

# 4K IR External PTZ Camera

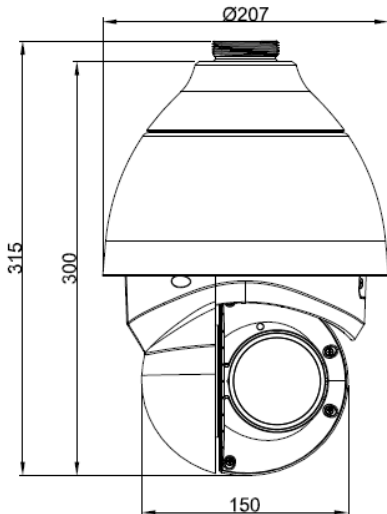
## SY-IRPTZ22-LLU

The Synectics IR PTZ Camera utilises advanced image processing technology, offering crisp 4K, high-quality real-time video. Its HDR capability captures more image detail under challenging light conditions.



The Synectics 4K multi-stream PTZ dome IR camera is equipped with a Sony Exmor™ progressive scan CMOS sensor providing outstanding video resolution, and the capability to stream H.264 and H.265 simultaneously.

The PTZ dome camera provides 4K 50/60fps streaming or true WDR at 25/30fps. Coupled with its 22x AF zoom lens, it is capable of viewing subjects over long distances with ease.




# Specifications

CAMERA		SY-IRPTZ22-1LU
Image Sensor	1/1.8" Sony Progressive CMOS	
Effective Pixels	3864 (H) x 2180 (V)	
Resolution	H.265 / H.264 / MJPEG 4K / Full HD 1080p / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF / QVGA	
Min Illumination Color	0.113 Lux	
Min Illumination B&W	0.169 Lux	
Shutter Speed	1 ~ 1/10000 sec	
LENS		
Lens Mount	N/A	
Lens	22x AF / 6.4-138.5 mm	
FOV	64° (Wide); 3° (Tele)	
F Number	F1.5 (Wide)	
P Iris	Y	
Focus Mode	Auto, Push AF, Manual, Zoom Trigger	
Digital Zoom	10x	
PTZ OPTIONS		
Pan Travel	360° Endless	
Tilt Travel	-10° ~ 190°	
Manual Speed	Pan : 0.1~90°/s Tilt : 0.1~55°/s	
Presets	256	
Preset Accuracy	0.225°	
Preset Speed	Pan: 9° ~ 400° / Sec, Tilt: 7° ~ 300° / Sec.	
Sequence	8	
Auto Pan	4	
Cruise	8	
Proportional Pan / Tilt	On / Off (Pan and tilt speed proportional to zoom ratio)	
Home Function	Preset / Sequence / Auto Pan / Cruise	
Auto Flip	Mechanical / Off	
Image Rotation	Mirror / 0° / 90° / 180° / 270°	
STREAMING OPTIONS		
Compression	H.265 / H.264 / MJPEG	
ONVIF Profile	G / M / S / T support	
Streaming Support / Encoding Channels	Up to Quad Stream support	
Stream	NTSC: H.265/H.264 4K @30fps + H.265/H.264/MJPEG 960 X 544 @30fps PAL: H.265/H.264 4K @25fps + H.265/H.264/MJPEG 1080p @25fps	
Stream 1 Max Resolution and Max FPS	NTSC: H.265/H.264 4K @30fps PAL: H.265/H.264 4K @25fps	
Stream 2 Max when Stream 1 is set to Max Resolution and FPS	NTSC: H.265/H.264/MJPEG 960 X 544 @30fps PAL: H.265/H.264/MJPEG 1080p @25fps	
Stream 1 "Standard" Resolution and FPS	NTSC: H.265/H.264 4K @30fps PAL: H.265/H.264 4K @25fps	
Stream 2 Max when Stream 1 is set to "Standard" Resolution and FPS	NTSC: H.265/H.264 1080p @30fps PAL: H.265/H.264 1080p @25fps	
Min/Max Bitrate	64 / 10240 (kbps)	
Max Number Unicast Streams	16	

OPERATION	
ICR	On / Off
LED Numbers	16
LED Distance	Up to 100 m
White Balance <sup>*1</sup>	Auto / ATW / Smart / One Push / Smart One Push / Manual
NR	2D / 3D / Color
BLC	Y
WDR	True WDR (Up to 120 dB)
DIS / EIS	Y
Motion Detection	On / Off / Schedule
Privacy Mask Type	8 Colors / 5 sets
Tamper Alarm	N/A
I/O Connector	9 of 14 Pin Terminal Block
Audio In	G.711 / G.726 / AAC / LPCM
Audio Out	G.711 / G.726 / AAC / LPCM
Audio Sample Rate	ACC: 48000 / Other: 8000
Analog Out	Y
Heater	Y
Fan	N/A
Alarm Input	4 Sets / 5V 10kΩ Pull Up
Alarm Output	2 Set / Relay output, max. 120mA DC 400V / 120mA AC 250V
Event Notification	HTTP / FTP / SMTP
Synectics Intelligent Edge Recording <sup>*1</sup>	Y
Onboard Storage	Up to 60 Seconds (Synectics Intelligent Edge Recording only)
SD Card Support	SDHC / SDXC Card Support
Ethernet Connector	RJ-45 Solid
Power Connector	3 Pin Terminal Block
Protocol	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS, ONVIF G, ONVIF M, ONVIF S, ONVIF T
Security	User Authentication / HTTPS / IP Filter / IEEE 802.1X
ENVIRONMENTAL	
Operating Temperature	-40°C~50°C/-40°F~122°F with heater
Storage Temperature	-20°C ~ 70°C (-4°F~158°F)
Humidity	10% ~ 90%, No Condensation
Vandal Resistant <sup>*2</sup>	IK10
IP Rating	IP66
GENERAL	
Power	IEEE802.3bt PoE, AC24V
Power Priority 1	AC24V
Power Priority 2	PoE
Power Failover	N/A
PoE Classification	Class 6
Power Consumption (Total Unit)	Max 59.05 W AC, Max 51 W PoE
Dimensions	ø 207.78 x 301.9 mm / ø 8.18 x 11.89" with sunshield
Weight	3.8 kg (8.34 lb)
Certification	CE / FCC

NOTE: \*1 Features are related to the firmware version. Please contact your Synectics representative for more details. \*2 Excluding glass window.

Diagrams

