

Product Introduction

This 4G wireless video encryption monitoring terminal is an integrated intelligent wireless video encryption monitoring terminal developed independently by Caimore. It integrates many new and high technologies, such as video encryption, video acquisition, 3G/4G wireless communication technology, voice and intercom, advertisement playing, alarm, GPS positioning, snapshot, cloud platform control, video and video blackout protection, hard disk storage, TF card storage, remote video playback, four-port routing, VPN, DTU data transmission and other technologies.



The whole machine is designed in strict accordance with the requirements of industrial grade. Its appearance adopts the design concept of fully enclosed and aluminum structure. The System is equipped with the watchdog WDT protection, and also loaded with the SWP (System Watch Protect). When the network is abnormal, or the system receives strong interference abnormal, the system will be completely reset, and ensuring the stability and reliability of the system. At the same time, the device passed the electric shock test of 3000V, which is especially suitable for use in severe environment in industrial field. The product has the patent technology to maintain the stability of the system and ensure the equipment is always on line. After strict design, testing and years of practical application, the product performance is stable and reliable.



Model No.

Model No.	Interface Type	Network	SSD	TF Card	GPS
CM530-81F	Serial port, Ethernet port, audio and video interface, IO port, TF card slot	4G	Support	Support	N/A
CM530-82F	Serial port, Ethernet port, audio and video interface, IO port, TF card slot	4G	Support	Support	Support

Technical Parameters

Device Interface Diagram



CM530-8X Accessories

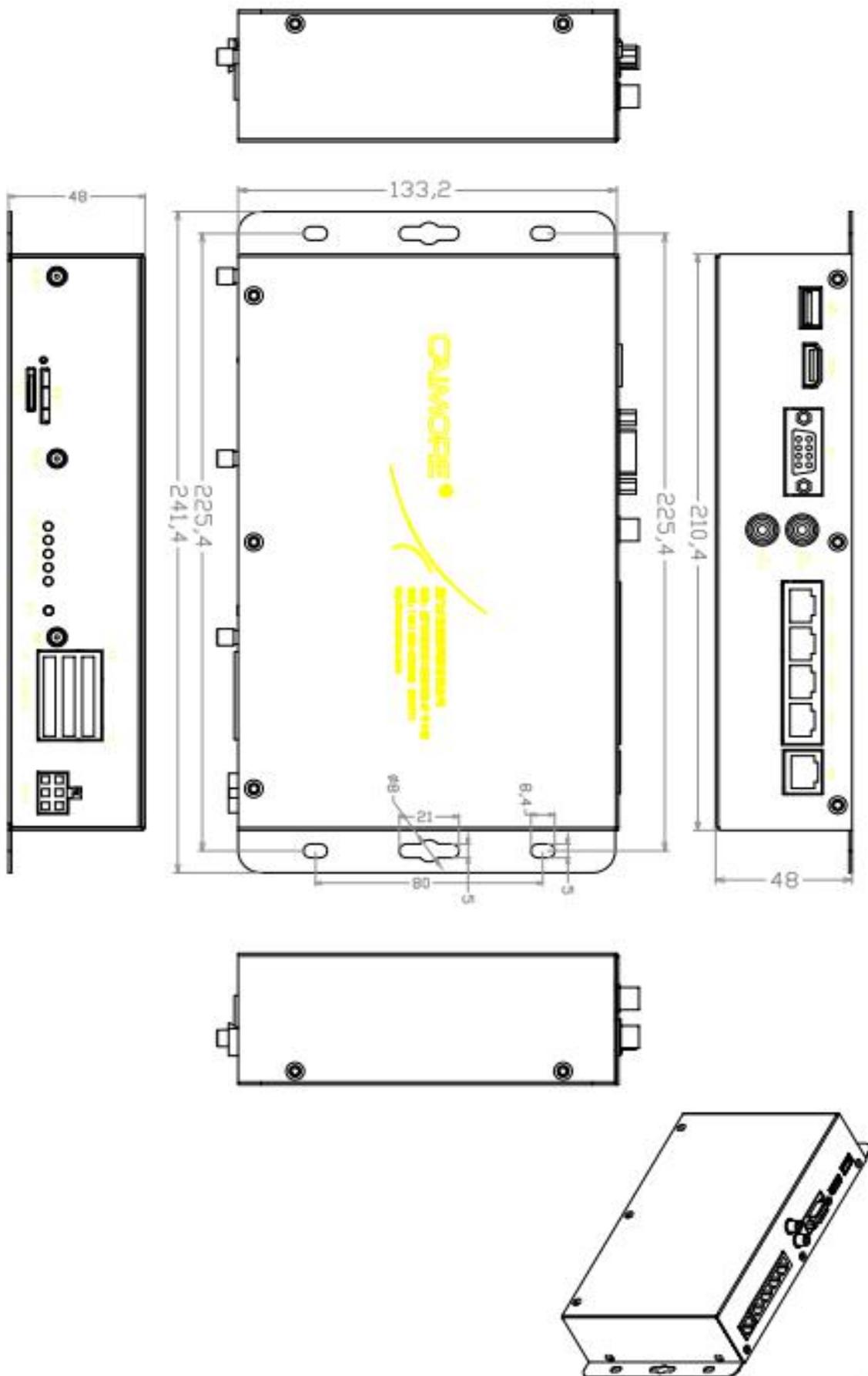
Power supply	Power Connector	Serial Port/IO Port
		
GPS Antenna	3G/4G Antenna	Ethernet Cable
		

Model NO.	CM530-8X
Cellular Parameters	
Network	LTE-FDD/HSPA+/UMTS/HSDPA/HSUPA/WCDMA/EDGE/GSM
Standards and Frequency Bands	EGSM 900 Power Class 4 2 W, 33 dBm
	GSM 1800 / 1900 Power Class 1 1 W, 30 dBm
	EDGE Power Class for 900MHz Class E21 27 dBm, 0.5 W
	EDGE Power Class for 1800 / 1900MHz Class E21 26 dBm, 0.4 W
	Others. (It depends on area and country.)
Coding Scheme	HSPA+ / DC-HSPA+ / GPRS / EDGE
Communication Bandwidth	100 Mbps DL within 20 MHz bandwidth (Peak DL data rate in 10 MHz bandwidth: 70 Mbps (approx.) for Cat 3 device)
	50 Mbps UL within 20 MHz bandwidth
Transmit Power	<24dBm
Receiver Sensitivity	<-109dBm
Advanced Features	
Working Mode	SIM(support APN/VPDN) / Static IP
Video Encryption and Decryption	Support international standard encryption algorithm and corporate private encryption algorithm, double video encryption
Recording	Routine Recording/Motion Detection Recording/Scheduled Recording/Manual Recording/Alarm Recording
GPS	CM530-82F supports GPS
Power-Off Protection	√
TF Card	(Optional) 32G, 64G, 128G
Hard Disk	(Optional) 500G, 1T, 2T
Video Downloading	FTP / Web
Playback	√
Overwrite	Automatically
Audio Transmission	√
Voice Intercom	√
PTZ	√
Video Playing	Web / TV-Wall / Mobile Phone (Apple or Android) / Local monitoring station
VGA	√
HDMI	√
Temperature Detection	√
Humidity Detection	√
Motion Detection Alarm	√
IO Alarm	√
Snapshot	Manual / Period / Timing / Motion Detection
Router Features	DHCP / Routing Forward / Firewall / VPN(GRE/PPTP/L2TP/IPSEC) / NAT / Bandwidth Management
Telnet	√
RS232	1 ch
RS485	1 ch
Config	Local / Remote
Upgrade	Local / Remote

Audio & Video Parameters		
Resolution	1080P / 1024P / 960P / 720P / D1 / CIF	
Video Input	4 ch	
video Input Interface	RJ45	
Compression Output Bit Rate	500K ~ 2Mbps	
Video Output	1 ch(VGA/HDMI)	
Audio Input	4 ch	
Audio Input Interface	RJ45	
Audio Compression Bit Rate	32Kbps / 16Kbps	
Audio Output	1 ch	
Interface Type		
Video Input	4 ch	
Video Output	1 ch	
I/O Port	Support 7 - channel photoelectric isolation high/low level trigger input; Support 2 - channel photoelectric isolation high/low level trigger output; Support 1 - channel switch/dry node output	
TF Card	1 slot. Up to 128G	
Hard Disk	1 SATA hard disk. Up to 2T	
Ethernet Port	5 100M/1000M adaptive network interfaces	
Serial Port	1 RS232 & 1 RS485	
	Data Bit	7/8
	Stop Bit	1/2
	Parity Bit	NONE
	Serial Speed	110 ~ 115200bps
Flow Control	NONE	
Indicator Light	Power / Link / 3G/4G / GPS / Recording	
Antenna Interface	2 3G/4G antenna interfaces	
SIM/UIIM Interface	1.8V/3V/5V standard putter user card interface, built-in 15KV ESD protection	
Power Interface	Standard 3-core locomotive power outlet	
GPS Parameters (CM530-82F)		
Module	Industrial GPS wireless module is adopted	
Receiver Type	Receive GPS, 48 channels, L1 frequency, 1575.42 MHZ chip speed, C/A code 1.023 MHZ chip speed; Support SBAS: WAAS and EGNOS, MSAS Compatible with GALILEO	
Location Accuracy	Position: 2.5m CPE SBAS: 2.0m CPE	
Capture Time	Cold start: 35s; Auxiliary start :<3 seconds; Hot start: <1 second	
Output Information	NMEA,UBX Binary. GGA GSA GSV RMC VTG GLL	
Navigation Data Update Speed	1Hz	
Sensitivity	Tracking: - 163dbm; Navigation: -160dbm; Obtain: -147dbm	
Operating Limitation	Speed: 500m/s Height: 50000m	

AD Parameters	
Supported Formats	Image format: jpg files that support 720P and 1080P formats
	Video format: avi files that support 720P and 1080P formats
Storage	TF Card / Hard Disk
Interface	HDMI: high definition multimedia interface
	VGA: standard video transport interface
Control	Remote Remote control of advertising content and broadcast mode inquiry, update, modify, delete, and other functions
	Local Support local search, update, modify, delete and other functions that control advertising content and play mode (one-step update of advertising content can be achieved with USB)
Hardware System	
CPU	Industrial grade ARM9 high-performance embedded processing; 1 GHZ; Dcache 32KB; Icache 32KB
MMU	CPU with MMU memory management unit, can prevent memory overflow
FLASH	32M
SDRAM	512MB
Operation System	
OS	Linux
Power Supply	
Supply Voltage	DC6V-32V. Over-voltage protection, power reverse protection
Standard Power Supply	DC12V/2A
Communication Current	Average Communication Current: 550mA@+12VDC
	Communicating Instantaneous Peak Current: 1.5A@+12VDC
Standby Current	< 65mA@+12VDC
Physical Features	
Shell	Metal shell: metal case, anti-radiation, anti-interference; shell and system security isolation, lightning protection design; meet the power requirements of safety regulations; protection rating IP41; particularly suit for harsh industrial control environments.
Product Dimension	205*157*33mm(Antenna and fixer are not included)
Package Size	308*231*64mm
Weight	0.98kg
Other Parameters	
Operating Temperature	-25°C ~ +70°C
Extended Operating Temperature	-30°C ~ +75°C
Storage Temperature	-40°C ~ +85°C
Relative Humidity	95%(No condensation)

Installation Dimension

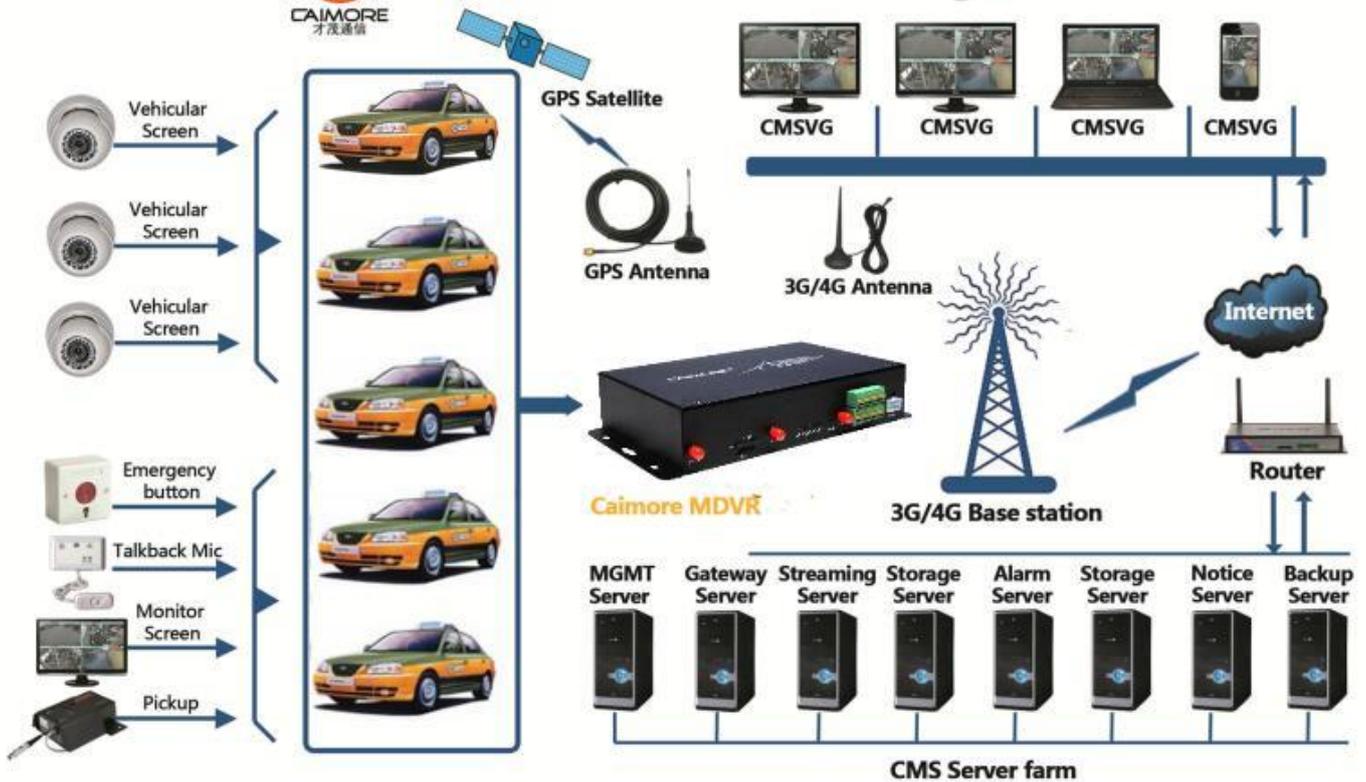


Product Application

3G/4G Wireless Video Surveillance Solution



CAIMORE MDVR Monitoring SYSTEM



Typical application

Power Industry

- ◇ Power monitoring
- ◇ Computer room monitoring
- ◇ Plant monitoring
- ◇ Examination room monitoring

Transportation Industry

- ◇ Vehicle induction
- ◇ Highway monitoring
- ◇ Traffic light control and photo transmission
- ◇ Taxi monitoring
- ◇ Bus monitoring

Water conservancy industry

- ◇ Water conservancy monitoring
- ◇ Water supply monitoring

Environment, meteorology, oil field and other industries

- ◇ Environmental protection key pollution source monitoring
- ◇ Fire exits
- ◇ Environmental monitoring
- ◇ Oilfield monitoring
- ◇ Heat network monitoring
- ◇ Coal monitoring

Corporate Qualification

Item	Content
	<p>2011, it was rated as "the best supplier for customer satisfaction in China's industrial control industry"; the company's GPRS DTU product was rated as "innovative product award".</p> <p>2012, the company became a member of "China Quality Travel".</p> <p>2013, the company became a member of the "Technical Innovation Strategic Alliance of Intelligent Power Transmission and Distribution Equipment Industry".</p> <p>2014, it was rated as an innovative pilot enterprise .</p> <p>2014, the company's Zhanjiang Wi-Fi coverage project was awarded the "Sample Engineering Award" by the 13th China Automation Annual Conference.</p> <p>2015, its video products were rated as "Top Ten Video Transmission Enterprises" by China's industrial control industry.</p> <p>2015, the noise monitoring project was awarded the "Sample Project Award" by the 14th China Automation Annual Conference.</p>

Corporate Honor	<p>2015, its video products were rated as "Top Ten Video Transmission Enterprises" by Huaqiang Security Network.</p> <p>2016, the video products was rated by Huaqiang Security Network as "2015-2016 High-quality Supplier in China's Security Industry".</p> <p>2016, it was rated as the "best supplier of charging equipment parts" by charging pile communication equipment.</p> <p>2016, won the " Product Gold Award of 2016 7th Guangzhou International New Energy Automobile Industry Exhibition ".</p> <p>2016, The 3rd China Good Wi-Fi Organizing Committee awarded Caimore "2016 Best Wi-Fi Industry Application Solution Provider".</p> <p>2018, the company's industrial router was rated as "China's Top Ten Industrial Router Brands", and DTU was rated as "China's DTU Top Ten Brands"</p> <p>2018, it was rated as a key listed reserve enterprise in Xiamen City.</p> <p>2019, it was rated as a key listed reserve enterprise in Xiamen City.</p> <p>2019, it was rated as a key listed reserve enterprise in Fujian Province.</p> <p>2019, Shortlisted for China Telecom Corporation Limited, DICT solution partner of Shanghai branch</p> <p>2020, Selected as a key listed reserve company in Xiamen</p>
High-tech Enterprise	2009, it was recognized as a high-tech enterprise by the country
Double-soft Enterprise	2010, it was recognized as a double-soft enterprise by the country
Occupational Health and Safety Management System Certification	<p>ISO9001:2015 quality management system conforms to the standard</p> <p>ISO14001:2015 environmental management system conforms to the standard</p> <p>ISO45001:2018 occupational health and safety management system conforms to the standard</p>
Copyright	The company has 7 patented technology certificates to maintain equipment stability and 31 software copyright certificates.
Offices	Nine regional offices have been established nationwide to provide customers with close and considerate services.
Registered Capital	The company has a registered capital of 20.58 million; it is a key high-tech enterprise supported by Xiamen City.
Historical Accumulation	18 years of industry R&D accumulation and industry application test.