GX-HT-PTZ688X25-AI

8MP 25x Starlight IR WizSense Network PTZ Camera







Launched by Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on 's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

System Overview

Unique and elegant, the black semicircular sphere discreetly monitors from a distance without drawing undue attention to itself. It has a powerful optical zoom, and accurate pan, tilt and zoom capabilities, providing an all-in-one solution for long distance video surveillance of outdoor scenes. Together with infrared illumination and Starlight Technology, the camera is a great solution for dark, low light conditions. The series combines a day and night mechanical IR cut filter to produce high quality images in variable lighting conditions during the day, and True WDR for locations with direct sunlight and glare.

Functions

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

Starlight+ Technology

For challenging low-light conditions, 's Starlight Ultra-low Light Technology offers the best in light sensitivity, capturing color in vivid detail, even in lighting as low as 0.001 lux. The camera uses a set of optical features to balance light throughout the scene, producing clear images in dark environments.

PFA Technology

PFA technology has introduced new methods of judgment that ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms that ensure image clarity when zooming and that shorten focus time. This makes the camera highly advanced in its functions, substantially improving the quality of your experience.

- · 1/1.8" 8Megapixel CMOS
- · Powerful 25x optical zoom.
- · Starlight+ Technology.
- Max. 25/30fps@8MP.
- · IR distance up to 150 m.
- · Deep-learning-based perimeter protection.
- · Auto Tracking 3.0.
- · SMD 4.0.
- · Quick Pick.
- · PoE+.
- · IP67, IK10.













Interoperability

The camera conforms to ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of the manufacturer.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, a flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality videos without straining the network. Smart H.265+ technology outranks standard H.265 video compression, reducing bit rate and storage requirements by up to 70%.

Auto Tracking

This feature controls the pan, tilt and zoom actions of the camera to automatically track an object in motion, to keep it in view of the camera. Tracking can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

SMD 4.0

Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

Technical Specification			Supports face detection, face bounding box, capturing snapshots, uploading face snapshots, enhancing face images, and selecting a preferred image among
Camera			
Image Sensor	1/1.8" CMOS	Face Detection	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.
Pixel	4K		
Max. Resolution	3840(H) x 2160(V)		
ROM	4 GB		
RAM	1 GB		
Electronic Shutter Speed	1 s-1/30,000 s	Auto Tracking	Yes
Scanning System	Progressive	Quick Pick	With AI NVR, quickly pick up the human/vehicle
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux@F1.6 (IR light on)	SMD	targets that users are interested in from SMD events. Yes
Illumination Distance	150 m (492.13 ft) (IR)	Video	
Illuminator On/Off Control	Zoom Prio; Manual; Auto; Off	Video Compression	H.265; H.264B; H.264; H.264H; MJPEG(Sub Stream 1); smart H.265+; smart H.264+
Illuminator Number	4 (IR)	Streaming Capability	3 streams
Lens			4K (3840 × 2160); 4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 960p (1920 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480)
Focal Length	5.4 mm–135 mm	Resolution	
Max. Aperture	F1.6-F4.0		Main stream: 8M/4M/3M/1080p/1.3M/720p (1–25/30
Field of View	H: 61.6°-3.6°; V: 35.7°-2°; D: 66.6°-4°	Video Frame Rate	fps) Sub stream 1: D1/CIF/VGA (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Optical Zoom	25×	Bit Rate Control	CBR/VBR
Focus Control	Auto; semi-auto; manual	Video Bit Rate	H.264: 128 kbps–16,384 kbps H.265: 51 kbps–12,288 kbps
Close Focus Distance	0.1 m–2 m	Day/Night	Auto (ICR)/Color/B/W
Iris Control	Auto; manual; fixed	BLC	Yes
DORI Distance	Detect Observe Recognize Identify	WDR	120 dB
DORI DISTANCE	2700 m 1066 m 540 m 270 m (8858.27 ft) (3497.38 ft) (1771.65 ft) (885.83 ft)	HLC	Yes
PTZ			Auto; indoor; outdoor; tracking; manual; sodium lamp;
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: -15° to +90°, auto flip 180°	White Balance	natural light; street lamp
Manual Cantual Speed	Pan: 0.1°/s-300°/s	Gain Control	Auto; manual
Manual Control Speed	Tilt: 0.1°/s–140°/s	Noise Reduction	2D NR; 3D NR
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Motion Detection	Yes
Preset	300	Region of Interest (RoI)	Yes
Tour	8 (up to 32 presets per tour)	Image Stabilization	Electronic(EIS)
Pattern	5	Defog	Electronic
Scan	5	Digital Zoom	16×
Power-off Memory	Yes	Image Rotation	180°
Idle Motion PTZ Protocol	Pattern; Preset; Scan; Tour DH-SD Pelco-P/D (Auto recognition)	Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; multiple colors available
Intelligence	ST 30 Felico 1/0 (Auto recognition)	S/N Ratio	≥ 55 dB
memgence	Tripwire; intrusion; climbing fences; loitering	Audio	
IVS (Perimeter Protection)	detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking	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; UPn NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qo: RTSP; ARP	
Interoperability	ONVIF(Profile S&G&T);CGI;SDK	
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	DMSS; DSS Pro	
Mobile Client	iOS; Android	
Certification		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL: UL60950-1+CAN/CSA C22.2,No.60950-1	
Port		
Audio Input	1 channel (LINE IN, bare wire)	
Audio Output	1 channel (LINE OUT, bare wire)	
Alarm Linkage	Capture; recordings; send email; preset; tour; patter alarm digital input	
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card status detection; memory space detection	
Alarm I/O	2/1	
Audio I/O	1/1	
Power		
Power Supply	24 VDC/2.5 A ± 25% PoE+ (802.3at)	
Power Consumption	Basic: 12 W Max.: 21 W (IR light + PTZ)	
Environment		
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Operating Humidity	≤ 95%	
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)	
Storage Humidity	≤ 95%	
Protection	IP67, IK10, TVS 6000 V lightning proof; surge protection; voltage transient protection	
Structure		
Product Dimensions	Φ190 mm × 332 mm (Φ7.48" × 13.07")	
Net Weight	4.7 kg (10.36 lb)	
Gross Weight	8.0 kg (17.64 lb)	

Ordering Information					
Туре	Model	Description			
8MP WizSense PTZ Camera	GX-HT-PTZ688X25-AI	8MP 25x Starlight IR WizSense Network PTZ Camera			
	GX-HT-PTZ688X25-AI	8MP 25x Starlight IR WizSense Network PTZ Camera			
Accessories	PFB305W	Wall Mount Bracket			
	DC 24 V/2.5 A	Power Adapter			
	PFA111	Mount Adapter			
	PFA140	Power Box			
	PFB300C	Ceiling Mount Bracket			
	PFA120	Junction Box			
	PFA150	Pole Mount Bracket			
	PFA151	Corner Mount Bracket			
	PFB303S	Parapet Mount Bracket			

Accessories

Included:





PFB305W Wall Mount Bracket

DC 24 V/2.5 A Power Adapter

Optional:



PFA111

Mount Adapter

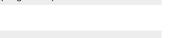




PFA140

Power Box







PFA150 Pole Mount Bracket



PFA151 Corner Mount Bracket



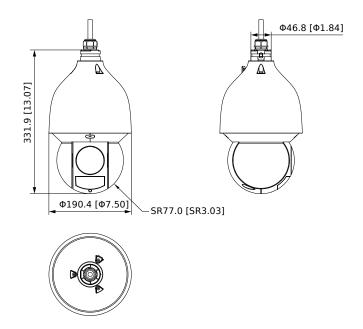
Pole Mount Bracket

PFA120

Junction Box

WalMount	CeilingMount	CeilingMount
PFB305W+PFA120	PFA111+PFB300C	PFA111+PFB301C
PoleMount(Vertical)	Corner Mount	PoleMount(Horizontal)
PFB305W+PFA150	PFB305W+PFA151	PFA111+PFB300C+PFA150

Dimensions (mm[inch])





- Markham Head Office: 1-866-946-8998 7755 Warden Ave, Unit 1, Markham ON L3R 0N3, CA
- Mississauga Branch: 1-855-999-6998 1200 Aerowood Dr, Unit 5, Mississauga ON L4W 2S7, CA