

25x Starlight Dual Illumination PTZ IP Camera, WizSense AI



Smart Dual Illuminators (IR + White Light) IR mode white light turns on motion detection • WizSense AI • SMD 4.0 • Red & Blue Warning Light + Siren • Auto-Tracking • IR Distance up to 328ft • White Light up to 164ft • 25x Zoom (5-125mm) • 120dB WDR • 12VDC/3A or PoE+ (802.3at) • IP66

Overview

The Three-in-One Camera (TiOC) solution seamlessly integrates 24/7 monitoring, active deterrence, and real-time alarms with cutting-edge artificial intelligence. TiOC PTZ cameras feature auto-tracking 3.0 technology, expanding the monitoring scope for critical targets. This innovative solution saves time and reduces costs for distributors and installers.

Starlight Technology

Using advanced image processing and optical technology, Starlight technology captures clear and colorful video in low-light conditions. It finds wide application across various environments with low illuminance.

Smart H.265+ & Smart H.264+

Smart encoding technology employs an advanced scene-adaptive rate control algorithm, surpassing H.265 and H.264 in encoding efficiency. This ensures high-quality video, while reducing storage and transmission costs.

Perimeter Protection

The smartly filters out false alarms triggered by animals, rustling leaves, bright lights, and other non-threatening factors. Additionally, it employs secondary recognition during target detection, enhancing alarm accuracy.

Face Detection

Face Detection technology swiftly identifies faces in images. Using a deep learning algorithm, it excels in detecting, tracking, capturing, and selecting the best face image, resulting in precise face snapshots.

Protection (IP66, TVS 6000 V)

IP66, TVS 6000 V lightning proof, surge protection, and voltage transient protection.

Auto Tracking

The intelligent tracking feature automatically controls the camera's pan, tilt, and zoom to track moving objects, keeping them in constant view. Tracking can be triggered manually or automatically based on defined rules. Once a rule is activated, the camera seamlessly zooms in and tracks the designated target.

SMD 4.0

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FEATURES

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- 25x optical zoom.
- Starlight technology.
- Max. 25/30fps@4M.
- IR distance up to 100 m.
- Auto-tracking 3.0.
- Perimeter protection.
- Face detection.
- SMD 4.0.
- IP66.
- Full-color illuminator; red and blue warning light.

SPECIFICATIONS

Camera	
Image Sensor	1/2.8" CMOS
Pixel	4 MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	4 GB
RAM	1 GB
Electronic Shutter Speed	1/1 s-1/30,000 s
Scanning System	Progressive
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (illuminator on)
Illumination Distance	100 m (328.08 ft) (IR) 50 m (164.04 ft)(White light)
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off
Illuminator Number	2 (IR) / 2 (Dual light fusion)
Lens	
Focal Length	5 ~ 125 mm

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Max. Aperture	F1.6 - F3.6
Field of View	H: 51.9°-3.0°; V: 39.7°-2.2° D: 63.1°-3.7°
Optical Zoom	25×
Focus Control	Auto; semi-auto; manual
Close Focus Distance	0.1 m-0.5 m (0.33 ft-1.64 ft)
Iris Control	Auto; manual
DORI Distance	Detect: 2500m (8208.10 ft) Observe: 987.5 m(3239.83 ft) Recognize: 500 m(1640.42 ft) Identify: 250m(820.21 ft)
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: -15° to +90°, auto flip 180°
Manual Control Speed	Pan: 0.1°/s-200°/s Tilt: 0.1°/s-120°/s
Preset Speed	Pan: 240°/s Tilt: 200°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Pattern / Preset / Scan / Tour
Intelligence	
IVS (Perimeter Protection)	Tripwire / intrusion / crossing fence detection / loitering detection / abandoned/missing object / fast moving / parking detection / people gathering / vehicle/human alarm classification / linkage tracking

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Face Detection	Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among a group of snapshots. Attribute Extraction is also supported, where 6 attributes and 8 expressions can be detected. The attributes are gender, age, glasses, mask, mustache and expressions. The expressions are angry, sad, hate, scared, surprised, calm, happy and confused. Face cutout is also offered, where you can cutout one face at a time and customize the size to be a one-inch photo. The supported methods for capturing snapshots are real-time capturing, quality first, and selecting a preferred image among a group of snapshots.
Auto Tracking	Yes
SMD	Yes
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Active Deterrence	
Light Warning	Red and blue warning light. They can be configured to flash for 5 to 30 seconds with a high, medium or low frequency.
Sound Warning	Offers 11 types of sound alarms, and supports importing custom sound alarms.
Video	
Video Compression	H.264H / H.264B / Smart H.265+ / H.265 / MJPEG(Sub Stream) / Smart H.264+ / H.264M
Streaming Capability	3 streams
Resolution	4M (2560 × 1440) / 3M (2048 × 1536) / 3M (2304 × 1296) / 1080p (1920 × 1080) / 1.3M (1280 × 960) / 720p (1280 × 720) / D1 (704 × 576/704 × 480) / VGA (640 × 480) / CIF (352 × 288/352 × 240)
Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p@ (1-25/30 fps) Sub stream 1: D1/CIF/VGA@(1-25/30 fps) Sub stream 2: 1080p/1.3M/720p@(1-25/30 fps)
Bit Rate Control	CBR / VBR
Video Bit Rate	H264: 64 kbps-10496 kbps H265: 25 kbps-6400 kbps
Day/Night	Auto (ICR) / Color / B/W
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto / Indoor / Outdoor / Tracking / Manual / Sodium lamp / Natural light / Street lamp

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Gain Control	Auto / Manual
Noise Reduction	2D / 3D
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Electronic (EIS)
Defog	Electronic
Digital Zoom	16×
Image Rotation	180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available
S/N Ratio	≥ 55 dB
Audio	
Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	FTP / RTMP / IPv6 / Bonjour / IPv4 / DNS / RTCP / PPPoE / NTP / RTP / 802.1x / HTTPS / SNMP / TCP/IP / DDNS / UPnP / NFS / ICMP / UDP / IGMP / HTTP / SSL / DHCP / SMTP / QoS / RTSP / ARP
Interoperability	CGI / SDK / ONVIF (Profile S&G&T) / P2P
Streaming Method	Unicast/Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (512 GB) / FTP/SFTP / NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions Safari 10 and later versions
Management Software	DSS Pro
Mobile Client	iOS / Android
Certification	
Certifications	CE: EN55032/EN55024/EN50130 ~ 4 FCC: Part15 subpartB, ANSI C63.4 ~ 2014
Port	

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Audio Input	1 channel
Audio Output	1 channel
Alarm Linkage	Capture / recording / send email / preset / pattern / tour / alarm digital input / audio / warning light
Alarm Event	Motion/tampering detection / audio detection / network disconnection detection / IP conflict detection / memory card state detection / memory space detection
Alarm I/O	2/1
Audio I/O	1/1
Power	
Power Supply	12 VDC/3 A \pm 10% / PoE+ (802.3at)
Power Consumption	Basic: 7.0 W / Max.: 13 W (illuminator+heater+PTZ+speaker)
Environment	
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Operating Humidity	\leq 95%
Protection	IP66; TVS 6000 V lightning proof; surge protection; voltage transient protection
Structure	
Product Dimensions	269.9 mm \times Φ 160.0 mm (10.59" \times Φ 6.30")
Net Weight	2.6 kg (5.73 lb)
Gross Weight	4 kg (8.82 lb)