

Solar 5MP Fixed CCTV

4G Remote CCTV Monitoring System



Camera

- High quality imaging with 5 MP resolution @ 25FPS
- 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

- 4G LTE Router/Component
- 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.

8MP Camera

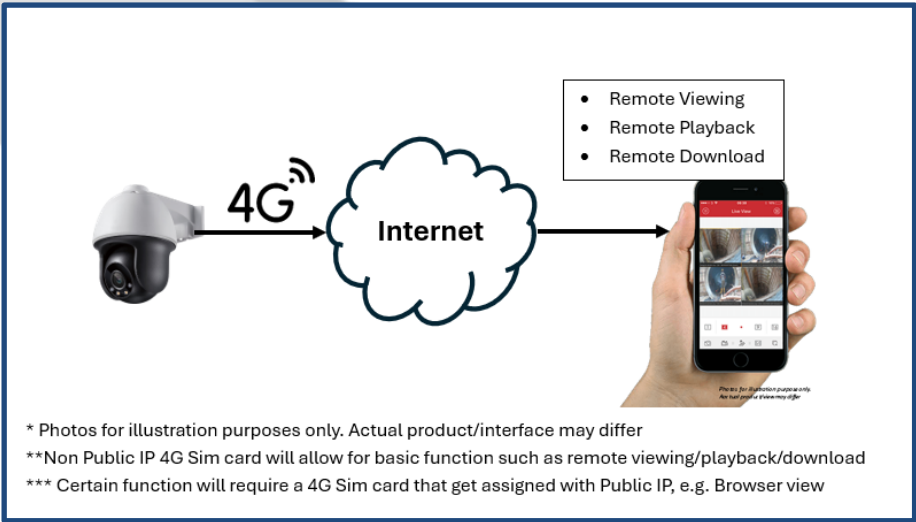
(Configured as 5MP to achieve 25FPS)



Camera Key Specification

Len	2.8mm, Horizontal FOV 108° Vertical FOV 59°
Day & Night	IR cut filter, IR Range Up to 40 m
Min. Illumination	Color: 0.005 Lux @ (F1.6, AGC ON),B/W: 0 Lux with IR
Manual Adjustment	Pan: 0° to 360°,tilt: 0° to 90°,rotate: 0° to 360°
Image Sensor	2 MP CMOS image sensor
Effective Pixels	8MP(20FPS) – 3840(H) × 2160(V) 5MP(25FPS) – 3200(H) x 1800(V)
Shutter Time	1/3 s to 1/10000 s
Protection Level	IP67 (Water and dust resistant)

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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	1/2.8" Progressive Scan CMOS
Max. Resolution	3840 × 2160
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
Angle Adjustment	Pan: 0° to 360°, tilt: 0° to 90°, rotate: 0° to 360°
Image Sensor	1/2.8" Progressive Scan CMOS
LENS	
Lens Type	Fixed focal lens, 2.8mm
Focal Length & FOV	2.8 mm, horizontal FOV 108°, vertical FOV 59°, diagonal FOV 127°
Lens Mount	M12
Iris Type	Fixed
Aperture	F1.6
Depth of Field	2.8 mm: 1.7 m to ∞
DORI Distance	2.8 mm: Detect: 84 m (276 ft) Observe: 33 m (109 ft) Recognize: 16 m (52 ft) Identify: 8 m (26 ft)
ILLUMINATOR	
Supplement Light Type	IR, White Light
Supplement Light Range	Up to 40 m
Smart Supplement Light	Yes
IR Wavelength	850 nm
VIDEO	
Main Stream	50 Hz: 20 fps (3840 × 2160) 25 fps (3200 × 1800, 2688 × 1520, 1920 × 1080, 1280 × 720)
Sub-Stream	50 Hz: 25 fps (1280 × 720, 640 × 480, 640 × 360)
Third Stream	50 Hz: 10 fps (1920 × 1080, 1280 × 720, 640 × 480, 640 × 360) *Third stream is supported under certain settings.
Video Compression	Main stream: H.265/H.264/H.264+/H.265+, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264, *Third stream is supported under certain settings.
Video Bit Rate	32 Kbps to 16 Mbps
H.264 Type	Baseline Profile, Main Profile, High Profile
H.265 Type	Main Profile
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Bit Rate Control	CBR, VBR
Region of Interest (ROI)	1 fixed region for main stream and sub-stream
Target Cropping	Yes
NETWORK	
Protocol	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv4, IPv6, UDP, Bonjour, SSL/TLS, PPPoE, SNMP, WebSocket, WebSockets
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G), ISAPI, SDK, ISUP
Security	Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.1/1.2/1.3, WSSE and digest authentication for Open Network Video Interface

User/Host	Up to 32 users
3 user levels: administrator, operator, and user	
Client	iVMS-4200,Hik-Connect,Hik-Central
Network Storage	NAS (NFS, SMB/CIFS),Auto Network Replenishment (ANR), Together with high-end Hikvision memory card, memory card encryption and health detection are supported.
Web Browser	Plug-in required live view: IE 11, Plug-in free live view: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+, Local service: Chrome 80+, Firefox 80+, Edge 89+, Safari 13+
IMAGE	
Image Parameters Switch	Yes
Day/Night Switch	Day,Night,Auto,Schedule
Image Settings	Rotate mode
Wide Dynamic Range(WDR)	120 dB
SNR	≥ 52 dB
Image Enhancement	BLC,HLC,3D DNR
Privacy Mask	8 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
Reset Key	Yes
DEEP LEARNING FUNCTION	
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
EVENT	
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
GENERAL	
Operating Temperature	12 VDC ± 25%, 0.5 A, max. 6 W,reverse polarity protection,Ø5.5 mm coaxial power plug, PoE: IEEE 802.3af, Class 3, max. 7.5 W
Material	Metal
Dimension	Ø74.4 mm × 176.3 mm (Ø2.93" × 6.94")
Package Dimension	234 mm × 120 mm × 117 mm (9.21" × 4.72" × 4.61")
Weight	Approx. 515 g (1.1 lb.)
Storage Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
Startup and Operating Conditions	-30 °C to 60 °C (-22 °F to 140 °F). Humidity 95% or less (non-condensing)
General Function	Heartbeat,mirror,flash log,password reset via email,pixel counter,anti-banding

* 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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Industrial 4G Router (Optional)



4G LTE Industrial Router

- Worldwide LTE, UMTS/HSPA(+) and GSM/GPRS/EDGE coverage
- Support 150M high speed Internet access
- Providing reliable, seamless connectivity for M2M & IoT applications
- Support PPTP L2TP IPSEC OPENVPN GRE

Network Interface

- Support 2 10/100Base-T(X) self-adaptive Ethernet interface (LAN/WAN)
- Support 802.11 b/g/n WLAN (Wireless LAN)

Industrial Rugged Design

- Hardware watchdog
- Rugged metal casing
- Din-Rail mounting
- Support 9-36V wide voltage
- Support level 4 ESD electrostatic protection, level 4 surge protection
- Support anti-reverse connection protection of power supply

Manufacturer Specification for 4G Router

Product specifications					
Wireless parameters					
Standard	TD-LTE		Frequency Band	TD-LTE	Band 38/39/40/41
	FDD-LTE			FDD-LTE	Band 1/3
	WCDMA			WCDMA	Band 1/8
	TD-SCDMA			TD-SCDMA	Band 34/39
	GSM/GPRS/EDGE			GSM/GPRS/EDGE	Band 3/8
Transmitting power	TD-LTE	+23dBm(Power class 3)	Technical specifications	TD-LTE	3GPP R9 CAT4, download 150 Mbps, upload 50 Mbps
	FDD-LTE	+23dBm(Power class 3)		FDD-LTE	3GPP R9 CAT4, download 150 Mbps, upload 50 Mbps
	WCDMA	+23dBm(Power class 3)		WCDMA	HSPA+, download 21 Mbps, upload 5.76 Mbps
	TD-SCDMA	+24dBm(Power class 2)		TD-SCDMA	3GPP R9, download 2.8 Mbps, upload 2.2 Mbps
	GSM Band8	+33dBm(Power class 4)		GSM/GPRS/EDGE	MAX: download 384 kbps, upload 128 kbps
	GSM Band3	+30dBm(Power class 1)	Ethernet interface/WIFI		
Function			LAN interface One		
DDNS	Support		WAN interface One		
APN	Support		Ethernet interface rate 10/100Mbps		
VPN	Support		WAN/LAN switch Support		
Port mapping	Support		Electromagnetic isolation 2kv		
Firewall	Support		Auto-MDI/MDIX Support		
Power			Hardware		
VCC		5.0V~36.0V	Antenna		One WIFI antenna(3 dbi); one 4G antenna(3.5 dbi)
Working current		Average 150mA; Max.385mA@12V	LED		RSSI, 4G mode, WLAN, LAN, WAN, power
Power interface type		DC power supply	Software		
Power protection		Anti-reverse connection	USR-VOCM		Windows 2000 or above(32 bits/64bis)
Mechanical structure			Configuration way		Web Server
Module dimension		100.0*94.0*29.0 (L*W*H)	Working environment		
			Working Temp.		-20℃~70℃
			Storage Temp.		-40~125℃
			Storage humidity		5%~95% RH(no condensation)

4G PTZ Camera

(Used for 4G Connectivity)



Camera Key Specification
(Use for 4G Connectivity)

Camera	4MP PT Camera, FOV 80°
Protection Level	IP66 (Water and dust resistant)
4G	
Standard	LTE-TDD/LTE-FDD/WCDMA
SIM Type	Nano SIM
Frequency	• LTE-FDD: B 1/3/5/7/8/20/28 • LTE-TDD: B 38/40/41 • WCDMA: B 1/5/8

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