













# 2014 SELECTION GUIDE

Perfect Combination of Price, Quality & Specification

January 10, 2014




























	Fixed Indoor Dome					Fixed Indoor Dome with WDR							
													
Model	D51	D52	D54	D55	TCM-3111	E51	E52	E53	E54	B51	B52	B53	
Maximum Resolution	1MP	3MP	1MP	3MP	1.3MP	1MP	1MP	3MP	5MP	5MP	10MP	3MP	
Application Environment	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	Indoor	
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	
Day / Night	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	
Superior Low Light Sensitivity	No	No	No	No	No	No	No	No	No	No	No	No	
Minimum Illumination	Color: 0.1 lux at F2.0	Color: 0.1 lux at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.5 lux, B/W: 0.5 lux at F1.0	Color: 0.1 lux at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.8	
Mechanical IR Cut Filter	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	
IR LED	No	No	Yes	Yes	No	No	Yes	Yes	Yes	Yes (Adaptive)	Yes (Adaptive)	Yes (Adaptive)	
Lens	Fixed focal, f3.6mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f4.2mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f2.8mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f1.9mm / F2.8, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f1.9mm / F2.8, Fixed iris, Fixed focus	
Viewing Angle Adjustment	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°-170°, Tilt: 0°-180°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-330°, Tilt: 20°-90°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	
Lens Mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	
Horizontal Viewing Angle	60.2°	70.8°	60.6°	72.0°	68.2°	77.5°	60.0°	72.0°	72.0°	129.56°	102°	129.56°	
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	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	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	18 fps at 1280 x 1024 26 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2592 x 1944 15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	6 fps at 3648 x 2736 6 fps at 2592 x 1944 6 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	
Wide Dynamic Range	No	No	No	No	No	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (65.2 dB)	Superior WDR (107 dB)	
Digital Noise Reduction	No	No	DNR	DNR	No	DNR	DNR	DNR	DNR	DNR	DNR	DNR	
Audio	No	No	No	No	No	No	No	No	No	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	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	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	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	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	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	
Digital Input/Output	No	No	No	No	No	No	No	No	No	1/1	1/1	1/1	
Local Storage	No	No	No	No	No	No	No	No	No	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	
Power Source	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	DC 12V; PoE Class 2	DC 12V; PoE Class 2	Vandal Resistant (IK09)	
Environmental Casing	No	No	No	No	No	No	No	No	No	Vandal Resistant (IK09)	Vandal Resistant (IK09)	Vandal Resistant (IK09)	
Bundled Accessories	No	No	No	No	No	No	No	No	No	No	No	No	
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	
Client PC Operating System	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	
PC Web Browser	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	
Starting 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)	-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)	-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)	
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)	-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)	-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	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC, IK09	CE, FCC, IK09	CE, FCC, IK09	












	Fixed Outdoor Dome			Fixed Outdoor Dome with WDR				Vari-Focal Outdoor Dome		
										
Model	D71	D72	KCM-7111	E71	E72	E73	E74	D81	D82	ACM-7411
Maximum Resolution	1MP	3MP	4MP	1MP	3MP	5MP	3MP	1MP	3MP	1.3MP
Application Environment	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Day / Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Superior Low Light Sensitivity	No	No	Yes	No	No	No	No	No	No	No
Minimum Illumination	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0	Color: 0.1 lux, B/W: 0.05 lux at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F2.0	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.4	Color: 0.5 lux, B/W: 0.05 lux at F1.0
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR LED	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	No
IR Working Distance										
Lens	Fixed focal, f2.93mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f2.93mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f2.8mm / F2.0, Fixed iris, Manual focus	Fixed focal, f2.93mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f2.93mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f2.93mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f2.93mm / F2.0, Fixed iris, Fixed focus	Vari-focal, f2.8-12mm / F1.4, Fixed iris, Manual focus	Vari-focal, f2.8-12mm / F1.4, Fixed iris, Manual focus	Vari-focal, f3.3-12mm / F1.6, Fixed iris, Manual focus
Viewing Angle Adjustment	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 17°-163°, Rotate: 0°-350°
Lens Mount	Board mount	Board mount	CS mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount
Horizontal Viewing Angle	72.0°	83.3°	82.6°	72.0°	83.3°	82.3°	85.7°	59.8°-24.2°	70.5°-23.8°	83.0°-23.8°
Compression	H.264 High Profile, MJPEG	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	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	8 fps at 2032 x 1920 15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	8 fps at 1280 x 1024 10 fps at 1280 x 720 30 fps at 640 x 480
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Single streams
Wide Dynamic Range	No	No	No	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (69 dB)	Superior WDR (107 dB)	No	No	No
Digital Noise Reduction	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR	DNR
Audio	No	No	2-way	No	No	No	No	No	No	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	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	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	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	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
Digital Input/Output	No	No	2/2	No	No	No	No	No	No	1/1
Local Storage	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	No
Power Source	PoE Class 2	PoE Class 2	DC 12V; PoE Class 3	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	DC 12V; PoE Class 3
Environmental Casing	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)
Bundled Accessories	No	No	No	No	No	No	No	No	No	No
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	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
Client PC Operating System	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Vista, Windows XP
PC Web Browser	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime
Starting Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°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)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)



	Indoor Zoom Dome with WDR						Outdoor Zoom Dome with WDR						Hemispheric Dome with WDR		
															
Model	B61	B64	B65	B67	KCM-3311	B81	B84	B85	B87	KCM-7311	KCM-3911	KCM-7911			
Maximum Resolution	5MP	1.3MP	2MP	3MP	4MP	5MP	1.3MP	2MP	3MP	4MP	4MP	4MP			
Application Environment	Indoor	Indoor	Indoor	Indoor	Indoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Indoor	Outdoor			
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS			
Day / Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
Superior Low Light Sensitivity	No	Yes	Yes	No	Yes	No	Yes	Yes	No	Yes	Yes	Yes			
Minimum Illumination	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.2	Color: 0.1 lux, B/W: 0.05 lux at F1.4	Color: 0.1 lux, B/W: 0.06 lux at F2.8	Color: 1.63 lux, B/W: 0.06 lux at F2.8			
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes			
IR LED	Yes (Adaptive)	Yes (Adaptive)	Yes (Adaptive)	Yes (Adaptive)	No	Yes (Adaptive)	Yes (Adaptive)	Yes (Adaptive)	Yes (Adaptive)	Yes (Adaptive)	No	No			
IR Working Distance	20m	20m	20m	20m	20m	20m	20m	20m	20m	20m	20m	20m			
Lens	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-12mm / F1.4-2.9, P-Iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-9mm / F1.2-2.1, DC iris, Auto focus	Zoom, f3-12mm / F1.4-2.9, P-Iris, Auto focus	Zoom, f3-12mm / F1.4-2.9, P-Iris, Auto focus	Fisheye, 1.05mm / F2.8, Fixed iris, Fixed focus			
Zoom Ratio	3x optical	3x optical	3x optical	3x optical	3.6x optical	3x optical	3x optical	3x optical	3x optical	3.6x optical	3x optical	3.6x optical			
Viewing Angle Adjustment	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°	Pan: 0°-350°, Tilt: 5°-170°, Rotate: 0°-350°			
Lens Mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount			
Horizontal Viewing Angle	85.7°-30.5°	90.6°-31.8°	103.6°-36.2°	84.5°-29.8°	77.2°-22.6°	85.7°-30.5°	90.6°-31.8°	103.6°-36.2°	84.5°-29.8°	77.2°-22.6°	180°	180°			
Compression	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	H.264 High Profile, MJPEG	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	H.264 High Profile, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG			
Maximum Frame Rate vs. Resolution	15 fps at 2592 x 1944 15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	8 fps at 2032 x 1920 15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2032 x 1920 15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 960 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	8 fps at 2032 x 1920 15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	6 fps at 2032 x 1920 12 fps at 1920 x 1080 12 fps at 1280 x 720 12 fps at 640 x 480	6 fps at 2032 x 1920 12 fps at 1920 x 1080 12 fps at 1280 x 720 12 fps at 640 x 480		
View Mode											Fisheye View; Dewarped View: 180°/360° Panorama, ePTZ, 6 VGA, Motion Detection Preset	Fisheye View; Dewarped View: 180°/360° Panorama, ePTZ, 6 VGA, Motion Detection Preset			
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams			
Wide Dynamic Range	Basic WDR (69 dB)	Basic WDR (83.5 dB)	Basic WDR (72 dB)	Superior WDR (107 dB)	Advanced WDR (80 dB)	Basic WDR (69 dB)	Basic WDR (83.5 dB)	Basic WDR (72 dB)	Superior WDR (107 dB)	Advanced WDR (80 dB)	Advanced WDR (80 dB)	Advanced WDR (80 dB)			
Digital Noise Reduction	DNR	DNR	DNR	DNR	2D+3D DNR	DNR	DNR	DNR	DNR	2D+3D DNR	2D+3D DNR	2D+3D DNR			
Audio	2-way	2-way	2-way	2-way	2-way	2-way	2-way	2-way	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	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	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	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	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	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			
Digital Input/Output	2/2	2/2	2/2	2/2	No	2/2	2/2	2/2	2/2	2/2	2/2	2/2			
Local Storage	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	No	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)			
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	PoE Class 3	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	DC 12V; PoE Class 3	DC 12V; PoE Class 3			
Environmental Casing	Vandal Resistant (IK09)	Vandal Resistant (IK09)	Vandal Resistant (IK09)	Vandal Resistant (IK09)	No	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	No	Weatherproof (IP66)			
Bundled Accessories	No	No	No	No	No	No	No	No	No	No	No	No			
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box			
Other Value-Added Features					Defogging					Defogging	Defogging	Defogging			
Client PC Operating System	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP			
PC Web Browser	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9	IE 8, IE 9			
Starting 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)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-22°F ~ 122°F)			
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)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-22°F ~ 122°F)			
Approvals	CE, FCC, IK09	CE, FCC, IK09	CE, FCC, IK09	CE, FCC, IK09	CE, FCC	CE, FCC, IP66, IK10, NEMA 4X	CE, FCC, IP66, IK10, NEMA 4X	CE, FCC, IP66, IK10, NEMA 4X	CE, FCC, IP66, IK10, NEMA 4X	CE, FCC, IP66	CE, FCC	CE, FCC, IP66			



	Fixed Bullet			Fixed Bullet with WDR		
						
Model	D31	D32	E31	E32	E33	E34
Maximum Resolution	1MP	3MP	1MP	3MP	5MP	3MP
Application Environment	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Day / Night	Yes	Yes	Yes	Yes	Yes	Yes
Superior Low Light Sensitivity	No	No	No	No	No	No
Minimum Illumination	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.8
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes	Yes	Yes
IR LED	Yes	Yes	Yes	Yes	Yes	Yes
Lens	Fixed focal, f4.2mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f4.2mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f4.2mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f4.2mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f4.2mm / F1.8, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F1.8, Fixed iris, Fixed focus
Lens Mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount
Horizontal Viewing Angle	55.9°	62.7°	55.9°	62.7°	62.7°	68.0°
Compression	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	H.264 High Profile, MJPEG
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2592 x 1944 15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams
Wide Dynamic Range	No	No	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (69 dB)	Superior WDR (107 dB)
Digital Noise Reduction	DNR	DNR	DNR	DNR	DNR	DNR
Audio	No	No	No	No	No	No
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	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	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
Digital Input/Output	No	No	No	No	No	No
Local Storage	No	No	No	No	No	No
Power Source	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2
Environmental Casing	Weatherproof (IP66)	Weatherproof (IP66)	Weatherproof (IP66); Vandal proof metal casing (IK10)	Weatherproof (IP66); Vandal proof metal casing (IK10)	Weatherproof (IP66); Vandal proof metal casing (IK10)	Weatherproof (IP66); Vandal proof metal casing (IK10)
Bundled Accessories	Bracket	Bracket	Bracket	Bracket	Bracket	Bracket
Mount Type	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole	Wall, Ceiling, Corner, Pole
Client PC Operating System	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP
PC Web Browser	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime
Starting 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)	-20°C ~ 50°C (-4°F ~ 122°F)
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)
Approvals	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66, IK10 (metal casing)	CE, FCC, IP66, IK10 (metal casing)	CE, FCC, IP66, IK10 (metal casing)	CE, FCC, IP66, IK10 (metal casing)









**Box with Zoom Lens**



	KCM-5211	KCM-5211E	KCM-5511	KCM-5611
Model	KCM-5211	KCM-5211E	KCM-5511	KCM-5611
Maximum Resolution	4MP	4MP	2MP	2MP
Application Environment	Indoor	Outdoor	Outdoor	Outdoor
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Day / Night	Yes	Yes	Yes	Yes
Superior Low Light Sensitivity	Yes	Yes	Yes	Yes
Minimum Illumination	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6	Color: 0.1 lux, B/W: 0 lux (IR LED on) at F1.6
Mechanical IR Cut Filter	Yes	Yes	Yes	Yes
IR LED	No	Yes	Yes	Yes
Lens	Zoom, f4.7-84.6mm / F1.6-2.8, DC Iris, Auto focus	Zoom, f4.7-84.6mm / F1.6-2.8, DC Iris, Auto focus	Zoom, f3.2-70.4mm / F1.6-3.8, DC Iris, Auto focus	Zoom, f4.7-84.6mm / F1.6-2.8, DC Iris, Auto focus
Zoom Ratio	18x optical	18x optical	22x optical	18x optical
Lens Mount	Board mount	Board mount	Board mount	Board mount
Horizontal Viewing Angle	48.9°-3.6°	48.9°-3.6°	57.1°-3.0°	48.9°-3.6°
Compression	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG
Maximum Frame Rate vs. Resolution	8 fps at 2032 x 1920 15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	8 fps at 2032 x 1920 15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams
Wide Dynamic Range	No	Advanced WDR (80 dB)	Advanced WDR (80 dB)	Advanced WDR
Digital Noise Reduction	DNR	2D+3D DNR	2D+3D DNR	2D+3D DNR
Audio	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, Pelco-D	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour, Pelco-D	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	2/2	2/2	2/2	2/2
Serial Port	RS-485, RS-422	RS-485, RS-422	RS-485, RS-422	RS-485, RS-422
Local Storage	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)
Power Source	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3	DC 12V; PoE Class 3
Environmental Casing	No	Weatherproof (IP66)	Weatherproof (IP66)	Weatherproof (IP66)
Bundled Accessories	No	No	No	No
Mount Type	Wall, Corner, Pole	Wall, Corner, Pole	Wall, Corner, Pole	Wall, Corner, Pole
Other Value-Added Features		Defogging	Defogging	Defogging
Client PC Operating System	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP
PC Web Browser	IE 8, IE 9	IE 8, IE 9	IE 8, IE 9	IE 8, IE 9
Starting Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) within 30 minutes	-10°C ~ 50°C (14°F ~ 122°F) within 30 minutes	-20°C ~ 50°C (-4°F ~ 122°F) within 30 minutes
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)
Approvals	CE, FCC	CE, FCC, IP66	CE, FCC, IP66	CE, FCC, IP66















**Cube**

**Cube with WDR**

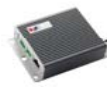


	Cube		Cube with WDR		
	D11	D12	E11	E12	E13
Model	D11	D12	E11	E12	E13
Maximum Resolution	1MP	3MP	1MP	3MP	5MP
Application Environment	Indoor	Indoor	Indoor	Indoor	Indoor
Image Sensor	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS
Day / Night	No	No	No	No	No
Superior Low Light Sensitivity	No	No	No	No	No
Minimum Illumination	Color: 0.1 lux at F2.0	Color: 0.1 lux at F2.0	Color: 0.1 lux at F1.8	Color: 0.1 lux at F2.0	Color: 0.1 lux at F2.0
Mechanical IR Cut Filter	No	No	No	No	No
IR LED	No	No	No	No	No
Lens	Fixed focal, f3.6mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f3.6mm / F2.0, Fixed iris, Fixed focus	Fixed focal, f4.2mm / F1.8, Fixed iris, Manual focus	Fixed focal, f2.8mm / F2.0, Fixed iris, Manual focus	Fixed focal, f2.8mm / F2.0, Fixed iris, Manual focus
Lens Mount	Board mount	Board mount	CS mount (interchangeable lens)	CS mount (interchangeable lens)	CS mount (interchangeable lens)
Horizontal Viewing Angle	60.2°	70.8°	53.8°	92.6°	92.6°
Compression	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
Maximum Frame Rate vs. Resolution	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 2592 x 1944 15 fps at 2048 x 1536 30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams
Wide Dynamic Range	No	No	Basic WDR (69 dB)	Basic WDR (69 dB)	Basic WDR (69 dB)
Digital Noise Reduction	DNR	DNR	DNR	DNR	DNR
Audio	No	No	2-way, built-in microphone	2-way, built-in microphone	2-way, built-in microphone
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	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	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour
Digital Input/Output	No	No	No	No	No
Local Storage	No	No	No	No	No
Power Source	PoE Class 1	PoE Class 2	PoE Class 2	PoE Class 2	PoE Class 2
Environmental Casing	No	No	No	No	No
Bundled Accessories	Bracket	Bracket	Bracket	Bracket	Bracket
Mount Type	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling	Wall, Ceiling
Client PC Operating System	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP
PC Web Browser	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime
Starting Temperature	-10°C ~ 45°C (14°F ~ 113°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)	-10°C ~ 45°C (14°F ~ 113°F)
Operating Temperature	-10°C ~ 45°C (14°F ~ 113°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)	-10°C ~ 45°C (14°F ~ 113°F)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Warranty	2 Years	2 Years	3 Years	3 Years	3 Years

	Mini PT			PTZ				Mini PTZ		Speed Dome		
												
Model	ACM-8511	I91	I92	I93	I94	KCM-8111	KCM-8211	B94	I95	I96	TCM-6630	
Maximum Resolution	0.35MP (D1)	1MP	2MP	1MP	2MP	2MP	2MP	1.3MP	1MP	2MP	0.35MP (D1)	
Application Environment	Indoor	Indoor	Indoor	Outdoor	Outdoor	Indoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	
Image Sensor	Interlaced Scan CCD	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Progressive Scan CMOS	Interlaced Scan CCD	
Day / Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Superior Low Light Sensitivity	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	
Minimum Illumination	Color: 2.5 lux, B/W: 0.07 lux at F1.8	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.8	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.05 lux at F1.6	Color: 0.1 lux, B/W: 0.01 lux at F1.6	
Mechanical IR Cut Filter	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IR LED	No	No	No	No	No	No	No	No	No	No	No	
Lens	Zoom, f4.2-42mm / F1.8-2.9, DC Iris, Auto focus	Zoom, f4.3-129mm / F1.6-5.0, DC Iris, Auto focus	Zoom, f4.3-129mm / F1.6-5.0, DC Iris, Auto focus	Zoom, f4.3-129mm / F1.6-5.0, DC Iris, Auto focus	Zoom, f4.3-129mm / F1.6-5.0, DC Iris, Auto focus	Zoom, f4.7-84.6mm / F1.6-2.8, DC Iris, Auto focus	Zoom, f4.7-84.6mm / F1.6-2.8, DC Iris, Auto focus	Zoom, f4.9-49mm / F1.8-3.0, DC Iris, Auto focus	Zoom, f4.3-129mm / F1.6-5.0, DC Iris, Auto focus	Zoom, f4.3-129mm / F1.6-5.0, DC Iris, Auto focus	Zoom, f3.4-122.4mm / F1.6-4.5, DC Iris, Auto focus	
Zoom Ratio	10x optical, 10x digital	30x optical, 16x digital	30x optical, 16x digital	30x optical, 16x digital	30x optical, 16x digital	18x optical, 16x digital	18x optical, 16x digital	10x optical	30x optical, 16x digital	30x optical, 16x digital	36x optical, 12x digital	
Panning and Tilting Range	Pan: 0°-354°; Tilt: -25°-90°	Pan: 0°-360° (with Auto-flip); Tilt: 0°-180°	Pan: 0°-360° (with Auto-flip); Tilt: 0°-180°	Pan: 0°-360° (with Auto-flip); Tilt: 0°-180°	Pan: 0°-360° (with Auto-flip); Tilt: 0°-180°	Pan: 0°-360° (with Auto-flip); Tilt: 0°-180°	Pan: 0°-360° (with Auto-flip); Tilt: 0°-180°	Pan: 0°-360°; Tilt: 0°-180°	Pan: 0°-360° endless; Tilt: 0°-180°	Pan: 0°-360° endless; Tilt: 0°-180°	Pan: 0°-360° endless; Tilt: -10°-190°	
Lens Mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	Board mount	
Horizontal Viewing Angle	48.0°-5.0°	66.4°-2.68°	66.4°-2.68°	66.4°-2.68°	66.4°-2.61°	48.9°-3.6°	48.9°-3.6°	52.1°-5.9°	66.4°-2.68°	66.4°-2.61°	57.8°-1.7°	
Compression	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, 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, MPEG-4 SP, MJPEG	
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 30 fps at 352 x 240	30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	15 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 960 60 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 1920 x 1080 30 fps at 1280 x 720 30 fps at 640 x 480	30 fps at 720 x 480 30 fps at 352 x 240	
Multi-Streaming	Single streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	
Wide Dynamic Range	No	Extreme WDR (107 dB)	Extreme WDR (107 dB)	Extreme WDR (107 dB)	Extreme WDR (107 dB)	Advanced WDR (80 dB)	Advanced WDR (80 dB)	Basic WDR (83.5 dB)	Extreme WDR (107 dB)	Extreme WDR (107 dB)	Superior WDR	
Digital Noise Reduction	No	2D+3D DNR	2D+3D DNR	2D+3D DNR	2D+3D DNR	2D+3D DNR	2D+3D DNR	DNR	2D+3D DNR	2D+3D DNR	2D+3D DNR	
Audio	2-way	2-way	2-way	2-way	2-way	2-way	2-way	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	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	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	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	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	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour	
Digital Input/Output	1/1	2/2	2/2	2/2	2/2	2/2	2/2	1/1	4/2	4/2	8/1	
Local Storage	No	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	MicroSDHC/MicroSDXC memory card slot (card not included)	No	
Power Source	DC 12V; PoE Class 3	DC 12V; High PoE	DC 12V; High PoE	DC 12V; High PoE	DC 24V; High PoE	DC 12V; High PoE	DC 12V; High PoE	DC 12V; PoE Class 3	DC 24V; High PoE	DC 24V; High PoE	AC 24V	
Environmental Casing	No	Vandal Resistant (IK09)	Vandal Resistant (IK09)	Weatherproof (IP66); Vandal Proof casing (IK10); bundled dome cover (IK09), optional dome cover (IK10)	Weatherproof (IP66); Vandal Proof casing (IK10); bundled dome cover (IK09), optional dome cover (IK10)	Vandal Resistant (IK09)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal proof (IK10)	Weatherproof (IP66); Vandal Proof casing (IK10); bundled dome cover (IK09), optional dome cover (IK10)	Weatherproof (IP66); Vandal Proof casing (IK10); bundled dome cover (IK09), optional dome cover (IK10)	Weatherproof (IP66)	
Bundled Accessories	Surface mount	Surface mount; Power adapter	Surface mount; Power adapter	Power adapter	Power adapter	Surface mount; Power adapter	Power adapter	No	Power adapter	Power adapter	Power adapter	
Mount Type	Surface, Pendant, Wall, Corner, Pole, Flush	Surface, Pendant, Wall, Corner, Pole, Flush	Surface, Pendant, Wall, Corner, Pole, Flush	Pendant, Wall, Corner, Pole	Pendant, Wall, Corner, Pole	Surface, Pendant, Wall, Corner, Pole, Flush	Pendant, Wall, Corner, Pole	Surface, Pendant, Wall, Corner, Pole, Flush, Gang Box	Pendant, Wall, Corner, Pole	Pendant, Wall, Corner, Pole	Pendant, Wall, Corner, Pole	
Other Value-Added Features		Defogging, Advanced Image Stabilizer	Defogging, Advanced Image Stabilizer	Defogging, Advanced Image Stabilizer	Defogging, Advanced Image Stabilizer	Defogging	Defogging	Defogging, Advanced Image Stabilizer	Defogging, Advanced Image Stabilizer	Defogging, Advanced Image Stabilizer	Defogging, Advanced Image Stabilizer	
Client PC Operating System	Windows 7, Windows Vista, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Server 2008, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Vista, Windows XP	
PC Web Browser	IE 8, IE 9	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9	IE 8, IE 9	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9, IE 10, Firefox with Quicktime, Chrome with Quicktime, Safari with Quicktime	IE 8, IE 9	
Starting Temperature	0°C ~ 45°C (32°F ~ 113°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-10°C ~ 45°C (14°F ~ 113°F)	-30°C ~ 45°C (-22°F ~ 113°F) within 30 minutes	-20°C ~ 50°C (-4°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-40°C ~ 50°C (-40°F ~ 122°F) within 30 minutes	-45°C ~ 50°C (-49°F ~ 122°F)	
Operating Temperature	0°C ~ 45°C (32°F ~ 113°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-10°C ~ 45°C (14°F ~ 113°F)	-40°C ~ 45°C (-40°F ~ 113°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-45°C ~ 50°C (-49°F ~ 122°F)	
Approvals	CE, FCC	CE, FCC, IK09	CE, FCC, IK09	CE, FCC, IP66, IK09, NEMA 4X	CE, FCC, IP66, IK09, NEMA 4X	CE, FCC, IK09	CE, FCC, IP66, IK10	CE, FCC, IP66, NEMA 4X	CE, FCC, IP66, IK09, NEMA 4X	CE, FCC, IP66, IK09, NEMA 4X	CE, FCC, IP66	







### Video Encoder









### Video Decoder



	Video Encoder		Video Decoder	
				
Model	ACD-2100	TCD-2100	ACD-3100	ECD-1000
Number of Channels	1	1	1	9
Compression	MPEG-4 SP, MJPEG	H.264, MPEG-4 SP, MJPEG	MPEG-4 SP, MPEG-4 ASP	H.264
Maximum Frame Rate vs. Resolution	30 fps at 720 x 480 (NTSC) 25 fps at 720 x 576 (PAL) 30 fps at 352 x 240 (NTSC) 25 fps at 352 x 288 (PAL) 30 fps at 160 x 112 (NTSC) 25 fps at 176 x 144 (PAL)	30 fps at 720 x 480 (NTSC) 25 fps at 720 x 576 (PAL) 30 fps at 352 x 240 (NTSC) 25 fps at 352 x 288 (PAL) 30 fps at 160 x 112 (NTSC) 25 fps at 176 x 144 (PAL)	30 fps at 720 x 480 (NTSC) 25 fps at 720 x 576 (PAL)	30 fps at 1920 x 1080 30 fps at 720 x 480 25 fps at 720 x 576 30 fps at 640 x 480
Multi-Streaming	Single streams	Dual streams	No	No
Wide Dynamic Range	No	No	No	No
Audio	2-way	No	2-way	No
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	TCP, UDP, HTTP, HTTPS, DHCP, PPPoE, RTP, RTSP, IPv6, DNS, DDNS, NTP, ICMP, ARP, IGMP, SMTP, FTP, UPnP, SNMP, Bonjour	TCP, UDP, IP, HTTP, DHCP, PPPoE, RTP, RTSP
Analog Video Input	BNC x 1	BNC x 1		
Analog Video Output		No	BNC x 1; S-Video x 1	1, BNC
HDMI Output				1, HDMI Type A
Digital Input/Output	2/2	1/1	2/2	
Serial Port	RS-485, RS-422, RS-232	RS-485, RS-422, RS-232	RS-485, RS-422, RS-232	
Power Source	DC 12V	DC 12V	DC 12V	DC 12V; PoE Class 3
Bundled Accessories				Pole Mount
Mount Type				Surface, Pole, VESA 10x10
Local Access				USB Mouse
Remote Access			Web Client (IE)	Web Client (IE)
Event Trigger				Video Loss
Event Response				Beep
Client PC Operating System	Windows 7, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Vista, Windows Server 2003, Windows XP	Windows 7, Windows Vista, Windows Server 2003, Windows XP
PC Web Browser	IE 6, IE 7, IE 8	IE 6, IE 7, IE 8	IE 6, IE 7, IE 8	IE 9
Starting Temperature			0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F) ACD-2100T: -30°C ~ 70°C (-22°F ~ 158°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)
Approvals	CE, FCC	CE, FCC	CE, FCC	CE, FCC



		Video Management System				
		Software NVR			Central Management System	
						
Model	NVR 2.3 Ent	NVR 2.3 Pro	NVR 3.0	CMS 1.1	CMS 2.0	
Maximum Number of Cameras	64	64	100	Unlimited	Unlimited	
Maximum Number of Clients	1 local, 5 remote (concurrent)	1 local	1 local, 5 remote (concurrent)	1 local, 5 remote (concurrent)	1 local, 5 remote (concurrent)	
Free License	16	64	16	0	0	
Video Resolution	Up to 5-Megapixel	Up to 5-Megapixel	Support all ACTi cameras in all resolutions	Up to 5-Megapixel	Support all ACTi cameras in all resolutions	
Compression	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	
Multi-Streaming	Dual streams	Dual streams	Dual streams	Dual streams	Dual streams	
Scheduled Recording	Yes	Yes	Yes			
Event Recording	Yes	Yes	Yes			
Manual Recording	Yes	Yes	Yes	Yes	Yes	
Speed Up			Yes			
Dual Stream Management	Yes	Yes	Yes	Yes	Yes	
Recording Throughput	64 channels at 5MP/15fps	64 channels at 5MP/15fps	100 channels at 5MP/15fps			
Display Layout Mode	1, 4, 6, 8, 9, 12, 16, 36, 48, 49, 64	1, 4, 6, 8, 9, 12, 16, 36, 48, 49, 64	1, 4, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom	1, 4, 6, 8, 9, 12, 16, 36, 48, 49, 64	1, 4, 5, 6, 8, 9, 10, 12, 16, 18, 24, 25, 35, 36, 48, 49, 64, Custom	
Digital Zoom	Yes	Yes	Yes	Yes	Yes	
Event Status	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 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 between server and client 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	
Instant Playback			Instant Playback in live view window		Instant Playback in live view window	
e-Map	Yes	Yes	Yes	Yes	Yes	
PTZ Control	Yes	Yes	Yes	Yes	Yes	
Playback Control	Forward and backward playback with speeds 1x/2x/4x/8x or frame-by-frame; pause; stop	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	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	4 channels	64 channels	4 channels	64 channels	
Local Access	monitor, joystick, keyboard & mouse	monitor, joystick, keyboard & mouse	monitor, joystick, keyboard & mouse	monitor, joystick, keyboard & mouse	monitor, joystick, keyboard & mouse	
Remote Access	Workstation, Web Client (IE), Mobile Client (iOS)	Workstation, Web Client (IE)	Workstation, Web Client (IE), Mobile Client (iOS & Android)	Workstation, Web Client (IE)	Workstation, Web Client (IE), Mobile Client (iOS & Android)	
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	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	Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery	NVR: Source loss and recovery; Schedule service start and stop; Disk status Device: Video motion detection; Passive IR sensor; External device through digital input; Video loss and recovery; Network loss and recovery	
Event Response	Record video; Pop-up window; Hotspot window; Play audio file or Beep; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Event logging; Go to PTZ preset point	Record video; Pop-up window; Hotspot window; Play audio file or Beep; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Event logging; Go to PTZ preset point	Record video; Pop-up window; Hotspot window; Beep; Digital output; Snapshot to FTP; Execute system command; E-mail with snapshots; Go to PTZ preset point	Pop-up window; Hotspot window; Play audio file or Beep	NVR: Play beep sound; Execute system command to activate other programs; E-mail notification Device: Pop-up window with live video; Switch to hotspot window; Play beep sound	
Permission Control	Unlimited number of users, Active Directory, Customizable permissions for user groups	Unlimited number of users, Active Directory, Customizable permissions for user groups	Unlimited number of users, Active Directory, Customizable permissions for user groups	Unlimited number of users, Active Directory, Customizable permissions for user groups	Unlimited number of users, Active Directory, Customizable permissions for user groups	
Server Operating System	Windows 7	Windows 7	Windows 8, Windows 7, Windows Server 2012	Windows 7	Windows 8, Windows 7, Windows Server 2012	
Client PC Operating System	Windows 7	Windows 7	Windows 8, Windows 7, Windows Server 2012	Windows 7	Windows 8, Windows 7, Windows Server 2012	
PC Web Browser	IE 8, IE 9	IE 8, IE 9	IE 8, IE 9, IE 10	IE 8, IE 9	IE 8, IE 9, IE 10	