

# GX-HT-PTZ404-AI

## 4M 4x Starlight IR WizSense Network PTZ Camera





Launched by Galaxy 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 Galaxy's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

### **System Overview**

Galaxy WizSense PTZ camera adopts advanced CNN deep learning algorithms to support primeter protection with high accuracy. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

### **Functions**

### **People Counting**

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting accuracy.

### **Starlight Technology**

For challenging low-light applications, Galaxy's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

### **Environmental**

Galaxy cameras operate in extreme temperature environments, rated for use in temperatures from-30 °C to +60 °C (-22 °F to +140 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

- · 1/2.8" 4Megapixel STARVIS™ CMOS
- · Starlight technology
- · Max. 25/30fps@4MP
- · 4x optical zoom
- · Face Detection, People Counting, Perimeter Protection
- · IR distance up to 15m
- · SMD Plus
- · PoE
- · IP66, IK08

















#### **Protection**

The camera allows for  $\pm 15\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

#### Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR optimizes both the bright and dark areas of a scene at the same time to provide usable video.

### H.265+

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



Technical Specification				Artificial Intelligence		
Camera						Count people entering and exiting the area (crossing people counting); count people staying in the area (in-
Image Sensor	1/2.8" STARVIS™ CMOS				People Counting	area people counting); display and export reports by day, week and month.
Pixel	4MP					Tripwire and intrusion. Support alarm triggering by
Max. Resolution	2560 (H) × 1440 (V)				Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
ROM	4GB				SMD Plus	lights, etc. Support
RAM	1GB				Face Detection	Support
Electronic Shutter Speed	1/1 s-1/30,000 s				Video	Support
Scanning System	Progressive					H.265; H.264BaselineProfile; H.264MainProfile;
Min. Illumination	Color: 0.005Lux@F1.8 B/W: 0.0005Lux@F1.8 OLux (IR light on)				Compression Streaming Capability	H.264HighProfile; MJPEG (Sub Stream); H.265+; H.264+ 3 streams
Illumination Distance		15 m (49.21 ft)				4M (2560 x 1440); 3M (2048 x 1536); 1080P (1920 x
Illuminator On/Off Control	Zoom Prio/N	Manual/SmartI	R		Resolution	1080); 1.3M (1280 x 960); 720P (1280 x 720); D1 (704 x 576/704 x 480); CIF (352 x 288/352 x 240)
Illuminator Number	3	Zoom Prio/Manual/SmartIR			Frame Rate	Main stream: 4M/3M (1–25/30fps), 1080P/1.3M/720P (1–25/30fps) Sub stream 1: D1/CIF (1–25/30fps)
Lens					27.2	Sub stream 2: 720P (1–25/30fps), D1/CIF (1–25/30fps)
Focal Length	2.8 mm-12	mm			Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Max. Aperture	F1.8-F2.7				Bit Rate	H.264/H.265/MJPEG: 3 kbps–20480 kbps
Field of View	H: 31.6°-96.9° V: 17.8°-51.4°				Day/Night	Auto (ICR)/Color/B/W
Ontical 7a am	D: 36.4°-116.2°				BLC	Support 120 dB
Optical Zoom	4x				WDR	
Focus Control		Auto/Semi-Auto/Manual			HLC	Support  Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/
Close Focus Distance Iris Control	0.2 m-0.5 m (0.66 ft-1.64 ft)				White Balance	Natural light/Street lamp
ITS CONTO	Auto	Observe	Dagagniza	Idontifu	Gain Control	Auto/Manual
DORI Distance	Detect 147.0 m	Observe 58.8 m	Recognize 29.4 m	Identify 14.7 m	Noise Reduction	2D/3D
	(482.28 ft)	(192.91 ft)	(96.46 ft)	(48.23 ft)	Motion Detection	Support
PTZ					Region of Interest (RoI)	Support
Pan/Tilt Range	Pan: 0°–355 Tilt: 5°–90°	0			Electronic Image Stabilization	Support
Manual Control Speed	Pan: 0.1°/s-7 Tilt: 0.1°/s-3				Electronic Defog	Support
Decet Coasi	Pan: 80°/s	50 /5			Digital Zoom	16x
Preset Speed	Tilt: 40°/s				Flip	0°/180°
Presets	300				Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Tour	8 (up to 32 p	oresets per tou	ır)		Audio	
Speed Adjustment	Support				Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723
Power-off Memory	Support				Network	
Idle Motion	Preset/Tour				Ethernet	RJ-45 (10/100Base-T)
General Intelligence		ection, Video t			Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3(MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP
Event Trigger	Network disconnection, IP address conflict, Illegal Access, Storage anomaly		Interoperability	ONVIF Profile S&G&T CGI		
IVS	Object Abandoned/Missing				Streaming Method	Unicast/Multicast

# **Wiz Sense** | GX-HT-PTZ404-AI

User/Host	20
Storage	FTP; Micro SD card (256G); P2P
Browser	IE; Chrome; Firefox; Safari (no version restriction)
Management Software	SmartPSS DSS
Mobile Phone	iOS/Android

## Certification

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
	UL62368-1+CAN/CSA C22 2 No. 62368-1

## Port

Audio Input	1(Line in; bare wire or built in Mic)
Audio Output	1

## Power

Power Supply	DC12V/1.5A±15% PoE (802.3af)
Power Consumption	3W 8.5W (IR on)

### Environment

Operating Temperature	-30°C to +60°C (-22°F to 140°F)
Operating Humidity	≤95%
Protection	IK08; IP66; TVS 6000V lightning proof; surge protection

### Structure

Dimensions	Φ128.0 mm × 65.4 mm (5.04" × 2.57")
Net Weight	0.485 kg (1.06 lb)
Gross Weight	0.7 kg (1.54 lb)

## **Ordering Information**

Туре	Model	Description
	GX-HT-PTZ404-AI	4M 4x Starlight IR WizSense NetworkPTZ Camera
4MP WizSense		
PTZ Camera		
	PFA107	Mount Adapter
	PFB305W	Wall Mount Bracket
	PFA120	Junction Box
Accessories	PFA140	Power Box
recessories	PFA151	Corner Mount Bracket
	PFB220C	Ceiling Mount Bracket
	PFA150	Pole Mount Bracket
	DC12V/1.5A	Power Adapter

## **Accessories**

## **Optional:**



PFA107 Mount Adapter



PFB305W Wall Mount Bracket



PFA120 Junction Box



PFA140 Power Box

PFB220C

Ceiling Mount Bracket



Pole Mount Bracket

PFA151 Corner Mount Bracket

DC12/1.5A Power Adapter

Ceiling Mount (1)	Wall Mount	Ceiling Mount (2)
	PFA107+PFB305W	PFA107+PFB220C
Pole Mount (1)	Pole Mount (2)	Corner Mount
Pole Mount (1) PFA107+PFB305W+PFA150	Pole Mount (2) PFA107+PFB220C+PFA150	Corner Mount PFA107+PFB305W+PFA151

## Dimensions (mm[inch])



