

Solar VPTZ CCTV

4G Remote CCTV Monitoring System



Camera

- High quality imaging with 2 MP resolution
- Efficient H.264/H.265 Dual Stream Encoding
- See in Total Darkness with IR LED
- Imprint Date/Time and Customised Text on the Video Recording
- Integrated Recording with Onboard Storage*

Cloud Storage Recording Services (Optional)

- Backup Secondary Server/Storage Recording*

Island wide 4G Coverage via 4G Telco Sim Card

- Integrated 4G LTE Router
- Apple iOS/Android App
- Full Remote View/Playback/Snapshot/Download Control Capability

Off Grid Operation

- Solar Powered System

**Storage size integrated depend on project recording requirement,*

Note: Picture for illustration only, actual product may vary depends on requirements.

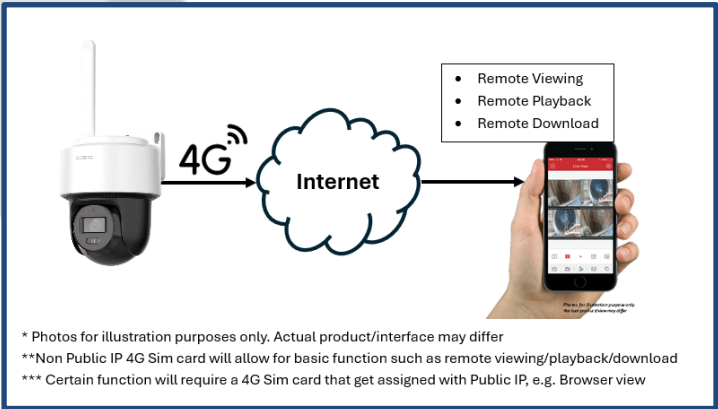
4G PT(D)Z Camera



Camera Key Specification

Len	2.8 mm, Horizontal Field Of View 94°
Day & Night	IR cut filter, IR Range Up to 30 m
Min. Illumination	0 lux with IR Light
Manual Adjustment	Pan: 0° to 350°; Tilt: 0° to 120°;
Image Sensor	1/2.7" Progressive Scan CMOS
Effective Pixels	2560 (H) × 1440 (V)
Shutter Time	1/3 s to 1/100,000 s
Protection Level	IP66 (Water and dust resistant)

Note: Picture for illustration only, actual product may vary depends on requirements.
Equipment Models are subjected to change without notice due to stock availability/newer model replacement.
All equipment used will meet the tender requirement/specification.



Manufacturer Specification for CCTV Camera*

CAMERA	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	2560 × 1440
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON), B/W: 0 Lux with IR
Shutter Time	1/3 s to 1/100,000 s
Day & Night	IR cut filter
LENS	
Type	Fixed Focal Lens
Focal Length & FOV	2.8 mm, horizontal FOV 94°, vertical FOV 49°, diagonal FOV 114°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
PTZ	
Movement Range (Pan)	0° to 345°
Movement Range (Tilt)	0° to 80°
Pan Speed	Up to 25°/s
Tilt Speed	Up to 20°/s
DORI	
DORI Distance	2.8 mm: Detect: 68 m, Observe: 27 m, Recognize: 13 m, Identify: 6 m
ILLUMINATOR	
Supplement Light Type	IR, White Light
Supplement Light Range	Up to 30 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
VIDEO	
Main Stream	50 Hz: 20 fps (2560 × 1440, 1920 × 1080, 1280 × 720) 60 Hz: 20 fps (2560 × 1440, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 20 fps (768 × 432) 60 Hz: 20 fps (768 × 432)
Video Compression	Main stream: H.265/H.264, Sub-stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 8 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Bit Rate Control	CBR, VBR
Region of Interest (ROI)	1 fixed region for main stream
Scalable Video Coding (SVC)	H.264 and H.265 encoding
AUDIO	
Audio Type	Mono sound
Audio Sampling Rate	8 kHz/16 kHz
Environment Noise Filtering	Yes
Audio Compression	G.711/AAC-LC
Audio Bit Rate	64 Kbps (G.711ulaw)/16 to 64 Kbps (AAC-LC)
NETWORK	
API	ONVIF (Profile S, Profile G, Profile T), ISAPI, SDK, ISUP
Security	Password protection, complicated password, HTTPS encryption, watermark, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for Open Network Video Interface, RTP/RTSP over HTTPS, security audit log, TLS 1.2, TLS 1.3, host authentication (MAC address)
Simultaneous Live View	Up to 6 channels
Protocols	TCP/IP, ICMP, DHCP, DNS, DDNS, HTTP, RTP, RTCP, RTSP, NTP, IGMP, IPv4, IPv6, UDP, QoS, SMTP, SNMP
User/Host	Up to 32 users 3 user levels: administrator, operator, and user
Client	iVMS-4200, Hik-Connect
Web Browser	Local service: IE11, Chrome 57.0+, Firefox 52.0+, Edge 89+

MOBILE COMMUNICATION	
Standard	LTE-FDD,LTE-TDD
Frequency	EU: LTE-FDD: B1/3/5/7/8/20/28 IN: LTE-FDD: B1/3/5/8, LTE-TDD: B34/38/39/40/41 LA: LTE-FDD: B2/3/4/5/7/8/28/66 NA: LTE-FDD: B2/4/5/12/13/17/66/71
Uplink and Downlink Data Rate	EU: uplink: 5.1 Mbps, downlink: 10.3 Mbps IN: uplink: 5.1 Mbps, downlink: 10.3 Mbps LA: uplink: 5.1 Mbps, downlink: 10.3 Mbps NA: uplink: 50 Mbps, downlink: 150 Mbps
SIM Card Type	Nano SIM
IMAGE	
Wide Dynamic Range (WDR)	Digital WDR
SNR	≥ 52 dB
Day/Night Switch	Day,Night,Auto,Schedule
Image Enhancement	BLC,HLC,3D DNR
Image Settings	Saturation,brightness,contrast,sharpness,gain,white balance,adjustable by client software or web browser
Privacy Mask	4 programmable polygon privacy masks
INTERFACES	
Ethernet Interface	1 RJ45 10 M/100 M self-adaptive Ethernet port
On-Board Storage	Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB
Built-in Microphone	1 built-in microphone
Built-in Speaker	Max. power consumption: 1.5 W, max. sound pressure level: 10 cm: 95 dB.
Reset Key	Yes
EVENT	
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)),video tampering alarm,exception
Linkage	Upload to FTP/memory card, notify surveillance center, send email, trigger recording, trigger capture, audible warning, auto-tracking lite
GENERAL	
Power	12 VDC ± 25%, 0.75 A, max. 9 W,Ø5.5 mm coaxial power plug, reverse polarity protection,
Dimension	131.9 mm × 164 mm × 312.6 mm (5.19" × 6.46" × 12.31") 131.9 mm × 164 mm × 332.6 mm (5.19 × 6.46" × 13.10")"
Material	Plastic
Startup and Operating Conditions	-30 °C to 40 °C (-22 °F to 104 °F). Humidity 95% or less (non-condensing)
Language	English, Ukrainian
General Function	Heartbeat,anti-banding,mirror,password protection,password reset via email

* Specifications are subjected to change without notice as different model may be used in final assembly to meet different project requirement.

Optional Cloud Storage Service

(Depends on requirements)



FEATURES

- Allow back up video footage to the cloud, thereby avoiding video loss.
- Auto cache videos to fit in with ever-changing network conditions.
- Provide multiple types of cloud storage packages for different scenarios.
7 Days, 30 Days – Monthly/Annual Subscription
90 Days, 180 Days, 365 Days - Annual Subscription
- Encrypt videos to ensure data security.

Remarks

*7-Day: Videos are stored in the cloud for 7 days, after which they are overwritten. Note that videos older than 7*24 hours will be deleted, even without new recordings. Longer retention periods, such as 30-day, 90-day, or 180-day, are available for cloud storage backups.*

Monthly: The validity period of the service package is 1 month. Annual: The validity period of the service package is 1 year. The package is valid from the time when you activate it for the channel.

Event: Store the video recordings triggered by events (motion detection, line crossing detection, etc.) in the cloud. 24/7: Store the videos recorded 24/7 in the cloud.