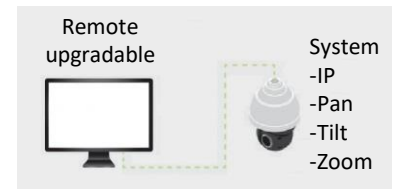


- ▲ All systems (P/T/Z/IP) are remote upgradable
- ▲ Servo Feedback
- ▲ High Dynamic Range (HDR)
- ▲ Electronic Image Stabilizer (EIS)
- ▲ H.265/H.264/MJPEG simultaneous streaming
- ▲ 2M/3M/4M resolution in one platform
- ▲ 30x/33x/40x Zoom Lens available
- ▲ Triple power support (UPoE / DC12V/ AC24V)
- ▲ IR LED built in



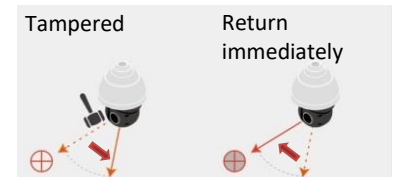
## All Systems (P/T/Z/IP) are Remote Upgradable

831 IR PTZ is remote upgradable for its software systems, including IP system, pan, tilt and zoom block. With this feature, the maintenance costs can be greatly reduced and new features can be added instantly.



## Servo Feedback

831 IR PTZ features Servo Feedback technology. When encountering external force, such as vandalism, or environmental vibration, the PTZ can return immediately to its original position.



## Features

- Multiple Progressive Scan CMOS Sensor support up to 4M Resolution
- Up to 40x Optical Zoom
- Multi Exposure HDR
- Electrical Image Stabilizer (EIS) Support
- Multi Codec support (H.265 / H.264 / MJPEG)
- Low Latency Streaming
- Quad Streams support
- IR LED (working distance up to 200m)
- BNC Analog Output for installation support
- RS485 support
- 3D Motion Compensated Noise Reduction (MCTF)
- Smart Event function- External Input/ Motion Detection/ Network Failure Detection/ Periodical Event/ Manual Trigger/ Audio Detection
- Text Overlay and Privacy Masks
- Micro SD/SDHC/SDXC Card support
- ONVIF Profile S/G/Q support
- Smart Low Bitrate control
- Weatherproof (IP66)
- Servo Feedback – Guarantees no Drifting
- Zero-Down-Time(ZDT) Power Switching

## Custom Specification ( Default )

Sony 3M		
Image Sensor	Sony 3M 1/2.8" Progressive CMOS	
Effective Pixels	HxV = 2065x 1553(3M)	
Pixel Size	2.5 μm	
Frame Rate (Maximum)	H.265 HDR 3M @30fps + 3M @30fps	
	H.264 HDR 3M @30fps + 3M @30fps	
	MJPEG 1080p @30fps	
Lens : Default		
Minimum Illumination	Color	0.04 lux
	B/W	0.002 lux
Lens	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6
	Focal Length	4.3-170 mm
	Horizontal FOV	62° (wide), 2° (tele)
	Vertical FOV	49° (wide), 1° (tele)

## Common Specification

Camera	
Day and Night	Automatically removable IR-cut filter
Shutter Time	1~1/10K sec.
HDR	Yes
EIS	Yes
Zoom	Optical zoom, digital zoom ready
Image Settings	Color, Brightness, Sharpness, Contrast White Balance, Exposure Control 2DNR, 3DNR, NR by Motion Masking, Text Overlay
Corridor Mode	90°, 180°, 270° rotation
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	10/100Mbps Ethernet
Security	User Authentication/HTTPS/IP Filter/IEEE 802.1x
Supported Protocols	ARP, PPPoE, IPv4/v6, ICMP, IGMP, QoS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, HTTP, HTTPS, FTP, NTP, DDNS
ONVIF	Profile S / G / Q conformant
System Integration	
Analytics	Motion Detection/Audio detection
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

General		
Casing	Metal and Plastic	
Power	UPoE	
	DC12V, 3.25A, max 39 watt AC24V, max 39 watt	
Connectors	RJ45	
	Alarm in x4, Alarm out x2, Terminal Block	
	DC12V Terminal Block	
	AC24V Terminal Block	
	Audio in Terminal Block	
	Audio out Terminal Block	
	CVBS Connector	
RS485 Terminal Block		
IR Illumination	Illumination distance: 200m	
Storage	Support for microSD/microSDHC/microSDXC card Support for recording to NAS	
Operating Conditions	-40°C~50°C (-40°F~122°F) with heater 10%~90%, No Condensation	
Storage Conditions	-20°C~70°C (-4°F~158°F)	
Approvals	EMC	CE / FCC
	Safety	LVD
	Environment	IP66
Dimensions	Ø207.4 x 300.4 mm with Sunshield	
Weight	3.8 kg	

## Custom Specification

### Options

Default

	Sony 3M, 40x		Sony 3M, 33x		Sony 3M, 30x	
Image Sensor	Sony 3M 1/2.8" Progressive CMOS					
Effective Pixels	HxV = 2065x1553(3M)					
Pixel Size	2.5 μm					
Frame Rate (Maximum)	H.265 HDR 3M @30fps + 3M @30fps H.264 HDR 3M @30fps + 3M @30fps MJPEG 1080p @30fps					
Lens	Type 1 (Zoom Lens)		Type 2 (Zoom Lens)		Type 3 (Zoom Lens)	
Minimum Illumination	Color	0.04 lux	Color	0.04 lux	Color	0.04 lux
	B/W	0.002 lux	B/W	0.002 lux	B/W	0.002 lux
Lens	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6
	Focal Length	4.3-170 mm	Focal Length	4.6-152 mm	Focal Length	4.3-129 mm
	Horizontal FOV	62° (wide), 2° (tele)	Horizontal FOV	58° (wide), 2° (tele)	Horizontal FOV	62° (wide), 2° (tele)
	Vertical FOV	49° (wide), 1° (tele)	Vertical FOV	45° (wide), 1° (tele)	Vertical FOV	47° (wide), 2° (tele)

### Options

	Omni Vision 4M, 40x		Omni Vision 4M, 33x		Omni Vision 4M, 30x	
Image Sensor	Omni Vision 4M 1/3" Progressive CMOS					
Effective Pixels	HxV = 2688x1520(4M)					
Pixel Size	2.0 μm					
Frame Rate (Maximum)	H.265 HDR 4M @30fps + 1080P @30fps H.264 HDR 4M @30fps + 1080P @30fps MJPEG 1080p @30fps					
Lens	Type 1 (Zoom Lens)		Type 2 (Zoom Lens)		Type 3 (Zoom Lens)	
Minimum Illumination	Color	TBD	Color	TBD	Color	0.1 lux
	B/W	TBD	B/W	TBD	B/W	0.01 lux
Lens	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6
	Focal Length	4.3-170 mm	Focal Length	4.6-152 mm	Focal Length	4.3-129 mm
	Horizontal FOV	TBD	Horizontal FOV	61° (wide), 2° (tele)	Horizontal FOV	66° (wide), 2° (tele)
	Vertical FOV	TBD	Vertical FOV	37° (wide), 1° (tele)	Vertical FOV	39° (wide), 1° (tele)

### Options

	Sony 2M, 40x		Sony 2M, 33x		Sony 2M, 30x	
Image Sensor	Sony 2M 1/2.8" Progressive CMOS					
Effective Pixels	HxV = 1945x 1097(2M)					
Pixel Size	2.9 μm					
Frame Rate (Maximum)	H.265 HDR 1080p @30fps + 1080p @30fps H.264 HDR 1080p @30fps + 1080p @30fps MJPEG 1080p @30fps					
Lens	Type 1 (Zoom Lens)		Type 2 (Zoom Lens)		Type 3 (Zoom Lens)	
Minimum Illumination	Color	0.02 lux	Color	0.02 lux	Color	0.02 lux
	B/W	0.001 lux	B/W	0.001 lux	B/W	0.001 lux
Lens	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6	Zoom Lens	focus, zoom, P-Iris, Auto-Iris, F1.6
	Focal Length	4.3-170 mm	Focal Length	4.6-152 mm	Focal Length	4.3-129 mm
	Horizontal FOV	67° (wide), 2° (tele)	Horizontal FOV	63° (wide), 2° (tele)	Horizontal FOV	67° (wide), 2° (tele)
	Vertical FOV	40° (wide), 1° (tele)	Vertical FOV	38° (wide), 1° (tele)	Vertical FOV	38° (wide), 1° (tele)