

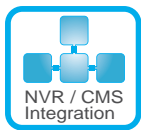


## IP Network Camera Series

- H.264 CCD Indoor / Outdoor series
- H.264 Mega Pixel Indoor / Outdoor Series
- H.264 IP Speeddome Indoor / Outdoor series



### Highlighted Features:



**High Performance Hybrid System**  
for CCTV + IP Video Surveillance  
Support Free-bundled Unique NVR & CMS



**IP Camera Support API & SDK**  
Open API & SDK  
for software integration.



**POE Support-Easy Installation**  
Power & Video Data Transmitted over  
Ethernet Cable (IP Speeddome excluded)



**H.264 saving up to 50% file size**  
H.264 Let you save more storage space  
& Reduce the Network Bandwidth.



**H.264/ MPEG4/ Motion JPEG**  
Simultaneously ( Tri-encoders)



**Two-Way Audio Support on Mobile Device**  
3GPP IP Camera, Support Mobile  
Surveillance, two-way audio.



**UPnP client for easy setup**  
Enable Windows and camera UPnP function  
Double Click UPnP ICON - quickly  
open IE browser



**Support Samba for NAS Network Storage**  
No PC Need / Storage Directly



**Auto Port Forwarding**  
Easy Network Port Setting for Junior Network Users  
Reduce Router Setup Process



**Security & Privacy-IP Filter**  
IP Filter Function can Deny or Allow Specific  
Users to Access the Camera  
**Wizard II- IP Camera Management Tools**  
Easy Camera Access Process



### H.264 CCD POWERFUL Benefits

#### High Quality Digital CCD Sensor

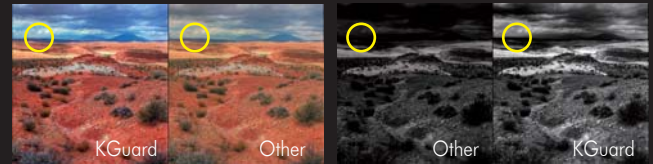
The fast way to develop IP Cam is compression module. They do not have any transmission technical but they also product CCD IP cam.

※ D.V.(digital video) / A.V(analog video)



#### Made it Clear (IR+ICR)

It can get the pure and natural color in the day and more clear in the night.



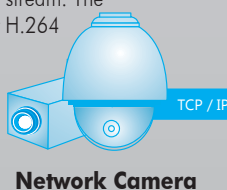
#### Smart Lens (Vari-focal)

You can zoom to any point in the focal length range



### MULTI-STREAMING SUPPORT

The KGuard IP camera Series support multiple streams that can be set up while deploying the full set of encoders. This approach allows, for example, the customized use of multiple MJPEG streams while also using an MPEG-4 or H.264 encoded stream. The resolution and frame rate of the MJPEG image streams and the MPEG-4 or H.264 stream can be adjusted independently.



- 1280x1024 H.264/SXGA  
NTSC: 15fps / PAL: 12fps
- 640x480 H.264/VGA  
NTSC: 30fps / PAL: 25fps
- 640x480 MPEG-4/VGA 30fps  
NTSC: 30fps / PAL: 25fps
- 320x240 M-JPEG/QVGA 30fps  
NTSC: 30fps / PAL: 25fps



Remote Monitoring /  
NVR Recording

Broadcasting

3GPP Real-Time  
Monitoring

Network Camera

Remote Monitoring /  
NVR Recording



## H.264 CCD IP CAMERA Indoor series

### Box Camera \_ KG-IB201SN(P)

Camera	Box Camera	Video buffer	Pre and post alarm buffering
Image device	1/3 Sony Super HAD CCD Technology	Maximum access	Up to 20 users access at the same time
Number of total pixels	NTSC: 811 x 508 / PAL: 795 x 597	Signal to noise ratio	More than 48dB
Number of effective pixels	NTSC: 768 x 494 / PAL: 752 x 582	Audio compression	G.711/G.726/AMR
Auto gain control (AGC)	Auto up to 34dB	Lens mount	C or CS mount
Auto exposure	AE / AI switchable	Video output	1Vp-p, 75 Ω composite BNC connector
Mechanical infrared-cut filter	9 zones intelligent brightness/time counter detection	Serial Interface	RS-485
Auto iris shutter	AI NTSC: 1/60 second / PAL 1/50 second	I/O port	Sensor in x1 Alarm out x1
Auto iris lens	DC / video servo switchable	Microphone	External microphone + Built In MIC
Back light compensation	Auto detect, histogram and 225 areas windows weighted	Audio line output	Mini-jack(monaural) Max output level:1Vms
Electronic shutter	AES 1/50 (60) to 1/100,000 second	Alarm out	FTP/EMAIL/external alarm out/PTZ preset point/audio out
Exposure control	AI or AES	3GPP Cell phone	3GPP mobile surveillance. Audio + video
Flicker less	ON / OFF switchable	Network	10 base-T/100base-TX auto negotiation
Gamma correction	0.45	Protocols	TCP,UDP,HTTP,SMTP,FTP,NTP,DNS,DDNS,DHCP,ARP UpNP,RTSP,RTP,RTCP,PPoE,3GPP,Samba,ICMP
White balance	Auto tracking 2500K to 9500K	Signal system	NTSC / PAL
Compression format	MJPEG/MPEG4/H.264 simultaneously	Horizontal resolution	520 TV line
Video input	ITU-CCIR 656 digital input	Sensitivity	Color: 0.5 lx.(30IRE, F1.2, AGC)/ Black&White:0.08 lx.(30IRE, F1.2, AGC)
Acceptable IR wavelength	100 to 1100nm (night mode on)	Operating temperature	0°C to 50°C (14°C to 122°C)
Aperture correction	Horizontal and vertical 2H enhancer	Storage temperature	-20°C to 70°C (-4°C to 158°C)
Video encoder	H.264/MPEG4/MJPEG	Weight	Approximately 0.6 kg
Video Format	H.264/MPEG4/MJPEG with CIF/4CIF/QCIF simultaneously	Dimensions	120 x 60 x 58 mm
Maximum frame rate	30fps for each video Format	Power over Ethernet	Internal, POE 12V 1A
3GPP support	Yes	Weight (with Package)	Approximately 0.9kg
2-way Audio	Simplex / Duplex 2-way audio (Featured mixer function)		
Integrated motion detection	Yes		
Multicast streaming support	Yes		



## H.264 CCD IP CAMERA Outdoor series

### IR 25M Fixed Camera \_ KG-IU200SN(P)

<b>Network</b>		2-way Audio	Simplex / Duplex 2-way audio
Ethernet	10/100M auto negotiation	3GPP Cell Phone	3GPP mobile surveillance. Audio+video
Streaming	- Simultaneously multi-streaming - Streaming over UDP, TCP, or HTTP - M-JPEG streaming over HTTP - Constant and variable bit rate (MPEG4 / H.264)	<b>I/O port</b>	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP (HTTPS, Samba, SIP coming soon)	DI/ DO Ports	DI:1/ DO:1
UPnP Level	UPnP Discover & Auto port forwarding	RS-485	RS485 for PT scanner
<b>Video/ Audio</b>		Audio in/ out	Line in/ Line out
Image Sensor	1/3" Sony CCD	Video Output	1 75ohm composite video output (BNC connector)
Sensor Resolution	420TVL	Reset Button	V
Lens Type	6.0mm fixed lens	<b>Motion Detection</b>	10 zones
IR LED	8Ø IR LED x 14pcs	Alarm Events	1) File upload via FTP or email: Upload video clip or snapshot 2) Notification via email, HTTP, and TCP 3) External output activation 4) Audio alerting
IR Distance	25 meter	Video Buffer	Pre- and post- alarm recording buffering
Video Compression	9 formats simultaneously (CCD sensor) 1) H.264: 4CIF / CIF / QCIF 2) MPEG4: 4CIF / CIF / QCIF 3) M-JPEG: 4CIF / CIF / QCIF ( for Megapixel sensor input, 2 more MEGA video formats )	<b>System</b>	
Image Frame Rate	Max. 30 fps(N), 25fps (P) for all resolutions	OS	Windows® 2000, XP, Vista
Image Setting	- De-interlace (4CIF resolution) - De-noise - Text, time and date overlay	Browser	IE 6.0 or latter / Firefox 2.0 or later
		Users	Up to 20 users access at the same time
		Security	Password protection, IP address filtering
		Power Supply	12V DC external power adapter
		Power Consumption	3 Watts below
		Power over Ethernet	IEEE802.3af
		Construction	IP66 weather proof
		Weight (with Package)	Approximately 1kg



## H.264 Mega IP CAMERA Indoor Series IP Dome \_ KG-IMM2202

<b>Camera</b>		<b>System Integration</b>	
Image Device	1.3Mega-pixel image sensor	Application Programming Interface	Open API for software integration SDK
Effective Pixels	1280 x 1024 pixels	Alarm Triggers	Intelligent video motion detection and external input
Sensitivity	2lux @ F1.2 (slow shutter enabled)	Motion Detection	10-zone video motion detection
Signal to Noise	44dB	Alarm Events	File upload via FTP or email Notification via email, HTTP, and TCP External output activation Go to PTZ
Lens	f4.3mm / F:1.8	Video Buffer	preset position Audio alerting output
<b>IP Module</b>		<b>General</b>	
<b>Video</b>		RAM	128MB
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)	ROM	8MB
Video Format	11 formats simultaneously - H.264 SXGA/ VGA / QVGA / QQVGA - MPEG4 VGA / QVGA / QQVGA - M-JPEG SXGA/ VGA / QVGA / QQVGA	Power Supply	12V DC external power adapter
Frame Rate	Mega-pixel mode: Up to 15fps for all 11 formats VGA mode: Up to 30fps for all 9 formats	Power Consumption	7W max (with WLAN and LEDs on) or 5W max (LEDs on but without WLAN)
Image Setting	De-noise, Brightness, sharpness, contrast, Text, time and date overlay	Power over Ethernet	Built in PoE splitter
Streaming	Simultaneously multi-format streaming Streaming over UDP, TCP, or HTTP Multicast streaming M-JPEG streaming over HTTP Supports 3GPP mobile surveillance Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4 / H.264)	Connectors	RJ-45 10BaseT/100BaseTX , DC jack, 1 alarm input and 1 output, Audio in/out, RS485 to connect to P/T scanner
<b>Audio</b>		Indication LED	Two-Color LED
Audio Encoder	"RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR"	IR LED	-
Audio Streaming	One-way or two-way	IR Wavelength	-
Microphone	External microphone	IR Distance	-
Audio Output	Line level out	Illumination LED	-
<b>Network</b>		Protection Class	-
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP	Construction	-
Security	Password protection, IP address filtering, user access log	Operating Temperature	0°C to 40°C (32°F to 104°F)
Users	Up to 20 users access at the same time	Operating Humidity	20% ~ 80% (non-condensing)
Ethernet	10/100M auto negotiation	<b>Viewing System</b>	
		OS	Windows® 2000, XP, Vista
		Browser	IE 6.0 or latter / Firefox 2.0 or later
		Cell Phone	With 3GPP player
		Video Player	VLC, Quick Time, Real Player
		Weight (with Package)	Approximately 1kg



## H.264 Mega IP CAMERA Indoor Series Vandal PT IP Camera \_ KG-IMM2304

<b>Camera</b>		<b>Network</b>	
Image Device	1.3M Mega-pixel image sensor	Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP
Effective Pixels	1280 x 1024 pixels	Security	Password protection, IP address filtering, user access log
Sensitivity	2lux @ F1.2 (slow shutter enabled)	Users	Up to 20 users access at the same time
Signal to Noise	44dB	Ethernet	10/100M auto negotiation
Lens	f4.3mm / F:1.8	<b>System Integration</b>	
<b>Pan &amp; Tilt</b>		Application Programming Interface	Open API for software integration / SDK
Pan Degree / Tilt Degree	355° / -10~90°	Alarm Triggers	Intelligent video motion detection and external input
Manual Pan / Tilt Degree	180°/second (max); 120° / second (max)	Motion Detection	10-zone video motion detection
Preset Points / Camera Tour	128 preset points / 16 tours	Alarm Events	File upload via FTP or email Notification via email, HTTP, and TCP Go to PTZ preset position, Audio alerting output
<b>IP Module</b>		Video Buffer	Pre- and post- alarm buffering
<b>Video</b>		<b>General</b>	
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)	RAM	128MB
Video Format	11 formats simultaneously - H.264 SXGA/ VGA / QVGA / QQVGA - MPEG4 VGA / QVGA / QQVGA - M-JPEG SXGA/ VGA / QVGA / QQVGA	ROM	8MB
Frame Rate	Mega-pixel mode: Up to 15fps for all 11 formats VGA mode: Up to 30fps for all 9 formats	Power Supply	12V DC external power adapter
Image Setting	De-noise, Brightness, sharpness, contrast, Text, time and date overlay, Simultaneously multi-format streaming Streaming over UDP, TCP, or HTTP	Power Consumption	7W max (with WLAN and LEDs on) or 5W max (LEDs on but without WLAN)
Streaming	Multicast streaming M-JPEG streaming over HTTP Supports 3GPP mobile surveillance Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4 / H.264)	Power over Ethernet	Built in PoE splitter
<b>Audio</b>		Connectors	RJ-45 10BaseT/100BaseTX , DC jack, Audio in/out
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps / 3GPP: AMR	Indication LED	Two-Color LED
Audio Streaming	One-way or two-way	Illumination LED	4 high-light LEDs
Microphone	External microphone	Construction	Vandal proof housing with ceiling mount
Audio Output	Line level out	Operating Temperature	0°C to 40°C (32°F to 104°F)
		Operating Humidity	20% ~ 80% (non-condensing)
		<b>Viewing System</b>	
		OS	Windows® 2000, XP, Vista
		Browser	IE 6.0 or latter / Firefox 2.0 or later
		Cell Phone	With 3GPP player
		Video Player	VLC, Quick Time, Real Player
		Weight (with Package)	Approximately 1.4kg



## H.264 Mega IP CAMERA Outdoor Series

### Vandal IP Dome \_ KG-IMM2203

Camera		System Integration	
Image Device	1.3Mega-pixel image sensor	Application Programming Interface	Open API for software integrationSDK
Effective Pixels	1280 x 1024 pixels	Alarm Triggers	Intelligent video motion detection and external input
Sensitivity	2lux @ F1.2 (slow shutter enabled)	Motion Detection	10-zone video motion detection
Signal to Noise	44dB	Alarm Events	File upload via FTP or emailNotification via email, HTTP, and TCPExternal output activationGo to PTZ
Lens	3.7-12mm Vari-focal lens	Video Buffer	preset positionAudio alerting output Pre- and post- alarm buffering
IP Module		General	
Video		RAM	128MB
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)	ROM	8MB
Video Format	11 formats simultaneously - H.264 SXGA/ VGA / QVGA / QQVGA - MPEG4 VGA / QVGA / QQVGA - M-JPEG SXGA/ VGA / QVGA / QQVGA	Power Supply	12V DC external power adapter
Frame Rate	Mega-pixel mode: Up to 15fps for all 11 formats VGA mode: Up to 30fps for all 9 formats	Power Consumption	7W max (with WLAN and LEDs on) or 5W max (LEDs on but without WLAN)
Image Setting	De-noiseBrightness, sharpness, contrastText, time and date overlay	Power over Ethernet	Built in PoE splitter
Streaming	Simultaneously multi-format streamingStreaming over UDP, TCP, or HTTP Multicast streamingM-JPEG streaming over HTTPSupports 3GPP mobile surveillance Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4 / H.264)	Connectors	RJ-45 10BaseT/100BaseTX, DC jack, 1 alarm input and 1 output Audio in/out, RS485
Audio		Indication LED	Two LEDs
Audio Encoder	"RTSP: G.711 64kbps, G.726 32kbps3GPP: AMR"	IR LED	-
Audio Streaming	One-way or two-way	IR Wavelength	-
Microphone	External microphone	IR Distance	-
Audio Output	Line level out	Illumination LED	-
Network		Protection Class	IP66 indoor or outdoor use, Vandal and weather proof
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP	Construction	3-axis mechanical design
Security	Password protection, IP address filtering, user access log	Operating Temperature	0°C to 40°C (32°F to 104°F)
Users	Up to 20 users access at the same time	Operating Humidity	20% ~ 80% (non-condensing)
Ethernet	10/100M auto negotiation	Viewing System	
		OS	Windows® 2000, XP, Vista
		Browser	IE 6.0 or latter / Firefox 2.0 or later
		Cell Phone	With 3GPP player
		Video Player	VLC, Quick Time, Real Player
		Weight (with Package)	Approximately 1.3kg



## H.264 Mega IP CAMERA Outdoor

### IR 30M Fixed Camera \_ KG-IMM2605

Camera		System Integration	
Image Device	1.3Mega-pixel image sensor	Application Programming Interface	Open API for software integrationSDK
Effective Pixels	1280 x 1024 pixels	Alarm Triggers	Intelligent video motion detection and external input
Sensitivity	2lux @ F1.2 (slow shutter enabled)	Motion Detection	10-zone video motion detection
Signal to Noise	44dB	Alarm Events	- Event server: FTP server, SMTP server, Samba server. File upload video clip or snapshot - Notification via email, HTTP, and TCP - External output activation - Go to PTZ preset position (RS485) - Audio alerting output
Lens	f4.3mm / F:1.8	Video Buffer	Pre- and post- alarm buffering
IP Module		General	
Video		Power Supply	12V DC external power adapter
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)	PoE	IEEE 802.3af (for IR LEDs, image sensor, and IP module only)
Video Format	11 formats simultaneously - H.264 SXGA/ VGA / QVGA / QQVGA - MPEG4 VGA / QVGA / QQVGA - M-JPEG SXGA/ VGA / QVGA / QQVGA	Power Consumption	1200mA max
Frame Rate	Mega-pixel mode: Up to 15fps for all 11 formats VGA mode: Up to 30fps for all 9 formats	Connectors	- RJ-45 10BaseT/100BaseTX / - DC jack / - 1 alarm input and 1 output / - Audio in/out / - RS485
Image Setting	De-noiseBrightness, sharpness, contrastText, time and date overlay	Indication LED	Two LEDs
Streaming	Simultaneously multi-format streamingStreaming over UDP, TCP, or HTTP Multicast streamingM-JPEG streaming over HTTPSupports 3GPP mobile surveillance Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4 / H.264)	IR LED	High-light LED×56pcs
Audio		IR Wavelength	850 mm
Audio Encoder	"RTSP: G.711 64kbps, G.726 32kbps3GPP: AMR"	IR Distance	30M
Audio Streaming	One-way or two-way	Protection Class	IP-66 classification
Microphone	External microphone	Operating Temperature	Operating : -10 to 50 °C , Storage : -30 to 60°C
Audio Output	Line level out	Operating Humidity	20% ~ 80% (non-condensing)
Network		Viewing System	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP	OS	Windows® XP, Vista
Security	Password protection, IP address filtering, user access log	Browser	IE 6.0 or latter / Firefox 2.0 or later / Safari
Users	Up to 20 users access at the same time	Cell Phone	With 3GPP player
Ethernet	10/100M auto negotiation	Video Player	VLC, Quick Time, Real Player
		Weight (with Package)	Approximately 1.5kg

	H.264 CCD		H.264 Mega			
Type	Indoor Box Type IP Cam	Outdoor IR 25M Fixed IP Cam	Indoor IP Dome	Indoor Vandal Pan/Tilt IP Cam	Outdoor Vandal IP Dome	Outdoor IR 30M Fixed IP Cam
Model	KG-IB201S(N/P)	KG-IU200S(N/P)	KG-IMM2202	KG-IMM2304	KG-IMM2203	KG-IMM2605
System						
Ethernet	10/100MB		10/100MB			
Video Compression	H.264 & MPEG4 & JPEGsimultaneously		H.264 & MPEG4 & JPEGsimultaneously			
Multi-Streaming	9 stream format simultaneously		11 stream formats simultaneously			
Frame Rate	H.264: 4CIF / CIF / QCIF MPEG4: 4CIF / CIF / QCIF MJPEG: 4CIF / CIF / QCIF		H.264: SXGA/ VGA / QVGA / QQVGA MPEG4: VGA / QVGA / QQVGA M-JPEG: SXGA/ VGA / QVGA / QQVGA			
Max Resolution	Mega-pixel mode: 15fps VGA mode: Up to 30fps for all 9 streaming formats		Mega-pixel mode: 15fps VGA mode: Up to 30fps for all 9 streaming formats			
Audio	704*480		SXGA (1280* 1024)			
Streaming	2-way / AMR,G.711,G.726		2-way / AMR,G.711,G.726			
Protocols	<ul style="list-style-type: none"> <li>* Simultaneously multi-format streaming</li> <li>* Streaming over UDP, TCP, or HTTP</li> <li>* Multicast streaming</li> <li>* M-JPEG streaming over HTTP</li> <li>* Supports 3GPP mobile surveillance</li> <li>* Controllable frame rate and bandwidth</li> <li>* Constant and variable bit rate (MPEG4 / H.264)</li> </ul>		<ul style="list-style-type: none"> <li>* Simultaneously multi-format streaming</li> <li>* Streaming over UDP, TCP, or HTTP</li> <li>* Multicast streaming</li> <li>* M-JPEG streaming over HTTP</li> <li>* Supports 3GPP mobile surveillance</li> <li>* Controllable frame rate and bandwidth</li> <li>* Constant and variable bit rate (MPEG4 / H.264)</li> </ul>			
Motion Detection	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, Samba		TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, Samba			
Max clients	Up to 10 motion detection windows		Up to 10 motion detection windows			
PTZ	Up to 20 users access at the same time		Up to 20 users access at the same time			
Digital zoom	Use mouse push wheel to magnify the image		Use mouse push wheel to magnify the image			
Sensor	1/3 Sony Super HAD CCD	1/3 Sony CCD	1.3M progressive sensor			
F,f	C/CS ring lens, Auto Iris support	f=6mm	f:4.3mm / F:1.8	f:4.3mm / F:1.8	f:4-9mm	f:6mm / F:1.6
Sensitivity	Color: 0.5 lx.(30IRE, F1.2, AGC) Black&White:0.08 lx. (30IRE, F1.2, AGC)	0.1 Lux, 0Lux at IR on	2lux @ F1.2 (slow shutter enabled)			
LED	-	High-light IR LED* 14pcs	-	-	-	High-light LED×56pcs
LED distance (D&N)	-	25M IR Distance	-	-	-	25-30M
ICR	V	X	-	-	-	V
Pan degree	-	-	-	355°	-	-
Tilt degree	-	-	-	+90° ~ -10°	-	-
Pan speed	-	-	-	1~ 180 °/second (max)	-	-
Tilt speed	-	-	-	1~ 120 °/second (max)	-	-
Preset point	-	-	-	128	-	-
Camera tour	-	-	-	16 groups	-	-
Image flip/mirror	V	V	V	V	V	V
I/O & Power						
Audio Input	External MIC	External MIC+Builin MIC	External MIC	External MIC	External MIC	External MIC
Audio Output	Line out	Line out	Line out	Line out	Line out	Line out
I/O Port	DI:1 / DO:1	DI:1 / DO:1	DI:1 / DO:1	DI:1 / DO:1	DI:1 / DO:1	DI:1 / DO:1
RS485	V	V	V	X	V	V
PoE	V	V	V	V	V	V
Power	12V DC / 3W	12V DC / 3W	12V DC / 3W	12V DC / 5W	12V DC / 3W	2pcs 12V DC adaptor (one for IR IP; one for heater)
Construction	Indoor Use	IP66 weather proof	IP66 weather proof	IP65 vandal proof	weather proof and vandal proof	IP66 with Heater&Fan
Bundle	Free bundle 16ch. KG NVR Lite		Free bundle 16ch. KG NVR Lite			
Professional	Optional 16ch. KG NVR Standard		Optional 16ch. KG NVR Standard			

# H.264 IP SPEED DOME Indoor / Outdoor with OSD / OSD+OT

<b>Speed Dome Type</b>	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Model Name (OSD)	KG-IS236SI	KG-IS236SO	KG-IS226SI	KG-IS226SO	KG-IS218SI	KG-IS218SO
Model Name (OSD + OT)	KG-IS236SI-T	KG-IS236SO-T	KG-IS226SI-T	KG-IS226SO-T	KG-IS218SI-T	KG-IS218SO-T
<b>CCD Module</b>	1/4 type EXview HAD CCD					
Image sensor	NTSC PAL					
Signal system	NTSC	PAL	NTSC	PAL	NTSC	PAL
Number of total pixels	Approx. 380,000 pixels	Approx. 440,000 pixels	Approx. 380,000 pixels	Approx. 440,000 pixels	Approx. 380,000 pixels	Approx. 440,000 pixels
Horizontal Resolution	High Resolution Mode ON: 530TV Lines (Default) High Resolution Mode OFF: 470TV Lines (NTSC) / 460TV Lines (PAL)					
Lens	<b>36x</b> optical zoom, F1.6 to F4.5 f=3.4mm(wide)-122.4mm(tele)		<b>26x</b> optical zoom, F1.6 to F3.8 f = 3.5mm(wide) to 91.0mm(tele)		<b>18x</b> optical zoom, F1.8 to F2.1 f = 5.1mm(wide) to 51.0mm(tele)	
Digital zoom	12x (432x with optical zoom)		12x (312x with optical zoom)		12x (216x with optical zoom)	
Angle of view (H)	57.8° (wide end)-1.7° (tele end)		54.2° (wide end) to 2.2° (tele end)		48.0° (wide end) to 2.8° (tele end)	
Min. working distance	320mm (wide) to 1500mm (tele)		320mm (wide) to 1500mm (tele)		290mm (wide) to 800mm (tele)	
Sync system	Internal / External (V-lock)					
Minimum illumination	1/60 s mode: 1.4 lx (typical) (F1.6, 50 IRE) 1/4 s mode: 0.1 lx (typical) (F1.6, 50 IRE)		1/60 s mode: 1.4 lx (typical) (F1.6, 50 IRE) 1/4 s mode: 0.1 lx (typical) (F1.6, 50 IRE)		1/60 s mode: 0.7 lx (typical) (F1.4, 50 IRE) 1/4 s mode: 0.07 lx (typical) (F1.4, 50 IRE)	
S/N ratio	More than 50 dB					
Electronic shutter	1/1 to 1/10,000 s, 22 steps					
White balance	Auto, ATW, Indoor, Outdoor, One-push, Manual					
Gain	Auto / Manual (-3 to 28 dB, 2dB steps)					
AE control	Auto, Manual, Priority mode, Bright, EV compensation, Back-light compensation Slow AE					
Extend Dynamic Range	ON/OFF					
Back-light compensation	On / Off					
Privacy zone masking	On / Off (24 positions, 8position per screen) / 14 colors + Mosaic					
Character Generator	Mode: ON/OFF (White Balance, Gain etc...) / Title: 11 Lines (20 characters per line)					
Flicker cancel	Auto		Auto		Auto	
Focusing system	Auto (Sensitivity: normal, low), One-push AF, Manual, Infinity, Interval AF, Zoom trigger AF					
Picture effects	E-Flip, Mega Art, Black & White, Mirror Image, freeze					
Video output	VBS: 1.0 Vp-p (sync negative), Y/C					
Camera control interface	VISCA (TTL signal level), baud rate: 9.6 Kb/s, 19.2 Kb/s, 38.4 Kb/s, 1 or 2 Stop bit selectable					
Auto ICR	V					
Video motion detection	V					
Multi-Line OSD	V (Up to eleven lines with 20 characters per line)					
Slow AE response	V					
Slow shutter	V					

<b>OT Function</b>		Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, Samba
Track Mode	(1).Automatic Track Mode(2).Manual Track Mode(3).Area Track Mode	Motion Detection	Up to 10 motion detection windows
Maximum Track Speed	1Xzoom maximum track speed Horizontal: 60 Degree/Second Vertical: 60 Degree/Second	Max clients	Up to 20 users access at the same time
Precision of Track	Still precision of track(still targets):0.2 degree(±1 pixel) Moving track(moving targets):0.2 degree(±1 pixel)	<b>PTZ Function</b>	
Area Track	Up to 4 areas are available	Electric motor	Stepper motor
<b>Network Function</b>		Preset	256 presets
Ethernet	10/100MB	Cruising scan	6 lines
Video Compression	H.264 & MPEG4 & JPEG simultaneously	Pattern scan	4 lines
Multi-Streaming	9 stream format simultaneously H.264: 4CIF / CIF / QCIF MPEG4: 4CIF / CIF / QCIF/MJPEG: 4CIF / CIF / QCIF	left-right scan	1 line
Frame Rate	Mega-pixel mode: 15fps VGA mode: Up to 30fps for all 9 streaming formats	Privacy protection	8 zones
Max Resolution	704*480	Alarm input/output	input : 7 · output : 2
Audio	2-wayAMR, G.711,G.726.	Automatic rotating function	Automatically rotating 180° when vertical 90°
Streaming	- Simultaneously multi-format streaming - Streaming over UDP, TCP, or HTTP - Multicast streaming* M-JPEG streaming over HTTP - Supports 3GPP mobile surveillance - Controllable frame rate and bandwidth - Constant and variable bit rate (MPEG4 / H.264)	Automatic acclinic scan	360° is available
		Call highest speed of transferring preset	400°/s
		The speed of acclinic manual rotation	0.5°—200°/s
		Acclinic rotation range	360°constant rotation
		The speed of vertical manual rotation	0.5°—180°/s
		Communication baud rate	2400/4800/9600/19200bps

<b>General</b>		Indoor		Outdoor	
housing				IP66	
Weatherproof					
Dimensions		217 x 295 mm		238 x 295 mm	
Weight (kg)		OSD	OSD+OT	OSD	
		4.405 kg	4.485 kg	4.485 kg	
Power		AC24+4V · 50Hz			
Power consumption		indoor ball : 15W outdoor ball : 55W			
Environment temperature		indoor ball : -10~+50°C · outdoor ball : -40~+60°C			