



# PTZ Camera 721/821 E Series

- Al Engine Gen 2
- HDR Engine Gen3
- Crystal Engine Gen3
- Up to 5M Resolution and 30x Optical Zoom available
- Servo Feedback
- Vandal Proof and Weatherproof\*





# Perfect Balance of AI Performance and Affordability

Compared to baseline models, the computing power of this model has been increased by 6 times. This allows for faster processing, high accuracy, and improved recognition of smaller objects at the same resolution.



# HDR Engine Gen3

The latest HDR engine delivers excellent, natural high dynamic images. Both details of high light and low light areas are kept, and no blending artifacts are generated.



## Crystal Engine Gen3

Under extremely low light environment, Crystal engine gen3 delivers low noise, high quality image without compromising on details. In addition, it also keeps image sharp on motion object.



#### **Features**

- Sony Progressive Scan CMOS Sensor support up to 5M Resolution
- 5M, 30x Optical Zoom available
- Multi Exposure HDR
- ► Electrical Image Stabilizer (EIS) Support
- Multi Codec support (H.265/H.264/MJPEG)
- 3D Motion Compensated Noise Reduction
- Servo Feedback Zero Drifting
- ► ONVIF Profile S/G/T/M support

- Deep Neural Network Accelerated Engine
  - Detection and Recognition Human / Vehicle
  - Behavior Analytics Human / Vehicle / Object
- Smart Event function
  - External Input/ Motion Detection
  - Network Failure Detection/ Tampering Alarm
  - Periodical Event/ Manual Trigger/ Audio Detection
- Vandal Proof (IK10 Rating)\*
- Weatherproof (IP66)\*
- \* 821 Only

## **Custom Specification ( Default )**



cases operation ( z state)		
Sony 5M		
Image Sensor	Sony 5M	
	1/2.8" Progressive CMOS	
Effective Pixels	HxV = 2608 x 1964	
Video Resolution	2592 x 1944	
Pixel Size	2.0 μm	
Frame Rate	H.265	HDR 5M @30fps + 2M @30fps
(Maximum)	H.264	HDR 5M @30fps + 2M @30fps
	MJPEG	HDR 2M @30fps
Lens		
Minimum	Color	TBD lux
Illumination	B/W	TBD lux
Lens	Туре	40x Zoom Lens, P-Iris, Auto-Iris,
		F1.6
	Focal Length	4.25-170 mm
	Horizontal FOV	62.6° (wide), 1.9° (tele)
	Vertical FOV	48.8° (wide), 1.4° (tele)

System Integration		
Event Triggers	External Input, Analytics, Network Failure	
	Detection, Periodical Event, Manual Trigger	
Event Actions	External output Activation	
	Video and audio recording to edge storage	
	File Upload : FTP, network share and email	
	Notification: HTTP, FTP, email	
Intelligent Video Analytics		
General	Motion Detection/Audio Detection	
Analytics		
DNN Analytics	Face Detection/Tracking/Recognition	
	LPR Detection/Recognition	
	People Detection and Tracking	
	Human/Vehicle Classification	
	Object Classification/Recognition	

## **Common Specification**

Camera			
Day and Night	Removable IR-cut filter		
Shutter Time	1~1/10K sec.		
HDR	Gen3 Engine		
EIS	Yes		
Digital Zoom	12x		
Image Settings	Exposure, White Balance, Brightness, Sharpness,		
mage settings	Contrast, Saturation, Hue, Day/Night Threshold,		
	Noise Reduction, Backlight Compensation,		
	Text Overlay, Privacy Mask		
Rotation	180° rotation		
Pan/Tilt			
Pan/Tilt Range	Pan: 0~360° endless	Tilt :-10~100°	
Manual Speed	Pan: 0.1~90°/s	Tilt : 0.1~55°/s	
Preset Speed	Pan: 400°/s	Tilt: 300°/s	
Preset	256		
PTZ Mode	8 Sequence, 8 cruise, 4 auto pan		
Video Codec			
Compression	H.265/H.264/MJPEG		
Streaming	Up to 4 individually configurable streams in		
	H.265/H.264/MJPEG		
	Configurable resolution/frame rate/bandwidth		
	LBR/VBR/CBR in H.265/H	.264	
Audio Codec			
Compression	G.711/G.726/AAC/LPCM		
Streaming	2 way		
Audio Input	Line in		
Audio Output	Line out		
Network			
Interface	10/100/1000Mbps Ethernet		
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x		
Supported	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP,		
Protocols	DHCP, UPnP, SNMP, SMTP, RTP, RTSP, RTSPS,		
	HTTP, HTTPS, FTP, NTP, [	<u> </u>	
ONVIF	Profile S/G/T/M conform	nant	

General			
Casing	Metal and Plast	Metal and Plastic	
Power	721:		
	PoE+ IEEE802.3at, class 4, max TBD watt		
	AC24V, max TBD watt, max TBD VA		
	821:		
	PoE+ IEEE802.3	PoE+ IEEE802.3at, class 4, max TBD watt	
	AC24V, max TBD watt, max TBD VA		
Connectors	RJ45		
	AC24V, Termina	al Block	
	Alarm in x4, Ala	Alarm in x4, Alarm out x2, Terminal Block	
	Audio in, Terminal Block		
	Audio out, Tern	Audio out, Terminal Block	
	CVBS Connecto	r	
Storage	Support for mic	Support for microSD/microSDHC/microSDXC card	
	Support for rec	Support for recording to NAS	
Operating	721	-25°C~50°C, without heater	
Conditions	821	-40°C~50°C, with heater	
		10%~90%, No Condensation	
Storage	-20°C~70°C	-20°C~70°C	
Conditions			
Approvals	EMC	CE/FCC	
	Safety	RoHS	
	Environment	IP66*, IK10*	
Dimensions	721	Ø 212x264 mm	
	821	Ø 210x279 mm with Sunshield	
Weight	721	2.7 kg	
	821	3.1 kg	

<sup>\*821</sup> Only



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	Horizontal FOV	62.6° (wide), 1.9° (tele)
	Vertical FOV	48.8° (wide), 1.4° (tele)

Sony 2M		
Image Sensor	Sony 2M	
	1/2.8" Progressive CMOS	
Effective Pixels	HxV = 1936 x 1096	
Video Resolution	1920 x 1080	
Pixel Size	2.9 μm	
Frame Rate	H.265	HDR 2M @30fps + 2M @30fps
(Maximum)	H.264	HDR 2M @30fps + 2M @30fps
	MJPEG	HDR 2M @30fps
Lens		
Minimum	Color	TBD lux
Illumination	B/W	TBD lux
Lens	Туре	40x Zoom Lens, P-Iris, Auto-Iris,
		F1.6
	Focal Length	4.25-170 mm
	Horizontal FOV	66.5° (wide), 2.0° (tele)
	Vertical FOV	39.6° (wide), 1.2° (tele)



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