

2012-2013 SELECTION GUIDE

ALWAYS FOCUSED, ALWAYS CLEAR



Hemispheric Camera

Fixed Indoor Dome Camera

KCM Series

D Series

E Series



Full HD
1080P



Full HD
1080P



HD



HD



HD



Full HD
1080P



Full HD
1080P

Model Name	KCM-3911	KCM-7911	D51	E51	E52	E53	E54
Resolution	4M	4M	1M	1M	1M	3M	5M
Application Environment	Indoor	Outdoor	Indoor	Indoor	Indoor	Indoor	Indoor
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Lens	Fisheye lens, 1.05mm/ F2.8; Fixed iris; Fixed Focus	Fisheye lens, 1.05mm/ F2.8; Fixed iris; Fixed Focus	Fixed focal lens, f3.6mm / F2.0, Fixed iris	Fixed focal lens, f2.8mm/ F2.0, Fixed iris	Fixed focal lens, f3.6mm/ F1.8, Fixed iris	Fixed focal lens, f3.6mm/ F1.8, Fixed iris	Fixed focal lens, f3.6mm/ F1.8, Fixed iris
Horizontal Viewing Angle	180°	180°	61°	77.5°	60.2°	72°	72°
Viewing Angle Adjustment	N/A	N/A	Pan: 0°-330°, Tilt: 0°-180°	Pan: 0°-330°, Tilt: 0°-180°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°
Lens Mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount
Day / Night	Yes	Yes	No	No	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	No	No	Yes	Yes	Yes
IR LED	No	No	No	No	Yes	Yes	Yes
Minimum Illumination	Color: 1.63 lux at F2.8 B/W : 0.06 lux at F2.8	Color: 1.63 lux at F2.8 B/W : 0.06 lux at F2.8	Color: 0.1 lux at F2.0	Color: 0.1 lux at F2.0	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)
Wide Dynamic Range	Advanced WDR	Advanced WDR	No	Basic WDR	Basic WDR	Basic WDR	Basic WDR
Digital Noise Reduction	2D+3D DNR	2D+3D DNR	DNR	DNR	DNR	DNR	DNR
Maximum Frame Rate at Maximum Resolution	6 fps at 2032 X 1920	6 fps at 2032 X 1920	30 fps at 1280 x 720	30 fps at 1280 x720	30 fps at 1280 x720	15 fps at 2048 x 1536	15 fps at 2592 x 1944
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 6 cropped VGA mode		Simultaneous dual streams based on two configurations				
Audio	2-way	2-way	No	No	No	No	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	2/2	2/2	No	No	No	No	No
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2
Mount Type	Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Ceiling	Surface, Pendant, Wall, Corner, Pole, Flush**				
Environmental Casing	N/A	Weatherproof (IP66 rated)	No	No	No	No	No
Operating Temperature	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-30 °C ~ 50 °C (-22 °F ~ 122 °F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)
Approvals	CE, FCC	CE, FCC, IP 66	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Other Value-added Features	Mode: 180° / 360° Panorama, ePTZ, 6 VGA, Motion Detection Preset ; Defogging, local storage						

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

** Flush mount is identical to in-ceiling mount

Fixed Indoor Dome Camera

Vari-Focal Indoor Dome Camera

Indoor Dome Camera with Zoom Lens

ACM Series

TCM Series

TCM Series

KCM Series



HD



HD



HD








Full HD
1080P

Model Name	ACM-3701E	TCM-3111	TCM-3511	KCM-3311
Resolution	1.3M	1.3M	1.3M	4M
Application Environment	Indoor	Indoor	Indoor	Indoor
Compression	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Zoom Ratio	No	No	No	3.6x optical
Lens	Fixed focal, f3.6 mm/ F1.8, Fixed iris	Fixed focal lens, f4.2mm/ F1.8, Fixed iris	Vari-focal lens, f3.3- 12 mm/ F1.6, Fixed iris	Zoom, f3.3 - 12 mm/ F1.4 ~ 2.9; P-Iris
Horizontal Viewing Angle	72.3°	68.15°	78.1° - 23.1°	77.22° - 22.62°
Viewing Angle Adjustment	Pan: ± 20°, Tilt: 0° - 90°, Rotate: ± 15°	Pan: 0°-170°, Tilt: 0°-180°	Pan: 0° - 330°, Tilt: 30° - 90°	Pan: 0° - 360°, Tilt: 0° - 180°, Rotate: 0° - 360°
Lens Mount	Board mount	Board mount (interchangeable lens)	Board mount	Board Mount
Day / Night	No	Yes (Electronic)	Yes	Yes
Mechanical IR Cut Filter	No	No	Yes	Yes
IR LED	No	No	Yes	No
Minimum Illumination	Color: 0.5 lux at F1.0, B/W: 0.5 lux at F1.0	Color: 0.5 lux at F1.0, B/W: 0.5 lux at F1.0	Color: 0.5 lux at F1.0, B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.4, B/W : 0.05 lux at F1.4
Wide Dynamic Range	No	No	Basic WDR	Advanced WDR
Digital Noise Reduction	No	No	No	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	8 fps at 1280 x 1024	18 fps at 1280 x 1024	18 fps at 1280 x 1024	8 fps at 2032 X 1920
Multi-Streaming	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Audio	No	No	2-way	No
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	1/1	No
Power Source	Rugged RJ-45 PoE Class 3	PoE Class 2	DC 12V; PoE Class 3	PoE Class 3
Mount Type	Surface	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**
Operating Temperature	-10 °C ~ 40 °C (14 °F ~ 104 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10 °C ~ 50 °C (14 °F ~ 122 °F)	-10°C ~ 50°C (14°F ~ 122°F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Lens Option		PLEN-0121		
Other Value-added Features				Defogging

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

** Flush mount is identical to in-ceiling mount

	Fixed Outdoor Dome	Vari-Focal Outdoor Dome			Outdoor Dome with Zoom Lens
	KCM Series	ACM Series	TCM Series		KCM Series
	 Full HD 1080P	 HD	 HD	 HD	 Full HD 1080P
Model Name	KCM-7111	ACM-7411	TCM-7411	TCM-7811	KCM-7311
Resolution	4M	1.3M	1.3M	1.25M	4M
Application Environment	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CCD	Progressive Scan CMOS
Zoom Ratio	No	No	No	No	3.6x optical
Lens	Fixed focal, f2.8 mm / F2.0, Fixed iris	Vari-focal, f3.3 - 12 mm/ F1.6, Fixed iris	Vari-focal, f3.3 - 12 mm/ F1.6, Fixed iris	Vari-focal, f3 - 9 mm/ F1.2, DC iris	Zoom, f3.3 - 12 mm / F1.4 ~ 2.9, P-Iris
Horizontal Viewing Angle	82.59°	83° - 23.8°	78.4° - 23.1°	85.8° - 30.3°	77.22° - 22.62°
Viewing Angle Adjustment	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°**	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°**	Pan: 0°-360°, Tilt: 10°-90°, Rotate: 0°-360°	Pan: 0°-360°, Tilt: 0°-180°, Rotate: 0°-360°
Lens Mount	CS Mount	Board Mount	Board Mount	Board Mount	Board Mount
Day / Night	Yes	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes
IR LED	No	No	No	Yes	No
Minimum Illumination	Color: 0.1 Lux at F2.0, B/W : 0.05 Lux at F2.0	Color: 0.5 lux at F1.0, B/W: 0.05 lux at F1.0	Color: 0.5 lux at F1.0, B/W: 0.05 lux at F1.0	Color: 0.15 lux at F1.2, B/W: 0 lux (IR LED on)	Color: 0.1 Lux at F1.4, B/W : 0.05 Lux at F1.4
Wide Dynamic Range	No	No	Basic WDR	No	Advanced WDR
Digital Noise Reduction	No	No	No	No	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	8 fps at 2032 X 1920	8 fps at 1280 x 1024	18 fps at 1280 x 1024	15 fps at 1280 x 960	8 fps at 2032 X 1920
Multi-Streaming	Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations		Simultaneous dual streams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode
Audio	2-way	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	2/2	1/1	1/1	1/1	2/2
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**
Environmental Casing	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof	Weatherproof (IP66 rated) ; Vandal proof
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) with DC 12V; -5°C ~ 50°C (23°F ~ 122°F) with PoE	-30°C ~ 50°C (-22°F ~ 122°F) with DC 12V; -5°C ~ 50°C (23°F ~ 122°F) with PoE	-30°C ~ 50°C (-22°F ~ 122°F) with DC 12V; -5°C ~ 50°C (23°F ~ 122°F) with PoE	-30 °C ~ 50 °C (-22 °F ~ 122 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66, IK10	CE, FCC, IP66
Other Value-added Features	Local storage			Local storage	Defogging; Local storage

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

** Flush mount is identical to in-ceiling mount

Fixed Bullet Camera

Vari-Focal Bullet Camera

E Series

TCM Series

TCM Series



HD



Full HD
1080P



Full HD
1080P



HD



HD

Model Name	E31	E32	E33	TCM-1111	TCM-1231
Resolution	1M	3M	5M	1.3M	1.3M
Application Environment	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Lens	Fixed focal lens, f4.2mm / F1.8, Fixed iris	Fixed focal lens, f4.2mm / F1.8, Fixed iris	Fixed focal lens, f4.2mm / F1.8, Fixed iris	Fixed focal, f4.2mm/ F1.8, Fixed iris	Vari-focal, f3.3 - 12 mm / F1.6, Fixed iris
Horizontal Viewing Angle	55.9°	64.1°	64.1°	64.7°	76.5° - 21.7°
Lens Mount	Board mount	Board mount	Board mount	Board Mount	Board mount
Day / Night	Yes	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes
IR LED	Yes	Yes	Yes	Yes	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.1 lux at F1.8 B/W: 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W: 0 lux (IR LED on)	Color: 0.5 lux at F1.0 B/W: 0 lux (IR LED on)
Wide Dynamic Range	Basic WDR	Basic WDR	Basic WDR	No	Basic WDR
Digital Noise Reduction	DNR	DNR	DNR	No	No
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	15 fps at 2048 x 1536	15 fps at 2592 x 1944	18 fps at 1280 x 1024	18 fps at 1280 x 1024
Multi-Streaming	Simultaneous dual streams based on two configurations				Simultaneous dual streams based on two configurations
Audio	No	No	No	No	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	No	No	1/1
Power Source	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 3	DC 12V; PoE Class 3
Bundled Accessories	Bracket	Bracket	Bracket	No	No
Mount Type	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole
Environmental Casing	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)	Weatherproof (IP66 rated)
Operating Temperature	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)	-20 °C ~ 50 °C (-4 °F ~ 122 °F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66
Bracket Option	PMAX-1103	PMAX-1103	PMAX-1103	PMAX-1103	PMAX-1103

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

Box Camera with Fixed and Vari-Focal Options

E Series

TCM Series

Box Camera with Zoom Lens

KCM Series



HD



Full HD
1080P



HD



Full HD
1080P



Full HD
1080P











Full HD
1080P



Full HD
1080P

Model Name	E21	E22	TCM-5111	KCM-5511	KCM-5611	KCM-5211	KCM-5211E
Resolution	1M	5M	1.3M	2M	2M	4M	4M
Application Environment	Indoor/Outdoor*	Indoor/Outdoor*	Indoor / Outdoor*	Outdoor	Outdoor	Indoor	Outdoor
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Zoom Ratio	No	No	No	22x optical	18x optical	18x optical	18x optical
Lens	Bundled Fixed focal lens, f4.2mm/ F1.8; Fixed Iris; Compatible fixed and vari- focal DC-iris lenses available	Bundled Fixed focal lens, f2.8mm/ F2.0; Fixed Iris; Compatible fixed and vari- focal DC-iris lenses available	Bundled Fixed focal lens, f4.2mm/ F1.8; Fixed Iris; Compatible manual Iris lenses available	Zoom, f3.2 ~ 70.4mm / F1.6 - F3.8, DC Iris	Zoom, f4.7 ~ 84.6mm / F1.6 ~ 2.8, DC Iris		
Horizontal Viewing Angle	57.8°	81.6°	64.4°	57.14° ~ 2.98°	48.94° - 3.61°	48.94° - 3.61°	48.94° - 3.61°
Lens Mount	CS mount (interchangeable lens)			Board Mount	Board Mount	Board Mount	Board Mount
Day / Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR LED	No	No	No	Yes	Yes	No	Yes
Minimum Illumination	Color: 0.1 lux at F1.8 B/W: 0.05 lux	Color: 0.1 lux at F1.8 B/W: 0.05 lux	Color: 0.5 lux F1.0 B/W : 0.05 lux F1.0	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)	Color: 0.1 lux at F1.6 B/W: 0.05 lux at F1.6	Color: 0.1 lux at F1.6 B/W : 0 lux (IR LED on)
Wide Dynamic Range	Basic WDR	Basic WDR	No	Advanced WDR	Advanced WDR	No	Advanced WDR
Digital Noise Reduction	DNR	DNR	No	2D+3D DNR	2D+3D DNR	No	2D+3D DNR
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	15 fps at 2592 x 1944	18 fps at 1280 x 1024	15 fps at 1920 X 1080	15 fps at 1920 x 1080	8 fps at 2032 X 1920	8 fps at 2032 X 1920
Multi-Streaming	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations	Simultaneous dual steams based on two configurations in single view mode; Multiple streams based on single configuration in 4 cropped VGA mode	
Audio	No	No	No	2-way	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour			TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTp, FTP, UPnP, SNMP, Bonjour, Pelco-D			
Digital Input/Output	No	No	No	2/2	2/2	2/2	2/2
Power Source	PoE Class 2	PoE Class 2	PoE Class 2	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	Optional housing (IP66 rated)		Optional housing (IP66 rated)	Weatherproof (IP66 rated)		N/A	Weatherproof (IP66 rated)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC, IP66	CE, FCC, IP66	CE, FCC	CE, FCC, IP66
Lens Option	PLEN-0119	PLEN-0101	PLEN-0202				
Bracket Option	PMAX-1100	PMAX-1100	PMAX-1100	PMAX-1101	PMAX-1101	PMAX-1100	PMAX-1101
Other Value-added Features				Local storage, Defogging	Local storage, Defogging	Local storage	Local storage, Defogging

* Outdoor application requires weatherproof housing

	Fixed Cube Camera		Fixed Cube Camera with Vari-Focal Option			PTZ Camera		SpeedDome Camera
	D Series	TCM Series	E Series			ACM Series	KCM Series	TCM Series
	 HD	 HD	 HD	 Full HD 1080P	 Full HD 1080P		 Full HD 1080P	
Model Name	D11	TCM-4511	E11	E12	E13	ACM-8511	KCM-8111	TCM-6630
Resolution	1M	1.3M	1M	3M	5M	D1	2M	D1
Application Environment	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor
Compression	H.264 High Profile, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Interlaced Scan CCD	Progressive Scan CMOS	Interlaced Scan CCD
Zoom Ratio	No	No	No	No	No	10x optical; 10x digital	18x optical	36x optical; 12x digital
Lens	Fixed focal lens, f3.6mm / F2.0, Fixed iris	Bundled Fixed focal, f4.2 mm / F1.8; Fixed iris; Compatible manual iris lenses available	Fixed focal lens, f4.2mm / F1.8, Fixed iris; Compatible vari-focal lenses available	Bundled Fixed focal lens, f2.8mm/ F2.0; Fixed Iris; Compatible vari-focal lenses available	Bundled Fixed focal lens, f2.8mm/ F2.0; Fixed Iris; Compatible vari-focal lenses available	Zoom, f4.2 - 42 mm / F1.8 -2.9, Auto Iris	Zoom, f4.7~84.6mm / F1.6 -2.8, DC Iris	Zoom, f3.4 - 122.4 mm / F1.6 -4.5, Auto Iris
Horizontal Viewing Angle	61°	69.2°	57.8°	81.6°	81.6°	48.5° - 5°	48.94° - 3.61°	57.8° - 1.7°
Lens Mount	Board mount	CS mount (interchangeable lens)	CS mount (interchangeable lens)	CS mount (interchangeable lens)	CS mount (interchangeable lens)	N/A	Board mount	N/A
Day / Night	No	Yes (Electronic)	No	No	No	Yes	Yes	Yes
Mechanical IR Cut Filter	No	No	No	No	No	No	Yes	Yes
IR LED	No	No	No	No	No	No	No	No
Minimum Illumination	Color: 0.1 lux at F2.0	Color: 0.5 lux at F1.0; B/W: 0.5 lux at F1.0	Color: 0.1 lux at F1.8	Color: 0.1 lux at F1.8	Color: 0.1 lux at F1.8	Color: 2.5 lux at F1.8; B/W: 0.07 lux at F1.8	Color: 0.1 lux at F1.6; B/W: 0.05 lux at F1.6	Color: 0.1 lux at F1.4; B/W: 0.01 lux at F1.4
Wide Dynamic Range	No	No	Basic WDR	Basic WDR	Basic WDR	No	Advanced WDR	Superior WDR
Digital Noise Reduction	DNR	No	DNR	DNR	DNR	No	2D+3D DNR	2D+ 3D DNR
Maximum Frame Rate at Maximum Resolution	30 fps at 1280 x 720	18 fps at 1280 x 1024	30 fps at 1280 x 720	15 fps at 2048 x 1536	15 fps at 2592 x 1944	30 fps at 720 x 480 (NTSC) 25 fps at 720 x 576 (PAL)	15 fps at 1920 x 1080	30 fps at 720 x 480 (NTSC) 25fps at 720 x 576 (PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations		Simultaneous dual streams based on two configurations			Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Simultaneous dual streams based on two configurations
Audio	No	No	2-way, built-in microphone	2-way, built-in microphone	2-way, built-in microphone	2-way	2-way	2-way
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Digital Input/Output	No	No	No	No	No	1/1	2/2	8/1 ***
Power Source	PoE Class 1	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	DC 12V; PoE Class 3	DC 12V; High PoE	AC 24V
Bundled Accessories	Bracket	Bracket	Bracket	Bracket	Bracket	No	Power adapter	Power adapter
Mount Type	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Surface, Pendant, Wall, Corner, Pole, Flush**	Surface, Pendant, Wall, Corner, Pole, Flush**	Pendant, Wall, Corner, Pole
Environmental Casing	No	No	No	No	No	No	No	Weatherproof (IP66 rated)
Operating Temperature	-10°C~ 45° C (14°F~ 113°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C~ 45° C (14°F~ 113°F)	-10°C~ 45° C (14°F~ 113°F)	-10°C~ 45° C (14°F~ 113°F)	0°C ~ 45°C (32°F ~ 113°F)	-10°C ~ 45°C (14°F ~ 113°F)	-45°C ~ 50°C (-49°F ~ 122°F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC, IP66
Lens Option		PLEN--0201, PLEN0202	PLEN-0119	PLEN-0101	PLEN-0101	No	No	No
Other Value-added Features						Panning Range: 0° ~ 354°; Tilting Range : -25° ~ 90°	Panning Range: 360° (with Auto-flip) ; Tilting Range:-10° ~ 190°	Panning Range: 0°~ 360° endless; Tilting:-10° ~ 190°

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

** Flush mount is identical to in-ceiling mount

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

Video Encoders

1 Channel	4 Channel	8 Channel	16 Channel
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Model Name	TCD-2100	ACD-2100	TCD-2500	ACD-2000Q	ACD-2300	ACD-2400
Compression	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG	MPEG-4 SP, MJPEG
Maximum Frame Rate at Maximum Resolution	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	> Quad mode / Sequential mode: 30 fps at 720 x 480 (D1 NTSC) 25 fps at 720 x 576 (D1 PAL) > Single mode: 7 fps at 720 x 480 (D1 NTSC) 7 fps at 720 x 576 (D1 PAL)*	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)	30 fps at 720 x 480 (D1, NTSC) 25 fps at 720 x 576 (D1, PAL)
Multi-Streaming	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Simultaneous dual streams based on two configurations	Multiple streams based on single configuration	Multiple streams based on single configuration (per channel)	Multiple streams based on single configuration (per channel)
Wide Dynamic Range	No	No	Yes	No	No	No
Audio	No	2-way	2-way	2-way	2-way (per channel)	2-way (per channel)
Network Protocol & Service	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*	TCP, UDP, HTTP, RTP, DDNS, etc.*
Analog Video Input	BNC x 1	BNC x 1	BNC x 1	BNC x 4	BNC x 8	BNC x 16
Analog Video Output	No	BNC x 1	BNC x 1	No	No	No
Digital Input/Output	1/1	2/2	2/1	2/2	2/2 (per channel)	2/2 (per channel)
Serial Port	RS-485/422/232	RS-485/422/232	RS-485/422/232	RS-485/422/232	RS-485/422/232 (per channel)	RS-485/422/232(per channel)
Local Storage	No	No	2.5" HDD slot (Hard Disk not included)	No	No	No
Power Source	DC 12V	DC 12V	DC 12V	DC 12V	AC 100 - 240V	AC 100 - 240V
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)
Extended Temperature -30°C ~ 70°C (-22°F ~ 158°F)	No	Yes (ACD-2100T)	No	Yes (ACD-2000QT)	No	No
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Video Decoder

1 Channel



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

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

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



Software NVR


		NVR 2.3 Professional	NVR 2.3 Enterprise	NVR 3.0
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General	Maximum Number of Cameras	64	64	64
	Maximum Number of Clients	1 (local)	Unlimited	Unlimited
	Free License	64	16	16
	Compression	H.264, MPEG-4, MJPEG		
Recording	Scheduled Recording	Record video with user defined schedule		
	Event Recording	Record video when the alarm event is triggered, including the pre-event buffered video clip		
	Manual Recording	Instant recording upon mouse click		
	Speed up	N/A		Different recording frame rate settings for non-event and triggered event
	Dual Stream Management	Recording of stream 1 or stream 2 of series dual stream devices		
Live View	Display Layout Mode	1, 4, 6, 8, 9, 12, 16, 36,49, 64		4:3 monitor: 1, 4, 5, 6, 8, 9, 10, 16, 25, 36, 49, 64 ; 16:9 wide screen monitor: 1, 4, 6, 9, 12, 18, 24, 35, 48, 64
	Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons		Zoom in/out digitally by PiP (Picture-in-Picture)
	Camera Tree	Drag and drop video source from camera tree into display layout		Drag and drop video source from camera tree into display layout; display camera status on the tree
	Manual Recording / Snapshot	Instant recording upon mouse click / Instant snapshot upon mouse click or hot key		
	Event Panel	Display event status upon alarm or when the allocated disk space is full	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full	Display event status upon alarm or upon connection loss or recovery
	Dual Stream Management	Live view of stream 1 or stream 2 dual stream devices		
	Instant Playback	N/A		Instant playback in live view window
PTZ	Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls		
	Preset Points and Tours	Create preset points; create auto tours between preset points		
	Number of Preset Points	32		32
Playback	Playback Control	Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop		Continuous forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
	Synchronized Playback	4 channels		Up to 64 channels
	Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons		Zoom in/out digitally by PiP (Picture-in-Picture)
Client Access	PC Client Program	N/A	User interface program (Workstation) with live view, PTZ, playback, e-map, event management, setup	User interface program (Workstation) with live view, PTZ, playback, e-map, event management, setup
	PC Web Browser	N/A	Microsoft Internet Explorer 8.0 or 9.0 with live view, PTZ, playback, e-map, event management, setup	Microsoft Internet Explorer 8.0 or 9.0 with live view, PTZ, playback, event management, setup
	Mobile Client Program	N/A	N/A	Mobile device application supporting live view and playback. Supported devices: iPhone, iPad, iPod
Event Management	Event Trigger	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery		Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery; Server loss and recovery; Disk full; Disk not found
	Event Response	Record video; Pop-up window with live video; Switch to hotspot window; Play alert audio file or beep; Activate external device through digital output; Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots; Event logging		Record video; Pop-up window with live video; Switch to hotspot window; Play beep sound; Activate external device through digital output; Upload snapshot to FTP server; Execute system command to activate other programs; E-mail notification with snapshots; Command a PTZ device to go to a preset point
	Manual Event	Manually activate external devices through digital output via live view monitor		
	Scheduler	N/A		Define the schedule of event manager
System	Permission Control	Unlimited number of users, multi-level permission, camera group permission, e-Map permission for different users		Unlimited number of users, multi-level permission, Active Directory
	Customizable User Interface	N/A		Define the layout of user interface for live view and playback
	Quick Setup	N/A		Configure basic settings of NVR

Centralized Management

CMS 1.1		
General	Maximum Number of Cameras	Unlimited
	Maximum Number of Clients	Unlimited
	Compression	H.264, MPEG-4, MJPEG
Live View	Display Layout Mode	1, 4, 6, 8, 9, 12, 16, 36, 49, 64
	Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons
	Camera Tree	Drag and drop video source from camera tree into display layout
	Manual Recording / Snapshot	Instant recording to NVR Enterprise Server upon mouse click / Instant snapshot upon mouse click
	Event Panel	Display event status upon alarm or upon connection loss or recovery between server and client or when the allocated disk space is full
	Dual Stream Management	Live view of stream 1 or stream 2 dual stream devices
PTZ	Control	Pan, tilt and zoom controls; speed control; both buttons and overlay controls
	Preset Points and Tours	Activate NVR preset points or auto tours between preset points
Playback	Playback Control	Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop
	Synchronized Playback	4 channels
	Digital Zoom	Zoom in/out digitally by mouse scroll wheel or by zoom control buttons
Client Access	PC Client Program	User interface program (Workstation) with live view, PTZ, playback, e-map, event management, setup
	PC Web Browser	Microsoft Internet Explorer 8.0 or 9.0 with live view, PTZ, playback, e-map, event management, setup
	Mobile Client Program	N/A
Event Management	Event Trigger	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery
	Event Response	Pop-up window with live video; Switch to hotspot window; Play alert audio file or beep
	Manual Event	Manually activate external devices through digital output via live view monitor
System	Permission Control	Unlimited number of users, multi-level permission, user group permission, e-Map permission for different users

Standalone NVR

ENR-1000		
		
General	Maximum Number of Cameras	4
	Maximum Number of Clients	2
	Video Resolution	Up to 2-Megapixel
Recording	Compression	H.264
	Recording Throughput	4 channels at 1080p / 30 fps
	Recording Bit Rate	Maximum 16 Mbps
Live View	HDD Interface	Maximum 2 SATA disks
	Display Layout Mode	1, 4
PTZ	Live View Throughput	4 channels at 1080p / 25 fps
	Control	Pan, tilt, and zoom controls; speed control
Playback	Preset Points and Tours	32; Auto tours between preset points
	Playback Control	Forward and backward playback with speed 1/8x-1x-32x; pause; stop
	Synchronized Playback	4
Client Access	Video Export	AVI or RAW format via USB mass storage
	Local Access	HDMI monitor, USB mouse
Event Management	Remote Access	Microsoft Internet Explorer 8.0 or 9.0
	Event Trigger	Video motion detection; External device through digital input; Video loss and recovery; Network loss and recovery
System	Event Response	Record video; Play alert beep; Activate external device through digital output; E-mail notification with snapshots; Event logging; Go to PTZ preset point
	Operating System	Embedded Linux
Hardware	Local Export	Via USB mass storage
	Dimensions (W x H x D)	135mmx 121mm x241mm (5.3" x 4.8" x 9.5")
	Weight	1.33Kg (2.93 lb) without HDD
	Operating Temperature	0 °C~ 40 °C (32 °F ~ 104 °F)
	Operating Humidity	10%~85% RH
	Power Source/Consumption	100V~240V AC 60Hz / 60W
System	Approvals	CE, FCC (Part 15B Class A) , TBC
	USB	2, USB 2.0
	Ethernet Port	2, Ethernet (1000 Base-T) , RJ45 connector Built-in DHCP server on LAN port
Display Port	HDMI	

Lens Selection Table

ACTI P/N		PLEN-0101	PLEN-0119	PLEN-0121	PLEN-0201	PLEN-0202
Size		1/3"	1/3.2"	1/3"	1/3"	1/3"
Mount		CS	CS	Board	CS	CS
Type (IR Compatible)		IR	IR	IR	Normal	IR
IRIS		Fixed	Fixed	Fixed	Manual	Manual
Aperture (F)		1.8	2	2	1.2	1.6
Focal Length (mm)		4.2	2.8	2.8	2.4~6	2.8~12
Products - Field of View (HOR) (°)	E11		72°	58.6°		
	E12	62°				
	E13	62°				
	E21		72°	58.6°		
	E22	62°				
	TCM-3111			92.5°		
	TCM-4511				113.4°~46°	94°~25.5°
	TCM-5111					91.1°~22.9°

Housing & Brackets

Outdoor Housing			Camera Bracket			
ACTI P/N	PMAX-0200	PMAX-0201	PMAX-0202	PMAX-1100	PMAX-1101*	PMAX-1103
Applied Model	E21, E22,, TCM-5111		E21, E22, TCM-5111	E21, E22, TCM-5111, KCM-5111, KCM-5211	KCM-5211E, KCM-5511, KCM-5611	E31, E32, E33, TCM-1111, TCM-1231

Camera Installation Kit

PMON-1001

Camera Installation Kit PMON-1001 is a light on-the-belt hardware utility that connects to the IP camera through a short PoE supported network cable while providing wireless network access for iPhone or iPod Touch that has a free app "CameraGo!" install. With the help of this installation kit it is possible to do convenient and time-saving viewing angle and focus adjustment of ACTi cameras without needing to bring a notebook computer up on the ladder with the long cable attached or ask someone on the ground for assistance.

Universal Power Adapter

PPBX-0002

4 different connectors included: 2 flat blades, 2 round pins, 3 flat blades UK type plug & blique flat blades for DC 12V supported cameras

Popular Mounting Solution for Dome Camera

Surface	Accessories not required	
Wall	PMAX-0308	
Pendant	PMAX-0101 PMAX-0103	
Corner	PMAX-0101 PMAX-0303 PMAX-0402	
Pole	PMAX-0101 PMAX-0303 PMAX-0502	
Flush	PMAX-1003 PMAX-1006**	

Popular Mounting Solution for Hemispheric Camera

Flush	PMAX-1009	
Wall	PMAX-0310*** PMAX-0802****	
Pendant	PMAX-0101 PMAX-0103	
Pole	PMAX-0310 PMAX-0502	

Popular Mounting Solution for Box Camera

Wall	PMAX-1101	
Corner	PMAX-1101 PMAX-0402	
Pole	PMAX-1101 PMAX-0502	

* For Outdoor Housing

** For Outdoor Dome

*** For KCM-3911

**** For KCM-7911

For more mounting solutions, please refer to Mounting Accessory section of Buyer's Guide or Project Planner on www.acti.com



www.acti.com

ACTi Corporation

As the technology leader in IP surveillance, ACTi not only provides IP cameras but also develops and offers NVR recording platforms in both Software or Hardware versions. Integrators also have the freedom to use ACTi IP cameras with many VMS solutions on the market, or utilize a unified ACTi solution (cameras + recording platform) as well. ACTi offers a complete range of IP cameras in 1~5 Megapixel resolutions. All cameras include an ISP designed and manufactured by ACTi with many different lens options available. Be assured that the video is always clear and the focus is always precise, even in low light applications. Excellent quality video anytime and anywhere by ACTi!

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