tyco | Illustra   Data Sheet

Standard
4K 44x Network IR PTZ Outdoor Camera

Key Benefits

- 1/1.2" Progressive Scan CMOS
- Up to 3840 × 2160 resolution
- Min. Illumination: Color: 0.002 Lux @(F1.6, AGC ON),B/W: 0.0002 Lux @(F1.6, AGC ON),0 Lux with IR
- 44× optical zoom, 16× digital zoom
- 120dB WDR, 3D DNR, EIS, HLC, Smart IR
- 24 VAC & Hi-PoE
- Up to 500m IR distance
- Support H.265+/H.265 video compression
- Support Rapid focus
- IP67
- Smart Detection & Tracking

The Illustra Standard IP IR PTZ outdoor camera Model ISV-P08Z441S-H is an excellent camera for security-critical environments where locating, tracking and zooming in on subject details with speed is vital. This versatile camera by Tyco is one of the most feature-rich cameras on the market today and boasts a 360° endless pan and -20°-90° tilt range and remarkable intelligence while supporting functions like Smart Tracking, Defog, ROI encoding, and HLC. Inbuilt IR LED is an outstanding feature as it enhances the camera's night vision capabilities of detection over long distances.

Camera Functions

The Illustra Standard IP PTZ incorporates a 1/1.2" high performance, progressive scan CMOS sensor for 4K quality images up to 3840 × 2160 resolutions at 30 FPS frame rate. The camera supports smart tracking, scheduled PTZ movement and 3D intelligent positioning function for auto tracking to the specified zone. The camera has a preset accuracy of ±0.1°. The camera excels while performing in low light conditions. A 3D DNR effectively reduces image noise in static as well as moving images. A host of other features like auto iris, auto focus, auto white balance and backlight compensation are also inbuilt into the camera including a convenient auto day and night switch.

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Complete Convenience with a Suite of Smart Functions

The camera has a host of intelligent features which make security surveillance a breeze for security staff. Apart from convenience, smart features are vital for rapid decision-making and responses in security alert situations. The camera supports a complete suite of smart functions that range from smart tracking, smart detection and smart recording.

Specifications

Camera	
Image Sensor	1/1.2" Progressive Scan CMOS
Min. Illumination	Color: 0.002 Lux @(F1.5, AGC ON), B/W: 0.0002 Lux @(F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1/1s to 1/30,000s
Focus	Auto, Semi-automatic, Manual
AGC	Auto, Manual
WDR	120 dB
Day & Night	IR cut filter
Digital Zoom	16x
SNR	≥ 52 dB
Lens	
Focal Length	7.15 mm to 314.6 mm, 44 × Optical
Zoom Speed	approx. 7.5 s
Field of View	Horizontal field of view: 60.4° to 1.7° (wide-tele) Vertical field of view: 36.2° to 0.9° (wide-tele) Diagonal field of view: 67.8° to 2.2° (wide-tele)
Aperture	F1.6
IR	
IR Distance	500m
Smart IR	Support
PTZ	
Movement Range (Pan)	360° endless
Movement Range (Tilt)	-20° to 90° (auto flip)
Pan Speed	Configurable, from 0.1°/s to 210°/s, Preset Speed: 280°/s
Tilt Speed	Configurable, from 0.1°/s to 150°/s, Preset Speed: 250°/s
Proportional Zoom	Support
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Power-off Memory	Support
Park Action	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan
3D Positioning	Support
PTZ Status Display	Support
Preset Freezing	Support
Scheduled Task	preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output
Video	
Max. Resolution	3840 × 2160
Main Stream	50 Hz: 25 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720),

Sub-Stream	50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG
Video Bit Rate	32 Kbps to 16384 Kbps
H.264 Type	baseline profile, main profile, high profile
H.265 Type	main profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
ROI	8 fixed regions for each stream
Image Enhancement	HLC, BLC, 3D DNR, Optical Defog, EIS, Regional Exposure, Regional Focus
Privacy Mask	up to 24 masks, polygon region, mosaic mask, mask color configurable
Audio	
Audio Compression	G.711alaw, G.711ulaw, G.722.1, G.726, MP2L2, PCM
Audio Bit rate	64 Kbps (G.711)/16 Kbps (G.722.1)/16 Kbps (G.726)/32 Kbps to 192 Kbps(MP2L2)
Smart Features	
Face Capture	Support detecting up to 30 faces at the same time. Support detecting, tracking, capturing, grading, selecting of face in motion, and output the best face picture of the face.
Face Comparison	Support
Road Traffic	Support vehicle detection (license plate number, vehicle model, and vehicle color recognition)
Basic Event	motion detection, video tampering alarm, alarm input and output, exception
Smart Event	unattended baggage detection, object removal detection, intrusion detection, line crossing detection, region entrance detection, region exiting detection, audio exception detection, vandal-proof alarm
Smart Tracking	Manual tracking, auto-tracking
Alarm Linkage	preset, patrol scan, pattern scan, memory card video recording, alarm output, sending email, notify surveillance center, upload to FTP, NAS video recording
Network	
Network Storage	NAS (NFS, SMB/ CIFS)
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, DHCP, PPPoE, UDP, IGMP, ICMP, Bonjour
ONVIF	Profile S, Profile G & Profile T
Simultaneous Live View	Up to 20 channels
User/Host	Up to 32 users 3 levels: Administrator, Operator and User
Cyber Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, basic and digest authentication for HTTP/HTTPS, RTP/RTSP over HTTPS, control timeout settings, security audit log, TLS 1.3, host authentication (MAC address)
Web Browser	IE11, Chrome 57.0+, Firefox 52.0+, Safari 11+
Interface	
Communication Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-board Storage	Built-in memory card slot, support Micro SD/SDHC/SDXC, up to 256 GB
RS-485	Pelco-P, Pelco-D, self-adaptive
Alarm Input/Output	7-ch alarm input/2-ch alarm output
Audio Input/Output	1-ch Mic. input, 2 to 2.4 V[p-p], 1 KΩ ± 10% 1-ch audio output, line level, impedance: 600 Ω
General	
Power	24 VAC (Max. 62 W, including max. 12 W for IR and max. 8 W for heater), PoE 802.3 bt (Max. 51 W, including max. 12 W for IR and max. 8 W for heater)
Operating Conditions	Temperature: -40°C to 70°C (-40°F to 158°F), Humidity: ≤ 95%
Wiper	Yes. Rain-sensing auto control
Dimensions	ø 267 mm × 430 mm (ø 10.51" × 16.93")
Weight	Approx. 9.6 kg (21.16 lb.)

Approvals	
Protection	IP67 (IEC 60529-2013), IK10 (excluding glass window), TVS 6000V lightning protection, surge protection and voltage transient protection
EMC	FCC SDoC (47 CFR Part 15, Subpart B); CE-EMC (EN 55032: 2015, EN 61000-3-2: 2019, EN 61000-3-3: 2013, EN 50130-4: 2011 +A1: 2014)
Safety	UL (UL 62368-1); BIS (IS 13252(Part 1):2010+A1:2013+A2:2015)
Environment	CE-RoHS (2011/65/EU); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)

Dimensions

Unit: mm

430

Φ 267
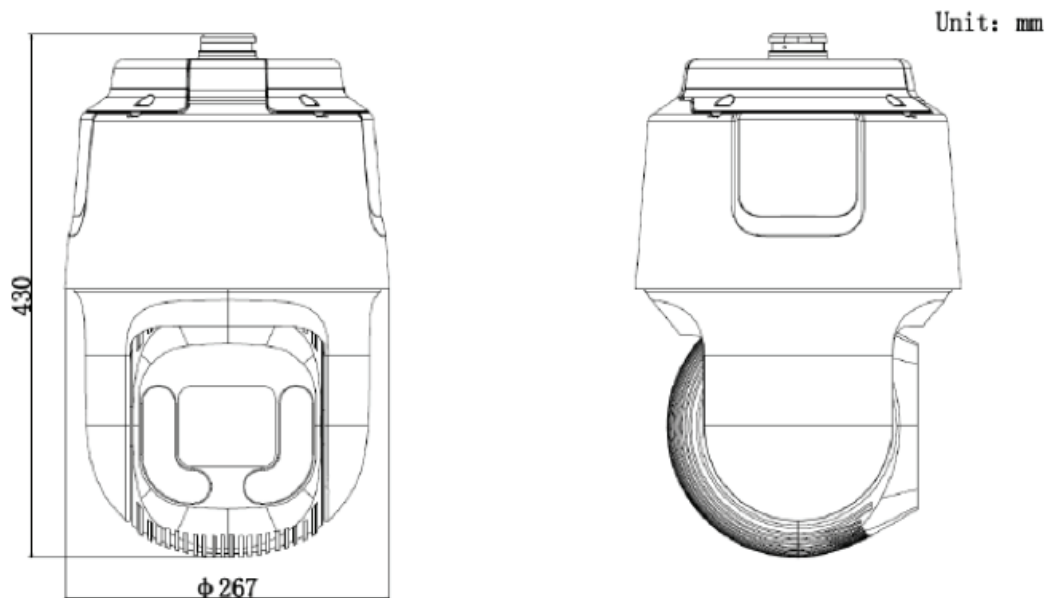
Ordering Information

	Model Number	Description
Camera	ISV-P08Z441S-H	H.265, 4K, 44x Network IR PTZ Camera, 1/1.2" CMOS, 500M IR, Micro SD, IP67, Smart IVA

About Johnson Controls

Johnson Controls is a global diversified technology and multi-industrial leader serving a wide range of customers in more than 150 countries. Our 120,000 employees create intelligent buildings, efficient energy solutions, integrated infrastructure and next generation transportation systems that work seamlessly together to deliver on the promise of smart cities and communities. Our commitment to sustainability dates back to our roots in 1885, with the invention of the first electric room thermostat.

For additional information, please visit www.tycosecurityproducts.in or follow Illustra on LinkedIn, Twitter, and Facebook.