

## 4GPTZ 544D

4G LTE Wireless 4MP Dual-Lens PTZ Camera with 25x Optical Zoom, AI Smart Detection and Night ColorVu



### Outstanding Features

- 4 Megapixels Wide Angle + PTZ dual-lens camera
- 360° endless monitoring, 25x optical zoom
- Supports the linkage between panoramic and PTZ camera, the PTZ camera will track an object that is selected in the panoramic camera
- 24/7 Night ColorVu with F1.0 large aperture and advanced sensor
- Efficient H.265+ compression technology
- Clear imaging against strong backlight due to 130 dB WDR technology
- AI Smart feature with human and vehicle targets classification based on deep learning
- Provide alarm I/O and audio I/O to connect to horn and microphone
- Built-in 4G LTE wireless access, compatible with AT&T, T-Mobile, or Verizon carriers

### What is included in this camera:

- IPTZ544D-25X dual-lens PTZ camera
- Wall-mount bracket and pole-mount bracket (suitable for poles with diameters of 3.94" to 7.87" or 100mm to 200mm)
- 4G LTE Cellular router (SIM card purchased separately)
- DC12V power adapter
- Free mobile App for both Android & iOS (App name: Guarding Vision)

## Specification

<b>Camera</b>	
	[Bullet channel]: 1/3" Progressive Scan CMOS; [PTZ channel]: 1/2.8" progressive scan CMOS
Image Sensor	
Min. Illumination	[Bullet channel]: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light; [PTZ channel]: Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with IR
Shutter Speed	1 s to 1/30,000 s
Slow Shutter	yes
Focus	semi-auto,manual,auto
Zoom	[PTZ channel] 25 × optical, 16 × digital
Day & Night	ICR
Day/Night Switch	day, night, auto, scheduled-switch
White Balance	auto,ATW,sodium lamp,fluorescent lamp,indoor,outdoor,MWB,Locked WB
Max. Resolution	[Bullet channel] 2560 × 1440, [PTZ channel] 2560 × 1440
<b>Lens</b>	
Focal Length	[Bullet channel]: 2.8 mm; [PTZ channel]: 4.8 to 120 mm, 25 × optical
Zoom Speed	[PTZ channel]: approx. 3.6 s
FOV	[Bullet channel]: Horizontal field of view: 96.1°, Vertical field of view: 52.1°, Diagonal field of view: 113.3°; [PTZ channel]: Horizontal field of view: 55° to 2.4° (wide-tele), Vertical field of view: 33° to 1.4° (wide-tele), Diagonal field of view: 61.5° to 2.8° (wide-tele)
Aperture	[Bullet channel]: F1.0; [PTZ channel]: F1.6
<b>Illuminator</b>	
Supplement Light Type	[PTZ channel]: IR; [Bullet channel]: White Light
Smart Supplement Light	Yes
Supplement Light Range	[PTZ channel]: up to 100 m; [Bullet channel]: up to 30 m
<b>PTZ</b>	
Movement Range (Pan)	360°
Movement Range (Tilt)	-15° to 90° (auto flip)
Pan Speed	pan speed: configurable from 0.1° to 80°/s; preset speed: 80°/s
Tilt Speed	tilt speed: configurable from 0.1° to 80°/s; preset speed 80°/s
Proportional Zoom	yes
Presets	300
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans
Power-off Memory	yes
Park Action	preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan
3D Positioning	yes
PTZ Status Display	yes
Preset Freezing	yes
Scheduled Task	preset,pattern scan,patrol scan,auto scan,tilt scan,random scan,frame scan,panorama scan,dome reboot,dome adjust,aux output
Exception Detection	IP address conflict, HDD full, illegal login, HDD error, network disconnected, Abnormal Reboot
<b>Video</b>	
Region of Interest (ROI)	8 fixed regions for each stream
Stream Type	main stream,sub-stream,third stream
Main Stream	[Bullet channel]: 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) [PTZ channel]: 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720) 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	[Bullet channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240) [PTZ channel]: 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288) 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	[Bullet channel]: 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) [PTZ channel]: 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.264,MJPEG

## Specification

Video Bit Rate	32 kbps to 16384 kbps
H.264 Type	baseline profile,main profile,high profile
H.265 Type	main profile
H.264+	yes
H.265+	yes
SVC	yes
<b>Audio</b>	
Audio Compression	G.711,G.722.1,G.726,MP2L2,PCM,AAC-LC
Audio Bit Rate	32 to 160 Kbps (MP2L2),16 to 64Kbps (AAC-LC)
Audio Sampling Rate	8 kHz,16 kHz,32 kHz,48 kHz
Environment Noise Filtering	yes
<b>Smart Features</b>	
Smart Record	ANR,Dual-VCA
<b>Network</b>	
4G LTE Bands	CAT M: B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/ B28/B66/B85 CAT NB: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/ B71/B85 GSM/EDGE: 850/900/1800/1900 MHz
API	Open Network Video Interface (Profile S, Profile G, Profile T),ISAPI,SDK,JSUP
Network Storage	NAS (NFS, SMB/ CIFS), ANR
Protocols	IPv4/IPv6,HTTP,HTTPS,802.1x,Qos,FTP,SMTP,UPnP,SNMP,DNS,DDNS,NTP,RTSP,RTCP,RTP,TCP/IP,UDP,IGMP,ICMP,DHCP,PPPoE,Bonjour,WebSocket,WebSockets
Simultaneous Live View	20
User/Host	32
Security Measures	Authenticated username and password,MAC address binding,HTTPS encryption,802.1X authenticated access,IP address filter
Client	Guarding Vision
Web Browser	IE 10+, Chrome 57+, Firefox 52+, Safari 12+
<b>Image</b>	
Image Settings	sharpness, saturation, brightness, contrast
Wide Dynamic Range (WDR)	120 dB
SNR	≥ 52 dB
Defog	Digital defog
Image Stabilization	EIS
Image Enhancement	BLC,HLC,3D DNR
Regional Focus	Yes
Regional Exposure	Yes
Image Parameters Switch	Yes
Privacy Mask	[Bullet channel] 8 programmable polygon privacy masks, [PTZ channel] 24 programmable polygon privacy masks; mask color or mosaic configurable
<b>Interface</b>	
Communication Interface	1 RJ45 port for POE power only, no data access via Ethernet
On-board Storage	Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB
Alarm Input	1 alarm input
Alarm Output	1 alarm output
Audio Input	1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%
Audio Output	1 audio output, line level, impedance: 600 Ω
<b>Event</b>	
Basic Event	motion detection, video tampering alarm, alarm input and output, exception
Smart Event	audio exception detection, line crossing detection, intrusion detection, region entrance detection, region exiting detection
Alarm Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording
<b>Deep Learning Function</b>	
Face Capture	[Bullet channel] no,[PTZ channel] yes

## Specification

General	
General Function	mirror,password protection,watermark,IP address filter
Power	12VDC, PoE+
Power Consumption and Current	Max. 24 W, including max. 2.6 W for heater and max. 11 W for supplement light
Operating Conditions	-30°C to 65°C (-22°F to 149°F) ,humidity lower than 90%RH
Reset	yes
Demist	Demist by heating the glass
Material	ADC12
Dimensions	Ø 166 mm × 375 mm (Ø 6.5" × 14.7")
Weight	Approx. 2.4 kg (13.2 lb.)
Approval	
Protection	IP66 Standard, 6000 V Lightning Protection, Surge Protection and Voltage Transient Protection

## DORI

The DORI (detect, observe, recognize, identify) distance gives the general idea of the camera ability to distinguish persons or objects within its field of view. It is calculated based on the camera sensor specification and the criteria given by EN 62676-4: 2015.

DORI	Detect	Observe	Recognize	Identify
Definition	25 px/m	63 px/m	125 px/m	250 px/m
Distance (Tele)	2200.0 m (7217.85 ft)	873.0 m (2864.17 ft)	440.0 m (1443.57 ft)	220.0 m (721.78 ft)

## Dimension

