Supported devices

ACTi Streaming Engine connects to ACTi video server, IP Camera, IP Speed Dome, Capture Card and Multiplexer Card. Client may connect to ACTi Streaming Engine with standard NVR client, Activator, SDK-10000 v1.0 and SDK-2000 v2.0.

► Flexible Deployment with Remote Preview

ACTi Streaming Engine may connect to IP cameras inside Intranet and supports remote preview on Internet site.



| CPU | Intel Pentium-D 3.0GHz (FSB 800) |
|--------------------|--|
| Motherboard | Intel 945 chipset or above |
| LAN Card | Gigabit Ethernet |
| Hard Disk | 80 GB |
| os | Windows XP, Windows 2003, WSS2003 |
| Browser | Microsoft Internet Explorer v6.0 |
| | |
| Maximum Connection | 64 Clients |
| Load-balancing | Streaming engine may connect to another Streaming engine to share loading |
| Network Protocol | TCP, Multicast*, RTP / RTSP* |

| Data Format | ISO-14496-2 MPEG-4 video+audio format | |
|--------------------------|---|--|
| Client Connections | NVR v1.0 Web Client, Activator v1.37, Activator v2.0 | |
| SDK | SDK-2000 v2.0 , SDK-10000 v1.0 | |
| Supported Devices | | |
| Devices | Video Server, IP Camera, IP Speed Dome, Capture Card, Display Card | |
| Functionalities | | |
| Remote Preview | Live preview on remote site via ACTi streaming engine | |
| Remote Playback | Playback video clip stored on remote sites. | |
| Remote Seek Operation | Supports seek operation on remote playback | |

^{*} The features will be implemented in later released bundled application



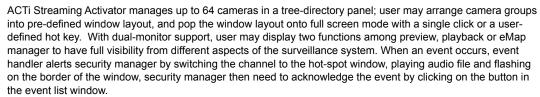
ACTi Streaming Activator

Streaming Activator



- Manages up to 64 cameras with tree-directory display
- Supports 1, 4, 6, 8, 9, 10, 16, 25, 36 window layout
- ISO 14496-2 MPEG-4 Video+Audio Format
- · Customizable logo and user interface
- · Multiple-channel preview in full-screen mode
- Support dual monitor and hot-spot window
- · Continuous, Schedule, Motion, Alarm Recording
- Hardware motion detection and Digital I/O event handling
- · Maximum 30 seconds pre-event recording
- · Expandible PTZ commands
- · Search video clips by date, time and event
- · Time-based search bar
- Multiple-channel synchronized playback
- · eMap Manager
- Remote Preview / Playback via ACTi NVR or Activator

Digital video surveillance functions



User may deploy recording plan with continuous, schedule, alarm and motion recording mechanism; the recorded video clips can then be searched with channel, date, time, event or browse with a time-based search bar; after certain video clip being located, video clips from multiple channels can be organized together and played synchronously. User may operate video clips with play, pause, stop, reverse play, fast forward, fast rewind and frame-by-frame actions with functions to add bookmark, create snapshot or export video to an AVI file.

Expandable PTZ commands

ACTi Streaming Activator supports various PTZ protocols, including Pelco-P, Pelco-D, Lilin, Dynacolor, TOA, Kampro, EyeView, VideoTrec, Sony VISCA, Panasonic, GE Kalatel, etc.

User may add new PTZ protocols by themselves or download the PTZ protocols from ACTi web site.

Hardware motion detection and digital I/O event handling

Hardware motion detection is supported and user may set 3 individual regions of interest and sensitivity. An event will be triggered when a motion detection event or digital input event occurs. Maximum 30 seconds pre-event recording time can be set prior to a motion detection or digital input event occurs.

Event handling including trigger digital output, request speed dome to turn to a preset position, play audio file, beep on the PC, send snapshot via E-Mail and send snapshot to FTP site.

Customizable user interface – create your own Streaming Activator

ACTi Streaming Activator provides several ways for users to customize and create their own application.

User may change logo, title bar, about us dialog box and icon; furthermore, the color scheme, look and feel, layout can be customized. User may even add or remove part the functions from current application.

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Streaming Activator

| System Requirement | |
|--------------------------|--|
| PC Spec | Pentium D 3.0GHz, 945 Chipset, 800 FSB, 1GB Memory, 80GB HDD |
| Operating System | Windows 2000, Windows XP, Windows 2003, WSS2003 |
| Browser | Microsoft Internet Explorer v6.0+ |
| Preview | |
| Maximum Number of Camera | 64 |
| Window Layout | 1, 4, 6, 8, 9, 10, 16, 25, 36 |
| Tree Display Panel | User may use drag-n-drop to drag a video source to the layout manager for preview |
| Web Client | Microsoft Internet Explorer v6.0 remote video preview |
| Patrol Mode | Switches and displays each preview window accordingly. Pre-defined layout can be set to patrol mode as well |
| 2-Way Audio | Supports 2-way audio. User may have 1-to-1 or 1-to-many audio broadcast to multiple devices at the same time. |
| Create Snapshots | Create snapshot images on-the-fly and as an event index for search later on |
| Advanced Preview Mode | Maximum 36-channel preview at the same time with different frame rate adjusted automatically |
| Layout Manager | Setup pre-defined window layout to group certain cameras in the same layout. Layout manager can be displayed in full-screen mode. |
| Hot-Spot Window | The channel with an event will be switched to the hot-spot window. 2nd monitor can be defined as hot-spot window. |
| Recording | |
| Format | Standard ISO-14496-2 MPEG-4 Video+Audio format. Compatible with FFMPEG, XviD, DivX |
| Schedule Recording | Record video with user-defined schedule and time period |
| Alarm Recording | Record video when a digital input event is triggered |
| Motion Recording | Record video when motion detected |
| Pre-event Recording | User-defined time period to record before a certain event occurs. Maximum 30 seconds. |
| Post-event Recording | User-defined time period to record after a certain event occurs. Default 5 minutes. |
| Watermark* | Digital time code embedded from hardware |
| Storage Manager | |
| Number of Drives | Supports up to 23 drives in one single machine |
| Keep Certain Days | The video clips will be kept for certain days according to user-defined value |
| Recycle Recording | The oldest video clip will be overwritten when the disk reaches its minimum space requirement |
| Total Space Management | When total space reaches its minimum space requirement, certain space will be clean up. The oldest files will be removed first. |
| Playback | |
| Mode | Play, Pause, Stop, Fast Forward, Fast Rewind, Play Backward, Play frame by frame, 1/2/4/8x Speed Control |
| Play Multiple Files * | Play multiple files in sequence for a period of time |
| Create Snapshots | Create snapshot images on-the-fly and can be searched as an event |
| Export Video | Export a period of video clips into one AVI file |
| Synchronous Playback | Multiple-channel synchronous playback at the same time |
| Search | |
| Time Sequence Search | Search video clips with date, time, channel |
| Event Search | Search motion detection, digital input, bookmark, snapshot event with specified date, time, channel |
| Thumbnail Image Search * | Search video clips with thumbnail image previews |
| Status Event Search | Search events on video loss / recovery, network disconnect / reconnect, user login / logout, database log with specified date, time, channel |
| Time-based Search Bar | The recording and events are displayed with a time-bar |

| PTZ Control | |
|---------------------------|---|
| PTZ Management | Manages pan, tilt, zoom operation with speed control |
| Protocol Supported | Pelco-P, Pelco-D, Lilin, Dynacolor, Samsung, Kampro, Sony VISCA, Panasonic, GE Kalatel protocol supported |
| Preset Position | Goto, set, clear preset positions and patrol on preset positions |
| Preset Position Number | 16 |
| PTZ Patrol | Patrol preset positions with user-defined dwell time |
| PTZ Pattern | Execute speed dome pattern command |
| Expandable PTZ Command | User-defined PTZ command to support additional PTZ protocols |
| Mouse PTZ | On-screen 8-direction PTZ operation with mouse operation This can be run under full-screen mode as well |
| IP Joystick on PC | Connects joystick on the PC via USB port to control speed dome directly |
| Control Panel on PC | Connects control panel on the PC via COM port to control speed dome directly |
| Event Handling | |
| Event Types | Handles motion detection, alarm, video loss, network disconnect events |
| Event Acknowledgement | Event will need to be acknowledged by security operator |
| Trigger Digital Output | Triggers digital output when a certain event (digital I/O or motion detection) occurs |
| Hot-Spot Window | Activate and switch the channel with event to the hot-spot window. The original video in the hot-spot window will ther be switched over. |
| Pop-up Window | Mini-preview window will be pop-up when event occurs. Pop-up window will be dismissed when user-defined dwell time elapsed or security operator click on the "Acknowledge" button. |
| Event Log | Triggered event will be recorded into a event log |
| E-Mail Notification | E-Mail notification with captured snapshot |
| FTP Notification | FTP captured snapshot to the FTP server |
| Play audio file | Play user-defined audio file or beep on the machine |
| Send PTZ Command | User-defined PTZ command will be executed. The channe operating PTZ command can be different to that of the channel with event. |
| Execute Command | User-defined execution command will be executed. |
| еМар | |
| eMap Manager | eMap configuration and management |
| eMap Monitor | Creates alarm when an event occurs on a certain camera in eMap |
| Preview-All Mode | With this mode, all cameras in the associated map will be displayed with QCIF @ 1FPS preview. When double-click on the preview window, the original video window will be brought up with its original resolution and frame rate |
| eMap Patrol | Maps can be patrolled and displayed one by one with user- defined dwell time. |
| | |
| Remote Preview | May connect to ACTi NVR or Activator to run remote preview |
| Remote Playback | May connect to ACTi NVR or Activator to run remote playback |
| Permission Control | |
| 3-level Permission | Administrator, Standard User, Guest levels |
| Security | Account/password defined with associated permission control |
| Camera Group Permission | User may setup the permission between user account and the camera group |
| eMap Permission | User may setup the permission between user account and eMap layer |

^{*} The features will be implemented in later released bundled application



ACTI NVR

ACTi Network Video Recorder



- Supports 16, 32, 48, 64 Channels at Full D1 @ 30 FPS with 1.5 Mbps concurrently
- · Web-based Administration
- Record in ISO-14496-2 MPEG-4 video+audio format
- · Continuous, Schedule, Motion, Alarm Recording
- Full-featured search functions based on channel, date, time and events
- · Time-based Search Bar
- Active Storage Manager to manage disk capacity
- · Streaming Engine included
- · Customization and NVR SDK ready for integration
- Remote Preview and Remote Playback via web or Streaming Activator

▶ Recording Engine

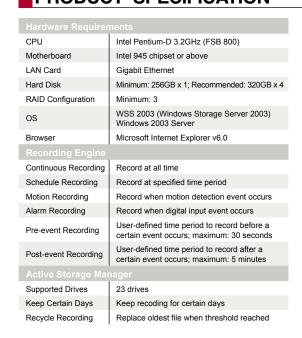
ACTi NVR supports continuous, schedule, alarm and motion recording with pre-event and post-event time period programmable on per-channel basis. ACTi NVR system records video, audio and data information; the recording format complies with standard MPEG-4 (ISO-14496-2) format and can be decoded with standard MPEG-4 software decoders, like FFMPEG, XviD and DivX.

Active Storage Manager

Active storage manager monitors and manages disk capacity. Active storage manager manages up to 23 drives in a single machine; it also comes with three capacity management rule engine: keep certain days, recycle recording and keep minimum space. User may deploy their recording rules easily with active storage manager's complete and flexible design.

Customization and SDK supported

ACTi NVR administrator is implemented in HTML format and can be fully customized by users in local language, look and feel style, layout and add or remove functions. NVR SDK (SDK-2200) is ready for integration with user's application suite, and can be implemented with URL commands with XML data format.



| Total Space | Remove user-defined space when total space reaches its minimal space threshold | | | |
|--|---|--|--|--|
| Search | | | | |
| Time Sequence Search | Search video clips with channel, date, time | | | |
| Event Search | Search motion, alarm events with specified date, time, channel | | | |
| Playback | | | | |
| Remote Playback | Playback a recorded video clip on ACTi NVR system | | | |
| Seek Operation | Remote playback also supports seek operation | | | |
| Remote Manageme | | | | |
| Remote Configuration | Web-based interface on ACTi NVR system setup and configuration | | | |
| Remote Monitoring | System resources, disk information, system information, recording and schedule status via web-based interface | | | |
| Remote Preview | Supports 1, 4, 9-channel remote preview | | | |
| Remote PTZ * | Supports PTZ operation via NVR | | | |
| *The features will be implemented in later release | | | | |

[^] i ne features will be implemented in later release

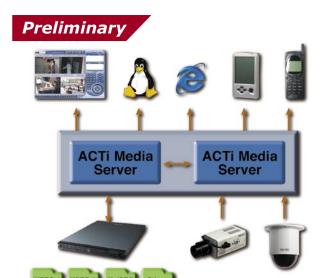
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Media Server

ACTi Media Server



- Media source conversion
- Accepts multiple client connections with load-balancing architecture
- · Supports 3GPP Protocol to Client Application
- Supports RTSP/RTP Protocol to the client application
- Supports Multicast Protocol to Client Application
- · Real-time media streaming forwarding
- Remote archive playback
- · Easy to install and run on NAS
- · Adopts MPEG-4, Motion-JPEG and AVI format
- Change resolution, bit-rate, frame-rate on-the-fly or via add-on utilities

Accepts multiple client connections with load-balancing architecture ACTi Streaming Media Server is designed to serve multiple connections from remote clients. Maximum connection number is depend on the hardware specification; meanwhile, multiple ACTi Media Server may operate together to serve more remote clients.

Media file format conversion

ACTi Streaming Media Server complies with MPEG-4 data format. Add-on utilities help convert MJPEG and AVI file format into MPEG-4 data format. MPEG-4 data may be open, streamed and sent to the connected clients at real time.

Real-time streaming forwarding and remote file playback

ACTi Media Server connects to multiple media sources and serve multiple remote clients.

ACTi Media Server serves as a video streaming gateway, accepts live video streams and passes them to remote preview clients.

ACTi Media Server also adopts various media file formats, and send the media files in streaming format to remote playback clients.

| Concurrent Connec | tions | | | | | |
|-------------------------------------|---|--|--|--|--|--|
| Number of Media Source | 64 (depends on the hardware specification | | | | | |
| Number of Clients | 64 (depends on the hardware specification) | | | | | |
| Real-time Streaming Forwarding | | | | | | |
| Streaming Forwarding | Streaming data maybe received from connected IP cameras and forwarded to the connected clients. The streaming format is MPEG-4 data format. | | | | | |
| Remote Media File I | Playback | | | | | |
| Remote Playback | Media files can be opened and streamed immediately to the connected clients | | | | | |
| Media File Conversion | | | | | | |
| MPEG-4 | MPEG-4 format is ACTi Media Cente'sr standard format | | | | | |
| Multiple Media Format Conversion | Motion-JPEG, AVI file format conversion | | | | | |
| Conversion | CONVENSION | | | | | |

| Frame Rate Conversion | Change frame-per-second rate on-the-fly or via add-on utilities |
|------------------------------|---|
| Resolution Conversion | Change video size (Full D1, CIF and QCIF) on-the-fly or via add-on utilities |
| Subscribe and notif | fication |
| Subscribe Streaming Video | Clients may subscribe to the streaming services and receives streaming video data |
| Event Notification | Clients may subscribe on certain events, and notified when that event occurs |
| Outbound Protocol | Supported |
| HTTP / FTP Service | The pictures in ACTi Media Server may be requested via HTTP and FTP services |
| RTSP/RTP Protocol | Real-time streaming protocol supported |
| Multicast Protocol | Apply Multicast to remote clients |
| 3GPP Protocol | Supports 3GPP protocol |





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