

4CH 4G WiFi HDD/SSD MDVR(K6204) specification sheet

Model:K6204



1.1 Product features

This series of products is a fully functional Hard Disk Drive 4G mobile DVR designed for the mobile surveillance market. Supports wide power voltage input, supports high-capacity HDD/SSD and TF card recording; Use professional and reliable aviation plug connector; High appearance, enough materials, good heat dissipation; The device has powerful functions, rich interfaces and low power consumption; Simple installation, easy operation, and extremely stable; widely used in passenger Coach, buses, taxis, school buses, logistics vehicles, dangerous goods vehicles, Sedan cars, ships, etc.

The detailed features are as follows:

- ❖ Industrial design, stable and reliable, easy to install
- ❖ Video adopts the international mainstream H.265 encoding format, and the audio adopts G711a encoding. It can support up to 4 channels.
- ❖ Professional vehicle power supply, can adapt to 8 to 36V ultra-wide voltage input, with multiple protection circuits such as overload/short circuit/reverse connection
- ❖ Highly reliable aviation plug input and output interface, easy to install and plug, and stronger Vandal-proof performance
- ❖ Support 4 channels of video and audio input, frame rate and image quality are adjustable
- ❖ Support 1x2.5inch HDD/SSD +1xTF Card Storage
- ❖ Built-in Farad capacitor. The video content has power-off protection function
- ❖ Support video loss alarm function
- ❖ Independent delay Power shutdown, can support the system to continue running after the vehicle is turned off, the delay time can be set by yourself
- ❖ Supporting CMS client platform, providing multiple functions such as playback, analysis, management, etc
- ❖ Support HDD/SSD, TF card and U disk to upgrade firmware, support network remote firmware upgrade.
- ❖ Supports 2 USB ports, the front can be connected to a USB drive to export videos or upgrade firmware, and the back can be connected to a fireproof box to backup videos
- ❖ Support 8 x IO alarm input, 2 x IO alarm output
- ❖ Support 2 x RS232 and 1 x RS485
- ❖ Insert the intercom handle for two-way communication between the platform and the device
- ❖ Support pulse vehicle speed. Optional
- ❖ Support 4G, GPS, LAN(RJ45)
- ❖ K6204-G6 support WiFi function

1.2 Specifications

Item		Parameters
OS		Embedded Linux
System language		Chinese/English/Portuguese/Spanish/Russian/Vietnamese/Mongolian/Thai/Pakistani/French/Korean/Hindi/other(customizable)
Video compression format		H.265/H.264 compression format
OSD		Character superposition function, support time and date, vehicle ID and other information image superposition
GUI	graphic interface	System parameters can be set through external display and remote control operation
Video and recording system	Video input	4CH video inputs (aviation plug interface), 1.0Vp-p, 75Ω
	Video output	1CH mixed video output, 1CH VGA output, 1.0Vp-p, 75Ω
	Preview function	Single-channel or multi-screen splicing preview, support manual/event trigger full-screen display function
	Video resolution	4CH machine supports 1080P/720P/D1/CIF optional, and the maximum can support 4 channels 1080P 60fps.
	Record mode	Default automatic recording, support ACC recording, manual recording, alarm recording, etc.
Audio	Audio input	4CH, aviation plug
	Audio output	1CH, aviation plug
	Format	G.711a compression format, Rate 40KB/s
Alarm	I/O input	8CH I/O inputs. Can be connected to door magnetic sensors, left/right/reverse signals.
	I/O Output	2CH I/O output. Can connect external devices such as relays (oil and electricity cut-off), sound and light alarms, etc
Serial Port	RS233	2 x RS232
	RS485	1 x RS485
Power output	12V	Power external devices, such as fuel sensors, temperature sensors, etc
	5V	Power peripheral devices, such as RFID card readers
Network	4G	Support built-in 4G function
	WiFi	K6204-G6 support WiFi function
	Wired	Support wired network
Positioning		Support built-in GPS/BD(GPS/GLONASS) module
USB		Support USB interface. Insert a USB flash drive to backup video or upgrade firmware
G-Sensor		Support G-SENSOR acceleration sensor
Intercom		SPK interface. Platform and device intercom, or connect speakers
Pulse speed		Optional
Video storage	HDD/SSD	Support 1x2.5inch HDD/SSD, loop recording
	TF Card	Support 1xTF card, loop recording
	Fireproof box	External fireproof box, disaster recovery video. Optional
	File format	H.265/H.264
Video playback	Video search	Search for recording video files by recording time, recording mode, etc.

	Playback	Support multi-channel synchronous playback, support fast forward and fast reverse, support 2, 4, 8, 16 times speed optional
upgrade	Firmware upgrade	Support Hard disk and TF Card Upgrade, Support Network upgrade
Power	Power management	Adaptive wide power Voltage input, with protection functions such as overload, overvoltage, undervoltage, short circuit, and reverse connection;Support timing power on/off , delayed power on/off function
	Input voltage	DC:8 ~ 36V
	Consumption	Normal work maximum: 5W, standby: 0.5W
AI algorithm (Optional)	ADX	ADAS, DMS, Seat belts
	ADXB	ADAS, DMS, Seat belts, 2-channel BSD
working environment	temperature	-20℃ to +70℃
	humidity	20% to 80%
Safety	Password access	Two-level management of user password and administrator password
Other	Size:	175(L) x173(W) x 67(H)mm

***** If the above parameters are changed, please refer to the actual product *****

4G Model	Country	4G Frequency band
1	China, Thailand, Indonesia, India, Vietnam, the Philippines, Saudi Arabia, Bonaire Island, Aruba, curacao, Azerbaijan, Bhutan, Brunei, Cambodia, Hong Kong, Kazakhstan, Pakistan, the Philippines, Sri Lanka, Israel, Egypt	GSM:900/1800 WCDMA:B1/B8 FDD_LTE:B1/B3/B5/B8 TDD_LTE:B38/B39/B40/B41 TD-SCDMA:B34/B39 EVDO/CDMA:BC0
2	Malaysia, Singapore, Taiwan, Britain, Russia, Djibouti, Somalia, Morocco, South Africa, the Republic of Korea, Uzbekistan, Mozambique	GSM:900/1800 WCDMA:B1/B8 FDD_LTE:B1/B3/B7/B8/B20/B28 TDD_LTE:B38/B40/B41
3	Chile, El Salvador, Mexico, Peru	LTE-FDD:B2/B4/B5/B7/B8/B28 LTE-TDD:B40 WCDMA:B2/B5/B8 GSM:850/900/1800/1900
4	U.S.A	LTE-FDD:B2/B4/B5/B12/B13/B17/B25/B26 LTE-TDD:B41 WCDMA:B2/B4/B5 CDMA&EVDO:BC0/BC1 GSM:850/1900
5	Brazil	FDD LTE:B1/B2/B3/B4/B5/B7/B8/B17/B20/B28 TDD LTE:B34/B38/B39/B40/B41 WCDMA:B1/B2/B5/B8

***** If there is an unsupported frequency band, please contact the manufacturer *****

1.3 Front panel

1.3.1 Front panel appearance diagram



Serial	Name	Silk Print	Detailed description
①	Remote receiver	IR	Infrared receiver, used to receive remote control signal
②	Indicator LED	PWR	Power Indicator LED. LED ON when the power supply is normal
		GPS	GPS status indicator. The light is always on when the GPS is working normally, and it flashes when there is no signal
		ERR	System error indicator light. No recording, GPS abnormalities, etc
		ALM	Alarm Indicator LED. LED ON when the alarm is generated
		HDD	HDD Indicator LED. LED is always on when HDD is recognized, flashes when writing
		TF	TF card Indicator LED. LED is always on when TF card is recognized, flashes when writing
		REC	Video indicator LED. Flashes when recording
		NET	Network status indicator. The light will always be on when the network connection is successful, and flash when the network is not connected
③	Electronic locks	LOCK	When the electronic lock is locked, MDVR automatically turns on; when the electronic lock is opened, MDVR automatically turns off
④	USB port	USB	Use to backup files and upgrade firmware version
⑤	HDD box TF card port SIM card port		Open the interface baffle through electronic lock, insert HDD/SSD, TF card and SIM card. When the electronic lock is locked, please do not open the interface baffle forcefully, it will damage the machine

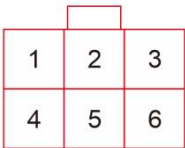
1.4 Back Panel

1.4.1 Appearance of the Back panel



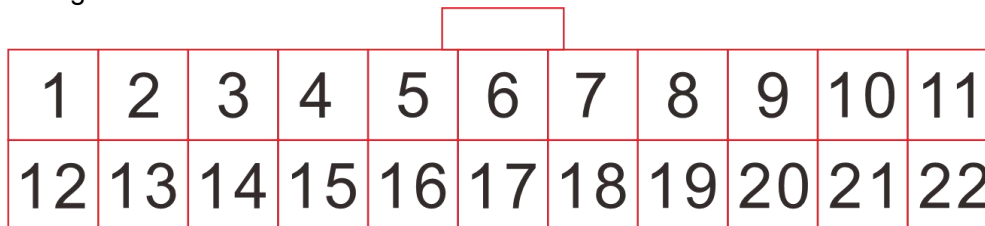
Serial	Name	Silk Print	Description
①	AV input Port	AV IN1	1CH audio and video input interface
		AV IN2	2CH audio and video input interface
		AV IN3	3CH audio and video input interface
		AV IN4	4CH audio and video input interface
②	NET Port	LAN	Wired network port, can connect to wired network or IP camera
③	Fireproof box	USB	External fireproof box, disaster recovery video
④	Speaker	SPK	Connect the intercom handle or speaker
⑤	CVBS output Port	AV OUT	CVBS audio and video output interface
⑥	IO/Serial Port	IO/Serial	8xI/O input, 2xI/O Output, 2xRS232, 1xRS485, 1xPulse speed
⑦	4G Antenna Port	4G	External special 4G antenna. It should be placed where without shielding and interference
⑧	WiFi Antenna Port	WiFi	External special WiFi antenna. It should be placed where without shielding and interference. Only K6204-G6 support WiFi function
⑨	GPS Antenna Port	GPS	External special GPS antenna. It should be placed where without shielding and interference
⑩	VGA output Port	VGA	VGA audio and video output interface
⑪	Power Port	DC8-36V	Power Input port

1.4.2 Power interface definition

Pin diagram	Pin definition		
	1	2	3
	PWR-	PWR+	
	4	5	6
	PWR-	PWR+	ACC

1.4.3 I/O interface definition

I/O interface diagram:



The detailed pin definition is as follows(RS485 is reserved and not standard):

1	2	3	4	5	6	7	8	9	10	11
WHITE	WHITE	WHITE	WHITE	BLACK	RED	GREY	BROWN	BROWN	RED	YELLOW
ALM IN2	ALM IN4	ALM IN6	ALM IN8	GND	DC12V	RS485-B	RS232-2-RX	RS232-1-RX	DC5V	Pulse speed
12	13	14	15	16	17	18	19	20	21	22
WHITE	WHITE	WHITE	WHITE	GREEN	BLACK	GREY	PURPLE	PURPLE	BLACK	BLUE
ALM IN1	ALM IN3	ALM IN5	ALM IN7	ALM OUT1	GND	RS485-A	RS232-2-TX	RS232-1-TX	GND	ALM OUT2