



IP Surveillance

2009 Buyer's Guide

Table of Contents

IP Video Solution Products

Megapixel IP Box/Bullet Camera

• Selection Guide	1
• ACM-5601/ACM-5611 Megapixel IP Box Camera	2
• TCM-5311 H.264 CCD Megapixel IP Camera	4
• ACM-1231/ACM-1232 Megapixel Outdoor IP IR Bullet Camera	6
• ACM-1511 Megapixel Indoor IP IR Bullet Camera	8

Megapixel IP Fixed Dome Camera

• Selection Guide	10
• ACM-3401/ACM-3411 Megapixel IP Fixed Dome Camera	11
• ACM-3511 Megapixel IP Fixed Dome Camera with Vari-focal Lens	13
• ACM-7411 Megapixel IP Rugged Dome Camera	15

Megapixel IP Cube Camera

• Selection Guide	17
• ACM-4200/ACM-4201 Megapixel IP Cube Camera	18
• TCM-4301 H.264 Megapixel IP Cube Camera	20

IP Cube Camera

• Selection Guide	22
• ACM-4000/ACM-4001 IP Cube Camera	23

IP PTZ Camera

• Selection Guide	25
• ACM-8201/ACM-8211 Megapixel IP PTZ Camera	26
• ACM-8511 IP PTZ Camera	28

IP Speed Dome

• Selection Guide	30
• CAM-6510 MPEG-4 Real-time Indoor IP High Speed Dome with Two Way Audio	31
• CAM-6600 Series MPEG-4 Real-time Outdoor IP High Speed Dome with Two Way Audio	33

IP Box Camera

• Selection Guide	35
• ACM-5001 IP Box Camera	36
• ACM-5711 IP Camera with Day and Night	38
• CAM-5201/CAM-5221 MPEG-4 Real-time Network Streaming IP Camera with Audio	40
• CAM-5301/CAM-5321 MPEG-4 Real-time Network Streaming IP Camera	42

IP Bullet Camera

• Selection Guide	44
• ACM-1011 Indoor IP IR Bullet Camera	45
• ACM-1311 Indoor CCD IP IR Bullet Camera	47
• ACM-1431/ACM-1432 Outdoor IP IR Bullet Camera	49

IP Fixed Dome Camera

• Selection Guide	51
• ACM-3001 IP Fixed Dome Camera	53
• ACM-3011 IP Fixed Dome Camera with Vari-focal Lens	55
• ACM-3211 IP IR Eyeball Dome Camera	57
• ACM-3311 IP IR 3-inch Dome Camera	59
• CAM-7300 Series MPEG-4 Real-time Network Streaming Outdoor IP Rugged Dome	61

Video Server

• Selection Guide	63
• ACD-2000Q Four-channel MPEG-4 Quad Processor Integrated Video Server with Two Way Audio	65
• ACD-2100 One-channel Entry-level Video Server with Two Way Audio	67
• ACD-2200 Four-channel Video Server with Two Way Audio	69
• ACD-2300 1U Rackmount 8-channel Video Server with Two Way Audio	71
• ACD-2400 1U Rackmount 16-channel Video Server with Two Way Audio	73
• SED-2120 One-channel MPEG-4 Video Server	75
• SED-2140 One-channel MPEG-4 Video Server with Two Way Audio and Extended Temperature Option	77
• SED-2610 1U Rackmount 8-channel MPEG-4 Video Server with Two Way Audio	79

Video Decoder

• Selection Guide	63
• ACD-3100 Video Decoder with Two Way Audio	81

Accessories

• RMK-2000 Rackmount Kit for Wallmount Type Devices	83
• RMK-3000 Rackmount Kit for Wallmount Type Devices	84
• Outdoor Housing/Bracket	85
• Fixed Dome Accessories/PTZ Camera Mount Kit	85
• CCTV Lens	86
• Speed Dome Mounting	86
• Speed Dome Cover/Control Panel/Power Box	87

IP Video Application Software

Software Development Kit

• ACTi SDK	88
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Utility

• ACTi Utility Suite	90
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Application Software

• ACTi NVR v2.2	92
• ACTi NVR v3.0	94
• ACTi CMS v1.0	96

Megapixel IP Box/Bullet Camera



Model Name	ACM-5601	ACM-5611	TCM-5311	ACM-1231	ACM-1232	ACM-1511
Type	Megapixel IP indoor* camera	Megapixel IP indoor* D/N camera	Megapixel IP indoor* D/N camera	Megapixel IP outdoor D/N IR camera	Megapixel IP outdoor D/N IR camera	Megapixel IP indoor D/N IR camera
Image Sensor	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	SONY Progressive Scan 1.25M Pixel EXviewHAD CCD	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel
Day/Night	N/A	Yes	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	N/A	Yes	Yes	Yes	Yes	Yes
IR LED	N/A	N/A	N/A	Yes	Yes	Yes
Lens	Changeable (CS/C mount); Bundled Fixed lens, f= 4.2mm/F1.8, Fixed iris	Changeable (CS/C mount); Bundled Fixed lens, f= 4.2mm/F1.8, Fixed iris	Changeable (CS/C mount); DC iris	Vari-focal, f= 3.3 ~ 12 mm/F1.6, Fixed iris	Vari-focal, f= 3.3 ~ 12 mm/F1.6, Fixed iris	Vari-focal, f= 3.3 ~ 12 mm/F1.6, Fixed iris
Min. Illumination	0.5 Lux at F1.0	0.05 Lux at F1.0	0.05 Lux at F1.2	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Compression	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	H.264/MPEG-4/ MJPEG triple codec with two simultaneous streams	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 960) at 15 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps
FPS	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	15 fps at SXGA (1280 x 960) 30 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)
Audio	2-way	2-way	2-way	2-way	2-way	2-way
Alarm Input/Output	1/1	1/1	1/1	N/A	N/A	N/A
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	N/A	N/A	N/A	N/A	N/A
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	H.264/MPEG-4/ MJPEG simultaneous dual streams selectable	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/ WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment	N/A	N/A	N/A	N/A	N/A	N/A
Environmental Casing	Optional	Optional	Optional	IP66 weatherproof casing	IP66 weatherproof casing	N/A
Mounting Options	N/A	N/A	N/A	N/A	N/A	N/A
Power Requirement	DC 3.3 V	N/A	N/A	N/A	N/A	N/A
	DC 12 V / PoE	Yes	Yes	Yes	N/A	Yes
	DC 12 V / AC 24 V	N/A	N/A	N/A	Yes	N/A

* Outdoor application requires weatherproof housing.

** Flush mount is identical to in-ceiling mount.

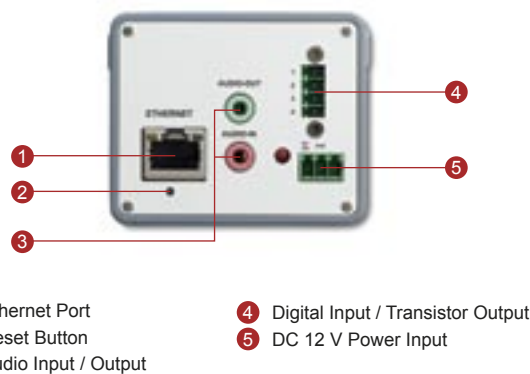


ACM-5601/ACM-5611



* One fixed lens is included.

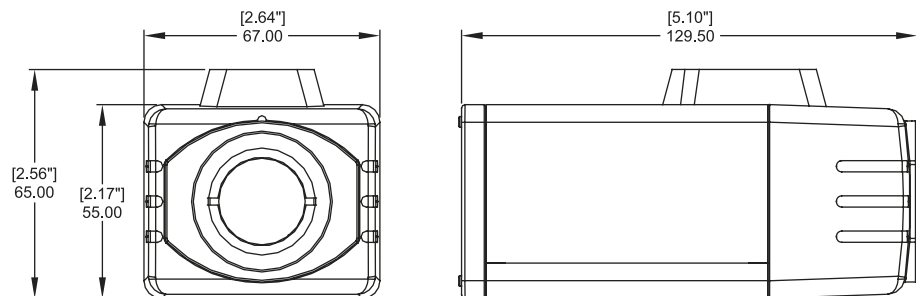
- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter (ACM-5611)
- Bundled with f4.2mm / F1.8 Megapixel fixed lens
- 0.5 Lux (ACM-5601) / 0.05 Lux (ACM-5611) at F1.0
- Shutter Speed, White Balance, Exposure, Gain Controls supported
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input / Transistor Output
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



- ① Ethernet Port
- ② Reset Button
- ③ Audio Input / Output

- ④ Digital Input / Transistor Output
- ⑤ DC 12 V Power Input

DIMENSION DIAGRAM



Unit: mm [inch]

Megapixel IP Box/Bullet Camera

ACM-5601/ACM-5611**PRODUCT SPECIFICATION**

		ACM-5601	ACM-5611
Image	Device	Micron Progressive Scan CMOS	
	Size	1/3 inch	
	Effective Pixels	1280 x 1024	
Min. scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30 IRE)	Color mode automatically switched to B/W mode under 4 Lux
	B/W	N/A	0.05 Lux at F1.0 (2400 °K, 30 IRE)
	CDS Sensor	N/A	Yes
	IR Sensitivity	N/A	from 700 nm to 1100 nm
Lens	Lens Mount	C /CS (with adaptor)	
	Focal Length	f4.2 mm / F1.8	
	Viewing Angle	75° (Horizontal)	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	N/A	Yes
Functions	Motion Detection	Yes (3 Windows)	
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)	
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)	
	BLC	Yes	
	AGC	Automatic (User defined)	
	White Balance	6 modes (AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL) configurable	
S/N Ratio	S/N Ratio	Better than 44 dB	
Video Compression	Compression	MPEG-4 SP, MJPEG selectable	
	Picture Resolution	SXGA (1280x1024); HD720 (1280x720); VGA (640x480); QVGA (320 x 240); QQVGA (160 x 112)	
	Bit Rate	28 K ~ 3 M bps	
	Image Frame Rate	8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA	
Audio Input	Compression	8 kHz, Mono, PCM	
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack	
Audio Output	Compression	8 kHz, Mono, PCM	
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack	
Alarm	Digital Input	1, terminal block	
	Transistor Output	1, terminal block	
External I/O	Reset Button	Factory default	
	LED	System status	
Network	Ethernet	Ethernet(10/100Base-T), RJ-45 connector	
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
Operating	Security	Password protection: configured by the administrator	
	Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)	
Power	Power Requirement	PoE (IEEE802.3af) with Class 3	
	Power Consumption	3.3 W (DC 12 V) 4.3 W (PoE)	
Physical	Dimensions (WxHxD)	67 mm x 55 mm x 129.5 mm (2.64" x 2.17" x 5.10")	
	Weight	400 g (0.88 lb)	

ORDERING INFORMATION

Model Name	D & N	DC 12V / PoE
ACM-5601		V
ACM-5611	V	V

ACCESSORY OPTIONS

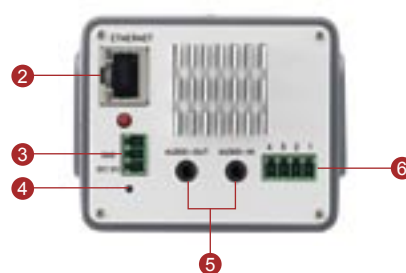
• Lens, f8mm F1.8, CS mount, Format 1/3" (For ACM-5601)	LEN-102	• Lens, f3.5~8mm F1.4, CS mount, Format 1/3" (For ACM-5601)	LEN-112
• Lens, f2.4~6mm F1.2, CS mount, Format 1/3" (For ACM-5601)	LEN-201	• Lens, f2.8~12mm F1.6, CS mount, Format 1/3" (For ACM-5601/5611)	LEN-205
• Camera bracket	R695-00011-000	• Housing bracket	R695-00004-000
• Outdoor housing	R692-00001-000		

TCM-5311

H.264 CCD Megapixel IP Camera



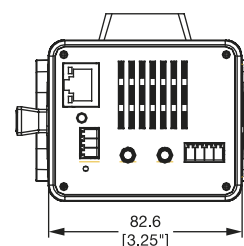
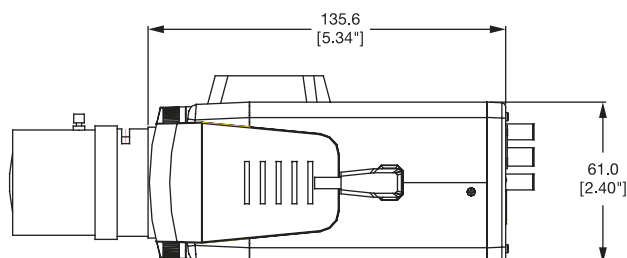
- 1/3" Sony 1.25 M EXviewHAD CCD
- Day and night function with Mechanical IR Cut-Filter
- 0.05 Lux at F1.2
- White Balance, Exposure, Gain Controls supported
- The external back focus feature allows for easy and precise focus adjustments
- H.264 / MPEG-4 / MJPEG triple codec with two simultaneous streams
- Up to 1280 x 960 resolution at 15 FPS
- Two-way audio supported
- Hardware motion detection, Digital Input / Output
- DC 12 V or Power Over Ethernet (IEEE 802.3af)



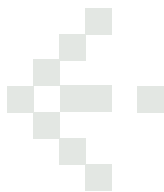
- ① DC Iris Lens Control Port
- ② Ethernet Port
- ③ Power Input

- ④ Reset Button
- ⑤ Audio Input / Output
- ⑥ Digital Input / Output

DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

		TCM-5311
Image	Device	SONY Progressive Scan 1.25M Pixel EXviewHAD CCD
	Size	1/3 inch
	Effective Pixels	1296 (H) x 966 (V)
	Horizontal Resolution	900 TVL
Min. Scene Illumination	Min. Illumination	0.05 Lux at F1.2 (30 IRE, SAGC)
	IR Sensitivity	from 700nm to 1100nm
	CDS Sensor	N/A
Lens	Lens Mount	C/CS
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	Yes
Functions	Motion Detection	Yes (3 Windows)
	Electronic Shutter	1/50 (1/60) ~ 1/10,000 sec
	Fixed Shutter	1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/5000, 1/10000
	Flickerless	Auto On/Off
	BLC	Auto On/Off
	AGC	Super AGC 0~36 dB
	White Balance	Auto, Indoor1, Indoor2, Outdoor1, Outdoor2, Hold Current, Manual
S/N Ratio	S/N Ratio	Better than 50 dB
Video Compression	Compression	H.264/ MPEG-4 SP/ MJPEG simultaneous dual streams selectable
	Picture Resolution	SXGA (1280x960)
		HD720 (1280x720)
		VGA (640x480)
		QVGA (320x240)
	Bit Rate	28K ~ 6M bps
	Image Frame Rate	15 fps at SXGA; 30 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA
Audio Input	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Phone Jack
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Phone Jack
Alarm	Digital Input	1, Active low under 0.7V/ input voltage max 30V, Terminal Block
	Digital Output	1, OD/ max 24VDC/100mA, Terminal Block
External I/O	Reset Button	Factory Default
	LED	System Status
Network	Ethernet Port	Ethernet (10/100 Base-T), Terminal Block
	Protocol	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, 3GPP, UPnP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password Protection: Configured by the Administrator
Operating	Temperature	-10°C ~ 45°C (14°F ~ 113°F)
Power	Power Requirement	PoE (IEEE 802.3af) with Class 3
	Power Consumption	7W
Physical	Dimensions (WxHxD)	135.6mm x 82.6mm x 61.0mm (5.34" x 3.25" x 2.40")
	Weight	505g (1.1lb)

ORDERING INFORMATION

Model Name	D & N	DC 12V / PoE
TCM-5311	V	V

ACCESSORY OPTIONS

- Lens, f2.8~12mm F1.3, CS mount, Format 1/3" LEN-207
- Camera bracket R695-00011-000



ACM-1231/ACM-1232

Megapixel Outdoor IP IR Bullet Camera



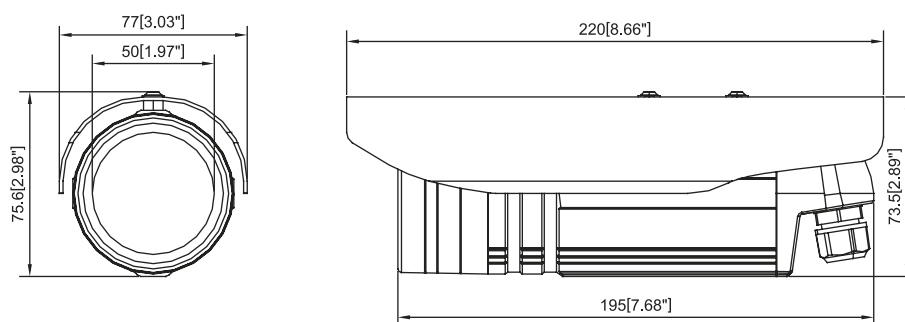
* The bracket needs to be purchased separately.

- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter
- Integrated f3.3 ~ 12 mm / F1.6 Megapixel lens
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported (ACM-1231), or AC 24V power source supported (ACM-1232)
- IP66 weatherproof supported

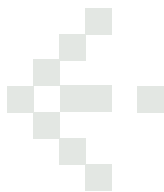


- | | |
|---------------------------------|-----------------------|
| ① DC 12 V / AC 24 V Power Input | ④ Ethernet Port |
| ② Audio Input / Output | ⑤ Power LED Indicator |
| ③ Reset Button | |

DIMENSION DIAGRAM



Unit: mm [inch]



ACM-1231/ACM-1232

PRODUCT SPECIFICATION

		ACM-1231	ACM-1232
Image	Device	Micron Progressive Scan CMOS	
	Size	1/3 inch	
	Effective Pixels	1280 x 1024	
Min. Scene Illumination	Color	Color mode automatically switched to B/W mode under 4 Lux	
	B/W	0 Lux (IR LED ON)	
	IR Sensitivity	from 700 nm to 1100 nm	
	IR LED	IR LED x 24 (850nm)	
	CDS Sensor	Yes	
	IR Working Distance	20 ~ 30 M(30 IRE)	
Lens	Lens	f3.3 ~ 12 mm / F1.6	
	Viewing Angle	89.8° ~ 23.9° (Horizontal)	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	Yes	
Functions	Motion Detection	Yes (3 Windows)	
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60Hz) 1/5 ~ 1/2,000 sec. (50Hz)	
	Flickerless	1/120 sec. (60Hz) 1/100 sec. (50Hz)	
	BLC	Yes	
	AGC	Automatic (User defined)	
	White Balance	AUTO,INDOOR1,INDOOR2,OUTDOOR1,OUTDOOR2, HOLD CURRENT,MANUAL	
S/N Ratio	S/N Ratio	Better than 44 dB	
Video Compression	Compression	MPEG-4 SP, MJPEG selectable	
	Picture Resolution	SXGA (1280x1024); HD720 (1280x720); VGA (640x480); QVGA (320 x 240); QQVGA (160 x 112)	
	Bit Rate	28 K ~ 3 M bps	
	Image Frame Rate	8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA	
Audio Input	Compression	8kHz, Mono, PCM	
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block	
Audio Output	Compression	8kHz, Mono, PCM	
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block	
External I/O	Reset Button	Factory Default	
	LED	System Status	
Casing	IP66 Rated	Weatherproof casing with IP66 standard	
Network	Ethernet	Ethernet(10/100 Base-T), RJ45 Connector	
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP,FTP,SMTP,DNS,DDNS,NTP,ICMP,IGMP,ARP,3GPP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
	Security	Password Protection: Configured by the Administrator	
Operating	Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	
Power	Power Requirement	PoE(IEEE802.3af) with class 3	AC 24 V±10%
	Power Consumption	6 W (DC 12 V) w/ IR ON 6.24 W (PoE) w/ IR ON	6 W(DC 12 V) w/ IR ON 10.1 VA (AC 24 V) w/ IR ON
Physical	Dimensions (WxHxD)	77 mm x 75.6 mm x 220mm (3.03" x 2.98" x 8.66")	
	Weight	685g (1.51 lb), with sunshield	

ORDERING INFORMATION

Model Name	D&N	DC 12 V / PoE	DC 12V / AC 24V
ACM-1231	V	V	
ACM-1232	V		V

ACCESSORY OPTIONS

- Camera bracket

R695-00004-001



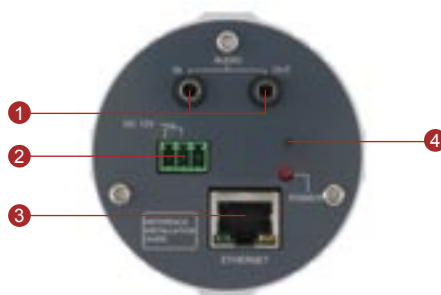
R695-00004-001

ACM-1511

Megapixel Indoor IP IR Bullet Camera



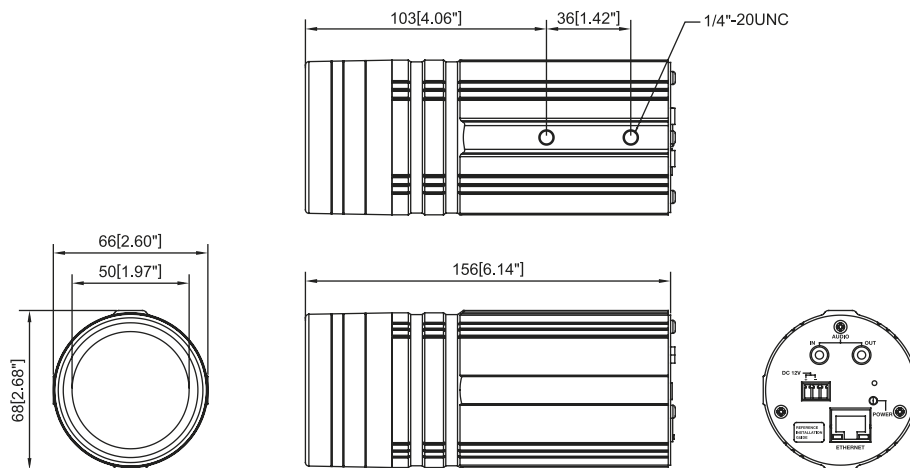
- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter
- Integrated f3.3 ~ 12 mm / F1.6 MegaPixel lens
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



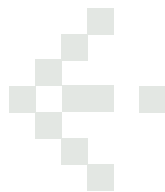
- ① Audio Input / Output
- ② DC 12 V Power Input

- ③ Ethernet Port
- ④ Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-1511
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	1280 x 1024
Min. Scene Illumination	Color	Color mode automatically switched to B/W mode under 4 Lux
	B/W	0 Lux (IR LED ON)
	IR Sensitivity	from 700 nm to 1100 nm
	IR LED	IR LED x24 (850 nm)
	CDS Sensor	Yes
	IR Working Distance	20 ~ 30 M (30 IRE)
Lens	Lens	f3.3 ~ 12 mm / F1.6
	Viewing Angle	89.8° ~ 23.9° (Horizontal)
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	Yes
Functions	Motion Detection	Yes (3 Windows)
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60 Hz); 1/5 ~ 1/2,000 sec. (50 Hz)
	Flickerless	1/120 sec. (60 Hz); 1/100 sec. (50 Hz)
	BLC	Yes
	AGC	Automatic (user defined)
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	SXGA (1280x1024); HD720 (1280x720); VGA (640x480); QVGA (320 x 240); QQVGA (160 x 112)
	Bit Rate	28 K ~ 3 M bps
	Image Frame Rate	8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA
Audio Input	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
External I/O	Reset Button	Factory default
	LED	System status
Network	Ethernet	Ethernet(10/100 Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	0 °C ~ 50 °C (32 ~ 122 °F)
Power	Power Requirement	PoE(IEEE802.3af) with class 3
	Power Consumption	3.72 W (DC12V) w/ IR ON
		4.8 W (PoE) w/ IR ON
Physical	Dimensions (WxHxD)	66 mm x 156 mm (2.6" x 6.14")
	Weight	505 g (1.11 b)

ORDERING INFORMATION

Model Name	Description
ACM-1511	Megapixel Indoor IP IR Bullet Camera

ACCESSORY OPTIONS

- Camera bracket 69-GL220E-R0



69-GL220E-R0

Megapixel IP Fixed Dome Camera



Model Name	ACM-3401	ACM-3411	ACM-3511	ACM-7411
Type	Megapixel IP indoor dome	Megapixel IP indoor D/N dome	Megapixel IP indoor D/N dome	Megapixel IP outdoor D/N dome
Image Sensor	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel
Day/Night	N/A	Yes	Yes	Yes
Mechanical IR Cut Filter	N/A	Yes	Yes	Yes
IR LED	N/A	N/A	Yes	N/A
Lens	Fixed lens, f= 4.2mm/F1.8, Fixed iris	Fixed lens, f= 4.2mm/F1.8, Fixed iris	Vari-focal, f= 3.3~12mm/ F1.6, Fixed iris	Vari-focal, f= 3.3 ~ 12 mm/F1.6, Fixed iris
Min. Illumination	0.5 Lux at F1.0	0.05 Lux at F1.0	0 Lux (IR LED ON)	0.05 Lux at F1.0
Compression	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps
FPS	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)
Audio	2-way	2-way	2-way	2-way
Alarm Input/Output	N/A	N/A	N/A	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	N/A	N/A	N/A
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment	X (Panning): 0° ~ 170° Y (Tilting): 0° ~ 90°	X (Panning): 0° ~ 170° Y (Tilting): 0° ~ 90°	X (Panning): 0° ~ 330° Y (Tilting): 30° ~ 90°	X (Panning): 0° ~ 360° Y (Tilting): 0° ~ 180° Z (Rotating): 0° ~ 360°
Environmental Casing	N/A	N/A	N/A	IP66 weatherproof casing
Mounting Options	Surface/Wall	Surface/Wall	Surface/Wall	Flush**/Surface/Wall
Power Requirement	DC 3.3 V	N/A	N/A	N/A
	DC 12 V / PoE	Yes	Yes	Yes
	DC 12 V / AC 24 V	N/A	N/A	N/A

* Outdoor application requires weatherproof housing.

** Flush mount is identical to in-ceiling mount.

ACM-3401/ACM-3411

Megapixel IP Fixed Dome Camera



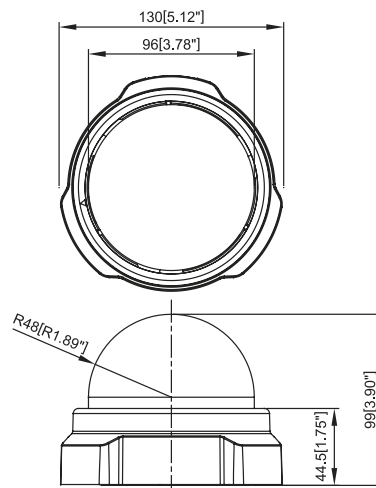
- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter (ACM-3411)
- Integrated f4.2mm / F1.8 Megapixel lens
- 0.5 Lux (ACM-3401) / 0.05 Lux (ACM-3411) at F1.0
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported
- Surface and wall mount supported



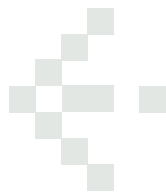
1 Audio Input / Output
2 Reset Button

3 DC 12 V Power Input
4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]



ACM-3401/ACM-3411

PRODUCT SPECIFICATION

		ACM-3401	ACM-3411
Image	Device	Micron Progressive Scan CMOS	
	Size	1/3 inch	
	Effective Pixels	1280 x 1024	
Min. Scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30IRE)	Color mode automatically switched to B/W mode under 4 Lux
	B/W	N/A	0.05 Lux at F1.0 (2400 °K, 30IRE)
	IR Sensitivity	N/A	from 700nm to 1100 nm
	CDS Sensor	N/A	Yes
Lens	Lens	f4.2 mm / F1.8	
	Viewing Angle	75° (Horizontal)	
Camera Angel Adjustment	X (Panning)	0° ~170°	
	Y (Tilting)	0° ~90°	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	N/A	Yes
Functions	Motion Detection	Yes (3 Windows)	
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)	
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)	
	BLC	Yes	
	AGC	Automatic (User defined)	
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL	
S/N Ratio	S/N Ratio	Better than 44 dB	
Video Compression	Compression	MPEG-4 SP, MJPEG selectable	
	Picture Resolution	SXGA (1280x1024); HD720 (1280x720); VGA (640x480); QVGA (320 x 240); QQVGA (160 x112)	
	Bit Rate	28K ~ 3M bps	
	Image Frame Rate	8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA	
Audio Input	Compression	8kHz, Mono, PCM	
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block	
Audio Output	Compression	8kHz, Mono, PCM	
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block	
External I/O	Reset Button	Factory default	
Casing	Mount Types	Surface / Wall (option)	
Network	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector	
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP,FTP,SMTP,DNS,DDNS,NTP,ICMP,IGMP,ARP,3GPP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
	Security	Password protection: configured by the administrator	
Operating	Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	
Power	Power Requirement	PoE (IEEE802.3af) with Class 3	
	Power Consumption	3.3 W (DC 12 V); 4.3 W (PoE)	
Physical	Dimensions (ØxL)	130 mm x 99 mm (5.12" x 3.90")	
	Weight	350 g (0.7 lb)	

ORDERING INFORMATION

Model Name	D&N	DC 12V / PoE
ACM-3401		V
ACM-3411	V	V

ACCESSORY OPTIONS

- Wall mount kit

MTB-201-R0



MTB-201-R0

ACM-3511

Megapixel IP Fixed Dome Camera with Vari-focal Lens



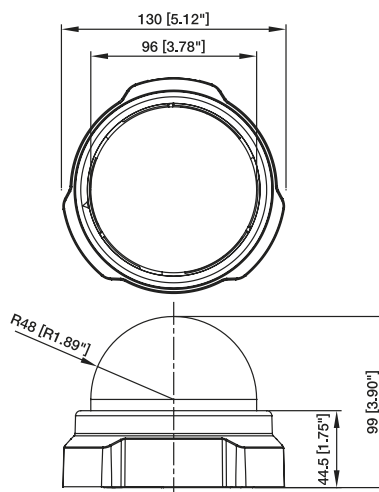
- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter
- Integrated f3.3~12mm / F1.6 Megapixel lens
- 0 Lux at F1.6 (IR LED ON)
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported
- Surface and wall mount supported



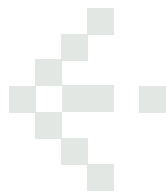
1 Audio Input / Output
2 Reset Button

3 DC 12 V Power Input
4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-3511
Image	Device	Micron Interlaced Scan SuperCMOS
	Size	1/3 inch
	Pixels - Effective	1280 x 1024
Min. scene Illumination	Color	Color mode automatically switched to B/W mode under 7 Lux
	B/W	0 Lux (IR LED ON)
	IR Sensitivity	from 700nm to 1100nm
	IR LED	IR LED x24 (850nm)
	CDS Sensor	Yes
	IR Working Distance	20 ~ 30 M (30 IRE)
Lens	Lens	f3.3 ~ 12mm / F1.6
	Viewing Angle	89.8° ~ 23.9° (Horizontal)
Camera Angel Adjustmeny	X (Panning)	0° ~330°
	Y (Tilting)	30° ~90°
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	Yes
Functions	Motion Detection	Yes (3 Windows)
	Electronic shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)
	BLC	Yes
	AGC	Automatic (User defined)
	White Balance	AUTO,INDOOR1,INDOOR2,OUTDOOR1,OUTDOOR2, HOLD CURRENT,MANUAL
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	SXGA (1280x1024); HD 720 (1280x720); VGA (640x480); QVGA (320x240); QQVGA (160 X 112)
	Bit Rate	28 K ~ 3 M bps
	Image Frame Rate	SXGA at 8 fps; HD720 at 10 fps; VGA at 30 fps; QVGA at 30 fps; QQVGA at 30 fps
Audio Input	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
External I/O	Reset Button	Factory Default
Casing	Mount Tpyes	Surface / Wall (option)
Network	Ethernet	Ethernet (10/100 Base-T), RJ45 Connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password Protection: Configured by the Administrator
Operating	Temperature	-10 °C~50 °C (14~122 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	5.0W (DC 12 V); 6.8W (PoE)
Physical	Dimensions (ØxL)	130 mm x 99 mm (5.12" x 3.90")
	Weight	380g (0.84 lb)

ORDERING INFORMATION

Model Name	Description
ACM-3511	Megapixel IP Fixed Dome Camera

ACCESSORY OPTIONS

• Wall mount kit

MTB-201-R0



MTB-201-R0

ACM-7411

Megapixel IP Rugged Dome Camera

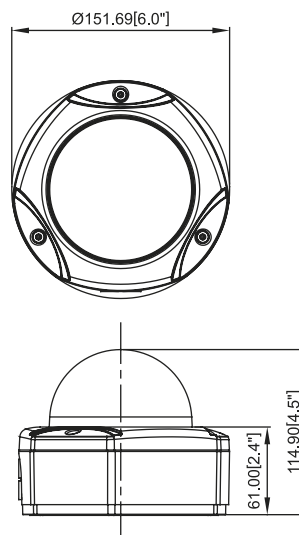


- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter
- Integrated f3.3~12 mm / F1.6 Megapixel lens
- 0.05 Lux at F1.0
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input/Output
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported
- Heavy-duty, weatherproof and vandal proof with IP66 protection
- Surface, flush and wall mount supported



- | | |
|-----------------------|------------------------------|
| ① Ethernet Port | ③ Reset Button |
| ② DC 12 V Power Input | ④ Audio & DIO Input / Output |

DIMENSION DIAGRAM



Unit: mm [inch]

PRODUCT SPECIFICATION

		ACM-7411
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	1280 x 1024
Min. Scene Illumination	Color	Color mode automatically switched to B/W mode under 4 Lux
	B/W	0.05 Lux at F1.0 (2400 °K, 30 IRE)
	CDS Sensor	Yes
	IR Sensitivity	from 700nm to 1100 nm
Lens	Lens	f3.3 ~ 12 mm / F1.6
	Viewing Angle	89.8° ~ 23.9° (Horizontal)
Camera Angle Adjustment	X (Panning)	0° ~360°
	Y (Tilting)	0° ~180°
	Z (Rotating)	0° ~360°
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	Yes
Functions	Motion Detection	Yes (3 Windows)
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)
	BLC	Yes
	AGC	Automatic (User definition)
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	SXGA (1280x1024); HD720 (1280x720); VGA (640x480); QVGA (320 x 240); QQVGA (160 x 112)
	Bit Rate	28K ~ 3M bps
	Image Frame Rate	8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA
Audio Input	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Alarm	Digital Input	1, terminal block
	Transistor Output	1, terminal block
External I/O	Reset Button	Factory default
Casing	IP66 Rated	Weatherproof casing with IP66 standard
	Vandal Proof	Vandal proof supports, durability up to 619.3 KgF
	Mount Types	Surface / Flush / Wall
Network	Ethernet	Ethernet (10/100 Base-T), RJ45 Connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Heater / Fan	Yes (built-in)
	Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F) for DC 12 V; -5 °C ~ 50 °C (7 °F ~ 122 °F) for PoE
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	3.4 W (DC 12 V) w/o Heater & Fan
		13.2 W (DC 12 V) w/ Heater ON & Fan ON * 4.4 W (PoE) w/o Heater & Fan
Physical	Dimensions (WxHxD)	151.69 mm x 114.9 mm (6.0" x 4.5")
	Weight	1040 g

* PoE cannot support Heater and Fan.

ORDERING INFORMATION

Model Name	Description
ACM-7411	Megapixel IP Rugged Dome

ACCESSORY OPTIONS

- Wall mount kit R695-00019-001
- Flush mount kit R695-00020-000



R695-00019-001



R695-00020-000

Megapixel IP Cube Camera



Model Name		ACM-4200	ACM-4201	TCM-4301
Type		Megapixel IP indoor cube camera	Megapixel IP indoor cube camera	Megapixel IP indoor cube camera
Image Sensor		1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel
Day/Night		N/A	N/A	N/A
Mechanical IR Cut Filter		N/A	N/A	N/A
IR LED		N/A	N/A	N/A
Lens		Changeable (CS/C mount); Bundled Fixed lens, f= 4.2mm/F1.8, Fixed iris	Changeable (CS/C mount); Bundled Fixed lens, f= 4.2mm/F1.8, Fixed iris	Changeable (CS/C mount); Bundled Fixed lens, f= 4.2mm/F1.8, Fixed iris
Min. Illumination		0.5 Lux at F1.0	0.5 Lux at F1.0	0.5 Lux at F1.0
Compression		MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	H.264/MPEG-4/MJPEG triple codec with two simultaneous streams
Max. Video Resolution vs Frame Rate		SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 18 fps
FPS		8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	18 fps at SXGA (1280 x 1024) 25 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)
Audio		2-way	2-way	2-way
Alarm Input/Output		N/A	N/A	N/A
Motion Detection		Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output		N/A	N/A	N/A
Multi-stream		Up to 2 configurable frame rate/bit rate streams for preview and recording	Up to 2 configurable frame rate/bit rate streams for preview and recording	H.264/MPEG-4/MJPEG simultaneous dual streams selectable
Network Protocol		TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks		10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment		N/A	N/A	N/A
Environmental Casing		N/A	N/A	N/A
Mounting Options		N/A	N/A	N/A
Power Requirement	DC 3.3 V	Yes	N/A	N/A
	DC 12 V / PoE	N/A	Yes	Yes
	DC 12 V / AC 24 V	N/A	N/A	N/A

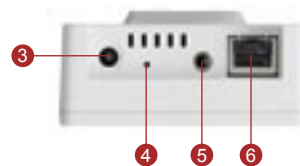
ACM-4200/ACM-4201



* The bracket is included.

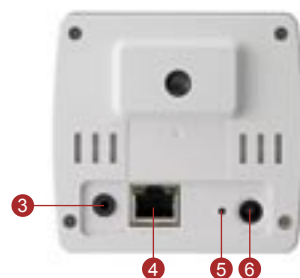
- 1/3" Micron Progressive Scan CMOS
- Bundled with f4.2 mm / F1.8 Megapixel lens
- 0.5 Lux at F1.0
- Shutter speed, White Balance, Exposure, Gain Controls supported
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12V or Power over Ethernet (IEEE 802.3af) supported (ACM-4201)

ACM-4200



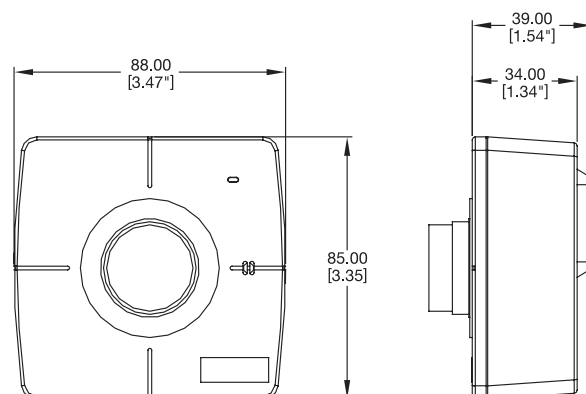
- 3 DC 3.3 V Power Input
- 4 Reset Button
- 5 Audio Output
- 6 Ethernet Port

ACM-4201

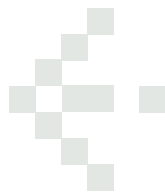


- 3 Audio Output
- 4 Ethernet Port
- 5 Reset Button
- 6 DC 12 V Power Input

DIMENSION DIAGRAM



Unit: mm [inch]



ACM-4200/ACM-4201

PRODUCT SPECIFICATION

		ACM-4200	ACM-4201
Image	Device	Micron Progressive Scan CMOS	
	Size	1/3 inch	
	Effective Pixels	1280 x 1024	
Min. scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30 IRE)	
Lens	Lens	f4.2 mm / F1.8	
	Viewing Angle	75° (Horizontal)	
Synchronization	Sync. System	Internal	
Functions	Motion Detection	Yes (3 windows)	
	Electronic shutter	1/5 ~ 1/2,000 sec. (60Hz) 1/5 ~ 1/2,000 sec. (50Hz)	
	Flickerless	1/120 sec. (60Hz) 1/100 sec. (50Hz)	
	BLC	Yes	
	AGC	Automatic (User defined)	
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL	
S/N Ratio	S/N Ratio	Better than 44 dB	
Video Compression	Compression	MPEG-4 SP / MJPEG selectable	
	Picture Resolution	SXGA (1280 x 1024)	
		HD 720 (1280 x 720)	
		VGA (640 x 480)	
		QVGA(320 x 240) QQVGA(160 x 112)	
	Bit Rate	28 K ~ 3 M bps	
Audio Input	Image Frame Rate	8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQQVGA	
	Compression	8kHz, Mono, PCM	
	Built-in Microphone	Sensitivity: -36±3dB(0dB=1V/Pa); S/N Ratio: more than 58 dB; Directivity: Omni-directional	
Audio Output	Compression	8kHz, Mono, PCM	
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Phone Jack	
External I/O	Reset Button	Factory default	
	LED	System status	
Network	Ethernet	Ethernet(10/100 Base-T), RJ-45 connector	
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
	Security	Password protection: configured by the administrator	
Operating	Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)	
Power	Power Requirement	DC 3.3 V ±10%	PoE (IEEE 802.3af) with Class 3
	Power Consumption	2.4 W	2.88 W (DC 12V), 3.00 W (PoE)
Physical	Dimensions (WxHxD)	88 mm x 85 mm x 39 mm (3.47" x 3.35" x 1.54")	
	Weight	150 g (0.33 lb) (w/o bracket)	

ORDERING INFORMATION

Model Name	DC12V/PoE
ACM-4200	
ACM-4201	V

ACCESSORY OPTIONS

- Lens, f2.4 ~ 6mm F1.2, CS mount, Format 1/3" LENS-201
- Lens, f2.8 ~ 12mm F1.6, CS mount, Format 1/3" LENS-205

Bundled Accessory



- Max. Load: 1.5 kg
- Material / Color: ABS PLASTIC / Grey
- Dimension (H x D): 115 mm x 80 mm
- Swivel Angle: 360°
- Tilt Angle: 90°



TCM-4301

H.264 Megapixel IP Cube Camera



- 1/3" Micron Progressive Scan CMOS
- Bundled with f4.2 mm / F1.8 Megapixel lens
- 0.5 Lux at F 1.0
- Shutter Speed, White Balance, Exposure, Gain Controls supported
- H.264 / MPEG-4 / MJPEG triple codec with two simultaneous streams
- Up to SXGA resolution at 18 FPS
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported

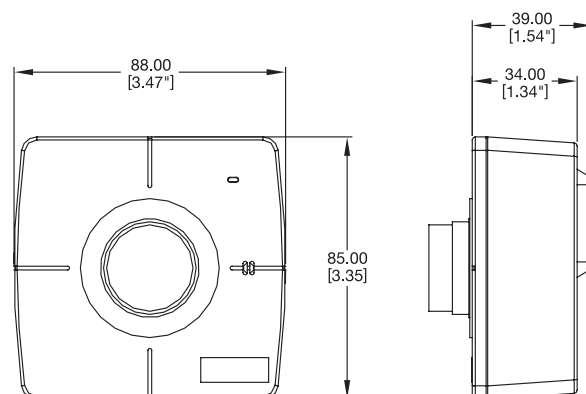


- ① Power LED
- ② Built-in Microphone

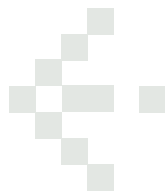


- ③ Audio Output
- ④ Ethernet Port
- ⑤ Reset Button
- ⑥ DC 12V Power Input

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		TCM-4301
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	1280 x 1024
Min. scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30 IRE)
Lens	Lens	f4.2 mm / F1.8
	Viewing Angle	75° (Horizontal)
Synchronization	Sync. System	Internal
Functions	Motion Detection	Yes (3 Windows)
	Electronic shutter	1/5 ~ 1/2,000 sec. (60Hz) 1/5 ~ 1/2,000 sec. (50Hz)
	Flickerless	1/120 sec. (60Hz) 1/100 sec. (50Hz)
	BLC	Yes
	AGC	Automatic (User defined)
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	H.264 / MPEG-4 SP / MJPEG simultaneous dual streams selectable
	Picture Resolution	SXGA (1280x1024); HD 720 (1280x720); VGA (640x480); QVGA (320x240); QQVGA (160x112)
	Bit Rate	28 K ~ 3 M bps
	Image Frame Rate	18 fps at SXGA; 25 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA
Audio Input	Compression	8kHz, Mono, PCM
	Built-in Microphone	Sensitivity: -36±3dB(0dB=1V/Pa); S/N Ratio: more than 58 dB; Directivity: Omni-directional
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
External I/O	Reset Button	Factory default
	LED	System status
Network	Ethernet	Ethernet(10/100 Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP, UPnP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	-10 °C ~ 40 °C (14 °F ~ 104 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	4.1 W (DC 12 V) ; 5.3 W (PoE)
Physical	Dimensions (WxHxD)	88 mm x 85 mm x 39 mm (3.47" x 3.35" x 1.54")
	Weight	150 g (0.33 lb) (w/o bracket)

ORDERING INFORMATION

Model Name	Description
TCM-4301	H.264 Megapixel IP Cube Camera

ACCESSORY OPTIONS

- Lens, f2.4~6mm F1.2, CS mount, Format 1/3" LEN-201
- Lens, f2.8~12mm F1.6, CS mount, Format 1/3" LEN-205

Bundled Accessory



- Max. Load: 1.5 kg
- Material / Color: ABS PLASTIC / Grey
- Dimension (H x D) : 115 mm X 80 mm
- Swivel Angle: 360°
- Tilt Angle: 90°

IP Cube Camera



Model Name		ACM-4000	ACM-4001
Type		IP indoor cube camera	IP indoor cube camera
Image Sensor		1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS
Day/Night		N/A	N/A
Mechanical IR Cut Filter		N/A	N/A
IR LED		N/A	N/A
Lens		Fixed lens, f= 4.2mm/F1.8 Fixed iris	Fixed lens, f= 4.2mm/F1.8 Fixed iris
Min. Illumination		0.5 Lux at F1.0	0.5 Lux at F1.0
Compression		MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate		640 x 480 at 30 fps	640 x 480 at 30 fps
FPS (NTSC/PAL)		30 at all resolution	30 at all resolution
Audio		2-way	2-way
Failover		N/A	N/A
Alarm Input/Output		N/A	N/A
Motion Detection		Yes (hardware)	Yes (hardware)
Analog Video Output		N/A	N/A
Multi-stream		Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Protocol		TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks		10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Power Requirement	DC 3.3 V	Yes	N/A
	DC 12V / PoE	N/A	Yes

ACM-4000/ACM-4001



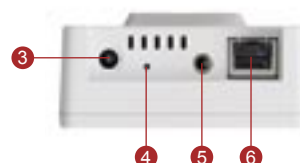
* The bracket is included.

- 1/3" Micron Progressive Scan CMOS
- Bundled with f4.2mm / F1.8 fixed lens
- 0.5 Lux at F1.0
- Shutter Speed, White Balance, Exposure, Gain Controls supported
- Selectable MPEG-4 / MJPEG compression
- VGA resolution at 30 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12V or Power over Ethernet (IEEE 802.3af) supported (ACM-4001)

ACM-4000

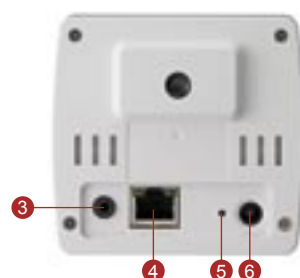


- ① Power LED
- ② Built-in Microphone



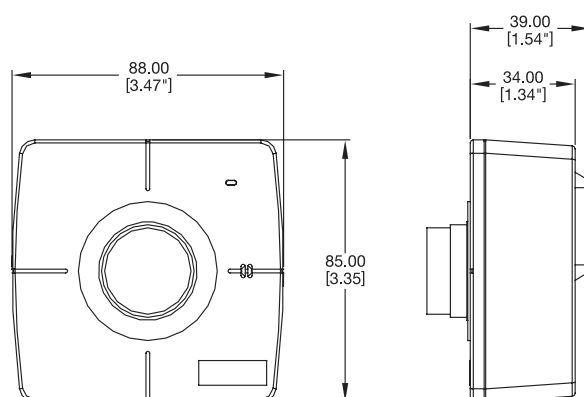
- ③ DC 3.3 V Power Input
- ④ Reset Button
- ⑤ Audio Output
- ⑥ Ethernet Port

ACM-4001

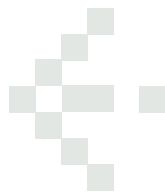


- ③ Audio Output
- ④ Ethernet Port
- ⑤ Reset Button
- ⑥ DC 12 V Power Input

DIMENSION DIAGRAM



Unit: mm [inch]



ACM-4000/ACM-4001

PRODUCT SPECIFICATION

		ACM-4000	ACM-4001
Image	Device	Micron Progressive Scan CMOS	
	Size	1/3 inch	
	Effective Pixels	640 x 480	
Min. scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30 IRE)	
Lens	Lens	f4.2 mm / F1.8	
	Viewing Angle	75° (Horizontal)	
Synchronization	Sync. System	Internal	
Functions	Motion Detection	Yes (3 windows)	
	Electronic shutter	1/5 ~ 1/2,000 sec. (60Hz) 1/5 ~ 1/2,000 sec. (50Hz)	
	Flickerless	1/120 sec. (60Hz) 1/100 sec. (50Hz)	
	BLC	Yes	
	AGC	Automatic (User defined)	
	White Balance	AUTO,INDOOR1,INDOOR2,OUTDOOR1,OUTDOOR2, HOLD CURRENT,MANUAL	
S/N Ratio	S/N Ratio	Better than 44 dB	
	Compression	MPEG-4 SP / MJPEG selectable	
Video Compression	Picture Resolution	VGA (640 x 480) QVGA(320 x 240) QQVGA(160 x 112)	
	Bit Rate	28 K ~ 3 M bps	
	Image Frame Rate	30 fps at VGA resolution	
Audio Input	Compression	8kHz, Mono, PCM	
	Built-in Microphone	Sensitivity: -36±3dB(0dB=1V/Pa); S/N Ratio: more than 58 dB; Directivity: Omni-directional	
Audio Output	Compression	8kHz, Mono, PCM	
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5mm Phone Jack	
External I/O	Reset Button	Factory default	
	LED	System status	
Network	Ethernet	Ethernet(10/100 Base-T), RJ-45 Connector	
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
	Security	Password protection: configured by the administrator	
Operating	Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)	
Power	Power Requirement	DC 3.3 V ± 10 %	PoE (IEEE 802.3af) with Class 3
	Power Consumption	2.4 W	2.88 W (DC 12V), 3.00 W (PoE)
Physical	Dimensions (WxHxD)	88 mm x 85 mm x 39 mm (3.47" x 3.35" x 1.54")	
	Weight	150 g (0.33 lb) (w/o bracket)	

ORDERING INFORMATION

Model Name	DC12V/PoE
ACM-4000	
ACM-4001	V

ACCESSORY OPTIONS

- Lens, f2.4 ~ 6mm F1.2, CS mount, Format 1/3" LEN-201
- Lens, f2.8 ~ 12mm F1.6, CS mount, Format 1/3" LEN-205

Bundled Accessory



- Max. Load: 1.5 kg
- Material / Color: ABS PLASTIC / Grey
- Dimension (H x D): 115 mm x 80 mm
- Swivel Angle: 360°
- Tilt Angle: 90°

IP PTZ Camera



Model Name	ACM-8201	ACM-8211	ACM-8511
Type	Megapixel IP PTeZ camera	Megapixel IP D/N PTeZ camera	IP D/N PTZ camera
Image Sensor	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/3" Micron Progressive Scan CMOS 1.3 Megapixel	1/4" CCD Image Sensor
Zoom	N/A	N/A	10x optical; 10x digital
Day/Night	N/A	Yes	Yes
Mechanical IR Cut Filter	N/A	Yes	N/A
IR LED	N/A	Yes	N/A
Lens	Fixed lens, f= 4.2mm/F1.8, Fixed iris	Fixed lens, f= 4.2mm/F1.8, Fixed iris	Zoom lens, f = 4.2 ~ 42 mm /F1.8~2.9, Auto iris
Min. Illumination	0.5 Lux at F1.0	0 Lux (IR LED ON)	0.009 Lux at F1.8
Compression	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate	SXGA (1280 x 1024) at 8 fps	SXGA (1280 x 1024) at 8 fps	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	8 fps at SXGA (1280 x 1024) 10 fps at HD720 (1280 x 720) 30 fps at VGA (640 x 480) 30 fps at QVGA (320 x 240) 30 fps at QQVGA (160 x 112)	30/25 at all resolution
PTZ Control	Yes, 32 presets Preset Tour, Auto Scan	Yes, 32 presets Preset Tour, Auto Scan	Yes, 32 presets Preset Tour, Auto Scan
Panning Range	0°~ 350°	0°~ 350°	0°~ 354°
Panning Speed (° / sec.)	20° ~120°	20° ~120°	10° ~90°
Tilting Range	-30° ~ 90°	-30° ~ 90°	-25° ~ 90°
Tilting Speed (° / sec.)	15° ~ 70°	15° ~ 70°	10° ~ 70°
Audio	2-way	2-way	2-way
Alarm Input/Output	1/1	1/1	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	N/A	N/A
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Mounting Options	Surface/Flush*	Surface*	Surface/Flush*
Power Requirement	DC 12 V / PoE Yes	Yes	Yes

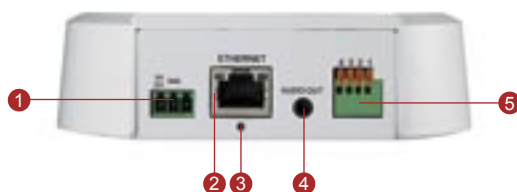
* Flush mount is identical to in-ceiling mount.



ACM-8201/ACM-8211



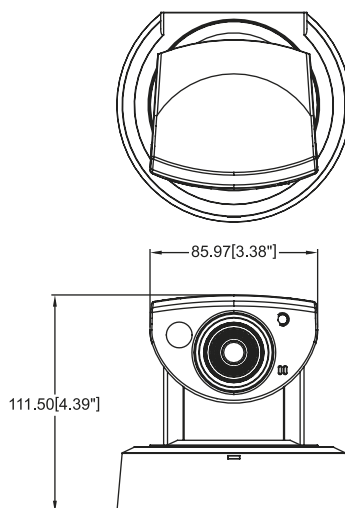
- 1.3M Megapixel resolution supported
- Day and night function with Mechanical IR Cut Filter (ACM-8211)
- Integrated f4.2 mm / F1.8 Megapixel lens
- Unlimited digital zoom supported
- 0.5 Lux at F1.0 (ACM-8201) / 0 Lux (IR LED ON) (ACM-8211)
- Selectable MPEG-4 / MJPEG compression
- Up to SXGA resolution at 8 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input/Output
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported
- Surface and flush mount supported (ACM-8201) / Surface mount supported (ACM-8211)



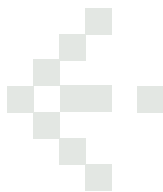
- ① Power Input
- ② Ethernet Port
- ③ Reset Button

- ④ Audio Output
- ⑤ Digital Input / Transistor Output

DIMENSION DIAGRAM



Unit: mm [inch]



ACM-8201/ACM-8211

PRODUCT SPECIFICATION

ACM-8201			ACM-8211		
Image	Device		Micron Progressive Scan CMOS		
	Size		1/3 inch		
	Effective Pixels		1280 x 1024		
Min. Scene Illumination	Color		0.5 Lux at F1.0 (2400°K, 30IRE)	Color mode automatically switched to B/W mode under 4 Lux	
	B/W		N/A	0 Lux (IR LED ON)	
	CDS Sensor		N/A	Yes	
	IR Sensitivity		N/A	from 700 nm to 1100 nm	
	IR LED		N/A	IR LED x3 (850 nm)	
	IR Working Distance		N/A	5 ~ 10 M (30 IRE)	
Lens	Focal Length		f4.2 mm / F1.8		
	Viewing Angle		75° (Horizontal)		
Synchronization	Sync. System		Internal		
Day/Night Functions	Mechanical IR Cut Filter		N/A	Yes	
Functions	Motion Detection		Yes (3 Windows)		
	Electronic Shutter		1/5 ~ 1/2,000 sec. (60 Hz); 1/5 ~ 1/2,000 sec. (50 Hz)		
	Flickerless		1/120 sec. (60 Hz); 1/100 sec. (50 Hz)		
	BLC		Yes		
	AGC		Automatic (User defined)		
	White Balance		AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL		
	Number of Preset		32 points		
	Preset Tour		10 group		
S/N Ratio	Auto Scan		Yes		
	S/N Ratio		Better than 44 dB		
PAN/TILT	Manual Speed	Pan	20° ~ 120° / sec.		
		Tilt	15° ~ 70° / sec.		
	Travel Range	Pan	350° (0° ~ 350°)		
		Tilt	120° (-30° ~ 90°)		
Video Compression	Compression		MPEG-4 SP, MJPEG selectable		
	Picture Resolution		SXGA (1280x1024); HD720 (1280x720); VGA (640x480); QVGA (320x240); QQVGA (160x112)		
	Bit Rate		28 K ~ 3 M bps		
	Image Frame Rate		8 fps at SXGA; 10 fps at HD720; 30 fps at VGA; 30 fps at QVGA; 30 fps at QQVGA		
Audio Input	Compression		8 kHz, Mono, PCM		
	Built-in Microphone		Sensitivity: -36±3 dB(0 dB=1V/Pa); S/N Ratio: more than 58 dB; Directivity: Omni-directional		
Audio Output	Compression		8 kHz, Mono, PCM		
	Audio Line Output		Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack		
Alarm	Digital Input		1, terminal block		
	Transistor Ouput		1, terminal block		
External I/O	Reset Button		Factory default		
	LED		System status		
Casing	Mount Types		Surface / Flush	Surface	
Network	Ethernet		Ethernet(10/100Base-T), RJ-45 connector		
	Protocol		TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP		
Software	Web Browser		Microsoft Internet Explorer 6.0 or above		
	SDK		ACTi SDK-10000		
	Security		Password protection: configured by the administrator		
Operating	Temperature		0 °C ~ 45 °C (32 °F ~ 112 °F)		
Power	Power Requirement		PoE (IEEE802.3af) with Class 3		
	Power Consumption		3.8 W (DC 12 V) 4.8 W (PoE)		
Physical	Dimensions (WxHxD)		119.96 mm x 119.96 mm x 125.51 mm (4.72" x 4.72" x 4.94")		
	Weight		450 g (0.99 lb)		

ORDERING INFORMATION

Model Name	D & N	DC 12V / PoE
ACM-8201		V
ACM-8211	V	V

ACCESSORY OPTIONS

- Flush mount kit (For ACM-8201 only) R695-00022-100



R695-00022-100

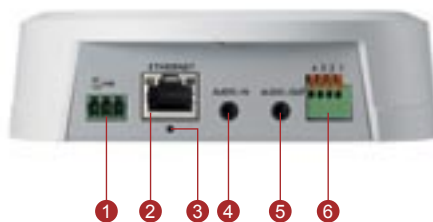


ACM-8511

IP PTZ Camera

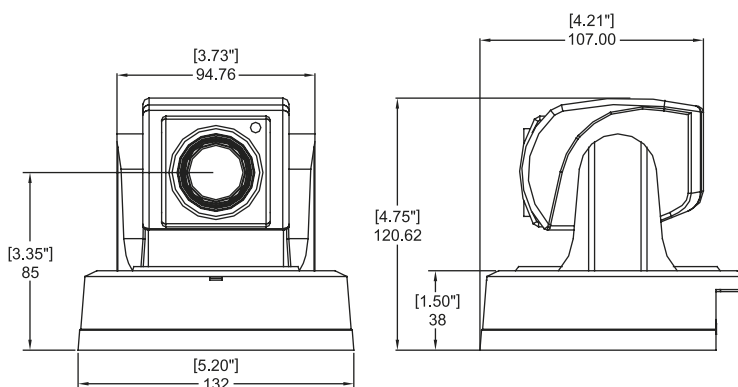


- 1/4 inch CCD Image Sensor
- Day and night function
- Optical zoom ratio 10X
- 0.009 Lux at F1.8 (5600° K, 50 IRE, Max. AGC, Max. Sense Up)
- Backlight Compensation, Auto Iris Control, Auto White Balance Supported
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input/Output
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



- | | |
|-----------------|-------------------------------------|
| ① Power Input | ④ Audio Input |
| ② Ethernet Port | ⑤ Audio Output |
| ③ Reset Button | ⑥ Digital Input / Transistor Output |

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

ACM-8511		
Image	Device	1/4 inch CCD Image Sensor
	Size	1/4 inch
	Effective Pixels (HxV)	811x508 (NTSC); 795x596 (PAL)
	Horizontal Resolution	480 TVL
Min. Scene Illumination	Color	2.5 Lux at F1.8 (5600°K, 50 IRE)
	B/W	0.009 Lux at F1.8 (5600° K, 50 IRE, Max. AGC, Max. Sense Up)
Lens	Focal Length	4.2 mm ~ 42 mm
	Zoom Ratio	10x
	Aperture Ratio	F1.8 (Wide), F2.9 (Tele)
	Diagonal angle	56.4° (W) ~ 6.1° (T)
	Digital Zoom	X1 ~ X10 variable
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 Windows)
	Electronic Shutter	1/60 ~ 1/120,000 sec. (NTSC) 1/50 ~ 1/120,000 sec. (PAL)
	Fixed Shutter	Yes (8 step)
	BLC	Super BLC, 48 zone BLC
	AGC	AUTO (18 dB max.)
	White Balance	ATW / AWB / FIX
	Number of Preset	32 points
	Preset Tour	10 group
	Auto Scan	Yes
	S/N Ratio	Better than 44 dB
PAN/TILT	Manual Speed	Pan 10° ~ 90°
		Tilt 10° ~ 70°
	Travel Range	Pan 354° (0° ~ 354°)
		Tilt 115° (-25° ~ 90°)
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) VGA (640 x 480 in NTSC, 640 x 480 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (176 x 120 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)
Audio Input	Compression	8 kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
Audio Output	Compression	8 kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
Alarm	Digital Input	1, terminal block
	Transistor Output	1, terminal block
External I/O	Reset Button	Factory default
	LED	System status
Network	Ethernet	Ethernet (10/100Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTI SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	0 °C ~ 45 °C (32 °F ~ 112 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	4.8 W (DV 12 V); 5.8 W (PoE)
Physical	Dimensions (WxHxD)	132 mm x 132 mm x 132 mm (5.20" x 5.20" x 5.20")

ORDERING INFORMATION

Model Name	NTSC	PAL	D & N	DC 12V / PoE
ACM-8511N	V		V	V
ACM-8511P		V	V	V

ACCESSORY OPTIONS

• Flush mount kit

R695-00022-100



R695-00022-100

IP Speed Dome



Model Name	CAM-6510	CAM-6610	CAM-6620	CAM-6630
Type	IP indoor D/N high speed dome	IP outdoor D/N high speed dome	IP outdoor D/N high speed dome with WDR	IP outdoor D/N high speed dome with WDR
Image Sensor	1/4" EXviewHAD CCD	1/4" EXviewHAD CCD	1/4" Progressive CCD	1/4" Progressive CCD
Zoom	18x optical; 12x digital	18x optical; 12x digital	23x optical; 12x digital	35x optical; 12x digital
Day/Night	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes
Lens	4.1~73.8 mm auto iris and Auto focus lens 18x optical zoom; 12x digital zoom	4.1~73.8 mm auto iris and Auto focus lens 18x optical zoom; 12x digital zoom	3.6~82.8 mm auto iris and Auto focus lens 23x optical zoom; 12x digital zoom	3.4~119 mm auto iris and Auto focus lens 35x optical zoom; 12x digital zoom
Min. Illumination	0.005 Lux at F1.4	0.005 Lux at F1.4	0.02 Lux at F1.4	0.01 Lux at F1.4
Compression	MPEG-4 ASP	MPEG-4 ASP	MPEG-4 ASP	MPEG-4 ASP
Max. Video Resolution vs Frame Rate	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS (NTSC/PAL)	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution
PTZ Control	Yes, 256 presets Preset Tour, Auto Pan, Cruise	Yes, 256 presets Preset Tour, Auto Pan, Cruise	Yes, 256 presets Preset Tour, Auto Pan, Cruise	Yes, 256 presets Preset Tour, Auto Pan, Cruise
Panning Range	360° endless	360° endless	360° endless	360° endless
Panning Speed (° / sec.)	5 ~ 400	5 ~ 400	5 ~ 400	5 ~ 400
Tilting Range	-10° ~ 190°	-10° ~ 190°	-10° ~ 190°	-10° ~ 190°
Tilting Speed (° / sec.)	5 ~ 400	5 ~ 400	5 ~ 400	5 ~ 400
Audio	2-way	2-way	2-way	2-way
Wide Dynamic Range	N/A	N/A	Yes	Yes
Absolute Position	Yes	Yes	Yes*	Yes*
Alarm Input/Output	8/1**	8/1**	8/1**	8/1**
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	Yes	Yes	Yes	Yes
Multi-stream	Up to 4 configurable frame rate/ bit rate streams for preview and recording	Up to 4 configurable frame rate/ bit rate streams for preview and recording	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
Failover	Yes	Yes	Yes	Yes
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE
Ethernet Networks	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN
Casing	• 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)
Mounting Options	Surface/Flush***/Wall/Pole/Corner	Wall/Pole/Corner/Ceiling	Wall/Pole/Corner/Ceiling	Wall/Pole/Corner/Ceiling
Power Requirement	AC 24 V	Yes	Yes	Yes

* Only Pan/Tilt absolute position is supported.

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

*** Flush mount is identical to in-ceiling mount.

CAM-6510



- 1/4" EXviewHAD
- Day and night function with Mechanical IR Cut Filter
- Optical Zoom Ratio 18X
- 0.005 Lux at F1.4
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Hardware motion detection, Digital Input / Output
- Fail-over network protection and QoS enabled (L3) video streaming
- Surface, flush and wall mount supported

Indoor wall mount



► Appearance



Indoor pole mount



► Appearance



Indoor corner mount



► Appearance



Indoor flush mount



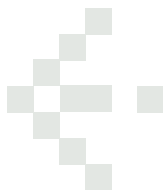
► Appearance



Indoor surface mount



* For more information, please refer to Technical FAQ, TS-00004 on ACTi Website.

**PRODUCT SPECIFICATION**

CAM-6510		
Image	Device	EXviewHAD CCD
	Size	1/4 inch
	Effective Pixels (HxV)	768x494(NTSC); 752x582(PAL)
	Horizontal Resolution	480 TVL
Min. scene Illumination	Color	0.1 Lux (F1.4, 1/4s(NTSC) or 1/3s (PAL))
	B/W	0.005 Lux (F1.4, 1/4s (NTSC) or 1/3s (PAL), IR ON)
Lens	Focal Length	4.1 ~ 73.8 mm
	Zoom Ratio	18x
	Aperture Ratio	F1.4(Wide), F3.0(Tele)
	Diagonal angle	48°(W)~2.8°(T)
	Zoom Speed	2.1sec(1x to 18x)
	Digital Zoom	X1 ~ X12 variable
Synchronization	Sync. System	Internal / line lock
Day/Night Functions	Mechanical IR Cut Filter	Yes
Functions	Motion Detection	Yes (3 windows)
	Electronic Shutter	1/1 ~ 1/10,000 sec. (NTSC) 1/1 ~ 1/10,000 sec. (PAL)
	Fixed Shutter	Yes
	Auto Slow Shutter	Yes
	BLC	On / Off
	AGC	Auto / Manual
	Auto Exposure Control	Auto/manual/exposure compensation
	Exposure Compensation	-10.5~+10.5dB (15steps)
	White Balance	Auto / Manual
	Camera ID	Max. 20 characters
	Number of Preset	256 points
	Auto Iris Control	Auto / manual
	Sequence Group	8
	Auto Pan (patrol)	4
	Schedule	Yes
	Privacy Mask	24
	WDR	N/A
	Absolute Position	Yes
S/N Ratio	Cruise	1
	S/N Ratio	Better than 50 dB (AGC off)
PAN/TILT	Manual Speed	Pan Tilt 1° ~ 90° / sec.
	Preset Speed	Pan Tilt 5° ~ 400° / sec
	Preset Accuracy	Pan 0.225°
		Tilt 0.45°
	Travel Range	Pan 360° endless
		Tilt -10° ~ 100° (190° in Image Flip mode)
Video (Compression)	Compression	MPEG-4 ASP compliant
	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)
	Bit Rate	28 K ~ 3 M bps
	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
Alarm	Input	8, TTL, terminal block (optional)
	Output	1, TTL, terminal block (optional)
Casing	Vandal Proof	Yes (cover with vandal proof option)
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, DNS, DDNS, NTP, ICMP, IGMP, ARP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
Power	Power Requirement	AC 24 V ±20%
	Power Consumption	20 W
Physical	Dimensions (ØxH)	131 mm x 226 mm (5.2" x 8.9")
	Weight	1,600 g (3.5 lb)

* Only Pan/Tilt absolute position is supported.

CAM-6600 Series

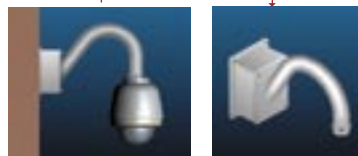


- 1/4" EXviewHAD / Progressive CCD
- Day and night function with Mechanical IR Cut Filter
- Optical Zoom Ratio 18X (CAM-6610) / 23X (CAM-6620) / 35X (CAM-6630)
- 0.005 Lux (CAM-6610) / 0.02 Lux (CAM-6620) / 0.05 Lux (CAM-6630) at F1.4
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Hardware motion detection, Digital Input/Output
- Fail-over network protection and QoS enabled (L3) video streaming
- IP66 weatherproof supported
- Surface, flush and wall mount supported

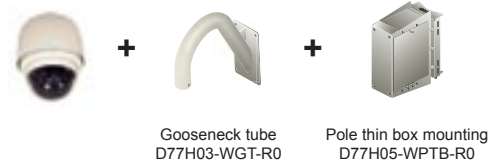
Outdoor wall mount



► Appearance



Outdoor pole mount



► Appearance



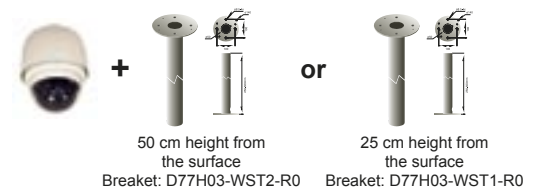
Outdoor corner mount



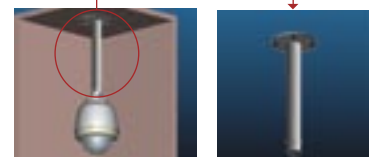
► Appearance



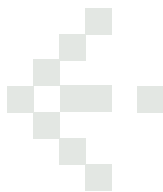
Outdoor surface mount



► Appearance



* For more information, please refer to Technical FAQ, TS-00004 on ACTI Website.



CAM-6600 Series

PRODUCT SPECIFICATION

			CAM-6610	CAM-6620	CAM-6630
Image	Device		EXviewHAD CCD	Progressive CCD	Progressive CCD
	Size		1/4 inch		
	Effective Pixels (HxV)		768x494 (NTSC); 752x582 (PAL)		
	Horizontal Resolution		480 TVL	520 TVL	540 TVL
Min. Scene Illumination	Color		0.1 Lux (F1.4, 1/4s(NTSC) or 1/3s (PAL))	0.1 Lux (F1.6, 1/60s(NTSC), 1/50s (PAL))	0.05 Lux (F1.4, 1/60s(NTSC), 1/50s (PAL))
	B/W		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)	0.01 Lux (F1.4, 1/4s (NTSC) or 1/3s (PAL), IR ON)
Lens	Focal Length		4.1 ~ 73.8 mm	3.6 ~ 82.8 mm	3.4 ~ 119 mm
	Zoom Ratio		18x	23x	35x
	Aperture Ratio		F1.4 (Wide), F3.0 (Tele)	F1.6 (Wide), F3.7 (Tele)	F1.4 (Wide), F4.2 (Tele)
	Diagonal Angle		48° (W) ~ 2.8° (T)	54° (W) ~ 2.5° (T)	55.8° (W) ~ 1.7° (T)
	Zoom Speed		2.1 sec (1x to 18x)	2.9 sec (1x to 23x)	4.6 sec (1x to 35x)
	Digital Zoom		X1 ~ X12 variable		
Synchronization	Sync. System		Internal / Line Lock		
Day/Night Functions	Mechanical IR Cut Filter		Yes		
	Motion Detection		Yes (3 windows)		
Functions	Electronic Shutter		1/1 ~ 1/10,000 sec. (NTSC) 1/1 ~ 1/10,000 sec. (PAL)	1/2 ~ 1/30,000 sec. (NTSC) 1/1.5 ~ 1/30,000 sec. (PAL)	
	Image Stabilizer		N/A	N/A	Yes
	Fixed Shutter		Yes		
	Auto Slow Shutter		Yes		
	BLC		On / Off		
	AGC		Auto / Manual		
	Auto Exposure Control		Auto / Manual / Exposure Compensation	Auto / Manual / IRIS OFFSET	
	Exposure Compensation		-10.5 ~ +10.5 dB	IRIS OFFSET (000 ~ 100 steps)	
	White Balance		Auto / Manual		
	Camera ID		Max. 20 characters		
	Number of Preset		256 points		
	Auto Iris Control		Auto / Manual		
	Sequence Group		8		
	Auto Pan (Patrol)		4		
	Schedule		Yes		
	Privacy Mask		24	8	
	Cruise		1		
	Absolute Position		Yes	Yes*	
	Wide Dynamic Range		N/A	Yes	
	S/N Ration	S/N Ratio		Better than 50 dB (AGC off)	
PAN/TILT	Manual Speed	Pan Tilt	1° ~ 90°/sec.		
	Preset Speed	Pan Tilt	5° ~ 400°/sec.		
	Preset Accuracy	Pan	0.225°		
		Tilt	0.45°		
	Travel Range	Pan Tilt	360° endless 0° ~ 100° (190° in Image Flip mode)		
Video (Compression)	Compression		MPEG-4 ASP compliant		
	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)		
	Bit Rate		28K ~ 3M 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 rate streams for preview and recording		
Video Output	Composite Output		CVBS, 1.0Vp-p with 75 Ω loading, BNC connector		
Alarm	Input	8, TTL, terminal block (option)			
	Output	1, TTL, terminal block (option)			
Casing	IP66 Rated	Weatherproof housing with IP66 certification			
	Vandal Resistant	Yes (vandal proof cover is optional)			
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, DNS, DDNS, NTP, ICMP, IGMP, ARP			
Software	Web Browser	Microsoft Internet Explorer 6.0 or above			
	SDK	ACTi SDK-10000			
	Security	Password Protection: configured by the administrator			
Operating	Temperature		-45 °C ~ 50 °C (-49 °F ~ 122 °F)		
Power	Power Requirement		AC 24 V		
	Power Consumption		65 W (w/ Heater ON)		
Physical	Dimensions (ØxH)		172 mm x 302.5 mm (6.7" x 11.9"); 190 mm x 302.5 mm (7.5" x 11.9") with sunshield		
	Weight		5,800 g (12.9 lb)		

* Only Pan/Tilt absolute position is supported.

IP Box Camera



Model Name	ACM-5001	ACM-5711	CAM-5201	CAM-5221	CAM-5301	CAM-5321
Type	IP indoor* camera	IP indoor* D/N camera	IP indoor* camera	IP indoor D/N camera	IP indoor* camera	IP indoor D/N camera
Image Sensor	1/3" Micron Progressive Scan CMOS	1/3" SuperHAD CCD	1/3" SuperHAD CCD	1/3" EXviewHAD CCD	1/3" SuperHAD CCD	1/3" EXviewHAD CCD
Day/Night	N/A	Yes	N/A	Yes	N/A	Yes
Mechanical IR Cut Filter	N/A	N/A	N/A	Yes	N/A	Yes
IR LED	N/A	N/A	N/A	N/A	N/A	N/A
Lens	Changeable (CS/C mount), Bundled fixed lens, f=4.2mm/F1.8, Fixed iris	Changeable (CS/C mount); DC iris	Changeable (CS/C mount); DC iris	Changeable (CS/C mount); DC iris	Changeable (CS/C mount); DC iris	Changeable (CS/C mount); DC iris
Min. Illumination	0.5 Lux at F1.0	0.05 Lux at F1.0 (AES & Sense-Up ON)	0.15 Lux at F1.2	0.05 Lux at F1.2	0.15 Lux at F1.2	0.05 Lux at F1.2
Compression	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4 ASP	MPEG-4 ASP	MPEG-4 ASP	MPEG-4 ASP
Max. Video Resolution vs Frame Rate	640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS (NTSC/PAL)	30 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution
Audio	2-way	2-way	1-way	1-way	N/A	N/A
Failover	N/A	N/A	Yes	Yes	Yes	Yes
Alarm Input/Output	1/1	1/1	1/1	1/1	1/1	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	No	Yes	Yes	Yes	Yes	Yes
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 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
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN
Environmental Casing	Optional	Optional	Optional	Optional	Optional	Optional
Power Requirement	DC 12 V / PoE	Yes	Yes	Yes	Yes	Yes
	DC 12 V / AC 24 V	N/A	N/A	N/A	N/A	N/A

* Outdoor application requires weatherproof housing.



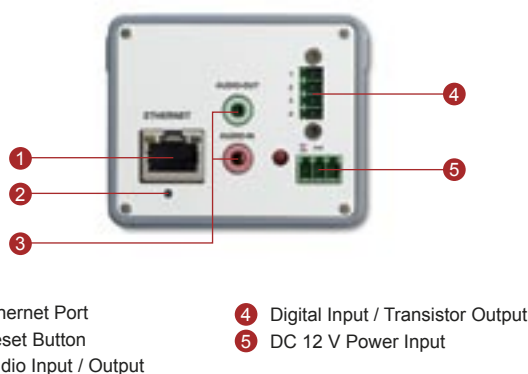
ACM-5001

IP Box Camera



* One fixed lens is included.

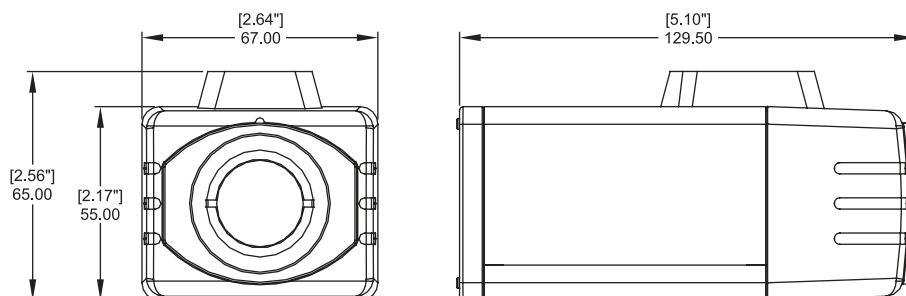
- 1/3" Micron Progressive Scan CMOS
- Bundled with f4.2mm / F1.8 fixed lens
- 0.5 Lux at F1.0
- Shutter Speed, White Balance, Exposure, Gain Controls supported
- Selectable MPEG-4 / MJPEG compression
- VGA resolution at 30 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input/Output
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



- ① Ethernet Port
- ② Reset Button
- ③ Audio Input / Output

- ④ Digital Input / Transistor Output
- ⑤ DC 12 V Power Input

DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

		ACM-5001
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	640 x 480
Min. scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30 IRE)
	B/W	N/A
	CDS Sensor	N/A
	IR Sensitivity	N/A
Lens	Lens Mount	C /CS (with adaptor)
	Focal Length	f4.2 mm / F1.8
	Viewing Angle	75° (Horizontal)
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 Windows)
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)
	BLC	Yes
	AGC	Automatic (User defined)
	White Balance	6 modes (AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL) configurable
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	VGA (640x480) QVGA(320x240) QQVGA(160x112)
	Bit Rate	28 K ~ 3 M bps
	Image Frame Rate	30 fps at VGA resolution
	Compression	8 kHz, Mono, PCM
Audio Input	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
Audio Output	Compression	8 kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
Alarm	Digital Input	1, terminal block
	Transistor Output	1, terminal block
External I/O	Reset Button	Factory default
	LED	System status
Network	Ethernet	Ethernet(10/100Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	3.3 W (DC 12 V) 4.3 W (PoE)
Physical	Dimensions (WxHxD)	67 mm x 55 mm x 129.5 mm (2.64" x 2.17" x 5.10")
	Weight	400 g (0.88 lb)

ORDERING INFORMATION

Model Name	Description
ACM-5001	IP Box Camera

ACCESSORY OPTIONS

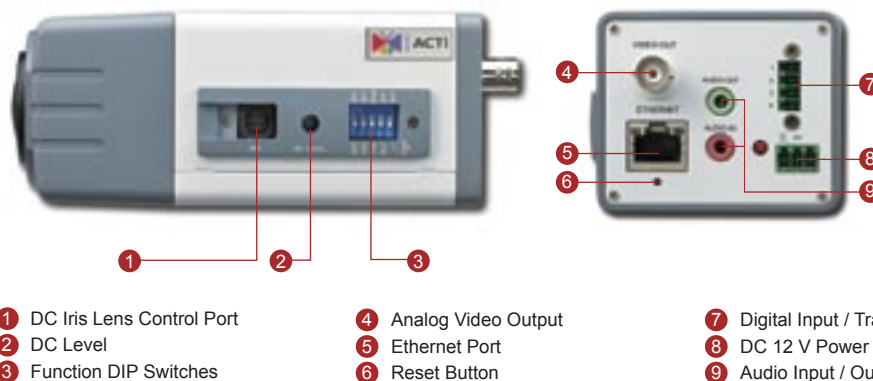
• Lens, f3.5~8mm F1.4 , CS mount, Format 1/3"	LEN-112
• Camera bracket	R695-00011-000
• Outdoor housing	R692-00001-000
• Housing bracket	R695-00004-000

ACM-5711

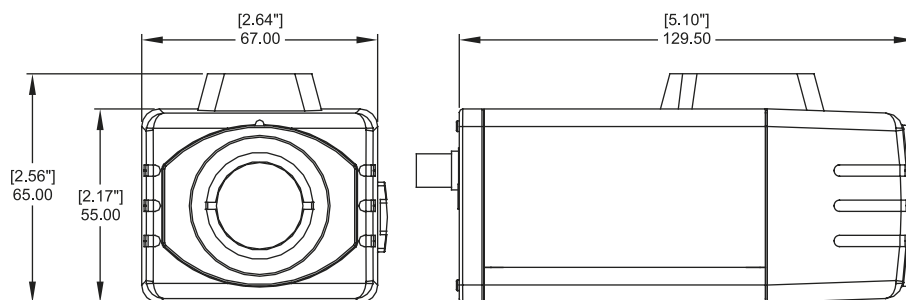
IP Camera with Day and Night



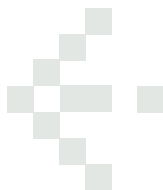
- 1/3" SuperHAD CCD
- Day and night function with Sense up technology
- 0.05 Lux at F1.0 (AES & Sense-Up ON)
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input / Transistor Output
- Hybrid analog and ethernet video output with 420 TV lines
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-5711
Image	Device	1/3" SuperHAD CCD
	Size	1/3 inch
	Effective Pixels	537 x 505 (NTSC); 537 x 597 (PAL)
	Horizontal Resolution	420 TVL
Min. scene Illumination	Color	0.05 Lux at F1.0 (AES & Sense-Up ON)
	B/W	N/A
	CDS Sensor	N/A
	IR Sensitivity	N/A
Lens	Lens Mount	C /CS (with adaptor)
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 windows)
	Electronic Shutter	1/60 ~ 1/120,000 sec. (NTSC); 1/50 ~ 1/120,000 sec. (PAL)
	BLC	Yes
	AGC	On /Off (switchable)
	White Balance	ATW /PWB (switchable)
	Auto Iris Control	DC Iris
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL); VGA (640x480 in NTSC, 640x480 in PAL); CIF (352x240 in NTSC, 352x288 in PAL); QCIF (176x120 in NTSC, 176x144 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)
Audio Input	Compression	8 kHz, Mono, PCM
Audio Output	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
	Compression	8 kHz, Mono, PCM
Alarm	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
	Digital Input	1, terminal block
External I/O	Transistor Output	1, terminal block
	Reset Button	Factory default
Network	LED	System status
	Ethernet	Ethernet(10/100Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
Operating	Security	Password protection: configured by the administrator
	Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	3.3 W (DC 12 V); 4.3 W (PoE)
Physical	Dimensions (WxHxD)	67 mm x 55 mm x 129.5 mm (2.64" x 2.17" x 5.10")
	Weight	400 g (0.88 lb)

ORDERING INFORMATION

Model Name	NTSC	PAL	D&N	DC 12V / PoE
ACM-5711N	V		V	V
ACM-5711P		V	V	V

ACCESSORY OPTIONS

- Lens, f5.0~55mm F1.4, CS mount, Format 1/3"
- Lens, f7.5~50mm F1.3, CS mount, Format 1/3"
- Housing bracket

LEN-107
LEN-109
R695-00004-000

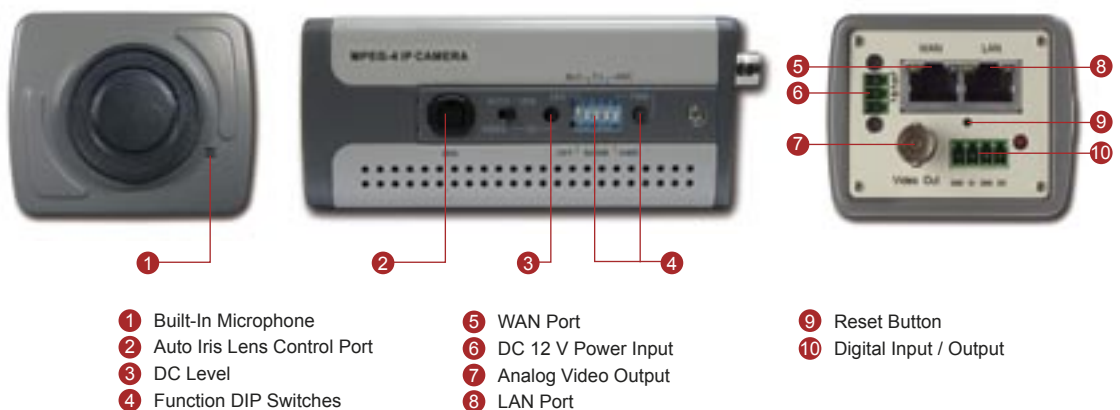
- Lens, f3.0~8.5mm F1.0, CS mount, Format 1/3"
- Camera bracket
- Outdoor housing

LEN-108
R695-00011-000
R692-00001-000

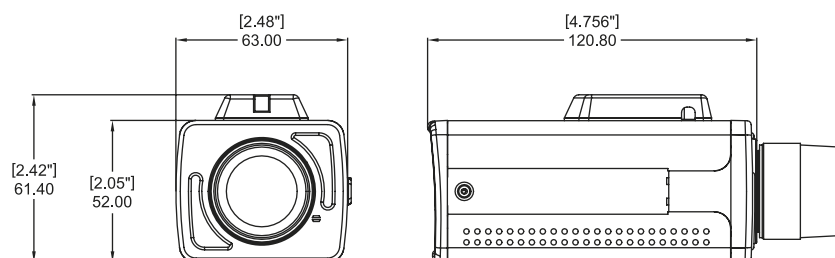
CAM-5201/CAM-5221



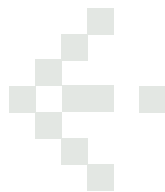
- 1/3" Sony SuperHAD / EXviewHAD CCD
- Day and night function with Mechanical IR Cut Filter (CAM-5221)
- 0.15 Lux (CAM-5201) / 0.05 Lux (CAM-5221) at F1.8
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- One-way audio supported
- Hardware motion detection, Digital Input/Output
- Fail-over network protection and QoS enabled (L3) video streaming
- Hybrid analog and ethernet video output with 480 TV lines
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



DIMENSION DIAGRAM



Unit: mm [inch]



CAM-5201/CAM-5221

PRODUCT SPECIFICATION

		CAM-5201	CAM-5221
Image	Device	SONY SuperHAD CCD	
	Size	1/3 inch	
	Effective Pixels (HxV)	811 x 508 (NTSC); 795 x 596 (PAL)	
	Horizontal Resolution	480 TVL	
Min. scene Illumination	Color	0.15 Lux at F1.2 (30 IRE, SAGC)	Color mode automatically switched to B/W mode under 4 Lux
	B/W	N/A	0.05 Lux at F1.2 (30 IRE, SAGC)
	IR Sensitivity	N/A	from 700 nm to 1100 nm
Lens	Lens Mount	C / CS (with adaptor)	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	N/A	Yes
Functions	Motion Detection	Yes (3 windows)	
	Electronic Shutter	AES On: 1/60 ~ 1/100,000 sec. (NTSC); AES Off: 1/60 sec. (NTSC); AES On: 1/50 ~ 1/100,000 sec. (PAL); AES Off: 1/50 sec. (PAL)	
	BLC	On / Off (switchable)	
	AGC	On / Off (switchable)	On / Off (switchable) Turning off AGC will 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 than 50 dB (AGC off)	
Video (Compression)	Compression	MPEG-4 ASP compliant	
	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)	
	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	Multi-stream	Up to 4 configurable frame rate/bit rate streams for preview and recording	
	Composite Output	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	
Audio Input	Compression	8 kHz, Mono, PCM	
	Built-in Microphone	Sensitivity : -44 \pm 5 dB (0 dB=1V/pa, 1 kHz); S/N Ratio : more than 58 dB; Directivity : omnidirectional	
Alarm	Input	1, TTL, terminal block	
	Output	1, TTL, 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, DNS, DDNS, NTP, ICMP, IGMP, ARP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTI SDK-10000	
	Security	Password Protection : configured by the administrator	
Operating	Temperature	5 $^{\circ}$ C ~ 50 $^{\circ}$ C (40 $^{\circ}$ F ~ 122 $^{\circ}$ F)	
Power	Power Requirement	PoE (IEEE802.3af) with Class 3 (CAM-5201)	PoE (IEEE802.3af) with Class 3 (CAM-5221)
	Power Consumption	6.84W (DC12V)	6.96W (DC12V)
		7.68W (PoE)	8.16W (PoE)
Physical	Dimensions (WxHxD)	63 mm x 52 mm x 120 mm (2.48" x 2.05" x 4.76")	
	Weight	450 g (0.99 lb)	

ORDERING INFORMATION

Part Number	NTSC	PAL	DC 12 V / PoE	D & N
CAM-5201HN	V		V	
CAM-5201HP		V	V	
CAM-5221HN	V		V	V
CAM-5221HP		V	V	V

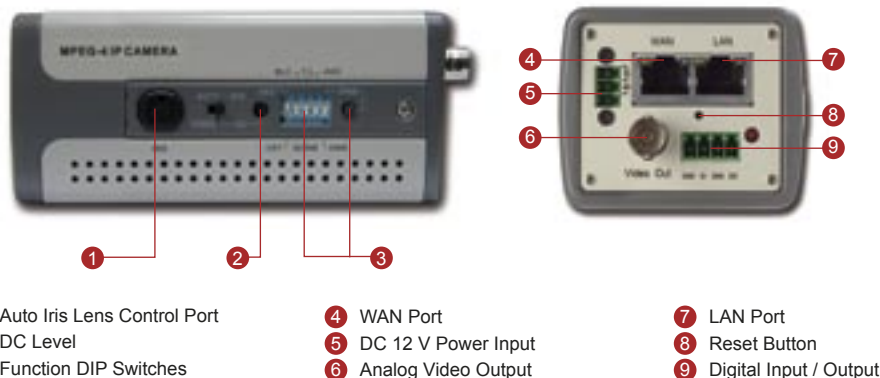
ACCESSORY OPTIONS

• Lens, f3.0~8mm F1.0, CS mount, Format 1/3" (For CAM-5201)	LEN-106	• Lens, f5.0~55mm F1.4, CS mount, Format 1/3" (For CAM-5201)	LEN-107
• Lens, f3.0~8.5mm F1.0, CS mount, Format 1/3" (For CAM-5221)	LEN-108	• Lens, f7.5~50mm F1.3, CS mount, Format 1/3" (For CAM-5221)	LEN-109
• Camera bracket	R695-00011-000	• Housing bracket	R695-00004-000
• Outdoor housing	R692-00001-000		

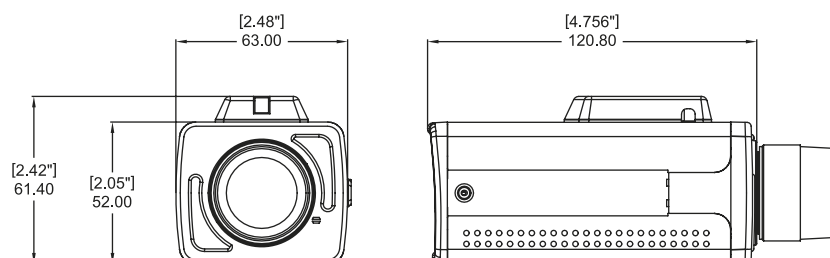
CAM-5301/CAM-5321



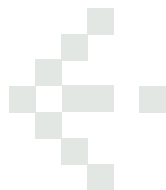
- 1/3" Sony SuperHAD / EXviewHAD CCD
- Day and night function with Mechanical IR Cut Filter (CAM-5321)
- 0.15 Lux (ACM-5301) / 0.05 Lux (ACM-5321) at F1.2
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Hardware motion detection, Digital Input/Output
- Fail-over network protection and QoS enabled (L3) video streaming
- Hybrid analog and ethernet video output with 480 TV lines
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



DIMENSION DIAGRAM



Unit: mm [inch]



CAM-5301/CAM-5321

PRODUCT SPECIFICATION

		CAM-5301	CAM-5321
Image	Device	SONY SuperHAD CCD	SONY EXviewHAD CCD
	Size	1/3 inch	
	Effective Pixels (HxV)	811 x 508 (NTSC); 795 x 596 (PAL)	
	Horizontal Resolution	480 TVL	
Min. scene Illumination	Color	0.15 Lux at F1.2 (30 IRE, SAGC)	Color mode automatically switched to B/W mode under 4 Lux
	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 (with adaptor)	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	N/A	Yes
Functions	Motion Detection	Yes (3 windows)	
	Electronic Shutter	AES On: 1/60 ~ 1/100,000 sec. (NTSC); AES Off: 1/60 sec. (NTSC); AES On: 1/50 ~ 1/100,000 sec. (PAL); AES Off: 1/50 sec. (PAL)	
	BLC	On / Off (switchable)	
	AGC	On / Off (switchable)	On / Off (switchable) Turning off AGC will 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 than 50 dB (AGC off)	
Video (Compression)	Compression	MPEG-4 ASP compliant	
	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)	
	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 Output	Composite Output	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	
Alarm	Input	1, TTL, terminal block	
	Output	1, TTL, 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, DNS, DDNS, NTP, ICMP, IGMP, ARP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
	Security	Password Protection : configured by the administrator	
Operating	Temperature	5°C~50°C (40°F~122°F)	
Power	Power Requirement	PoE (IEEE802.3af) with Class 3 (CAM-5301)	PoE (IEEE802.3af) with Class 3 (CAM-5321)
	Power Consumption	6.84W (DC12V)	6.96W (DC12V)
		7.68W (PoE)	8.16W (PoE)
Physical	Dimensions (WxHxD)	63 mm x 52 mm x 120 mm (2.48" x 2.05" x 4.76")	
	Weight	450 g (0.99 lb)	

ORDERING INFORMATION

Part Number	NTSC	PAL	DC 12 V / PoE	D & N
CAM-5301HN	V		V	
CAM-5301HP		V	V	
CAM-5321HN	V		V	V
CAM-5321HP		V	V	V

ACCESSORY OPTIONS

• Lens, f3.0~8mm F1.0, CS mount, Format 1/3" (For CAM-5301)	LEN-106	• Lens, f5.0~55mm F1.4, CS mount, Format 1/3" (For CAM-5301)	LEN-107
• Lens, f3.0~8.5mm F1.0, CS mount, Format 1/3" (For CAM-5321)	LEN-108	• Lens, f7.5~50mm F1.3, CS mount, Format 1/3" (For CAM-5321)	LEN-109
• Camera bracket	R695-00011-000	• Housing bracket	R695-00004-000
• Outdoor housing	R692-00001-000		

IP Bullet Camera



Model Name		ACM-1011	ACM-1311	ACM-1431	ACM-1432
Type		IP indoor D/N IR camera	IP indoor D/N IR camera	IP outdoor D/N IR camera	IP outdoor D/N IR camera
Image Sensor		1/3" Micron Progressive Scan CMOS	1/3" SuperHAD CCD	1/3" SuperHAD CCD	1/3" SuperHAD CCD
Day/Night		Yes	Yes	Yes	Yes
Mechanical IR Cut Filter		Yes	N/A	Yes	Yes
IR LED		Yes	Yes	Yes	Yes
Lens		Vari-focal, f=3.3 ~ 12 mm / F1.6 Fixed iris	Fixed lens, f=4.3 mm / F2.0 Fixed iris	Vari-focal, f=3.8 ~ 9.5 mm / F1.2 Auto iris	Vari-focal, f=3.8 ~ 9.5 mm / F1.2 Auto iris
Min. Illumination		0 Lux (IR LED ON)	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Compression		MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate		640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS (NTSC/PAL)		30 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution
Audio		2-way	2-way	2-way	2-way
Failover		N/A	N/A	N/A	N/A
Alarm Input/Output		N/A	N/A	N/A	N/A
Motion Detection		Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output		No	Yes	Yes	Yes
Multi-stream		Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol		TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks		10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Environmental Casing		N/A	N/A	IP66 weatherproof casing	IP66 weatherproof casing
Power Requirement	DC 12 V / PoE	Yes	Yes	Yes	N/A
	DC 12 V / AC 24 V	N/A	N/A	N/A	Yes

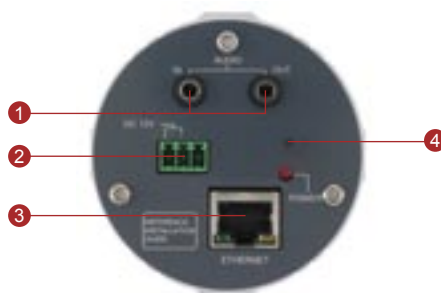
ACM-1011

Indoor IP IR Bullet Camera



* The bracket needs to be purchased separately.

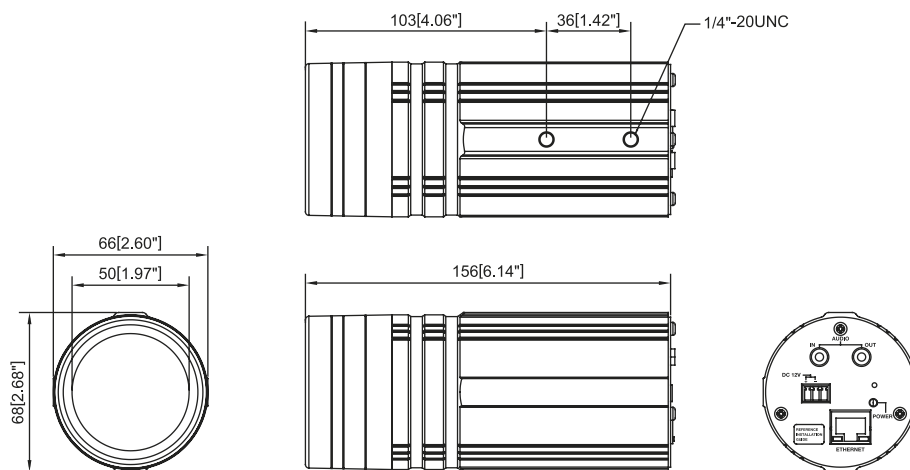
- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter
- Integrated f3.3 ~ 12 mm / F1.6 lens
- Selectable MPEG-4 / MJPEG compression
- VGA resolution at 30 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported



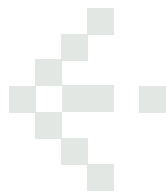
- ① Audio Input / Output
② DC 12 V Power Input

- ③ Ethernet Port
④ Reset Button

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-1011
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	640 x 480
Min. Scene Illumination	Color	Color mode automatically switched to B/W mode under 4 Lux
	B/W	0 Lux (IR LED ON)
	IR Sensitivity	from 700 nm to 1100 nm
	IR LED	IR LED x24 (850 nm)
	CDS Sensor	Yes
Lens	IR Working Distance	20 ~ 30 M (30 IRE)
	Lens	f3.3 ~ 12 mm / F1.6
Viewing Angle	Viewing Angle	89.8° ~ 23.9° (Horizontal)
	Synchronization	Internal
Day/Night Functions	Mechanical IR Cut Filter	Yes
	Motion Detection	Yes (3 Windows)
Functions	Electronic Shutter	1/5 ~ 1/2,000 sec. (60 Hz); 1/5 ~ 1/2,000 sec. (50 Hz)
	Flickerless	1/120 sec. (60 Hz); 1/100 sec. (50 Hz)
	BLC	Yes
	AGC	Automatic (user defined)
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL
S/N Ratio	S/N Ratio	Better than 44 dB
	Compression	MPEG-4 SP, MJPEG selectable
Video Compression	Picture Resolution	VGA (640x480) QVGA(320x240) QQVGA(160x112)
	Bit Rate	28 K ~ 3 M bps
	Image Frame Rate	30 fps at VGA resolution
	Compression	8kHz, Mono, PCM
Audio Input	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
	Compression	8kHz, Mono, PCM
Audio Output	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
	Reset Button	Factory default
External I/O	LED	System status
	Ethernet	Ethernet(10/100 Base-T), RJ-45 connector
Network	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
	Web Browser	Microsoft Internet Explorer 6.0 or above
Software	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	0 °C ~ 50 °C (32 ~ 122 °F)
	Power Requirement	PoE(IEEE802.3af) with class 3
Power	Power Consumption	6 W (DC 12 V) w/ IR ON 6.24 W (PoE) w/ IR ON
	Dimensions (WxHxD)	66 mm x 156 mm (2.6" x 6.14")
Physical	Weight	505 g (1.11 lb)

ORDERING INFORMATION

Model Name	Description
ACM-1011	Indoor IP IR Bullet Camera

ACCESSORY OPTIONS

- Camera bracket 69-GL220E-R0



69-GL220E-R0

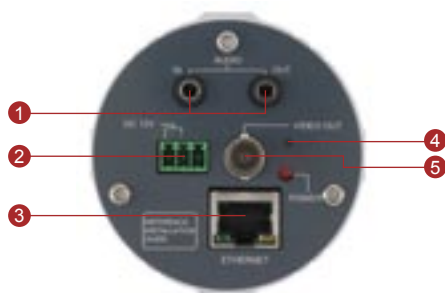
ACM-1311

Indoor CCD IP IR Bullet Camera



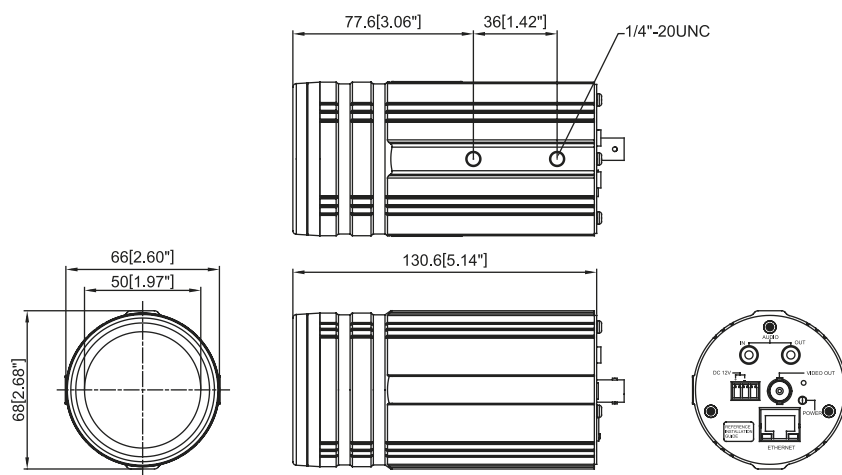
* The bracket needs to be purchased separately.

- 1/3" Sony SuperHAD CCD
- 0 Lux (IR LED ON)
- Backlight Compensation, Auto White Balance supported
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- Hybrid analog and ethernet video output with 420 TV lines
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported

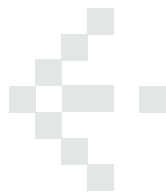


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|------------------------|-----------------------|
| ① Audio Input / Output | ④ Reset Button |
| ② DC 12 V Power Input | ⑤ Analog Video Output |
| ③ Ethernet Port | |

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-1311
Image	Device	SONY SuperHAD CCD
	Size	1/3 inch
	Effective Pixels	537 x 505 (NTSC); 537 x 597 (PAL)
	Horizontal Resolution	420 TVL
Min. Scene Illumination	Color	0 Lux (w/IR) IR LED ON at 4 Lux / Controlled by a CDS sensor
	IR Sensitivity	from 700 nm to 1100 nm
	IR LED	IR LED x24 (850 nm)
	CDS Sensor	Yes
Lens	IR Working Distance	10 ~ 15 M (30 IRE)
	Focal Length	f 4.3 mm / F 2.0
Synchronization	Viewing Angle	63° (Horizontal)
	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 windows)
	Electronic Shutter	1/60 ~ 1/100,000 sec. (NTSC) 1/50 ~ 1/100,000 sec. (PAL)
	BLC	Automatic
	AGC	Automatic
	White Balance	AWB
S/N Ratio	S/N Ratio	Better than 48 dB
	Compression	MPEG-4 SP, MJPEG Selectable
Video Compression	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) VGA (640x480 in NTSC, 640x480 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (176x120 in NTSC, 176x144 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 loading, BNC connector
Audio Input	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, 3.5 mm Phone Jack
External I/O	Reset Button	Factory default
	LED	System status
Network	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
Operating	Security	Password Protection: configured by the administrator
	Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3 (ACM-1311)
	Power Consumption	6.2 W (DC 12 V) w/ IR ON 7.4 W (PoE) w/ IR ON
Physical	Dimensions (øxH)	66 mm x 130.6 mm (2.6" x 5.14")
	Weight	460 g (1.01 lb)

ORDERING INFORMATION

Model Name	NTSC	PAL	DC 12 V / PoE
ACM-1311N	V		V
ACM-1311P		V	V

ACCESSORY OPTIONS

• Camera bracket

69-GL220E-R0



69-GL220E-R0

Outdoor IP IR Bullet Camera

ACM-1431/ACM-1432



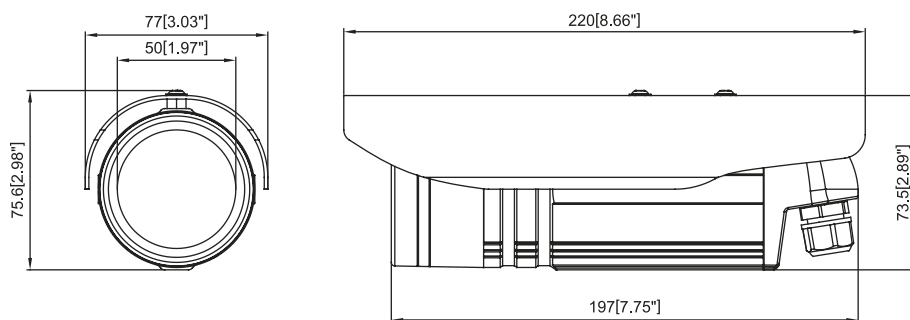
* The bracket needs to be purchased separately.

- 1/3" Sony SuperHAD CCD
- Day and night function with Mechanical IR Cut Filter
- Integrated 3.8 ~ 9.5 mm F1.2 varifocal lens
- 0 Lux (IR LED ON)
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- Hybrid analog and ethernet video output with 540 TV lines
- DC 12 V or Power Over Ethernet (IEEE 802.3af) supported
- IP66 weatherproof supported

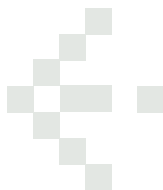


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|---------------------------------------|-----------------------|
| ① DC 12 V / AC 24 V Power Input | ④ Ethernet Port |
| ② Audio Input / Output & Video Output | ⑤ Power LED Indicator |
| ③ Reset Button | |

DIMENSION DIAGRAM



Unit: mm [inch]



ACM-1431/ACM-1432

PRODUCT SPECIFICATION

		ACM-1431	ACM-1432
Image	Device	SONY SuperHAD CCD	
	Size	1/3 inch	
	Effective Pixels (HxV)	811 x 508 (NTSC); 795 x 596 (PAL)	
	Horizontal Resolution	540 TVL	
Min. Scene Illumination	Color	Color mode automatically switch to B/W mode under 4 Lux	
	B/W	0 Lux (IR LED ON)	
	IR Sensitivity	from 700 nm to 1100 nm	
	IR LED	IR LED x15 (850 nm)	
	CDS Sensor	Yes	
	IR Working Distance	20 ~ 30 M (30 IRE)	
Lens	Focal Length	f3.8 ~ 9.5 mm / F1.2	
	Viewing Angle	74.2° ~ 30.0° (Horizontal)	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	Yes	
	Motion Detection	Yes (3 windows)	
Functions	Electronic Shutter	AES On: 1/60~1/100,000 sec. (NTSC); AES Off: 1/60 sec. (NTSC); AES On: 1/50~1/100,000 sec. (PAL); AES Off: 1/50 sec. (PAL)	
	BLC	ON/OFF (switchable)	
	AGC	ON/OFF (switchable)	
	White Balance	AWB	
	Flickerless	ON/OFF (switchable)	
	Auto Iris Control	DC Iris	
	S/N Ratio	Better than 50 dB	
Video Compression	Compression	MPEG-4 SP, MJPEG selectable	
	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) VGA (640x480 in NTSC, 640x480 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (176x120 in NTSC, 176x144 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	
Audio Input	Compression	8kHz, Mono, PCM	
	Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block	
Audio Output	Compression	8kHz, Mono, PCM	
	Audio Line Output	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block	
External I/O	Reset Button	Factory default	
	LED	System status	
Casing	IP66 Rated	Weatherproof casing with IP66 standard	
Network	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector	
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
Operating	Security	Password protection: configured by the administrator	
	Temperature	-20 °C ~ 40 °C (-4 °F ~ 104 °F)	
Power	Power Requirement	PoE (IEEE802.3af) with Class 3	AC 24 V ±10%
	Power Consumption	7.1 W (DC12V) w/ IR ON 8.4 W (PoE) w/ IR ON	7.1 W (DC12V) w/ IR ON 13.5 VA (AC24V) w/ IR ON
Physical	Dimensions (WxHxD)	77mm x 75.6mm x 220mm (3.03" x 2.98" x 8.66")	
	Weight	685 g (1.51 lb), with sunshield	

ORDERING INFORMATION

Model Name	NTSC	PAL	DC 12 V / PoE	DC 12 V / AC 24 V
ACM-1431N	V		V	
ACM-1431P		V	V	
ACM-1432N	V			V
ACM-1432P		V		V

ACCESSORY OPTIONS

- Camera bracket

R695-00004-001

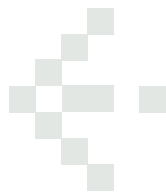


R695-00004-001

IP Fixed Dome Camera



Model Name	ACM-3001	ACM-3011	ACM-3211	ACM-3311
Type	IP indoor dome	IP indoor D/N IR dome	IP indoor D/N IR dome	IP indoor D/N IR dome
Image Sensor	1/3" Micron Progressive Scan CMOS	1/3" Micron Progressive Scan CMOS	1/3" SuperHAD CCD	1/3" SuperHAD CCD
Day/Night	N/A	Yes	Yes	Yes
Mechanical IR Cut Filter	N/A	Yes	N/A	N/A
IR LED	N/A	Yes	Yes	Yes
Lens	Fixed lens, f= 4.2mm/F1.8 Fixed iris	Vari-focal f3.3 ~ 12mm/F1.6 Fixed iris	Fixed lens, f=4.3 mm/F2.0 Fixed iris	Fixed lens, f=4.3 mm/F2.0 Fixed iris
Min. Illumination	0.5 Lux at F1.0	0 Lux (IR LED ON)	0 Lux (IR LED ON)	0 Lux (IR LED ON)
Compression	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate	640 x 480 at 30 fps	640 x 480 at 30 fps	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS (NTSC/PAL)	30 fps at all resolution	30 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution
Audio	2-way	2-way	2-way	2-way
Failover	N/A	N/A	N/A	N/A
Alarm Input/Output	N/A	N/A	N/A	N/A
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	N/A	N/A	N/A	Yes
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Camera Angle Adjustment	X (Panning): 0° ~ 170° Y (Tilting): 0° ~ 90°	X (Panning): 0° ~ 170° Y (Tilting): 0° ~ 90°	X (Panning): 0° ~ 360° Y (Tilting): 0° ~ 180° Z (Rotating): 0° ~ 360°	X (Panning): 0° ~ 170° Y (Tilting): 0° ~ 90°
Mounting Options	Surface/Wall	Surface/Wall	Surface/Wall	Surface/Wall
Power Requirement	DC 12 V / PoE	Yes	Yes	Yes
	DC 12 V / AC 24 V	N/A	N/A	N/A



IP Fixed Dome Camera



Model Name	CAM-7301	CAM-7321	CAM-7322
Type	IP outdoor fixed dome	IP outdoor D/N fixed dome	IP outdoor D/N fixed dome
Image Sensor	1/3" SuperHAD CCD	1/3" EXviewHAD CCD	1/3" EXviewHAD CCD
Day/Night	N/A	Yes	Yes
Mechanical IR Cut Filter	N/A	N/A	N/A
IR LED	N/A	N/A	N/A
Lens	Vari-focal, f=2.9 ~ 10 mm/F1.2 Auto iris	Vari-focal, f=2.9 ~ 10 mm/F1.2 Auto iris	Vari-focal, f=2.9 ~ 10 mm/F1.2 Auto iris
Min. Illumination	0.15 Lux at F1.2	0.05 Lux at F1.2	0.05 Lux at F1.2
Compression	MPEG-4 ASP	MPEG-4 ASP	MPEG-4 ASP
Max. Video Resolution vs Frame Rate	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)
FPS (NTSC/PAL)	30/25 fps at all resolution	30/25 fps at all resolution	30/25 fps at all resolution
Audio	2-way	2-way	2-way
Failover	Yes	Yes	Yes
Alarm Input/Output	1/1	1/1	1/1
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)
Analog Video Output	Yes	Yes	Yes
Multi-stream	Up to 4 configurable frame rate/ bit rate streams for preview and recording	Up to 4 configurable frame rate/ bit rate streams for preview and recording	Up to 4 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE
Ethernet Networks	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN
Camera Angle Adjustment	X (Panning): 0° ~ 300° Y (Tilting): 0° ~ 90°	X (Panning): 0° ~ 300° Y (Tilting): 0° ~ 90°	X (Panning): 0° ~ 300° Y (Tilting): 0° ~ 90°
Mounting Options	Flush*/Surface/Wall	Flush*/Surface/Wall	Flush*/Surface/Wall
Power Requirement	DC 12 V / PoE	Yes	N/A
	DC 12 V / AC 24 V	N/A	Yes

* Outdoor application requires weatherproof housing.

ACM-3001

IP Fixed Dome Camera



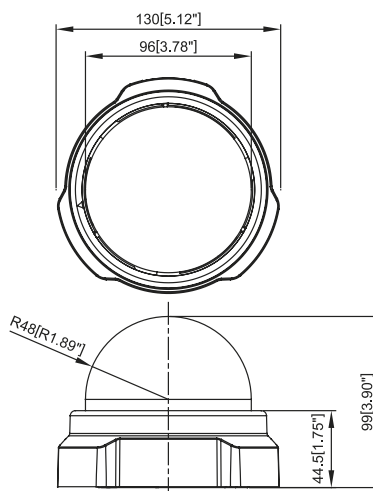
- 1/3" Micron Progressive Scan CMOS
- Integrated f4.2mm / F1.8 lens
- 0.5 Lux at F1.8
- Selectable MPEG-4 / MJPEG compression
- VGA resolution at 30 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported
- Surface and wall mount supported



1 Audio Input / Output
2 Reset Button

3 DC 12 V Power Input
4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-3001
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	640 x 480
Min. Scene Illumination	Color	0.5 Lux at F1.0 (2400 °K, 30 IRE)
	B/W	N/A
	IR Sensitivity	N/A
	CDS Sensor	N/A
Lens	Lens	f4.2 mm / F1.8
	Viewing Angle	75° (Horizontal)
Camera Angel Adjustment	X (Panning)	0° ~170°
	Y (Tilting)	0° ~90°
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 Windows)
	Electronic Shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)
	BLC	Yes
	AGC	Automatic (User defined)
	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL
S/N Ratio	S/N Ratio	Better than 44 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	VGA (640x480) QVGA(320x240) QQVGA(160x112)
	Bit Rate	28K ~ 3M bps
	Image Frame Rate	30 fps at VGA resolution
Audio Input	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
External I/O	Reset Button	Factory default
Casing	Mount Types	Surface / Wall (option)
	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector
Network	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
	Web Browser	Microsoft Internet Explorer 6.0 or above
Software	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	3.3 W (DC 12 V); 4.3 W (PoE)
Physical	Dimensions (ØxL)	130 mm x 99 mm (5.12" x 3.90")
	Weight	350 g (0.7 lb)

ORDERING INFORMATION

Model Name	Description
ACM-3001	IP Fixed Dome Camera

ACCESSORY OPTIONS

- Wall mount kit MTB-201-R0



MTB-201-R0

ACM-3011

Megapixel IP Fixed Dome Camera with Vari-focal Lens



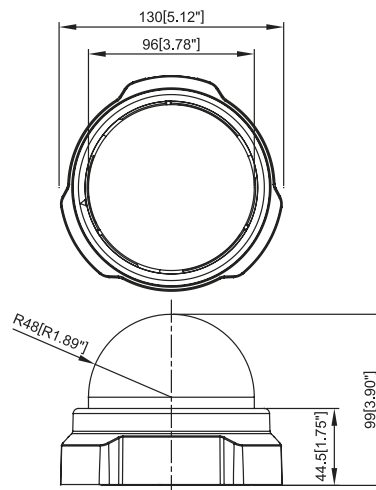
- 1/3" Micron Progressive Scan CMOS
- Day and night function with Mechanical IR Cut Filter
- Integrated f3.3~12 mm / F1.6 lens
- 0 Lux (IR LED ON)
- Selectable MPEG-4 / MJPEG compression
- VGA resolution at 30 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- DC 12 V or Power over Ethernet (IEEE 802.3af) supported
- Surface and wall mount supported



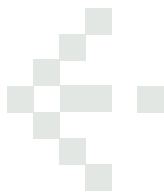
- 1 Audio Input / Output
2 Reset Button

- 3 DC 12 V Power Input
4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-3011
Image	Device	Micron Progressive Scan CMOS
	Size	1/3 inch
	Effective Pixels	640 x 480
Min. scene Illumination	Color	Color mode automatically switched to B/W mode under 4 Lux
	B/W	0 Lux (IR LED ON)
	IR Sensitivity	from 700 nm to 1100 nm
	IR LED	IR LED x24 (850 nm)
	CDS Sensor	Yes
Lens	IR Working Distance	10 ~ 20 M (30 IRE)
	Lens	f3.3 ~ 12 mm / F1.6
	Viewing Angle	89.8° ~ 13.9° (Horizontal)
Camera Angel Adjustmeny	X (Panning)	0° ~330°
	Y (Tilting)	30° ~90°
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	Yes
Functions	Motion Detection	Yes (3 Windows)
	Electronic shutter	1/5 ~ 1/2,000 sec. (60Hz); 1/5 ~ 1/2,000 sec. (50Hz)
	Flickerless	1/120 sec. (60Hz); 1/100 sec. (50Hz)
	BLC	Yes
	AGC	Automatic (User defined)
S/N Ratio	White Balance	AUTO, INDOOR1, INDOOR2, OUTDOOR1, OUTDOOR2, HOLD CURRENT, MANUAL
Video Compression	S/N Ratio	Better than 44 dB
	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	VGA (640x480); QVGA (320x240); QQVGA (160 x 112)
	Bit Rate	28 K ~ 3 M bps
Audio Input	Image Frame Rate	30 fps at VGA resolution
	Compression	8kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Audio Output	Compression	8kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
External I/O	Reset Button	Factory default
Casing	Mount Tpyes	Surface / Wall (option)
Network	Ethernet	Ethernet (10/100 Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ActiveX control, C SDK
	Security	Password protection: configured by the administrator
Operating	Temperature	-10 °C ~ 45 °C (14 °F ~ 112 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	5.0W (DC 12 V); 6.8W (PoE)
Physical	Dimensions (ØxL)	130 mm x 99 mm (5.12" x 3.90")
	Weight	380 g (0.84 lb)

ORDERING INFORMATION

Model Name	Description
ACM-3011	IP Indoor D/N IR Fixed Dome

ACCESSORY OPTIONS

- Wall mount kit MTB-201-R0



MTB-201-R0

ACM-3211

IP IR Eyeball Dome Camera



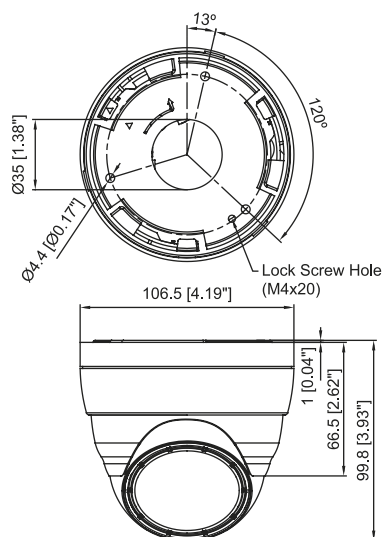
- 1/3" Sony SuperHAD CCD
- Integrated f4.3 mm / F2.0 Lens
- 0 Lux (IR LED ON)
- Backlight Compensation, Auto White Balance supported
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- Power over Ethernet (IEEE 802.3af) supported
- Free rotating ball joint mechanical design allows coverage of all angles
- Surface and wall mount supported



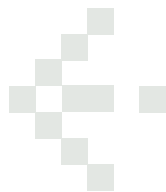
- 1 Audio Input / Output
2 Reset Button

- 3 DC 12 V Power Input
4 Ethernet Port

DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-3211
Image	Device	SONY SuperHAD CCD
	Size	1/3 inch
	Effective Pixels	537 x 505 (NTSC); 537 x 597 (PAL)
	Horizontal Resolution	420 TVL
Min. Scene Illumination	Color	0 Lux (w/IR) IR LED ON at 4 Lux / Controlled by a CDS sensor
	IR Sensitivity	from 700 nm to 1100 nm
	IR LED	IR LED x24 (850 nm)
	CDS Sensor	Yes
Lens	IR Working Distance	10 ~ 15 M (30 IRE)
	Focal Length	f4.3 mm / F2.0
	Viewing Angle	63° (Horizontal)
Camera Angle Adjustment	X (Panning)	0° ~ 360°
	Y (Tilting)	0° ~ 180°
	Z (Rotating)	0° ~ 360°
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 windows)
	Electronic shutter	1/60 ~ 1/100,000 sec. (NTSC) 1/50 ~ 1/100,000 sec. (PAL)
	BLC	Automatic
	AGC	Automatic
	White Balance	AWB
S/N Ratio	S/N Ratio	Better than 48 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) VGA (640x480 in NTSC, 640x480 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (176x120 in NTSC, 176x144 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)
	Audio Input	8 kHz, Mono, PCM
Audio Output	Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block
	Audio Line Output	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block
Casing	Mount Types	Surface / Wall (option)
External I/O	Reset Button	Factory default
Network	Ethernet	Ethernet (10/100Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
Operating	Security	Password protection: configured by the administrator
Power	Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	5.7 W (DC 12 V) w/ IR ON 7.0 W (PoE) w/ IR ON
Physical	Dimensions (ø x L)	106.5 mm X 99.8 mm (4.19" x 3.93")
	Weight	320 g (0.7 lb)

ORDERING INFORMATION

Model Name	NTSC	PAL	DC 12 V / PoE
ACM-3211N	V		V
ACM-3211P		V	V

ACCESSORY OPTIONS

• Wall mount kit

MTB-201-R0



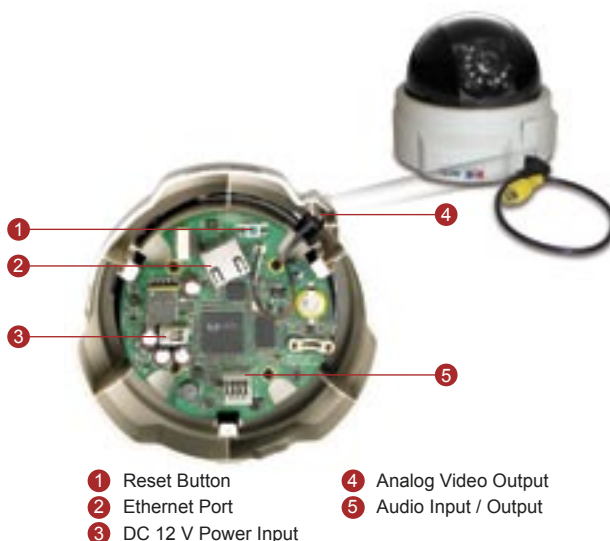
MTB-201-R0

ACM-3311

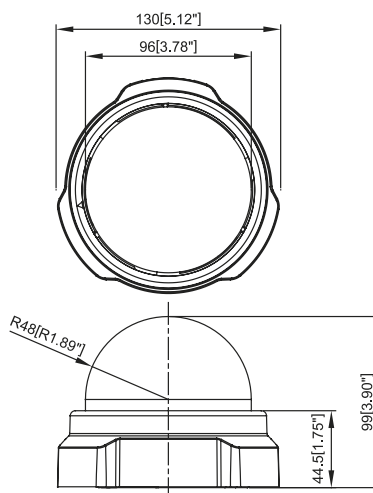
IP IR 3-inch Dome Camera



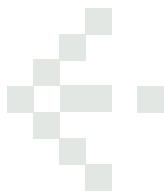
- 1/3" Sony SuperHAD CCD
- Integrated f4.3 mm / F2.0 Lens
- 0 Lux (IR LED ON)
- Backlight Compensation, Auto White Balance supported
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection
- Hybrid analog and ethernet video output with 420 TV lines
- Power over Ethernet (IEEE 802.3af) supported
- Surface and wall mount supported



DIMENSION DIAGRAM



Unit: mm [inch]



PRODUCT SPECIFICATION

		ACM-3311
Image	Device	SONY SuperHAD CCD
	Size	1/3 inch
	Effective Pixels	537 x 505 (NTSC); 537 x 597 (PAL)
	Horizontal Resolution	420 TVL
Min. Scene Illumination	Color	0 Lux (w/IR) IR LED ON at 4 Lux / Controlled by a CDS sensor
	IR Sensitivity	from 700 nm to 1100 nm
	IR LED	IR LED x12 (850 nm)
	CDS Sensor	Yes
	IR Working Distance	10 M (30 IRE)
Lens	Focal Length	f 4.3 mm / F 2.0
	Viewing Angle	63° (Horizontal)
Camera Angle Adjustment	X (Panning)	0° ~ 170°
	Y (Tilting)	0° ~ 90°
Synchronization	Sync. System	Internal
Day/Night Functions	Mechanical IR Cut Filter	N/A
Functions	Motion Detection	Yes (3 windows)
	Electronic shutter	1/60 ~ 1/100,000 sec. (NTSC) 1/50 ~ 1/100,000 sec. (PAL)
	BLC	Automatic
	AGC	Automatic
	White Balance	AWB
S/N Ratio	S/N Ratio	Better than 48 dB
Video Compression	Compression	MPEG-4 SP, MJPEG selectable
	Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) VGA (640x480 in NTSC, 640x480 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (176x120 in NTSC, 176x144 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 75Ω loading, 3.5 mm Phone Jack
Audio Input	Compression	8 kHz, Mono, PCM
	Audio Line Input	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Audio Output	Compression	8 kHz, Mono, PCM
	Audio Line Output	Unbalanced, 1.4Vp-p, 1Vrms, terminal block
External I/O	Reset Button	Factory default
Casing	Mount Types	Surface / Wall (option)
Network	Ethernet	Ethernet(10/100Base-T), RJ-45 connector
	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP,3GPP
Software	Web Browser	Microsoft Internet Explorer 6.0 or above
	SDK	ACTi SDK-10000
	Security	Password protection: configured by the administrator
Operating	Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
Power	Power Requirement	PoE (IEEE802.3af) with Class 3
	Power Consumption	5.6 W (DC 12 V) w/ IR ON 6.9 W (PoE) w/ IR ON
Physical	Dimensions (øxL)	130 mm X 99 mm (5.12" x 3.90")
	Weight	350 g (0.7 lb)

ORDERING INFORMATION

Model Name	NTSC	PAL	DC 12 V / PoE
ACM-3311N	V		V
ACM-3311P		V	V

ACCESSORY OPTIONS

• Wall mount kit

MTB-201-R0



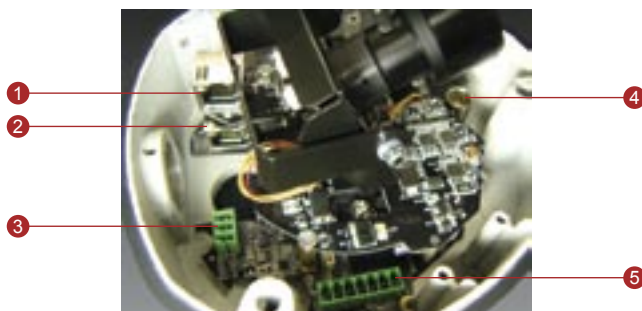
MTB-201-R0

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

CAM-7300 Series

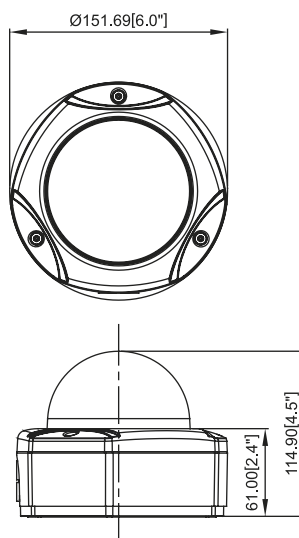


- 1/3" Sony SuperHAD / EXviewHAD CCD
- 0.15 Lux (CAM-7301) / 0.05 Lux (CAM-7321/7322) at F1.2
- Backlight Compensation, Auto Iris Control, Auto White Balance supported
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported
- Hardware motion detection, Digital Input/Output
- Hybrid analog and ethernet video output with 540 TV lines
- Power over Ethernet (IEEE 802.3af) supported, or AC 24 V power source supported
- Heavy-duty, weatherproof and vandal proof with IP66 protection

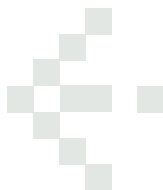


- | | |
|---------------------------------|----------------------------------|
| ① LAN Port | ④ Analog Video Output |
| ② WAN Port | ⑤ Audio & Digital Input / Output |
| ③ DC 12 V / AC 24 V Power Input | |

DIMENSION DIAGRAM



Unit: mm [inch]



CAM-7300 Series

PRODUCT SPECIFICATION

		CAM-7301	CAM-7321 / CAM-7322
Image	Device	SONY SuperHAD CCD	SONY EXviewHAD CCD
	Size	1/3 inch	
	Effective Pixels (HxV)	811 x 508 (NTSC); 795 x 596 (PAL)	
	Horizontal Resolution	540 TVL	
	Multi-stream	Up to 4 configurable frame rate/bit rate streams for preview and recording	
Min. Scene Illumination	Color	0.15 Lux at F1.2 (30IRE, SAGC)	Color mode automatically switched to B/W mode under 4 Lux
	B/W	N/A	0.05 Lux at F1.2 (30IRE, SAGC ON)
	IR Sensitivity	N/A	
Lens	Focal Length	2.9 ~ 10 mm	
	Viewing Angel	74.2° ~ 30.0° (Horizontal)	
Camera Angle Adjustment	X (Panning)	0° ~ 300°	
	Y (Tilting)	0° ~ 90° (The adjustable angle of vision 0° ~ 77°)	
Synchronization	Sync. System	Internal	
Day/Night Functions	Mechanical IR Cut Filter	N/A	
Functions	Motion Detection	Yes (3 windows)	
	Electronic Shutter	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)	
	BLC	On / Off (switchable)	
	AGC	On / Off (switchable)	
	White Balance	AWB	
	Flickless	On/Off (switchable)	
	Auto Iris Control	DC Iris	
S/N Ratio	S/N Ratio	Better than 50 dB (AGC off)	
Video (Compression)	Compression	MPEG-4 ASP compliant	
	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 ~ 3M bps	
Video Output	Image Frame Rate	30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL)	
	Composite Output	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	
Audio Input	Compression	8kHz, Mono, PCM	
	Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block	
Audio Output	Compression	8kHz, Mono, PCM	
	Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, terminal block	
Alarm	Input	1, TTL, terminal block	
	Output	1, TTL, terminal block	
External I/O	Reset Button	Factory default	
Casing	IP66 Rated	Weatherproof casing with IP66 standard	
	Vandal Proof	Vandal proof supports, durability up to 619.3 KgF	
	Mount Types	Surface / Flush / Wall	
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, DNS, DDNS, NTP, ICMP, IGMP, ARP	
Software	Web Browser	Microsoft Internet Explorer 6.0 or above	
	SDK	ACTi SDK-10000	
	Security	Password Protection : Configured by the administrator	
Operating	Heater / Fan	Yes (built-in) (CAM-7321)	
	Temperature	-30 °C ~ 50 °C (-22 °F ~ 122 °F) for DC 12 V / AC 24 V; -5 °C ~ 50 °C (7 °F ~ 122 °F) for PoE	
Power	Power Requirement	PoE (IEEE802.3af) with Class 3 (CAM-7301)	PoE (IEEE802.3af) with Class 3 (CAM-7321) AC 24 V ±10% (CAM-7322)
	Power Consumption	7.7 W (DC 12 V) w/o Heater & Fan 14.9 W (DC 12 V) w/ Heater ON & Fan ON * 9.0 W (PoE) w/o Heater & Fan	7.7 W (DC 12 V) w/o Heater & Fan (CAM-7321 / CAM-7322) 14.9 W (DC 12 V) w/ Heater ON & Fan ON (CAM-7321 / CAM-7322) * 9.0 W (PoE) w/o Heater & Fan (CAM-7321) 11.2 W (AC24V) w/o Heater & Fan (CAM-7322) 21.4 W (AC 24 V) w/ Heater ON & Fan ON (CAM-7322)
Physical	Dimensions (ØxH)	151.69 mm x 114.9 mm (6.0" x 4.5")	
	Weight	1,145 g (2.5lb)	

* PoE cannot support Heater and Fan.

ORDERING INFORMATION

Model Name	NTSC	PAL	D&N	DC 12 V / PoE	DC 12 V / AC 24 V
CAM-7301N	V			V	
CAM-7301P		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 R695-00019-001
- Flush mount kit R695-00020-000



R695-00019-001



R695-00020-000

Video Server



Model Name	ACD-2000Q	ACD-2100	ACD-2200	ACD-2300
Channel	4	1	4	8
Compression	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable	MPEG-4, MJPEG selectable
Max. Video Resolution vs Frame Rate	<ul style="list-style-type: none"> Quad Mode: 30 fps at full D1 (720x480 in NTSC) 25 fps at full D1 (720x576 in PAL) Sequential Mode (per channel): 30 fps at full D1 (720x480 in NTSC) 25 fps at full D1 (720x576 in PAL) Single Mode (per channel): 7 fps at full D1 (720x480 in NTSC, 720x576 in PAL) 15 fps at CIF (352x240 in NTSC, 352x288 in PAL) 	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL) (per channel)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL) (per channel)
FPS (NTSC/PAL)	30/25 fps under Quad/Sequential Mode	30/25 fps at all resolution	30/25 fps at all resolution (per channel)	30/25 fps at all resolution (per channel)
Video Input	Composite x 4	Composite x1	Composite x4	Composite x8
Video Output	N/A	Composite x1	N/A	N/A
Audio	2-way	2-way	2-way (per channel)	2-way (per channel)
Alarm Input/Output	2/2	2/2	2/2 (per channel)	2/2 (per channel)
PTZ*	Yes	Yes	Yes	Yes
Serial Ports	RS-485/422/232	RS-485/422/232	RS-485/422/232** (per channel)	RS-485/422/232** (per channel)
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Failover	N/A	N/A	N/A	N/A
Multi-stream	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording	Up to 2 configurable frame rate/ bit rate streams for preview and recording
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE, 3GPP	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE
Ethernet Networks	10/100 Base-T x 1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Rack Solution	N/A	RMK-2000 / RMK-3000 (Optional)	RMK-2000 / RMK-3000 (Optional)	Yes
Power Requirement	DC 12 V	Yes (ACD-2100/ACD-2100T)	Yes	N/A
	AC 110~240 V	N/A	N/A	Yes
Extended Temperature (-30° C ~ 70° C)	N/A	Yes (ACD-2100T)	N/A	N/A

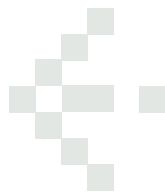
* Requires additional third-party PTZ device.

**RS-232 can be adjusted by inside jumper.

Video Decoder



Model Name	ACD-3100
Channel	1
Decompression	MPEG-4 ASP
FPS (NTSC/PAL)	30/25 at all resolution
Max. Video Resolution	720 x 480 (NTSC) 720 x 576 (PAL)
Video output	composite x1; Y/C x1
Audio	2-way



Video Server



Model Name	ACD-2400	SED-2120	SED-2140	SED-2610
Channel	16	1	1	8
Compression	MPEG-4, MJPEG selectable	MPEG-4 ASP	MPEG-4 ASP	MPEG-4 ASP
Max. Video Resolution vs Frame Rate	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL) (per channel)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL)	720 x 480 at 30 fps (NTSC) 720 x 576 at 25 fps (PAL) (per channel)
FPS (NTSC/PAL)	30/25 at all resolution (per channel)	30/25 at all resolution	30/25 at all resolution	30/25 at all resolution (per channel)
Video Input	Composite x16	Composite x1	Composite x1	Composite x8
Video Output	N/A	Composite x1	Composite x1	N/A
Audio	2-way (per channel)	N/A	2-way	2-way (per channel)
Alarm Input/Output	2/2 (per channel)	2/2	2/2	2/2 (per channel)
PTZ*	Yes	Yes	Yes	Yes
Serial Ports	RS-485/422/232** (per channel)	RS-485/422/232	RS-485/422/232	RS-485/422/232** (per channel)
Motion Detection	Yes (hardware)	Yes (hardware)	Yes (hardware)	Yes (hardware)
Failover	N/A	Yes	Yes	N/A
Multi-stream	Up to 2 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
Network Protocol	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE	TCP, UDP, RTP, RTSP, PPPoE
Ethernet Networks	10/100 Base-T x1 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x2 for LAN/WAN	10/100 Base-T x1 for LAN/WAN
Rack Solution	Yes	RMK-2000 / RMK-3000 (Optional)	RMK-2000 / RMK-3000 (Optional)	Yes
Power Requirement	DC 12 V	N/A	Yes (SED-2140/SED-2140T)	N/A
	AC 110~240 V	Yes	N/A	Yes
Extended Temperature (-30° C ~ 70° C)	N/A	N/A	Yes(SED-2140T)	N/A

* Requires additional third-party PTZ device.

**RS-232 can be adjusted by inside jumper.

Video Decoder

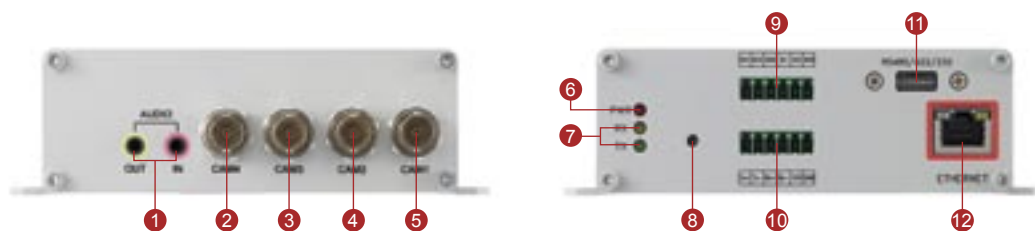
Model Name	ACD-3100
Serial Ports	RS-485/422/232
Alarm Input/Output	2/2
Protocol	TCP, UDP, RTP, RTSP
Ethernet Networks	10/100 Base-T x1 for LAN/WAN
Rack Solution	RMK-2000 / RMK-3000
Power Requirement	DC 12 V
	Yes

Four-channel MPEG-4 Quad Processor Integrated Video Server with Two Way Audio

ACD-2000Q

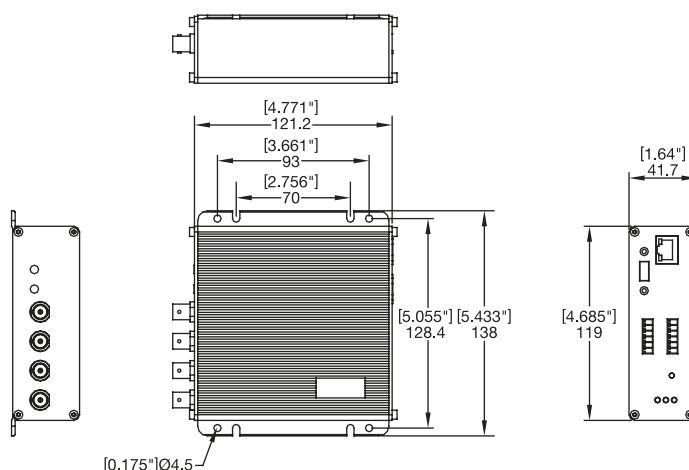


- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two way audio supported
- Hardware motion detection, Digital Input / Output
- Optional rackmount kit available
- Real-time quad video
- Full-screen or quad image display
- Up to 4 analog video inputs blended into one digital MPEG-4 output stream

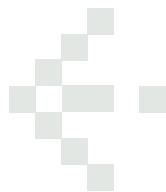


- | | | | |
|-------------------------|-------------------------|-----------------------------|-----------------------------------|
| ① Audio Input / Output | ④ CAM2 - Analog Input 2 | ⑥ Power LED | ⑩ Serial Port & DC12V Power Input |
| ② CAM4 - Analog Input 4 | ⑤ CAM1 - Analog Input 1 | ⑦ Serial Port LED Indicator | ⑪ Serial Port Setting |
| ③ CAM3 - Analog Input 3 | | ⑧ Reset Button | ⑫ Ethernet Port |
| | | ⑨ Digital Input / Output | |

DIMENSION DIAGRAM



Unit: mm [inch]




**PRODUCT SPECIFICATION**

Video Compression		Alarm	
Compression	MPEG-4 SP, MJPEG selectable	Input	2, TTL, terminal block
Picture Resolution	<ul style="list-style-type: none">• Quad Mode : Full D1 (720x480 in NTSC, 720x576 in PAL)• Sequential Mode (per channel) : Full D1 (720x480 in NTSC, 720x576 in PAL)• Single Mode (per channel) : Full D1 (720x480 in NTSC, 720x576 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL)	Output	2, TTL, terminal block
Bit Rate	28K ~ 3M bps	Remote Control	
Image Frame Rate	<ul style="list-style-type: none">• Quad Mode : 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL)• Sequential Mode : 30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL)• Single Mode : 7 fps at full D1 resolution (NTSC / PAL) 15 fps at CIF resolution (NTSC) 12 fps at CIF resolution (PAL)	Serial Port	RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232: full duplex, terminal block
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	External I/O	
Video Input		Reset Button	Factory default
Composite Input	4, CVBS, 1.0Vp-p with 75Ω loading, BNC connector	LED	Power / serial port / network status
Audio Input		Network	
Compression	8 kHz, Mono, PCM	Ethernet Port	Ethernet (10/100 Base-T), RJ-45 connector
Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP
Audio Output		Software	
Compression	8 kHz, Mono, PCM	Web Browser	Microsoft Internet Explorer 6.0 or above
Audio Line Output	Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack	SDK	ACTi SDK-10000
		Security	Password protection: configured by the administrator
		Operating	
		Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)
		Power	
		Power Requirement	DC 12 V ± 10%
		Power Consumption	5.0 W
		Physical	
		Dimensions	119 x 41.7 x 122 mm (4.69" x 1.65" x 4.81")
		Weight-Net	430 g (0.95 lb)

ORDERING INFORMATION

Model Name	Description
ACD-2000Q	Four-channel MPEG-4 Quad Processor Integrated Video Server with Two Way Audio

DISPLAY MODES

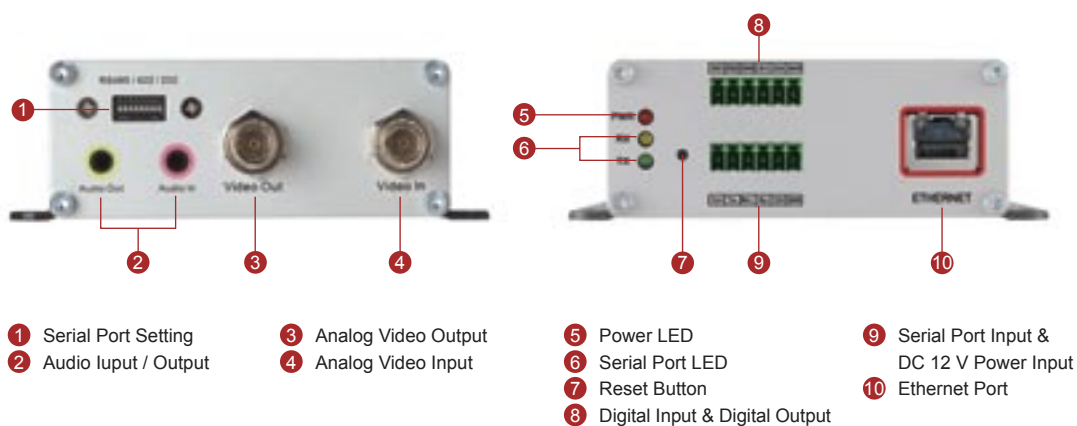
Display Mode	Content	Frame Rate	Resolution	Video Stream
Quad		30/25 FPS (NTSC/PAL)	D1 only	1 stream, quad view
Sequential		30/25 FPS (NTSC/PAL)	D1 only	1 stream at a time
Single		7 FPS	D1	4 independent streams
		15/12 FPS (NTSC/PAL)	CIF	4 independent streams

ACD-2100

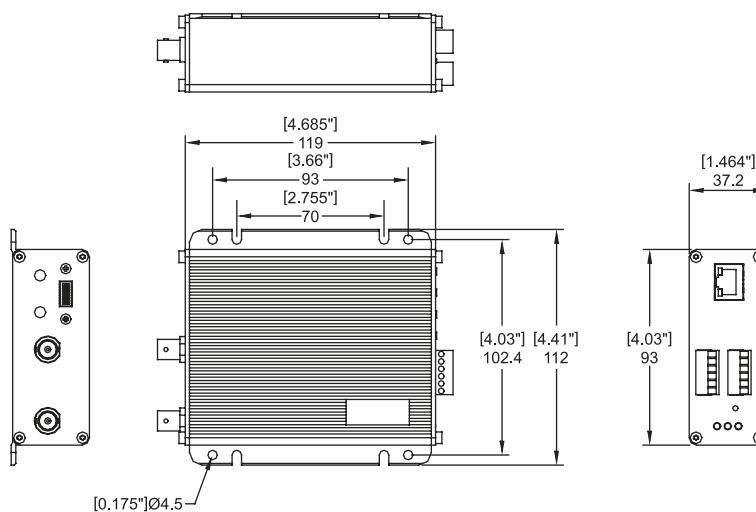
One-channel Entry-level Video Server with Two Way Audio



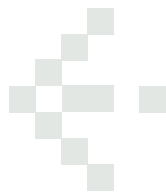
- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two way audio supported
- Hardware motion detection
- Hybrid analog and ethernet video output
- Extended temperature supported (ACD-2100T)
- Optional rackmount kit available



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video (Compression)		External I/O	
Compression	MPEG-4 SP, MJPEG selectable	Reset Button	Factory default
Resolution	Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) VGA (640 x 480 in NTSC, 640 x 480 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (160 x 112 in NTSC, 176 x 144 in PAL)	LED	System status
Bit Rate	28 K ~ 3 M bps	Network	
Image Frame Rate	30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL)	Ethernet Port	Ethernet (10/100Base-T), RJ-45 connector
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Video Input		Software	
Composite Input	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	Web Browser	Microsoft Internet Explorer 6.0 or above
Video Output	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	SDK	ACTi SDK-10000
Audio Input	8 kHz, Mono, PCM	PTZ Protocol*	Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2
Audio Line Input	Unbalanced, 1.4 Vp-p, 1 Vrms, 3.5 mm Phone Jack	Security	Password protection : configured by the administrator
Audio Output	8 kHz, Mono, PCM	Operating	
Audio Line Output	Unbalanced, 1.4 Vp-p, 1 Vrms, 3.5 mm Phone Jack	Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F), ACD-2100; -30 °C ~ 70 °C (-22 °F ~ 158 °F), ACD-2100T
Alarm		Power	
Input	2, TTL, terminal block	Power Requirement	DC 12 V ±10%
Output	2, TTL, terminal block	Power Consumption	3.8 W
Remote Control		Physical	
Serial Port	RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232: full duplex, terminal block	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)

* These PTZ protocols are supported in ACTi NVR and Streaming Explorer.

ORDERING INFORMATION

Model Name	Full D1	Extended Temperature
ACD-2100	V	
ACD-2100T	V	V

ACD-2200

Four-channel Video Server with Two Way Audio



- Selectable MPEG-4 / MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two way audio supported (per channel)
- Hardware motion detection, Digital Input / Output (per channel)
- Serial ports for each channel



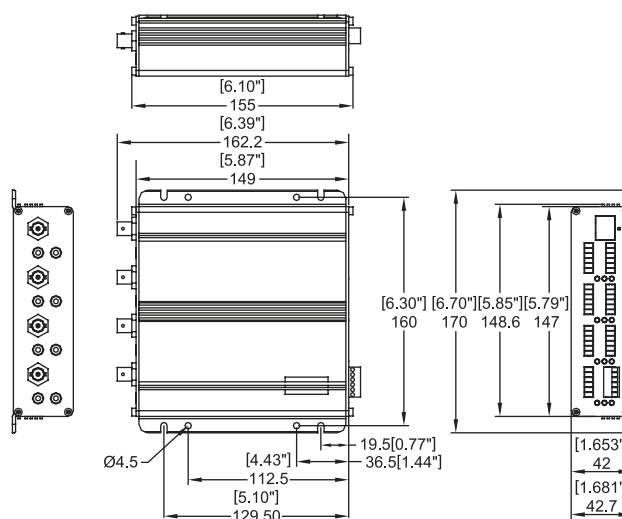
- ① Channel Number
② Video Input

- ③ Audio Input / Output

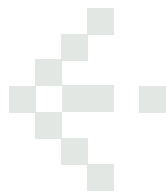
- ④ Ethernet Port
⑤ Reset Button
⑥ Power LED
⑦ LAN LED

- ⑧ RS-485 LED
⑨ Digital Input / Output
⑩ Serial Port & DC 12 V Power Input

DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video Compression		External I/O	
Compression	MPEG-4 SP, MJPEG selectable	Reset Button	Factory default
Picture Resolution	Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) VGA (640 x 480 in NTSC, 640 x 480 in PAL) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (176 x 120 in NTSC, 176 x 144 in PAL) (per channel)	LED	System status (per channel)
Bit Rate	28K ~ 3M bps (per channel)	Network	
Image Frame Rate	30fps at full D1 resolution (NTSC) 25fps at full D1 resolution (PAL) (per channel)	Ethernet Port	Ethernet (10/100 Base-T), RJ-45 connector
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording (per channel)	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP
Video Input		Software	
Composite Input	4, CVBS, 1.0Vp-p with 75Ω loading, BNC Connector	Web Browser	Microsoft Internet Explorer 6.0 or above
Audio Input		SDK	ACTi SDK-10000
Compression	8 kHz, Mono, PCM	PTZ Protocol*	Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2
Audio Line Input	4, Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack	Security	Password protection: configured by the administrator
Audio Output		Operating	
Compression	8 kHz, Mono, PCM	Temperature	0 °C ~ 40 °C (32 °F ~ 104 °F)
Audio Line Output	4, Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack	Power	
Alarm		Power Requirement	DC 12 V ±10%
Input	2, TTL, terminal block (per channel)	Power Consumption	16 W
Output	2, TTL, terminal block (per channel)	Physical	
Remote Control		Dimensions (WxHxD)	170 mm x 42.7 mm x 149 mm (6.70" x 1.68" x 5.87")
Serial Port	RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232**: full duplex, terminal block (per channel)	Weight	820 g (1.80 lb)

* These PTZ protocols are supported in ACTi NVR and Streaming Explorer.
** Adjust by inside jumper.

ORDERING INFORMATION

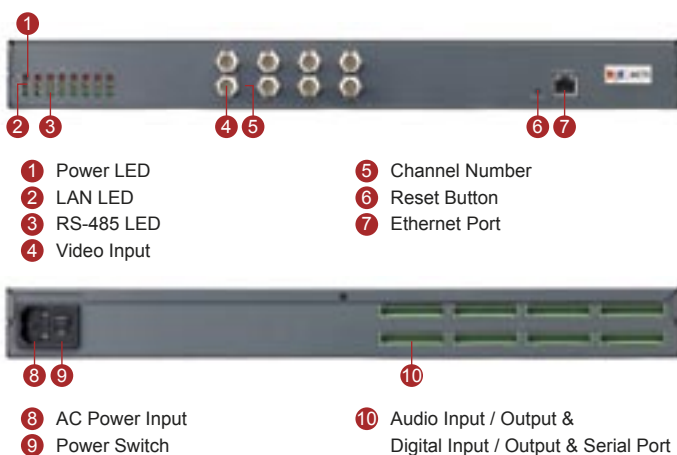
Model Name	Description
ACD-2200	Wallmount Type 4-channel MPEG-4 Video Server with Two Way Audio

ACD-2300

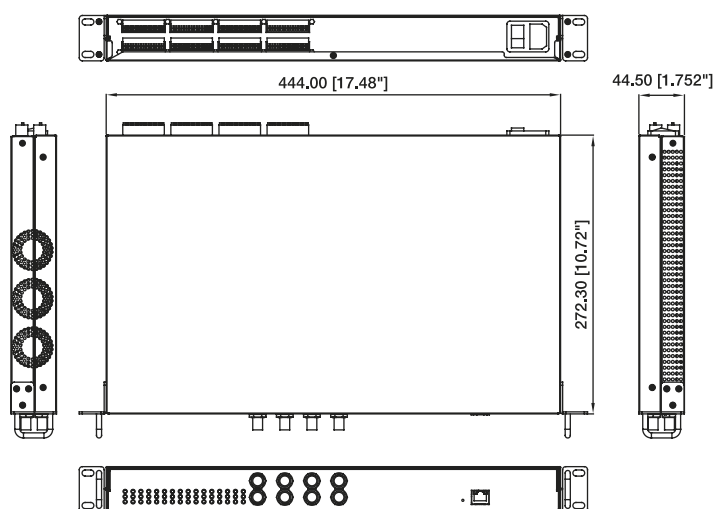
1U Rackmount 8-channel Video Server with Two Way Audio



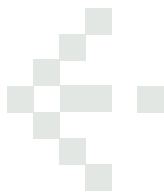
- Selectable MPEG-4/MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS (per channel)
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported (per channel)
- Hardware motion detection, Digital Input / Output (per channel)
- Serial ports for each channel



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video Compression		External I/O	
Compression	MPEG-4 SP, MJPEG selectable	Reset Button	Factory default
Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL) VGA (640x480 in NTSC, 640x480 in PAL) CIF (352x240 in NTSC, 352x288 in PAL) QCIF (176x120 in NTSC, 176x144 in PAL) (per channel)	LED	System Status (per channel)
Bit Rate	28 K ~ 3 M bps (per channel)	Network	
Image Frame Rate	30fps at full D1 resolution (NTSC) 25fps at full D1 resolution (PAL)	Ethernet Port	Ethernet(10/100 Base-T), RJ-45 connector
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording (per channel)	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Video Input		Software	
Composite Input	8, CVBS, 1.0Vp-p with 75Ω loading, BNC connector	Web Browser	Microsoft Internet Explorer 6.0 or above
Video Output		SDK	ACTi SDK-10000
Composite Output	N/A	PTZ Protocol*	Pelco-p_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2
Audio Input		Security	Password Protection: Configured by the Administrator
Compression	8kHz, Mono, PCM	Operating	
Audio Line Input	8, Unbalanced, 1.4Vp-p, 1Vrms, terminal block	Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Audio Output		Power	
Compression	8kHz, Mono, PCM	Power Requirement	AC 100 ~ 240 V 50/60 Hz
Audio Line Output	8, Unbalanced, 1.4Vp-p, 1Vrms, terminal block	Power Consumption	50 W
Alarm		Physical	
Input	2, TTL, terminal block (per channel)	Dimensions (WxHxD)	444 mm x 44.5 mm x 272 mm (17.48" x 1.75" x 10.72")
Output	2, TTL, terminal block (per channel)	Weight	3.9 Kg
Remote Control		* These PTZ protocols are supported in ACTi NVR and Streaming Explorer. ** Adjust by inside jumper.	
Serial Port	RS-485: Half Duplex, terminal block RS-422: Full Duplex, terminal block RS-232**: Full Duplex, terminal block (per channel)		

ORDERING INFORMATION

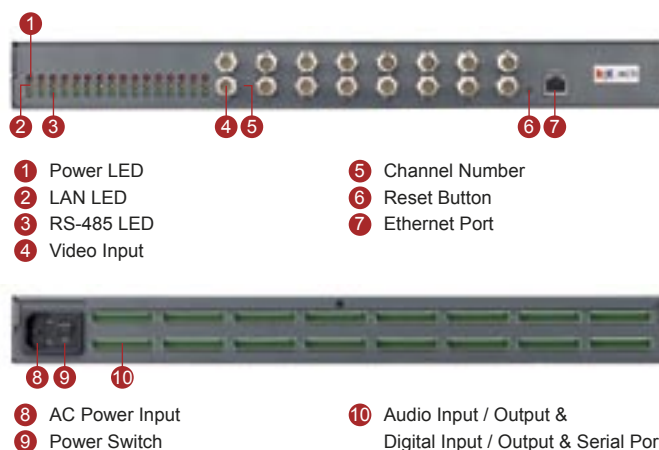
Model Name	Description
ACD-2300	1U Rackmount 8-channel Video Server with Two Way Audio

ACD-2400

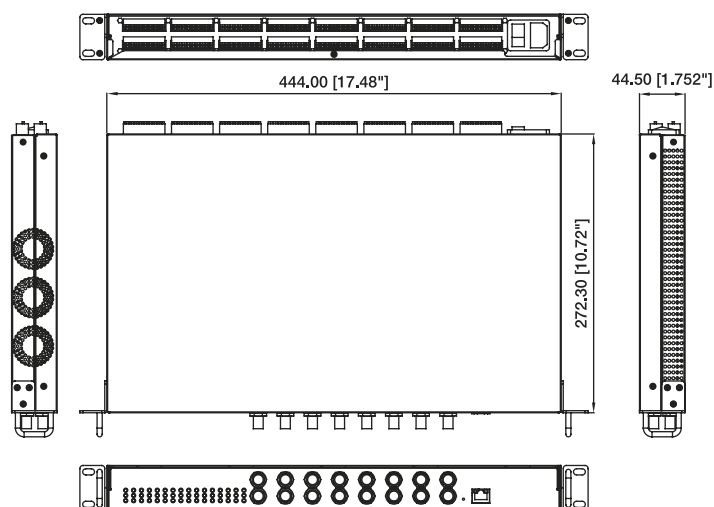
1U Rackmount 16-channel Video Server with Two Way Audio



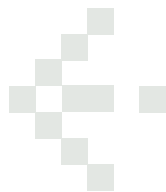
- Selectable MPEG-4/MJPEG compression
- CIF up to Full D1 resolution at 30/25 FPS (per channel)
- Multi-stream with variable frame rate in the same compression
- Two-way audio supported (per channel)
- Hardware motion detection, Digital Input / Output (per channel)
- Serial ports for each channel



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video Compression	
Compression	MPEG-4 SP, MJPEG selectable
Picture Resolution	Full D1 (720 x 480 in NTSC, 720 x 576 in PAL) VGA (640 x 480 in NTSC, 640 x 480 in Pal) CIF (352 x 240 in NTSC, 352 x 288 in PAL) QCIF (176 x 120 in NTSC, 176 x 144 in PAL) (per channel)
Bit Rate	28 K ~ 3 M bps (per channel)
Image Frame Rate	30fps at full D1 resolution (NTSC) 25fps at full D1 resolution (PAL)
Multi-stream	Up to 2 configurable frame rate/bit rate streams for preview and recording (per channel)
Video Input	
Composite Input	16, CVBS, 1.0Vp-p with 75Ω loading, BNC connector
Video Output	
Composite Output	N/A
Audio Input	
Compression	8kHz, Mono, PCM
Audio Line Input	16, Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Audio Output	
Compression	8kHz, Mono, PCM
Audio Line Output	16, Unbalanced, 1.4Vp-p, 1Vrms, terminal block
Alarm	
Input	2, TTL, Terminal Block (per channel)
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)

External I/O	
Reset Button	Factory default
LED	System Status (per channel)
Network	
Ethernet Port	Ethernet(10/100 Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP, 3GPP
Software	
Web Browser	Microsoft Internet Explorer 6.0 or above
SDK	ACTi SDK-10000
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	0 °C ~ 50 °C (32 °F ~ 122 °F)
Power	
Power Requirement	AC 100 ~ 240 V 50 / 60 Hz
Power Consumption	87 W
Physical	
Dimensions (WxHxD)	444 mm x 44.5 mm x 272 mm (17.48" x 1.75" x 10.72")
Weight	4.3 kg

* These PTZ protocols are supported in ACTi NVR and Streaming Explorer

** Adjust by inside jumper

ORDERING INFORMATION

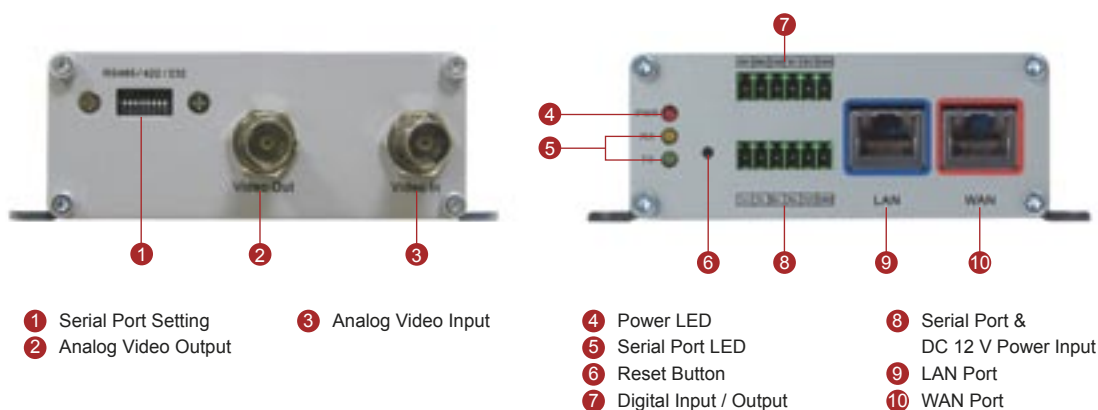
Model Name	Description
ACD-2400	1U Rackmount 16-channel Video Server with Two Way Audio

SED-2120

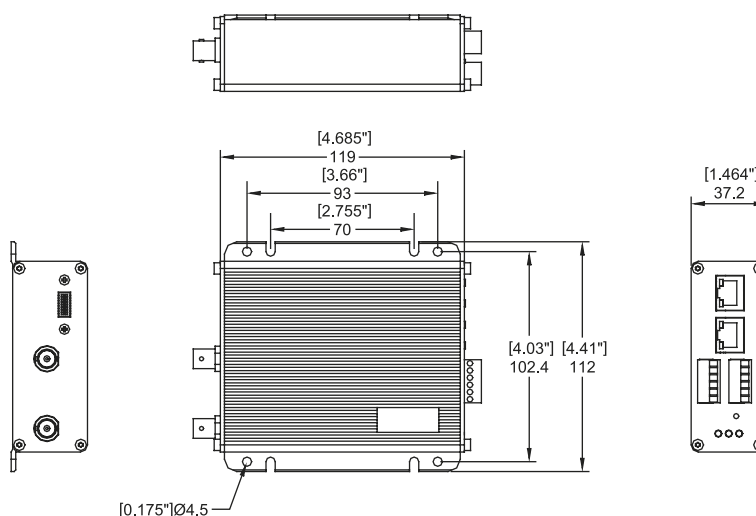
One-channel MPEG-4 Video Server



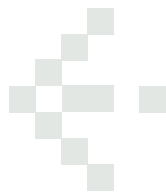
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Hardware motion detection, Digital Input/Output
- Fail-over network protection and QoS enabled (L3) video streaming
- Hybrid analog and ethernet video output
- Optional rackmount kit available



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video (Compression)	
Compression	MPEG-4 ASP compliant 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) 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

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, DNS, DDNS, NTP, ICMP, IGMP, ARP
Software	
Web Browser	Microsoft Internet Explorer 6.0 or above
SDK	ACTi SDK-10000
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 °C ~ 50 °C (40 °F ~ 122 °F)
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)

* These PTZ protocols are supported in ACTi NVR and Streaming Explorer.

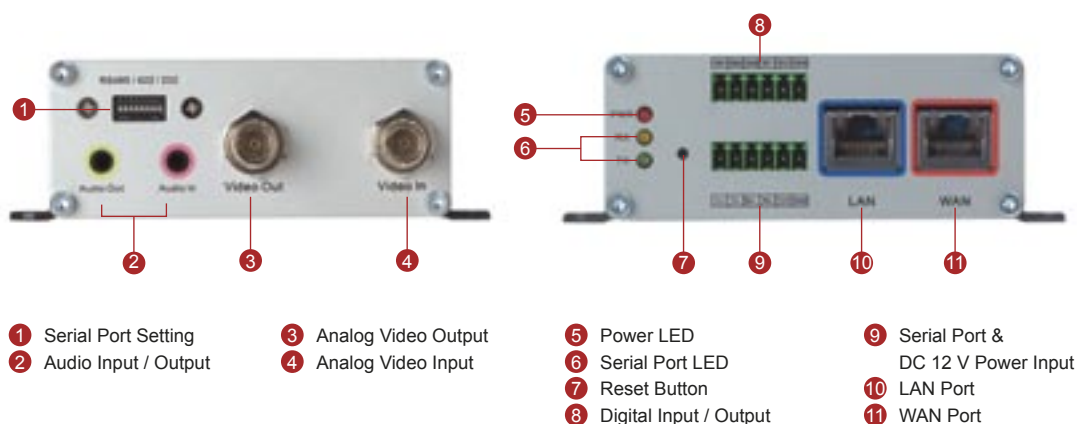
ORDERING INFORMATION

Model Name	Description
SED-2120	One-channel MPEG-4 Video Server

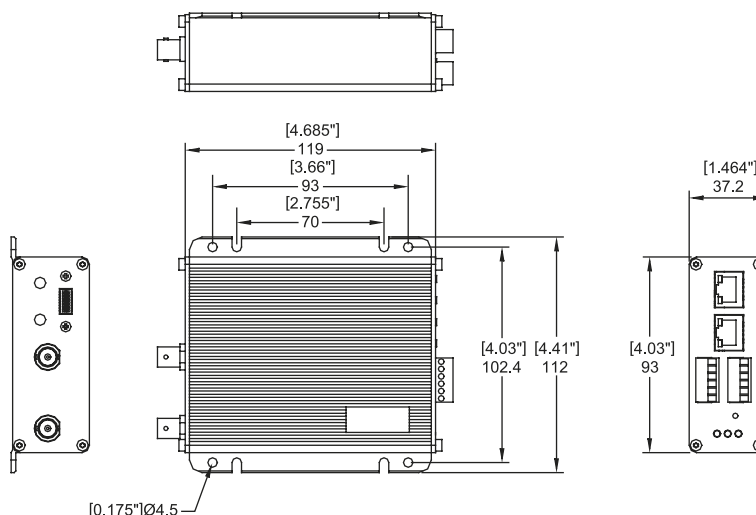
SED-2140



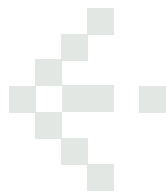
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two way audio supported
- Hardware motion detection, Digital Input / Output
- Fail-over network protection and QoS enabled (L3) video streaming
- Hybrid analog and ethernet video output
- Extended temperature supported (SED-2140T)
- Optional rackmount kit available



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video (Compression)		External I/O	
Compression	MPEG-4 ASP compliant compression	Reset Button	Factory default
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)	LED	System status
Bit Rate	28 K ~ 3 M bps	Network	
Image Frame Rate	30 fps at full D1 resolution (NTSC) 25 fps at full D1 resolution (PAL)	LAN Port	Ethernet (10/100Base-T), RJ-45 connector
Multi-stream	Up to 4 configurable frame rate/bit rate streams for preview and recording	WAN Port	Ethernet (10/100Base-T), RJ-45 connector
Video Input		Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP
Composite Input	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	Software	
Video Output		Web Browser	Microsoft Internet Explorer 6.0 or above
Composite Output	CVBS, 1.0Vp-p with 75 Ω loading, BNC connector	SDK	ACTi SDK-10000
Audio Input		PTZ Protocol*	Pelco-P_type1, Pelco-P_type2, Pelco-D, Dynacolor, Samsung, VCL, Videotrek, Kampro-V1, Kampro-V2
Compression	8 kHz, Mono, PCM	Security	Password protection : configured by the administrator
Audio Line Input	Unbalanced, 1.4Vp-p, 1 Vrms 3.5 mm Phone Jack	Operating	
Audio Output		Temperature	5 °C ~ 50 °C (40 °F ~ 122 °F), SED-2140; -30 °C ~ 70 °C (-22 °F ~ 158 °F), SED-2140T
Compression	8 kHz, Mono, PCM	Power	
Audio Line Output	Unbalanced, 1.4Vp-p, 1 Vrms 3.5 mm Phone Jack	Power Requirement	DC 12 V ±10%
Alarm		Power Consumption	7.5 W
Input	2, TTL, terminal block	Physical	
Output	2, TTL, terminal block	Dimensions (WxHxD)	112 mm x 37.2 mm x 119 mm (4.41" x 1.46" x 4.68")
Remote Control		Weight	350 g (0.66 lb)
Serial Port	RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232: full duplex, terminal block	* These PTZ protocols are supported in ACTi NVR and Streaming Explorer.	

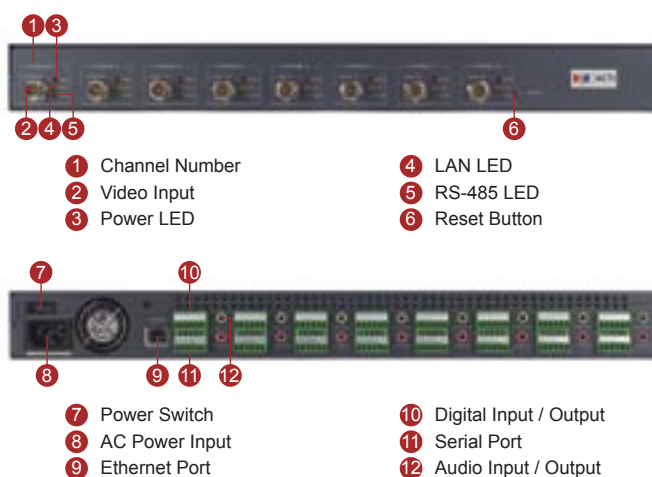
ORDERING INFORMATION

Model Name	Full D1	Extended Temperature
SED-2140	V	
SED-2140T	V	V

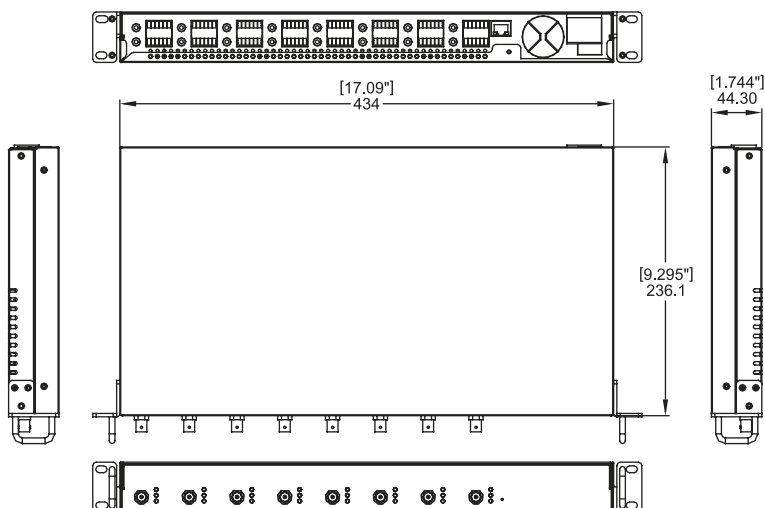
SED-2610



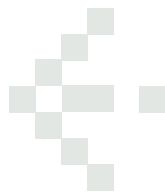
- MPEG-4 ASP compression
- CIF up to Full D1 resolution at 30/25 FPS
- Multi-stream with variable frame rate in the same compression
- Two way audio supported (per channel)
- Hardware motion detection, Digital Input / Output (per channel)
- Serial ports for each channel



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video Compression	
Compression	MPEG-4 ASP Compliant
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) (per channel)
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 75Ω loading, BNC connector
Video Output	
Composite Output	N/A
Audio Input	
Compression	8kHz, Mono, PCM
Audio Line Input	8, Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack
Audio Output	
Compression	8kHz, Mono, PCM
Audio Line Output	8, Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack
Alarm	
Input	2, TTL, terminal block (per channel)
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)

External I/O	
Reset Button	Factory default
LED	System status (per channel)
Network	
Ethernet	Ethernet (10/100Base-T), RJ-45 connector
Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, FTP, SMTP, DNS, DDNS, NTP, ICMP, IGMP, ARP
Software	
Web Browser	Microsoft Internet Explorer 6.0 or above
SDK	ACTi SDK-10000
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	0 °C ~ 50 °C (32 °F ~ 122 °F)
Power	
Power Requirement	AC 100 ~ 240 V 50 / 60 Hz
Power Consumption	60 W
Physical	
Dimensions (WxHxD)	434 mm x 44.3 mm x 236 mm (17.09" x 1.744" x 9.295")
Weight	4.2 Kg

* These PTZ protocols are supported in ACTi NVR and Streaming Explorer.

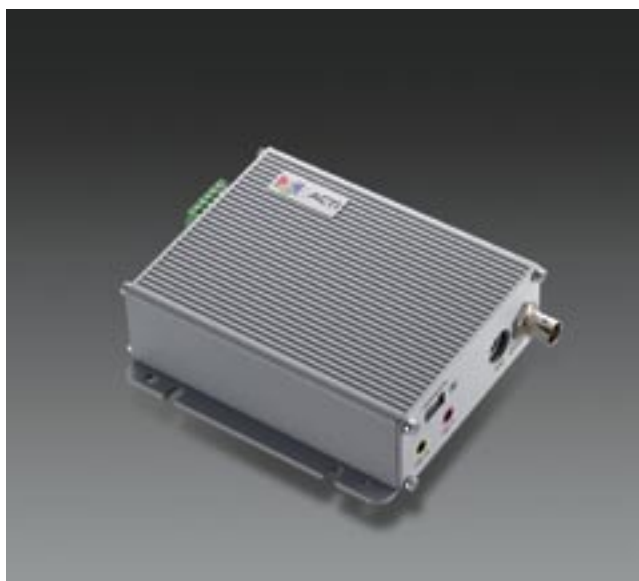
** Adjust by inside jumper.

ORDERING INFORMATION

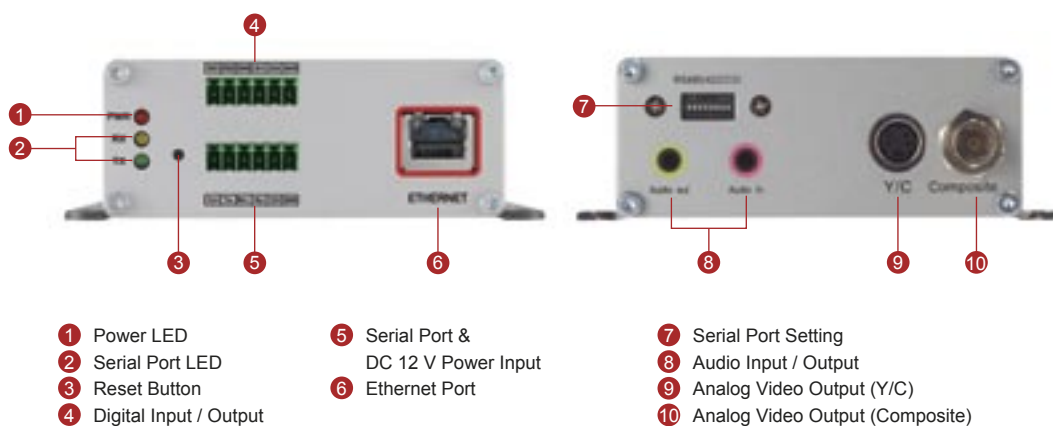
Model Name	Description
SED-2610	1U Rackmount 8-channel MPEG-4 Video Server with Two Way Audio

ACD-3100

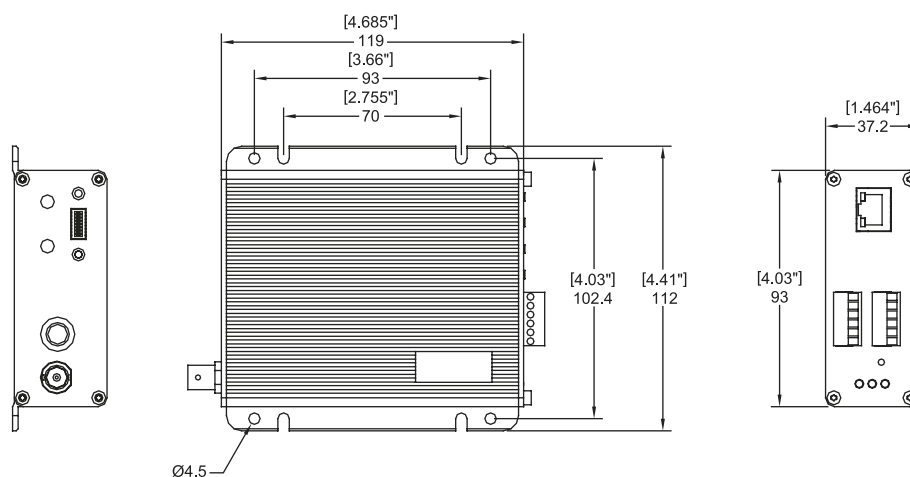
Video Decoder with Two Way Audio



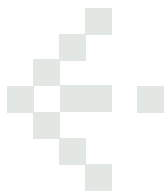
- Full D1 MPEG-4 video decoding at 30/25 FPS
- Digital time code retrieved
- Two way audio supported
- Hardware motion detection, Digital Input / Output



DIMENSION DIAGRAM



Unit: mm [inch]

**PRODUCT SPECIFICATION**

Video		External I/O	
Decompression	MPEG-4 ASP, SP decompresssion	Reset Button	Factory default
Picture Resolution	Full D1 (720x480 in NTSC, 720x576 in PAL)	LED	System status
Bit Rate	28 K ~ 3 M bps	Network	
Image Frame Rate	30 fps at full D1 resolution (NTSC); 25 fps at full D1 resolution (PAL)	Ethernet Port	Ethernet (10/100Base-T), RJ-45 connector
Video 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	Protocol	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP, DNS, DDNS, ICMP, ARP
Audio Input		Software	
Compression	8kHz, Mono, PCM	Web Browser	Microsoft Internet Explorer 6.0 or above
Audio Line Input	Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack	SDK	URL command
Audio Output		Security	Password protection: configured by the administrator
Compression	8kHz, Mono, PCM	Operating	
Audio Line Output	Unbalanced, 1.4 Vp-p, 1Vrms, 3.5 mm Phone Jack	Temperature	0 °C ~ 50 °C (32 °F ~ 122 °F)
Alarm		Power	
Input	2, TTL, terminal block	Power Requirement	DC 12 V \pm 10%
Output	2, TTL, terminal block	Power Consumption	3.8 W
Remote Control		Physical	
Serial Port	RS-485: half duplex, terminal block RS-422: full duplex, terminal block RS-232: full duplex, terminal block	Dimensions	112 mm x 37.2 mm x 119 mm (4.41" x 1.46" x 4.68")
		Weight	350 g (0.66 lb)

ORDERING INFORMATION

Model Name	Description
ACD-3100	MPEG-4 Video Decoder

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
- Minimum setup cost
- Support up to 8 devices

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.

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.

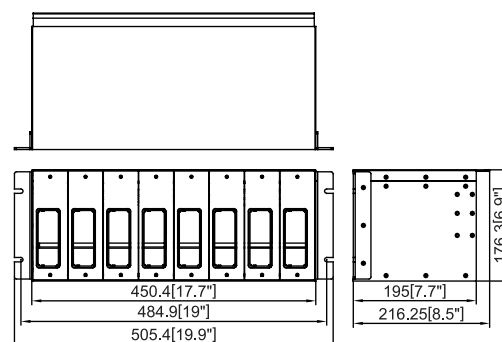
PRODUCT SPECIFICATION

Construction	Heavy-duty steel
Applied Devices for RMK-2000	SED-2120 / SED-2140 / SED-2320Q / ACD-2100
Max. Number of Device Supported	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
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")
Weight	7.5 kg (3.405 lbs)

ACCESSORY OPTIONS

- FRONT-BEZEL for SED-2120 / SED-2140 / SED-2320Q 0306-00004-000
- FRONT-BEZEL for General 0306-00007-000

DIMENSION DIAGRAM



Unit: mm [inch]

RMK-3000



Rackmount Kit for Wallmount Type Devices

- 19-inch 4U Rackmount Kit
- Better and fast access for installation and maintenance
- Flexible mounting environment
- Minimum setup cost
- Support up to 8 devices

RMK-3000 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-3000 provides the space efficiency required in applications that need the central management for high volume of ACTi MPEG-4 IP Surveillance devices.

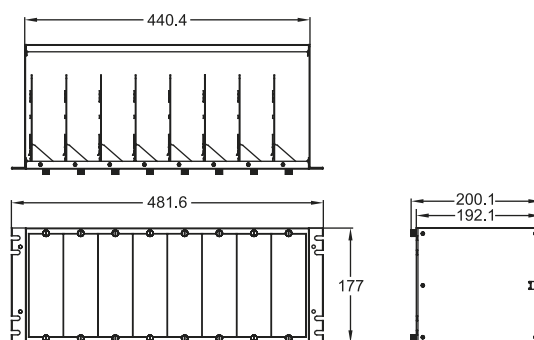
PRODUCT SPECIFICATION

Construction	Heavy-duty steel
Applied Device for RMK-3000	SED-2120 / 2140 / ACD-2100 / ACD-3100
Max. Number of Device Supported	8
Color	Black
Dimension (W x D x H)	481.6 mm x 200.1 mm x 177 mm (18.9" x 7.9" x 6.97")
Weight	3.5 kg (1.59 lbs)

ACCESSORY OPTIONS

- Front-Bezel for General R306-00009-000
- Front-Bezel for SED-2120 / 2140 / ACD-2100 / ACD-3100 R306-00014-000

DIMENSION DIAGRAM



Unit: mm

Accessories

Outdoor Housing/Bracket

R692-00001-000



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
- IP66, CE
- DC 12V supported
- Applied camera model:
 - ACM-5601 / ACM-5611
 - CAM-5201 / CAM-5221
 - CAM-5301 / CAM-5321
 - ACM-5711
 - ACM-5001

R695-00011-000



Bracket

- Construction: Plastic / Ivory Color
- Maximum Load: 3.5 Kg
- Swivel Angle: 360°
- Dimension (L x Baseplate): 175 mm x 89 mm
- Weight: 160 g
- Applied camera model:
 - ACM-5601 / ACM-5611
 - CAM-5201 / CAM-5221
 - CAM-5301 / CAM-5321
 - ACM-5711
 - ACM-5001
 - TCM-5311

R695-00004-000



Housing Bracket

- Construction: Aluminum (Beige or 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
- Applied camera model:
 - ACM-5601 / ACM-5611
 - CAM-5201 / CAM-5221
 - CAM-5301 / CAM-5321
 - ACM-5711
 - ACM-5001
 (R695-00004-000, Beige)
- Applied camera model:
 - ACM-1231 / ACM-1232
 - ACM-1431 / ACM-1432
 (R695-00004-001, Silver-grey)

R695-00004-001

69-GL220E-R0



Housing Bracket

- Construction: Zinc, Plastic (Silver)
- Maximum Load: 1 Kg
- Swivel Angle: 360°
- Tilt Angle: 90°
- Dimension (W x H): 50 x 120 mm
- Weight: 132g
- Applied camera model:
 - ACM-1511
 - ACM-1311
 - ACM-1011

Fixed Dome Accessories

R337-00004-100



3-inch Dome Cover

- Applied camera model:
 - ACM-3401 / ACM-3411

R695-00019-001



Wall Mount Kit

- Dimension (W x H x D): 292 mm x 220 mm x 366 mm
- Applied camera model:
 - ACM-7411
 - CAM-7300 Series

R695-00020-000



Flush mount kit

- Dimension (Ø x H) : 190 mm x 59.6 mm
- Applied camera model:
 - ACM-7411
 - CAM-7300 Series

MTB-201-R0



Wall Mount Kit

- Dimension (W x H x D): 210 mm x 155 mm x 140 mm
- Applied camera model:
 - ACM-3401 / ACM-3411
 - ACM-3211
 - ACM-3311
 - ACM-3001

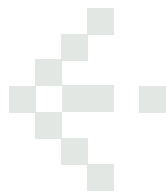
PTZ Camera Mount Kit

R695-00022-100



Flush mount kit

- Dimension (Ø x H) : 197.2 mm x 160 mm
- Applied camera model:
 - ACM-8201
 - ACM-8511



Accessories

CCTV Lens

ACTi P/N	Size	Mount	Type	IRIS	Aperture (F)	Focal Length (mm)	Field of View (HOR)	Apply Products									
								CAM-5201 CAM-5301	CAM-5221 CAM-5321	ACM-5711	ACM-5001	ACM-4000 ACM-4001	ACM-4200 ACM-4201	ACM-5601	ACM-5611	TCM-4301	TCM-5311
LEN-101	1/3"	CS	IR	Fixed	1.8	4.2	75				v	v	v	v	v	v	
LEN-102	1/3"	CS	IR	Fixed	1.8	8	40							v			
LEN-106	1/3"	CS	Normal	Auto	1.0	3.0~8	36.8~94.3	v									
LEN-107	1/3"	CS	Normal	Auto	1.4	5.0~55	61~5	v		v							
LEN-108	1/3"	CS	IR	Auto	1.0	3.0~8.5	94.2~33.5	v	v	v							
LEN-109	1/3"	CS	IR	Auto	1.3	7.5~50	90.5~33.6	v	v	v							
LEN-112	1/3"	CS	Normal	Manual	1.4	3.5~8	106~43.2				v			v			
LEN-201	1/3"	CS	Normal	Manual	1.2	2.4~6	111.3~47.1					v	v	v		v	
LEN-205	1/3"	CS	IR	Manual	1.6	2.8~12	102.2~23.7					v	v	v	v	v	
LEN-207	1/3"	CS	IR	Auto	1.3	2.8~12	102.2~23.7										v

Speed Dome Mounting (CAM-6510/CAM-6600 Series)

D77H06-TB-R0



T-Bar Ceiling Mount

- Height: 160 mm (6.3 inches); Diameter: 180 mm (7.1 inches); 0.5 kg (1.1 lbs)
- For CAM-6500 Series

D77H05-WIMK-R0



Indoor Mount Kit

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

D77H03-WGT-R0

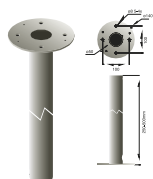


Gooseneck Tube

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

D77H03-WST1-R0

D77H03-WST2-R0



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-WPTD-R1



Pole Thin Direct Mounting

- 232x136x60mm (9.1x5.4x2.4 inches); Diameter: 112~140mm (4.4~5.5 inches); 0.7 kg (1.6 lbs)

D77H05-WCST-R0



Corner Plate Mounting

- 222x204x117mm (8.7x8x4.6 inches); 2 kg (4.4 lbs)

D77H05-WWBM-R0



Wall Box Mounting

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

D77H05-WCTB-R0



Corner Thin Box Mounting

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

D77H05-WPTB-R0



Pole Thin Box Mounting

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

Accessories

Speed Dome Cover

61-PDH700106A1-R0

(Non-Vandal)



**5.4" Transparent Cover
for CAM-6500 Series**

Diameter: 137 mm

61-PDH700109A1-R0

(Vandal)



**5.4" Transparent Cover
for CAM-6500 Series**

Diameter: 137 mm

61-PDH700108A1-R0

(Non-Vandal)



**5.4" Smoke Cover for
CAM-6500 Series**

Diameter: 137mm

69-PDH8111CT1-R0

(Non-Vandal)



**5.4" Transparent Cover
for CAM-6600 Series**

Diameter: 137mm

69P7728102A1-R0

(Vandal)



**5.8" Transparent Cover for
CAM-6600 Series**

Diameter: 145mm

69-PDH8111CS1-R0

(Non-Vandal)



**5.4" Smoke Cover
for CAM-6600 Series**

Diameter: 137mm

Control Panel

90P7313H201C-R0



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

- Can be used with Video Decoder only. Not compatible with NVR
- Remote control via RS-485 interface
- 3-axis joystick control of PTZ
- Can control up to 255 devices
- Firmware upgrade via RS-232 port
- Built-in clock for date and time recording
- Supports Pelco D, Pelco P, and DSCP protocols
- Password protection and key-lock function

Power Box

D77H07-EPB13-R0



Power Box (IP66)

- White; 186.5×147 mm (7.3×5.8 inches); 2.6 kg (5.8 lbs)
- EPB13 Input: 10~115VAC/Output: 24VAC 72VA

D77H07-EPB23-R0



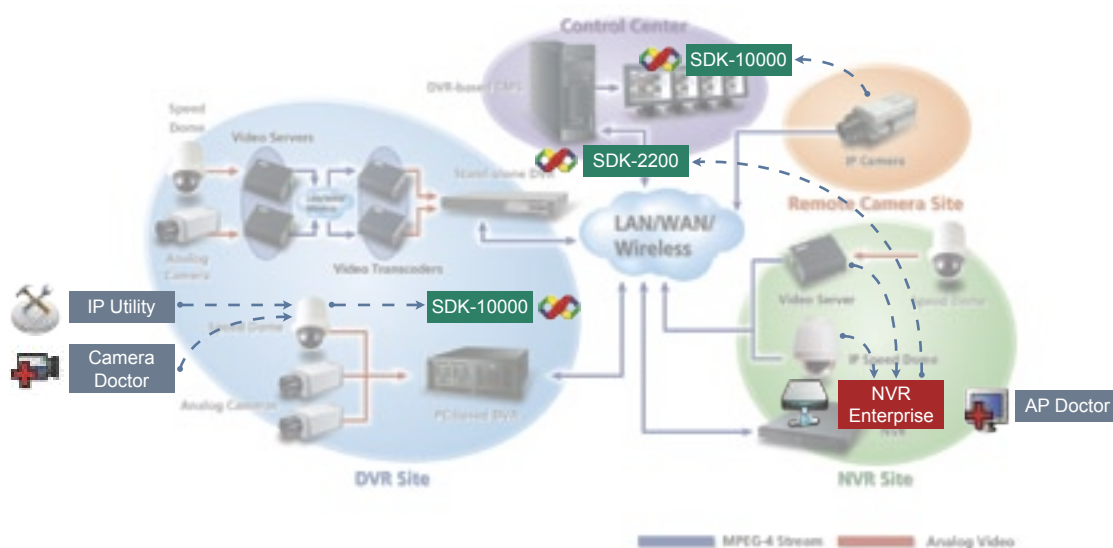
- EPB23 Input: 220~230VAC/Output: 24VAC 72VA

ACTi SDK

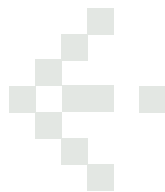


- One SDK for all products
- SDK for ACTi NVR Server
- Support DivX, XviD, FFMPEG, Intel IPP Decoder
- Support Megapixel, Full D1, VGA, CIF, QCIF resolution
- Support MPEG-4, H.264 and MJPEG format
- Support Visual C++, VB6, VB.Net, Javascript + HTML language
- C SDK Edition
- ActiveX Control Edition
- URL Command Edition
- RTP/RTSP Edition
- Linux C SDK Edition
- Windows Mobile C SDK Edition

POSITIONING



SDK-2200	SDK for ACTi NVR Server <ul style="list-style-type: none"> • C SDK Edition • ActiveX Control Edition • URL Command Edition • Linux C SDK Edition
SDK-10000	SDK for all ACTi products <ul style="list-style-type: none"> • C SDK Edition • ActiveX Control Edition • URL Command Edition • RTP/RTSP Edition • Linux C SDK Edition • Windows Mobile C SDK Edition



PRODUCT SPECIFICATION

Development Environment

Environment	Windows 2000, Windows XP, Windows 2003, Windows Vista
Programming Language	Visual C++ v6.0, Visual Studio.Net 2003, Visual Studio 2005, Visual BASIC v6.0, VB.Net, HTML, JavaScript

SDK-10000

SDK Offerings	C SDK, ActiveX Control, URL Command, RTP/RTSP Package
Supported Devices	ACTi IP Camera, IP Dome, IP Speed Dome, Video Server, Quad Video Server
Supported Resolution	Megapixel, Full D1, VGA, CIF, QCIF
Format	MPEG-4/H.264/MJPEG
Standard Decoding	Supports FFMPEG, DivX, XviD, Intel IPP decoder
Protocol	TCP, Multicast, RTP/RTSP
Preview	MPEG-4/H.264/MJPEG streaming, decoding, render and display
RGB Buffer	Callback function to retrieve RGB buffer
Audio	2-way audio supported. Audio format complies with PCM 8KHz sampling rate
Recording	Recording, alarm recording with pre-event, post-event recording time. MPEG-4/H.264/MJPEG raw data and AVI format supported
Playback	Playback recorded archive with speed control, forward/backward direction control, seek and frame-by-frame operation
Motion Detection	Callback function supported when a motion event detected
Digital I/O Event	Callback function supported when a digital input is triggered
Serial Port Function	Sends serial port commands or receives data from serial port.
PTZ Function	Pan, Tilt, Zoom, Preset, IRIS, OSD, Absolute Position
PTZ Protocols	CAM-6500, CAM-6600 series; Pelco-P, Pelco-D, Lilin, Dynacolor, TOA, Eyeview, VideoTrec
Sample Codes	AbsolutePosition, ArchivePlayer, ArchivePlayerMultiFile, ControlSample, DecodeSample, MediaConverter, PTZSample, RTPSample, StreamSample, SearchSample, SendAudio, URLSample

Linux C SDK Edition

Environment	Red Hat, Fedora Linux
Programming Language	C Language
Format	H.264/MPEG-4/MJPEG
Protocol	TCP, Multicast, RTP/RTSP
NVR Connection	Connects to NVR and receives stream
Audio	2-way audio supported. Audio format complies with PCM 8KHz sampling rate
Control Port	Connects to control port and receives motion detection and DI events
Sample Codes	audioout, control, mc, quad, url, vs, stream

SDK-10000 Windows Mobile Edition

Environment	Microsoft Windows Mobile 5, Windows Mobile 6
CPU	Intel XScale (Recommended) Samsung
Programming Language	Visual Studio 2005, C/C++
Resolution	Up to D1@5 FPS with 1.5 Mbps or CIF@15 FPS with 1.5 Mbps
Sample Codes	Preview, PTZ, Preview from NVR

RTP/RTSP Edition

RTP Protocol Flow	RTSP request commands, OPTIONS, DESCRIBE, SETUP, PLAY, PAUSE, TEARDOWN
MPEG-4 Data Structure	Packet format, video payload, audio payload, B2 header description
Sample Codes	Video Sample, Control Sample, PTZ Sample, Sound Player Sample, URL Sample

SDK-2200

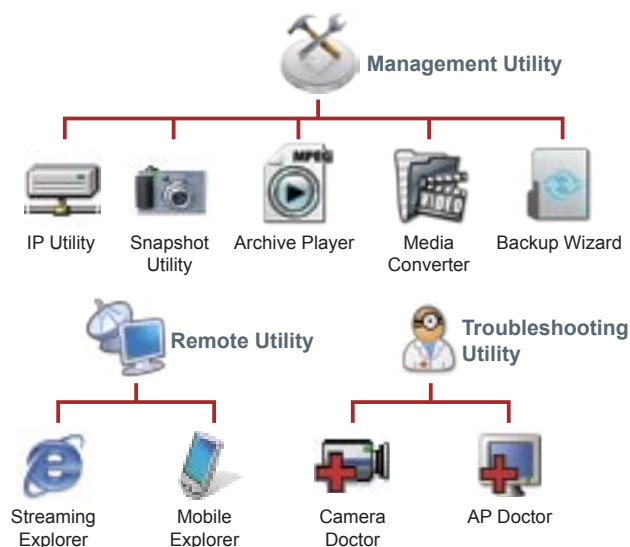
SDK Offerings	C SDK, ActiveX Control
Supported Devices	ACTi NVR Server Enterprise Edition
Format	MPEG-4/H.264/MJPEG
Audio	2-way audio
PTZ Controls	Controls PTZ operations via ACTi NVR
ACTi NVR Management	Query system information; add, delete devices via ACTi NVR
ACTi NVR Monitor	Monitor ACTi NVR system resources, disk capacity, recording, schedule and system logs
Search Video Clips	Search video clips recorded on ACTi NVR
Remote Preview	Preview ACTi IP Camera Video via ACTi NVR
Remote Playback	Playback recorded archives on ACTi NVR
Event Management	Events will be passed via ACTi NVR
Sample Codes	Remote search, remote Preview, remote playback

Sample Codes

AbsolutePosition	Use absolute position to control PTZ camera.
ArchivePlayer	Preview a RAW file with playback function.
ArchivePlayerMultiFile	Play multiple RAW file seamlessly
ControlSample	Setup control port connection and receive event from device directly
DecodeSample	Supported functions include connects to the device, receives RAW data, decode MPEG4/H.264 to RGB buffer, display RGB buffer, and save to BMP file
MediaConverter	Convert RAW file to AVI format
PTZSample	Get PTZ command from PTZParser library and send PTZ command via URL command
RTPSample	Connects to device using RTP over UDP or RTP over Multicast, and support audio function
StreamSample	Functions included: Live view via TCP, Multicast, RTP 2-way audio, record, playback Get/Set device configuration Motion detection, DIO
SearchSample	Search for connectable devices
SendAudio	Send wave file to device.
URLSample	Send URL request and receive URL response from device.

* ACTi SDK is available upon request for integration.

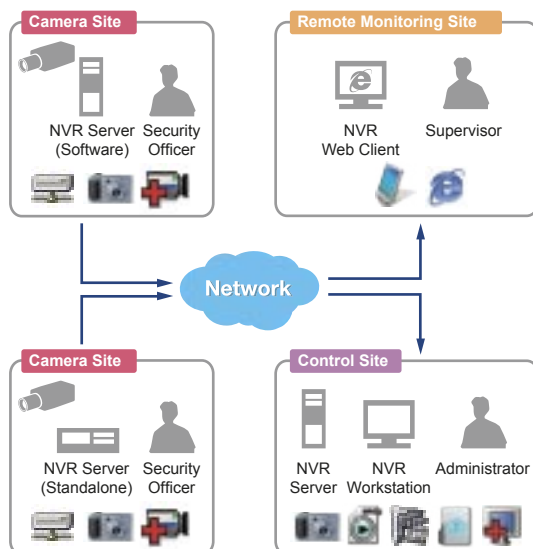
ACTi Utility Suite



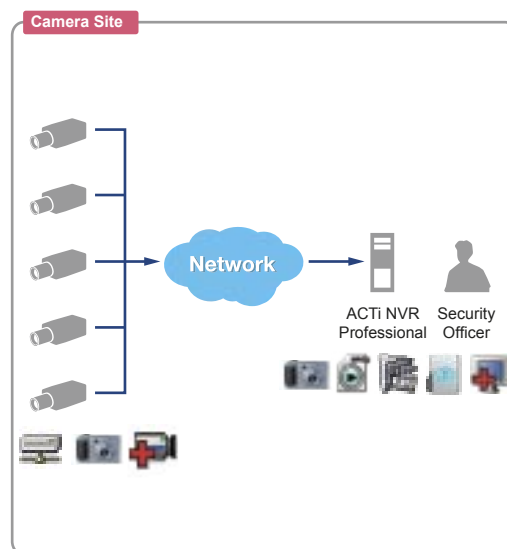
- Search and manage devices on the network
- Creates snapshots periodically and sends to mail account or FTP site
- Play and convert video archives to AVI files
- Backup and Restore NVR configuration and logs
- Remote preview and PTZ operation via Internet Explorer
- Remote preview and PTZ operation via Pocket PC
- Device diagnosis and firmware debug tool
- NVR diagnosis and application debug tool

POSITIONING

NVR Enterprise



NVR Professional



BUNDLED APPLICATION



Management Utility

IP Utility	Search, manage devices, upgrade firmware, backup/restore configuration
Snapshot Utility	Create snapshots in JPEG with resized resolution and send via Mail or FTP
Archive Player	Archive playing tool with playback panel and snapshot functions
Media Converter	Converts recorded archives to AVI files or a new recording RAW file
Backup Wizard	Backup and restore configuration on NVR



Remote Utility

Streaming Explorer	Web tool to manage devices remotely, comes with PTZ configuration tool
Mobile Explorer	Preview and PTZ operation on Microsoft Windows Mobile platform



Troubleshooting Utility

Camera Doctor	Device diagnosis and firmware debug tool
AP Doctor	NVR diagnosis and application debug tool

ACTi Utility Suite

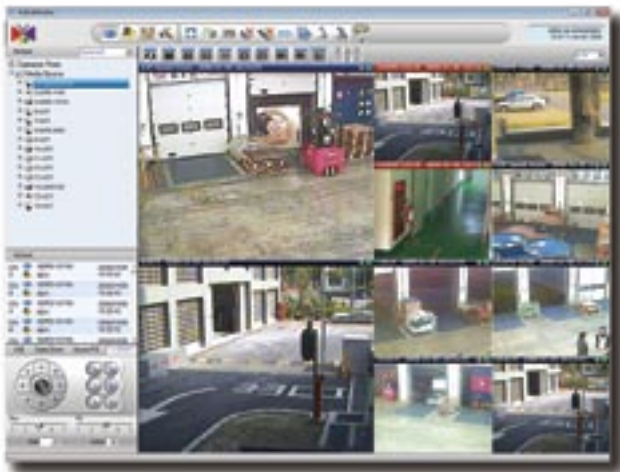
PRODUCT SPECIFICATION

IP Utility	
Search and locate devices	Search devices and display camera name, LAN, WAN IP Address, MAC address, camera profile, device type and firmware version
Manage devices	Modify device name, LAN, WAN, Multicast IP Address
Duplicate Settings	Copy setting to other devices, including analog video setting, bit rate, frame mode, frame rate, serial port setting
Firmware Upgrade	1-to-many firmware upgrade
Camera Profile Update	1-to-many camera profile update
Snapshot Utility	
CODEC	Supports H.264/MPEG-4/MJPEG codec
Resolution	Megapixel, D1, VGA, CIF, QCIF
Create Snapshot	Generate JPEG files
Resolution Change	Resize to Megapixel, D1, CIF, QCIF
Add OSD	Add user-defined text and Date/Time on the snapshot JPEG file
Mail	Send snapshot JPEG file by mail
FTP	Sent snapshot JPEG file by mail
Archive Player	
CODEC	Supports H.264/MPEG-4/MJPEG codec
Resolution	Megapixel, D1, VGA, CIF, QCIF
Playback Operation	Playback video clip with speed control, forward / backward direction and seek position
Timecode Display	Display timecode on the video window
Display I-Frame from firmware	Display I-Frame file (MP4) sent out from firmware
Snapshot Function	Creates snapshot in JPEG or BMP format
Playback unit	Support the unit of playback time to millisecond
Overlay function	Add user-defined text, date time and channel ID on the snapshot file
Media Converter	
CODEC	Supports H.264/MPEG-4/MJPEG codec
Resolution	Megapixel, D1, VGA, CIF, QCIF
Format Conversion	Converts ACTi MPEG-4 RAW data format to AVI or RAW file, RAW to MJPEG, MP4 to JPG
Add OSD	Add user-defined text, date time and channel ID on the snapshot and converted AVI file
Batch File Conversion	Converts multiple files under one directory
Convert Partial File	May convert part of the file to new AVI

Backup Wizard	
Backup and Restore Configuration	Backup and restore configuration from / to ACTi NVR
Streaming Explorer	
CODEC	MPEG-4/MJPEG/H.264
Resolution	Megapixel, D1, VGA, CIF, QCIF
Web Interface	Supports Microsoft IE6 and IE7 web browser
PTZ Functions	Pan, Tilt, Zoom, Preset, IRIS, OSD
PTZ Protocols	CAM-6200, CAM-6500, CAM-6600 series; Pelco-P, Pelco-D, Lilin, Dynacolor, TOA, Eyeview, VideoTrec
OSD Functions	On screen menu to further configure the setting in speed dome or camera
Mouse PTZ	On-screen mouse PTZ with 8-direction pan-tilt control
Mobile Explorer	
Supported Devices	Microsoft Windows Mobile 5 or 6 platform
Supported Profile	Up to D1@5 FPS with 1.5 Mbps or CIF@15 FPS with 1.5 Mbps
Preview	Camera preview
Preview via NVR	Camera preview via NVR Enterprise
PTZ Functions	Pan, Tilt, Zoom, Preset functions
Supported Protocol	CAM-6200, CAM-6500, CAM-6600 series, Pelco-P, Pelco-D, Dynacolor, Eyeview, ACM-8511, ACM-8211
Camera Doctor	
Device Configuration Reports	Reports device configuration
Network Environment Reports	Diagnoses network status and bandwidth information
PC Environment Reports	Diagnoses PC status and performance report
Firmware Debug Tool	Turn on/off firmware debug information, records debug information to log files
AP Doctor	
Application Configuration Reports	Reports application configuration
Application Debug Tool	Turns on/off application debug information, records debug information into report
Auto-Repair Functions	Diagnoses and repair database records
Maintenance Functions	Check system configuration and do system cleanup

ACTi NVR v2.2

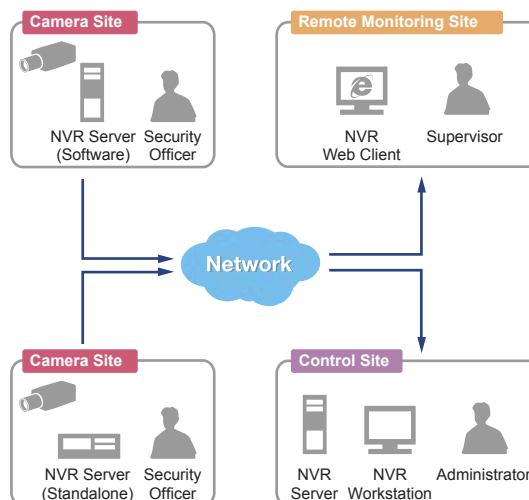
ACTi NVR v2.2



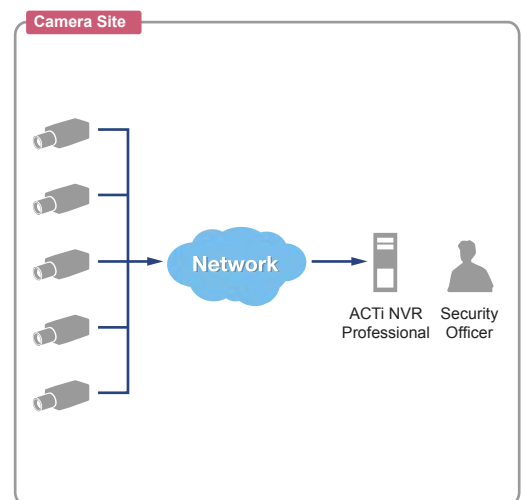
- Support for multiple sites surveillance (available with Enterprise version only)
- Manage up to 64 cameras with tree-directory display
- Support 1, 4, 6, 8, 9, 10, 16, 25, 36, 49, 64 window layout
- Support Megapixel MPEG-4 / H.264 / MJPEG format
- Customizable logo and user interface
- Multiple-channel live view in full-screen mode
- Support different frame rate on live view and recording
- Digital zoom on live view and playback
- Continuous, Schedule, Motion, Alarm Recording
- Support motion detection and Digital I/O event from hardware
- Maximum 30 seconds pre-event recording
- Expandable PTZ commands
- Search video clips by date, time and event
- Time-based search bar
- 4-channel synchronized playback
- eMap Manager
- NVR Web Client (available with Enterprise version only) and NVR Workstation

SOLUTION TEMPLATE

NVR Enterprise



NVR Professional



BUNDLED APPLICATION



Management Utility

IP Utility	Search, manage devices, upgrade firmware, backup/restore configuration
Snapshot Utility	Create snapshots in JPEG with resized resolution and send via Mail or FTP
Archive Player	Archive playing tool with playback panel and snapshot functions
Media Converter	Converts recorded archives to AVI files
Backup Wizard	Backup and restore configuration on NVR



Remote Utility

Streaming Explorer	Web tool to manage devices remotely, comes with PTZ configuration tool
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Trouble-Shooting Utility

Camera Doctor	Device diagnosis and firmware debug tool
AP Doctor	NVR diagnosis and application debug tool



PRODUCT SPECIFICATION

		NVR Enterprise	NVR Professional
System Requirements	PC Specification	16 Channel: Intel Core 2 Duo 2.4GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet 32 Channel: Intel Core 2 Duo 2.67GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet 48 Channel: Intel Core 2 Quad 2.67GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet 64 Channel: Intel Core 2 Quad 2.67GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet	
	Graphic Card	ATI Radeon 1950, nVidia GeForce 8600GT	
	Operating System	Windows XP Professional, Windows 2003, WSS 2003, Windows Vista (Business and Enterprise Edition)	
	Browser	Microsoft Internet Explorer v6.0, v7.0	N/A
System	Format	MPEG-4/H.264/MJPEG	
	Resolution	Megapixel/D1/CIF/QCIF	
	Free License	16	64
	Max. Number of Camera	64	
	CMS support*	Support ACTi CMS	N/A
Live view	Window Layout	1, 4, 6, 8, 9, 10, 16, 25, 36, 49, 64	
	Manual Record & Snapshot	Manual record on-the-fly and saved in NVR Server. The manual record file can be searched later on.	
	Tree Display Panel	User may drag-n-drop to drag a video source to the layout manager for preview	
	Create Snapshots	Creates snapshot images and can be searched as an event index later on	
	Digital Zoom	User may zoom in/out the video display with mouse scroll wheel	
	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 talk or 1-to-many audio broadcast to multiple devices at the same time.	
	Layout Manager	Setup pre-defined window layout to group certain cameras in the same layout. Layout manager can be displayed in full-screen mode.	
Recording	Schedule Recording	Record video with user-defined schedule	
	Event Recording	Record video when a digital input event is triggered or motion detected	
	Pre-event Recording	User-defined time period to record before a certain event occurs.	
	Post-event Recording	User-defined time period to record after a certain event occurs.	
Playback	Playback Mode	Play, Pause, Stop, Fast Forward, Fast Rewind, Play Backward, Play frame by frame, 1/2/4/8x Speed Control, up to 200X speed control	
	Synchronized Playback	4-channel synchronized playback at the same time	
	Create Snapshots	Creates snapshot images and can be searched as an event index later on	
	Digital Zoom	User may zoom in/out the video display with mouse scroll wheel	
	Export Video	Exports a period of video clips into one AVI file	
Search	Time Sequence Search	Search video clips by date, time, or channel	
	Event Search	Search motion detection, digital input, snapshot event by date, time, channel	
	Time-based Search Bar	The recording and events are displayed with a time-bar, user may click on the bar to start playing the recorded archive	
	Snapshot Viewer	Display snapshots in thumbnail view; user may browse the snapshots then click it to start playback video clip at that time stamp.	
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 protocol supported	
	Preset Position	Goto, set, clear preset positions and patrol on preset positions	
	USB Joystick on PC	Connects joystick on the PC via USB port to control speed dome directly	N/A
Event Handling	Event Types	Handles motion detection, alarm, video loss, network disconnection events	
	Trigger Digital Output	Triggers digital output when certain events (digital I/O or motion detection) occur	
	Hot-Spot Window	Activates and switches the channel with event to the hot-spot window. The original video in the hot-spot window will then 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 "Dismiss" button.	
	E-Mail/FTP Notification	E-Mail/FTP notification with captured snapshot	
	Play audio file	Plays user-defined audio file or beep on the machine	
	Goto PTZ Preset	When event occurs, it requests the speed dome to go to certain PTZ preset position	
	Execute Command	User-defined execution command will be executed.	
e-Map	Scheduled Event*	User may setup a schedule to execute certain operation. For example, generate a snapshot in JPEG and FTP to a site.	
	eMap Manager	eMap configuration and management	
	eMap Monitor	Creates alarm when an event occurs on a certain camera in eMap	
	eMap Tour	Maps can be patrolled and displayed one by one with user-defined dwell time.	
Web Client Function	Remote Preview	Preview via Web browser	N/A
	Remote Playback	Search and playback via Web browser	N/A
	Remote Search	Search certain events via Web browser	N/A
	Remote Map	View map via web browser	N/A
Permission Control	Auto Login	Auto login and load the first preview layout	
	Multi-level Permission	Administrator, Standard User, Guest levels. User may add new User Group for advanced permission control	
	Camera Group Permission	Setup Camera Group permission for different	
	eMap Permission	Setup eMap permission for different users.	

* The features will be implemented in later released bundled application

ACTi NVR v3.0

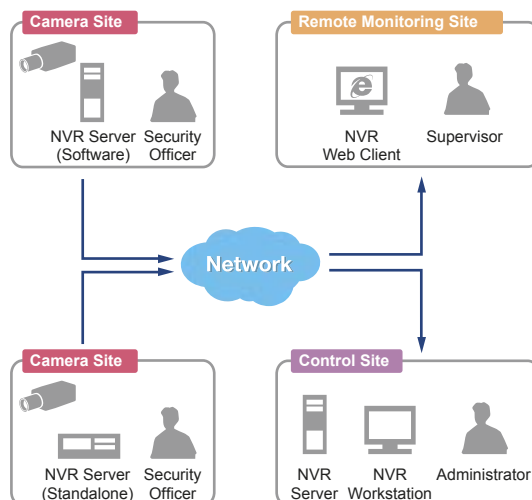
ACTi NVR v3.0



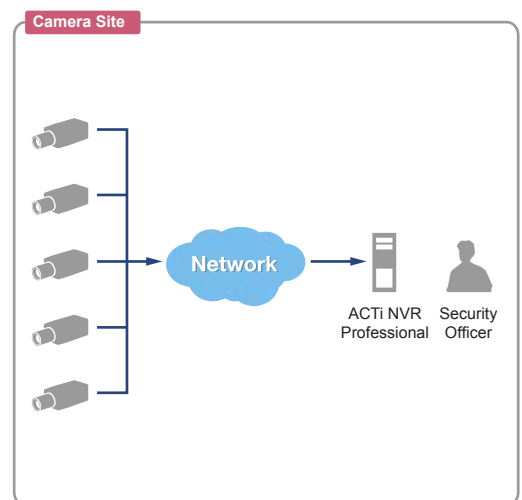
- 1, 4, 6, 8, 9, 10, 16, 25, 36, 49, 64 window layout
- Support Megapixel MPEG-4 / H.264 / MJPEG format
- Customizable logo and user interface
- Multiple-channel live view in full-screen mode
- Support different frame rate on live view and recording*
- Digital zoom on live view and playback
- Schedule, Motion, Alarm and Manual Recording
- Support motion detection and Digital I/O event from hardware
- Search video clips by date, time, event and manual record
- Time-based search bar
- Up to 64 channels synchronized playback
- eMap Manager
- NVR Web Client (available with Enterprise version only) and NVR Workstation
- Tracking Mode*
- Support playback bookmark function. (available with Enterprise version only)
- Burn to DVD directly*
- Export evidence with player into one file
- Support ACTi Emergency Client push video*
- 200x playback speed.

SOLUTION TEMPLATE

NVR Enterprise

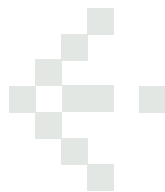


NVR Professional



BUNDLED APPLICATION

Management Utility	
IP Utility	Search, manage devices, upgrade firmware, backup/restore configuration
Snapshot Utility	Create snap shots in JPEG with resized resolution and send via Mail or FTP
Archive Player	Archive playing tool with playback panel and snapshot functions
Media Converter	Converts recorded archives to AVI files
Remote Utility	
Streaming Explorer	Web tool to manage devices remotely, comes with PTZ configuration tool
Trouble-Shooting Utility	
Camera Doctor	Device diagnosis and firmware debug tool
AP Doctor	NVR diagnosis and application debug tool



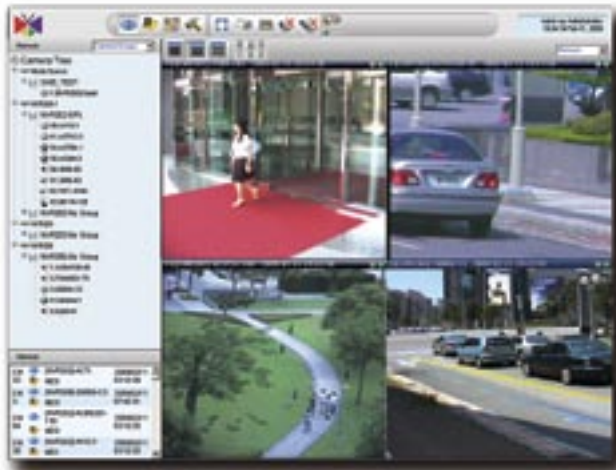
PRODUCT SPECIFICATION

		NVR Enterprise	NVR Professional
System Requirements	PC Specification	16 Channel: Intel Core 2 Duo 2.4GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet 32 Channel: Intel Core 2 Duo 2.67GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet 48 Channel: Intel Core 2 Quad 2.67GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet 64 Channel: Intel Core 2 Quad 2.67GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet	
	Graphic Card	ATI Radeon 1950, nVidia GeForce 8600GT	
	Operating System	Windows XP Professional, Windows 2003, WSS 2003, Windows Vista (Business and Enterprise Edition)	
	Browser	Microsoft Internet Explorer v6.0, v7.0	N/A
System	Format	MPEG-4/H.264/MJPEG	
	Resolution	Megapixel/D1/CIF/QCIF	
	Free License	16	64
	Max. Number of Camera	64	
Live view	CMS support*	Support ACTi CMS	N/A
	Window Layout	1, 4, 6, 8, 9, 10, 16, 25, 36,49,64	
	Manual Record & Snapshot	Manual record on-the-fly and saved in NVR Server, Local. The manual record file can be searched later on.	
	DO Trigger	Trigger DO on-the-fly	
Recording	Patrol Mode	Switches and displays each live view window accordingly. Pre-defined layout can be set to patrol mode as well	
	Sequence Patrol	Carousel Patrol	
	2-way Audio	Supports 2-way audio. User may have 1-to-1 talk or 1-to-many audio broadcast to multiple devices at the same time.	
	Layout Manager	Setup pre-defined window layout to group certain cameras in the same layout. Layout manager can be displayed in full-screen mode.	
Playback	Event Handling	1. Hot spot window when event occurs. 2. Pop-Up window when event occurs. 3. Full screen in current window or display on second monitor when event occurs.	
	Schedule Recording	Record video with user-defined schedule	
	Event Recording	Record video when a digital input event is triggered or motion detected	
	Pre-event Recording*	User-defined time period to record before a certain event occurs.	
Search	Post-event Recording*	User-defined time period to record after a certain event occurs.	
	Playback Mode	Play, Pause, Stop, Fast Forward, Fast Rewind, Play Backward, Play frame by frame, and 1/2/4/8x Speed Control, up to 200X speed control	
	Synchronized Playback	Up to 64 channels synchronized playback at the same time	
	Create Bookmark	Creates bookmark. Bookmark operation: 1. Play from bookmark to bookmark 2. Export from bookmark to bookmark	N/A
PTZ Control	Burn DVD*	Burn evidence to DVD	
	Export Video & Image*	Exports a period of video clips within a file or across several files into AVI, M-JPEG or EXE with OSD on	
	Print/Save Image	Print/save image and create report for evidence	
	Time Sequence Search	Search video clips by date, time, or channel	
e-Map	Event Search	Search motion detection, digital input, bookmark, snapshot event by date, time, channel	
	Time Track Bar	Display video record and event logs in time track bar.	
	Smart Search*	Search video clips with motion occurs in certain region	
	PTZ Management	Manages pan, tilt, zoom operation with speed control	
Web Client Function	Protocol Supported	Pelco-P, Pelco-D, Lilin, Dynacolor, Samsung, Kampro, Sony VISCA, Panasonic protocol supported	
	Preset Position	Goto, set, clear preset positions and patrol on preset positions	
	USB Joystick on PC	Connects joystick on the PC via USB port to control speed dome directly	N/A
	eMap Manager	eMap configuration and management	
Permission Control	eMap Monitor	Creates alarm when an event occurs on a certain camera in eMap	
	eMap Tour	Maps can be patrolled and displayed one by one with user-defined dwell time.	
	Remote Live view	Live view via Web browser	N/A
	Remote Playback	Search and playback via Web browser	N/A
Permission Control	Remote Search	Search certain events via Web browser	N/A
	Remote Map	View map via web browser	N/A
	Auto Login	Auto login and load the first live view layout	
	Multi-level Permission	Administrator, Standard User, Guest levels. User may add new User Group for advanced permission control	
Permission Control	Camera Group Permission	Setup Camera Group permission for different	
	eMap Permission	Setup eMap permission for different users.	

* The features will be implemented in later released bundled application

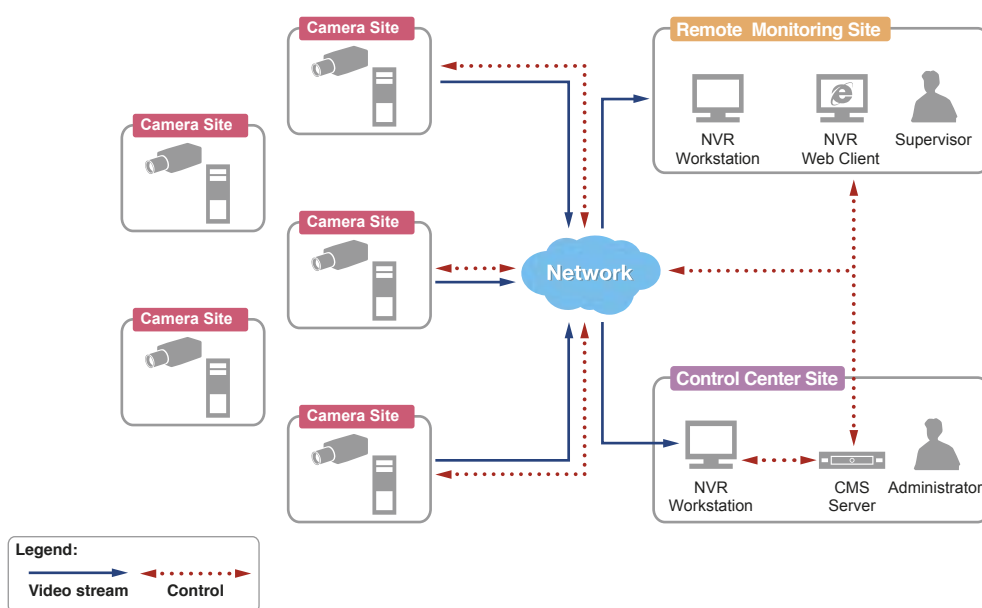
ACTi CMS v1.0

ACTi CMS v1.0



- Manage unlimited NVR Enterprise Servers
- Support 1, 4, 6, 8, 9, 10, 16, 25, 36, 64 window layout
- Support megapixel MPEG-4/H.264/MJPEG format
- Multiple-channel live view in full-screen mode
- Digital zoom on live view and playback
- Support motion detection and digital I/O event from hardware
- Search video clips by date, time and event via different NVR Enterprise servers
- Time-based search bar
- 4-channel synchronized playback via different NVR Enterprise servers
- eMap Manager
- NVR Web Client and NVR Workstation

SOLUTION TEMPLATE



BUNDLED APPLICATION



Management Utility

IP Utility	Search, manage devices, upgrade firmware, backup/restore configuration
Archive Player	Archive playing tool with playback panel and snapshot functions
Media Converter	Converts recorded archives to AVI files



Remote Utility

Streaming Explorer	Web tool to manage devices remotely, comes with PTZ configuration tool
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Trouble-Shooting Utility

Camera Doctor*	Device diagnosis and firmware debug tool
AP Doctor*	NVR diagnosis and application debug tool

ACTi CMS v1.0

PRODUCT SPECIFICATION

System Requirements	
PC Specification	Intel Core 2 Duo 2.67 GHz, 4 GB Memory, 250 GB HDD, Gigabit Ethernet
Graphic Card	ATI Radeon 1950, nVidia GeForce 8600GT
Operating System	Windows XP Professional, Windows 2003, WSS 2003, Windows Vista (Business and Enterprise Edition)
Browser	Microsoft Internet Explorer v6.0, v7.0
Web Server	Microsoft IIS Server
System	
Format	MPEG-4/H.264/MJPEG
Resolution	Megapixel/D1/CIF/QCIF
Max. Number of NVR Site	Unlimited
Max. Number of Client	Unlimited
Max. Number of Camera	Unlimited
Video Decoder*	Support video decoder devices to implement virtual matrix functions
Emergency Client*	Automatically show alarm notification and live video on popup window on manager's PC
NVR Management	Import multiple NVR Enterprise servers
Live View	
Tree Display Panel	User may drag-n-drop to drag a video source to the layout manager for live view
Web Client	Remote live view via Internet Explorer
Window Layout	1,4, 6, 8, 9, 10, 16, 25, 36, 49, 64
Patrol Mode	Switch and display each live view window accordingly. Pre-defined layout can be set to patrol mode as well
2-Way Audio	Support 2-way audio. User may have 1-to-1 talk or 1-to-many audio broadcast to multiple devices at the same time.
Create Snapshots	Create snapshot images on the fly
Advanced Live View Mode	Maximum 64-channel live view at the same time with auto-drop frame mode according to CPU loading
Layout Manager	Setup pre-defined window layout to group certain cameras in the same layout. Layout manager can be displayed in full-screen mode
Digital Zoom	User may zoom in/out the video display with mouse scroll wheel
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.
Live View Window	Display time code on the title bar
Playback	
Playback Mode	Play, Pause, Stop, Fast Forward, Fast Rewind, Play Backward, Play frame by frame, 1/2/4/8x Speed Control
Create Snapshot	Create snapshot image on-the-fly
Export Video*	Export a period of video clip into one AVI file
Synchronous Playback	Multiple-channel synchronous playback at the same time
Record while Playback	When playback a video archive, user may record part of the video archive to a new archive
Search	
Time Sequence Search	Search video clips by date, time, or channel via NVR Enterprise
Event Search	Search motion detection, digital input, snapshot event, manual record by date, time, channel via NVR Enterprise
Thumbnail Image Search	Search video clips with thumbnail image live views
Status Event Search	Search events on video loss / recovery, network disconnect / reconnect, user login / logout, database log with specified date, time, channel via NVR Enterprise
Smart Search*	Search video clips with motion occurs in certain region
Time-based Search Bar	The recording and events are displayed with a time-bar, user may click on the bar to playback the recorded archive
Display Event on Time-based Search	Event will be displayed in schedule recording, event recording or manual recording
Snapshot Viewer	Display snapshots in thumbnail view; user may browse the snapshots and click it to play video clip at the time stamp

PTZ Control	
PTZ Management	Manage pan, tilt, zoom operations with speed control
Protocol Supported	Pelco-P, Pelco-D, Lilin, Dynacolor, Samsung, Kampro, Sony VISCA, Panasonic protocol are supported
Preset Position	Goto, set, clear preset positions and patrol on preset positions
Preset Position Number	32
PTZ Tour	Patrol preset positions with user-defined dwell time
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
USB Joystick on PC	Connects joystick on the PC via USB port to control speed dome directly
Absolute Position	Supports absolute position on CAM-6500 and CAM-6600 series
Event Handling	
Event Types	Handle events of motion detection, alarm, video loss, network disconnection
Event Acknowledgement*	Event would need to be acknowledged by security operator
Trigger Digital Output	Trigger digital output when certain events (digital I/O or motion detection) occur
Hot-Spot Window	Automatically activate and switch a channel to the hot-spot window. Then, the original video in the hot-spot window would be switched over.
Pop-up Window	Mini-live view window would pop up when an event occurs. Pop-up window will be dismissed when user-defined dwell time elapsed or security operator clicks on the "Dismiss" button
Event Log	Triggered event would 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
Goto PTZ Preset	When event occurs, it requests the speed dome to go to certain PTZ preset position
Execute Command	User-defined execution commands would be executed
Scheduled Event*	User may setup a schedule to execute certain operation. e.g. generate a snapshot in JPEG and FTP to a site
eMap	
eMap Manager	eMap configuration and management
eMap Monitor	Create alarm when an event of a certain camera occurs on eMap
Live View-All Mode	Display map with all cameras live view on. When double-click on the video, original video resolution and frame rate will be brought up. Mouse PTZ is set to on as default
eMap Tour	Maps can be patrolled and displayed one by one with user-defined dwell time
NVR Web Client Function	
Resizable Live View Window	User may choose 1 of 3 different live view window size
Remote Live View	Live view via Web browser
Remote Playback	Search and playback via Web browser
Remote Search	Search certain events via Web browser
Remote Map	View map via Web browser
Permission Control	
Multi-level Permission	Administrator, Standard User, Guest levels. User may add new User Group for advanced permission control
Security	Account/password defined with associated permission control
Camera Group Permission	Setup Camera Group permission for different users
eMap Permission	Setup eMap permission for different users
Record	
Manual record	Manual record on-the-fly and record to NVR Enterprise

* The features will be implemented in later released bundled application



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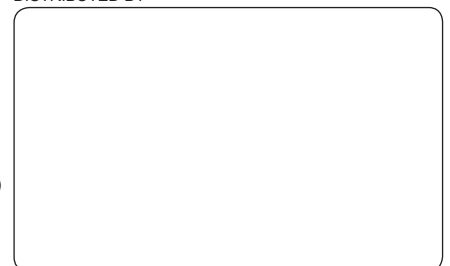
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