

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*

Backup Secondary Server/Storage Recording (Optional)

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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.

2MP Camera



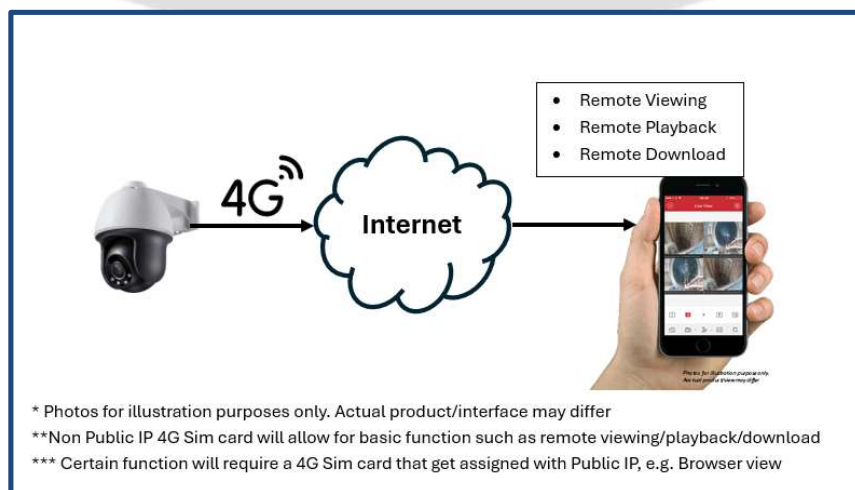
Camera Key Specification

| | |
|--------------------------|------------------------------------|
| Len | 4 mm, Horizontal Field Of View 79° |
| 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 | 2 MP CMOS image sensor |
| Effective Pixels | 1920 (H) × 1080 (V) |
| Shutter Time | 1/3 s to 1/10000 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 | 1/3" Progressive Scan CMOS |
| Shutter Speed | 1/3 to 1/10000 s |
| Slow Shutter | Yes |
| Aperture | 4 mm: F1.6 |
| Lens | Fixed focal lens (2.8 mm / 4 mm / 6 mm) |
| Minimum Illumination | 0 lux with IR/white Light |
| Day/Night Mechanism | IR Cut Filter |
| Day/Night Switch | Unified/ Scheduled/ Auto |
| Digital Noise Reduction | 3D DNR |
| WDR | DWDR |
| Weatherproof Rating | IP66 |
| IR Working Distance | 30m |
| Pan/Tilt Range | Pan: 0° to 350°, Tilt: 0° to 120° |
| Illumination Distance | 30 m |
| Viewing Angle | (4mm) Horizontal FOV: 79°, Vertical FOV: 43°, Diagonal FOV: 93° |
| Digital Zoom | Yes |
| LENS | |
| Type | Fixed Focal Lens |
| Focal Length | 4 mm |
| Aperture | F1.6 |
| FOV | 4mm: Horizontal FOV: 79°, Vertical FOV: 43°, Diagonal FOV: 93° |
| DORI Distance | 4 mm: Detect: 80 m (262 ft) Observe: 33 m (109 ft) Recognize: 16 m (52 ft) Identify: 8 m (26 ft) |
| PTZ | |
| Pan/tilt Range | Pan: 0° to 350°, Tilt: 0° to 120° |
| Pan/tilt Speed | Pan Speed: Configurable from 1° to 55°/s; Preset Speed: 55°/s Tilt Speed: Configurable from 1° to 40°/s, Preset Speed 40°/s |
| Manual Control Speed | Configurable from 8° to 35°/s |
| Presets | 300 |
| Patrol Scan | 8 patrols, up to 8 presets for each patrol |
| Power-off Memory | Yes; Auto restore to previous PTZ and lens status after power failure |
| Park Action | Yes; Preset; Patrol Scan |
| 3D Positioning | Yes |
| ANGLE ADJUSTMENT (MANUAL) | |
| Range | Pan: 0° to 348°, Tilt: 0° to 120° |
| ILLUMINATOR | |
| IR LED | Quantity: 2, Range: 30m, Wavelength: 850nm |
| Illuminator On/Off Control | Auto/Scheduled/Always on/Always off |
| VIDEO | |
| Max. Resolution | 2560 X 1440 |
| Main Stream | Frame Rate: 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps Resolution: 2560x1440, 2304x1296, 2048x1280, 1920x1080 |
| Sub-Stream | Frame Rate: 50Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps 60Hz: 1fps, 5fps, 10fps, 15fps, 20fps, 25fps, 30fps Resolution: 640x480, 352x288, 320x240 |
| Bit Rate Control | CBR, VBR |
| Video Compression | Main Stream: H.265+/H.265/H.264+/H.264 Sub-Stream: H.265/H.264 |

| | |
|-----------------------------------|--|
| H.264 Type | Main Profile/High Profile |
| H.264+ | Main Stream Supported |
| H.265 Type | Main Profile |
| H.265+ | Main Stream Supported |
| Video Bit Rate | Main Stream: 256 Kbps to 4 Mbps Sub-Stream: 64 Kbps to 512 Kbps |
| IMAGE | |
| Image Settings | Mirror, Brightness, Contrast, Saturation, Sharpness, Exposure, WDR, White Balance, Prevent Overexposure to Infrared Light, HLC Adjustable by Client Software |
| Image Enhancement | BLC/3D DNR/HLC/SmartIR |
| Wide Dynamic Range | DWDR |
| SNR | = 52 dB |
| Image Parameters Switch | Yes |
| Privacy Mask | Up to 4 Masks |
| ROI | 1 Region |
| OSD Setting | Yes |
| AUDIO | |
| Audio Communication | Two-Way Audio |
| Audio Input | Yes |
| Audio Output | Yes |
| Audio Compression | Yes |
| Audio Sampling Rate | 8KHz |
| Environment Noise Filtering | Yes |
| Audio Bit Rate | 64 Kbps(G.711 alaw) |
| NETWORK | |
| Protocol | TCP/IP, UDP, ICMP, HTTP, HTTPS, DHCP, DNS, RTSP, NTP, UPnP UDP, SSL/TLS |
| ONVIF | Yes |
| API | ONVIF |
| Simultaneous Live View | 3 Main Streams & 3 Sub-Streams |
| Web Browser | Google Chrome® 57 and above, Firefox® 52 and above, Safari® 11 and above, Microsoft® Edge 91 and above |
| Security | Password Protection, HTTPS Encryption, IP Address Filter, Digest Authentication |
| ALARM AND EVENT MANAGEMENT | |
| Smart Event | Area Intrusion Detection, Line-Crossing Detection, People Detection |
| Basic Event | Motion Detection, Video Tampering Detection, Exception (Illegal Login) |
| Alarm Linkage | Memory Card Video Recording, Message Push, Audible Warning, White Light Flashing |
| Linkage Method | N/A |
| Output Notification | Message Push |
| INTERFACES | |
| Network Interface | 1 RJ45 10/100M Self-Adaptive Ethernet Port |
| Audio Input | Built-in Microphone |
| Audio Output | Built-in Speaker |
| Alarm | N/A |
| Reset Button | Yes |
| Power | DC Power Port |
| Button | Reset Button |
| On-board Storage | Built-In Memory Card Slot, Support MicroSD Card, Up to 512 GB |
| Built-in Microphone | Yes; Records Anything Going on within a 15-ft Radius of the Camera |
| Built-in Speaker | Yes |
| Audio | N/A |
| GENERAL | |
| Operating Temperature | -30~60 °C |
| Storage Temperature | -40~60 °C |
| Operating Humidity | 95% or Less (Non-Condensing) |
| Storage Humidity | 95% or Less (Non-Condensing) |

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

Optional Backup Secondary Server

(Depends on requirements)



Recorder Key Specification

| | |
|----------------------------|---|
| Video Compression | H.265 Pro/H.265 |
| Encoding Resolution | 5 MP Lite/4 MP lite/1080p/720p/VGA/WD1/4CIF/CIF |

Video And Audio

| | |
|-----------------------|------------------------------------|
| IP Video Input | 1-ch Up to 6 MP resolution Support |
|-----------------------|------------------------------------|

Network

| | |
|---------------------------|--|
| Remote Connections | 32 |
| Network Interface | 1, RJ45 10M/100M self-adaptive Ethernet interface, |

Auxiliary Interface

| | |
|----------------------|-------------------------------|
| Storage | Integrated 500GB eSSD Storage |
| USB Interface | 2 × USB 2.0 |

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