

LQ-4G-J18 HD dual-channel integrated camera manual





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1.Product overview

This product is a 4G dual-recording driving recorder, with high-definition car DVR camera, one-key alarm, GPS driving track, positioning, WIFI hotspot, 4G communication and external TF card storage in one multi-functional high-tech product, in line with JT/ T1078, with DSM function.

The hardware requirements of "Video Communication Protocol of Road Transport Vehicle Satellite Positioning System" and JT/T808 "Technical Specification for Compatible Vehicle Terminal Communication Protocol of Road Transport Vehicle Satellite Positioning System Beidou".

2. Product image appearance



3. Product use guidance

2. Power supply 12V The red light is on during the boot process (it takes about 3 minutes to boot after installation, and the power cannot be cut off during the boot process)

3. Refer to the machine indicator to determine the working status of the machine, see the definition of the indicator below for details;

^{1.} Insert the TF card and SIM card on the motherboard.



4. Indicator light definition

1. Blue light, normal operation after booting, long on after GPS positioning, flashing when not positioned

2. Green light, the breathing flickers after booting up and recording normally, and it doesn't light up when it's not recording.

3. Red light When the 4G network is on, it stays on when the 4G network is normal, but the network does not light up abnormally.

4. The process of restoring factory settings, red light + green light flashes quickly at the same time

5. The equipment is in normal working condition. The red and blue lights are always on, and the green light flashes slowly

5. Button definition

1. Short press-broadcast WIFI hotspot, machine working status

2. Long press-restart the device

3. Long press until it is turned off, the red light and green light will light up at the same time again-restore factory settings

4. One-key alarm button-short press to upload photos to the background/mobile APP

6.Video storage instructions

1.It is recommended to use a TF card with a capacity of 16G-128G and a reading and writing speed of Class10

2. In order to ensure that more driving videos can be stored, it is recommended to format the TF card before use to avoid other files occupying space in the card

7.Recorder function

1. The system automatically starts recording after booting, the front camera is 1080P, and the in-car camera is 720P and synchronized recording; advanced video processing technology is used to easily complete dynamic shooting during high-speed driving, recording video loop coverage, no need to manually clean the memory card, vibration video Automatic lock to prevent loss

2. The camera in the car automatically detects the ambient light and turns on the fill light to ensure the brightness of the recorded video, and the infrared light does not affect the driver's judgment of the driving environment light



8. Parking monitoring

1. After the car is turned off, the device will automatically enter the parking monitoring mode 2. When the car is hit by an external force, the device will automatically alarm and upload pictures and location information to the mobile APP

3. The user can actively monitor the device in real time through the APP, capture pictures, capture videos, remote intercom, etc.

4. In order to protect your car battery, if the car is turned off for a long time, when the device detects that the car battery voltage is low, it will automatically shut down.

Continue to consume the battery power of the car to ensure that it does not affect the normal ignition power consumption of the car.

Adhesive of the bracket is not firmly	Check to ensure that the car glass is wiped clean, and
attached	the air between the adhesive and the glass is squeezed out and pressed firmly.
The device body shakes and the	Check that the buckle of the bracket and the driving
video is skewed	equipment is well buckled, and whether the bracket is pasted parallel to the front of the car.
The video is blurry and dark	Check whether the lens surface and windshield are clean and not dirty, the lens angle cannot be adjusted too high, and the lower edge of the video can be taken to the bottom of the windshield.
Unable to stop monitoring	Check the wiring sequence of the power cord, B+ is connected to the battery long-term insurance, and the ACC line is connected to the car ACC insurance
The device does not turn on or does	Check if the wiring is correct
not work properly	Check if the fuse on the wire is intact Use the card removal pin to shortly press the reset
	button on the hole next to the letter R on the side of the device to restart the machine reset.
The red light does not light up after	Check whether the SIM card is installed and the traffic
the equipment is working	is sufficient.
The blue light flashes after the	Check that the GPS antenna plug is connected well
device is working	Check whether the antenna placement is blocked

9.Common troubleshooting



The green light does not light up after the equipment is working	Check if the TF card is inserted well Check whether the TF card is Class10 (C10 is printed on the surface of the card) Format or replace TF card
Forgot WiFi password	Short press the device button to broadcast the hotspot name and password, and confirm that the password is correct
APP cannot preview the device screen	Check that the phone is properly connected to the device WiFi Forcibly close the mobile APP, and reopen the APP

10.Matters needing attention

•This product is a driving recorder, users should not operate this product or mobile APP during driving

•Please use the accessories provided by the original factory to install the product correctly. If you do not use the product according to the correct use procedures or connect incompatible accessories, the warranty may be automatically invalidated, and the safety of you and others may even be endangered. The company does not take any responsibility

•Do not disassemble or repair this product without authorization, otherwise the product warranty will automatically become invalid

•Based on the principle of continuous improvement and continuous development, the company reserves the right to revise and update the product manual

•The content in this manual is provided according to the condition of the product at the time of manufacture. Unless otherwise stipulated by the law used, no explicit or tacit guarantees of the accuracy, reliability and content of the document are made.

•To the maximum extent permitted by applicable laws, the company and the manufacturer shall not be liable for any special, incidental, incidental or indirect loss under any circumstance



Car assistant

Mobile APP installation and usage instructions

1. Application introduction

Safe travel record capture artifact

Function introduction: vehicle management, vehicle monitoring, mobile phone interconnection, real-time playback, one-click capture, video cutting, interaction with riders, car-sharing life

2. Conditions of use and product association

A smart terminal with a system version above Android 4.0 or an Apple system terminal. Purchase and use our company's terminal equipment.

The realization of the main functions of this application needs to be matched with the smart car equipment solution of our company.

3. Download and install



Method 1: Scan the two-dimensional code: use the mobile phone software to scan the two-dimensional code tool (such as: WeChat, QQ), scan the above two-dimensional code to download and install, or download from http://www.carassist.cn.

Method 2: PC-side search car assistant install software Package, download and transfer to the mobile phone, click the installation package on the mobile phone to install it.

4. log in to use

APP use requires users to associate with WeChat or Facebook. Open the application login interface and select login authorization. You can complete the registration and binding. As shown in the figure:







5.device binding and management

After the device works normally, it will transmit the WiFi hotspot, the name is TW1-****, and the default initial password is 12345678

After the mobile phone is connected to the device wifi hotspot OK, open the car assistant device option, click the "+" in the upper right corner, the dialog box shown below will pop up, click the serial number, click OK according to the voice prompt to bind the request, and press at the same time within 10 seconds Device confirmation

Button. Such as



Vehicle management: One user (account) can bind multiple devices (rearview mirror). At the same time, a device can be bound by multiple users. At the same time, you can freely name the device name for device distinction. As shown in the figure



6. Cloud function description

ensure that the device and mobile phone are turned on and have internet Network status)

6.1. Vehicle monitoring and alarm



When a car with a successfully installed binding device is collided, and you want to check the car at any time, you can click on the monitoring alarm to realize remote photography and recording. The rearview mirror will capture a picture of the front and rear cameras and send it to the mobile phone customer who is bound to the account. end. At the same time, the file is saved in the snapshot folder of the phone file. Users can browse through mobile phones at any time. Edit and share. As shown in the figure:

6.2. Remote live intercom

Users can perform remote live broadcast and intercom with any bound vehicle through their mobile phone at any time, and save all they want as they like. Make driving less monotonous and safer, as shown in the figure:





3. Track playback



The user can view the location of any bound vehicle through the mobile phone at any time; and can view the trajectory of the device vehicle in the past day and before through the APP at any time. Different time traces are marked with different colors to distinguish them. As shown in the figure:



7.Dual-screen interaction, mobile phone interconnection

The device can transmit WIFI hotspots, and users can have a magical experience after the mobile phone and the device WIFI are connected.

After the mobile phone is connected to the device wifi hotspot, open the car assistant device option, click on the "+" in the upper right corner, the dialog box shown below will pop up, click the serial number to match and connect (the WIFI hotspot name is TW1-**** by default, The default initial password is 12345678, which can be modified by the user.)

Mobile phone interconnection functions are realized based on WIFI interconnection, no traffic is required. As shown in the figure:



7.1. Real-time 1080P preview playback

Based on industry-leading exclusive technology, users can preview 1080P driving videos (full screen available) through mobile phones in real time. And directly replay the recorded video at any time in the past in real time.





7.2. One-click capture

In the preview interface, users can use their mobile phones to capture high-definition front and rear camera video recordings with one click. The length of the video is 10 seconds (-5, +5), while supporting the steering wheel control (button) to realize the one-key capture function, as shown in the figure:





7.3. Quick settings

The user can perform simple settings of the cloud mirror device through the mobile phone, such as volume and backlight adjustment operations. As shown in the figure:

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7.4. Real-time track of recorded video

The exclusive realization of the driving track function of the driving video tape, all the video recordings have time and speed driving track.

The shadow moves with the car. As shown in the figure:







7.5. Real-time playback

The user can conveniently browse any video file of the rearview mirror in real time through the car assistant client, and can choose to browse online (buffer 1-3 seconds). And long press and download the required video to the corresponding file of the phone (no data required) for editing and sharing. As shown in the figure:



8.Driving and Smart Enjoying Car Life Community

The exclusive built-in car life cloud community of car assistant, based on the intelligent cloud reading, users can edit the files recorded by the cloud device online (snap or record). At the same time, you can share the video and spread the recorded video content





9. Video interception and editing, sharing with Lejiayun

In the process of real-time preview or viewing of video files, users can send real-time captured videos or recorded short videos to WeChat Moments through the car life community to open up the social barriers of the Internet of Vehicles, so that what you see and hear when driving your car Can be perfectly integrated into your social circle.



10. DSM function introduction

his device supports the Su standard JT1078 platform and integrates DSM (driver status monitoring system). Achieve reminders of bad driving behaviors such as the driver's fatigue state, calling, yawning, smoking, not wearing a seat belt, etc.;

10.1. DMS algorithm flow





Figure 1 DMS algorithm flow chart



DMS algorithm flow: DMS algorithm flow chart is shown above

First obtain the image from the camera, and use the face detection algorithm to detect whether the image contains a human face. If no face is detected, the algorithm exits; if a face is detected, the face area is cropped out of the picture, and enter the fatigue detection module to judge the driver's driving state.

10.2. Face detection

The face detection algorithm is mainly used to detect whether the picture contains a face, so as to serve the DMS algorithm, as shown in the following figure:



Face position: Detect the face in the picture and mark the position in the picture; Face key points: Display the 68 key points of the core of the face.

Face quality information: return information such as the completeness and confidence of each part of the face.

Face detection is the basis of the DMS monitoring algorithm. Only on the basis of detecting the face can the driver's behavior be detected. When some situations such as turning the head over a certain angle, lowering the head too low, covering the face with hands or other objects, or covering the face by the steering wheel, etc., the information of the key points of face detection may not be captured completely, which may lead to undetected For human faces, the DMS algorithm does not work in these situations.



10.3Installation standards

1. Can not affect the driver's driving.

2. There should be no obstruction between the driver and the DMS camera.

3. The camera should be fixed and there should be no jitter.

4. After imaging through the camera, the position of the driver's head should be in the middle of the picture.

5. After imaging through the camera, the driver's head should not be blocked by objects such as the steering wheel.

6. The installation position of the camera is centered on the driver, and it is best to face the driver; if the installation position is restricted and cannot be installed directly in front, an angle between the camera and the driver is allowed. The smaller the angle, the better. Don't 15 degrees.

7. The camera is basically flush with the human face, and can have a slight elevation angle.

Correct installation demonstration:



The avatar is in the middle of the picture and is not blocked by the camera.



10.4 Alarm type

The DMS system mainly monitors the following states of the driver:

- a) Smoking
- b) call
- c) eyes closed
- d) yawn
- e) Looking around
- f) bow your head

g) Loss of face (abnormal driver) Among them, closing eyes and yawning are classified into one category: fatigue; looking around and looking down are classified into one category: distraction; making a phone call as one category; smoking as one category;

Driver abnormality: When a human face cannot be detected, for example, when the camera is blocked, the driver suddenly faints, causing the human face to be undetected, and the driver is abnormal or the human face is missing.

10.5. DMS alarm conditions

10.5.1 When the vehicle speed is lower than the set speed, the DMS function will not be turned on and no alarm will be issued. Usually we limit the opening speed of DMS to 30km/h. The DMS system has an interface for the opening speed, which can be set by customers according to their needs.

10.5.2 When the vehicle speed is greater than the set speed, the DMS function is turned on and an alarm will be triggered. The alarm conditions are:

a. Smoking alarm: When the driver's smoking is detected for 5 seconds (configurable), a smoking alarm will be triggered. The alarm sound is: Do not smoke;



After the first alarm, the alarm will not be repeated within 5 seconds (configurable).

b. Telephone alarm: When the driver is detected to make a call for 5 seconds (configurable), the call alarm will be triggered, and the alarm tone is: Do not make a call; After the first alarm, the alarm will not be repeated within 5 seconds (configurable).

c. Fatigue alarm: When the driver closes his eyes or yawns for 2 seconds (configurable), the fatigue alarm will be triggered. The alarm sound is: Do not drive by fatigue; After the first alarm, the alarm will not be repeated within 5 seconds (configurable).

d. Distraction alarm: When the driver is monitored for 3 seconds (configurable) looking left and right or looking down, it will trigger the left and right look alarm, the alarm tone is: do not look left and right; after the first alarm, no within 5 seconds (configurable) Repeat the alarm.

e. Driver abnormality alarm: When no human face is detected for 30 seconds (configurable), the driver abnormality alarm will be triggered; the reason why the driver is not too sensitive is that the driver's head will be too sensitive during normal driving Leaving the range of the camera, causing frequent alarms.

The alarm tone is: face loss;

After the first alarm, the alarm will not be repeated within 30 seconds (configurable).

10.5.3 The sensitivity of the alarm and the time interval between two alarms are set, and the program has an interface, allowing customers to set according to their needs.

11. Alarm strategy:

11.1. The detection of each action needs to be a continuous action, and the time set by the algorithm is accumulated to trigger an alarm.

For example, shaking your head frequently from left to right, but each time does not reach 3s, it will not trigger the distraction warning

11.2. The angle of looking left and right should be greater than 45 degrees, but the tilt angle should not be too large. If the tilt angle is too large, the camera will not be able to capture complete facial features, which will result in the failure to detect human faces.

The angle of the head should not be too large. For example, if the head is lowered too large, the camera only sees the top of the driver's head, and cannot see key feature information such as eyes, nose, and mouth. It will also cause the face detection algorithm to fail to detect faces.



11.3. There is a time interval between two identical warnings.

The alarm is not output.

For example, if the driver makes a call, after the first alarm, the call will be generated within 5 seconds, and it will not be triggered.

11.4. There is no interval between two different early warnings. After the first alarm, if the subsequent alarm type is different from the previous alarm type, it will immediately alarm.

For example, if the driver makes a phone call and detects that the driver is yawning for the first time, he will immediately call the police without waiting for 5 seconds.

12. Matters needing attention:

12.1. The algorithm is greatly affected by light. Because of the built-in infrared camera, the recognition rate is relatively high when there is no light;

The light on the face will cause the face to be particularly bright, which will affect the recognition rate of smoking, because the color of the smoke and the bright spots will become inconspicuous in this case;

Light shining on the glasses will cause reflections, resulting in the inability to see the state of the eyes, resulting in a low recognition rate when the eyes are closed when wearing the glasses.

It is recommended to test in less light.

12.2 The current DMS algorithm does not do a good job of filtering fake gestures. For example, if you simulate the action of making a call with your hand, you will report a call; this is because there are too few negative samples, and it is temporarily impossible to completely filter out such things. False positives.

12.3. For smoking test, it is best to light it. Because the most important feature of smoking is the bright spot. And it's best to put your hands on your mouth and have a standard posture as much as possible. For example, smokers basically use two fingers to hold a cigarette. Our smoking samples are basically standard smoking postures. Testing with a pen does not work. 12.4. Early warning of compound actions, such as turning your head and yawning, turning your head and closing your eyes, turning your head to make a phone call, etc., will only trigger one type of alarm, not the full report. Kind of alarm, instead of all alarms of both types.



13. Installation requirements

13.1. DSM camera installation requirements

<1>The DSM camera can be installed on the center console in front of the driver, so that the camera is aimed at the driver' s face

<2>The distance between the DSM detection camera and the straight line of the driver's eyes can be between $60\sim110$ cm

<3>The installation size should meet the following requirements:

The first parameter range (ie OA distance): 0~27cm

The second parameter range (ie OB distance): 0~40cm

The third parameter range (ie BC distance): 60~110cm

<4>The driver's head cannot be blocked by obstacles such as the steering wheel

<5>Fix it after confirming the position without

shaking.





13.2 Installation requirements for ADAS

<1>The installation position of the camera

Most vehicles can meet the requirements of installing the camera in the middle of the front windshield; for the rare cases that cannot be installed in the middle of the windshield, there must be corresponding treatment methods.

<2>Calibration method

①Install ADAS equipment in the parking lot

The ADAS equipment needs to be calibrated quickly on the production line. After the vehicle is offline, it needs to be tested on the road to test the ADAS related functions

⁽²⁾Automatic calibration

After the equipment is installed, the vehicle runs on the road and completes the automatic calibration. The automatic calibration time needs to be controlled within 10 minutes.

14. Platform introduction

Log in to https://www.latx188.com, directly access the web version, or download the client.

Demo account: lacs password: 000000

The client login is shown in the figure: enter the user name and password, enter the server IP: 113.106.91.110

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The main interface of the monitoring system: mainly includes electronic maps, real-time preview, video playback, track playback, report statistics, information management, etc.; Maininterface





Real-time preview interface

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Electronic map interface





Video playback interface



Video playback interface





Information Management Interface

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DSM warning interface



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		但诚业商务中 2物1- ②素佳科技 城里购物中心	び 「瑞藤大慶 (()))))))))))))	各称 失型 开始时间 结束时间 指聚着注 意东光 开始地点	053810553454(05 驾驶员算常报警 2020-05-30 11:10 13.565510,68.314	3810553454) 98 59 622	Idb 人工智能产业 信号优卫星	平意山公园	1538 ID553454 - CH1 - 器段负异常指导。46 - 34 - 34 - 34 - 34 - 34 - 34 - 34 -
			住运通大厦 🔾 〇 教发工业区 星月	 	0.00 公里/时,115 未处理:未确认	(m),ACC开启,左转向关	IL-右转向 1日前	3	
		11時机器人	の 新国综合核 (学形大厦		latx) 注寫大厦		
		EA DU	(商务中心 記典奏工业)	等得处理报警员数 大変 上一茶 [1//135 下一条 确认报警	报警处理	WERTERW		
lane and a		© 2020 Baidu	- GS(2019)5218号,田浦B	<u>جغ</u> ا	监听 拍照	清除报警(设备上)	P晟大厦 🔘	デ 豁况信息 円	
大師号	云台 巴彩 旧首		1 1214:1 Tate:1 1846:0	1855:0 被读:1 (5车:0	未定位:0			4	
手牌与 经谢印	053810553454	<i>610</i>	+==	T +60+122	(170)-17	+0982+001-4	Tridatest	~	
公司	latx	053810553454	英国 教師局景素振興 243	2020-05-30 11:10:59	MARIN	TORNAR	并缩地应		
分组	latx	053810553454	驾驶员异常报警 2级	2020-05-30 11:09:58	2020-05-30 11:10:08				报警录像开始 x
状态	在线	053810553454	碰撞倒翻报警	2020-05-30 11:09:00	2020-05-30 11:09:10		广东省采圳市宝安区广	業公路網路 港区/	
位置时间	2020-05-30 11:10:48	053810553454	驾驶员 IC 卡异常报警 2级	2020-05-30 11:08:24	2020-05-30 11:08:34			NOT THE REAL PROPERTY OF THE R	终端名称:053810553454
1212	0.00公田(8±44)	053810553454	驾驶员 IC 卡异常报警 2组	2020-05-30 11:07:22	2020-05-30 11:07:32				CH2:正在录象报警录像将录制30形
使田	正常	053810553454	驾驶员 IC 卡异常报警 23	2020-05-30 11:06:40	2020-05-30 11:06:50				
0.00	11.75	▲▶\位智兴	20月10年夏堂招幣 20	2020-05-30 11:06:02	2020-05-20 11:06:12	<		> 41	1(2) (2)
7.17.0.6_201	190802 用户名:latx 运行的	时长: 01:37:29	半峰介质报警数:0 不录像	:0 在线数:1/定损数:3	/继修:0/停用:0/总数:4 在#	规率:25.00% / 定损率:7	5.00%	1	

Driver's abnormal behavior interface

系统 视图 设置	(电子地图	(³) 実时	925 🛞 948	eenia (*	() 录像回波	() 信息管理	(O) # 185	友用	1 . đ	×	
			-	~				-				
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□ 國臺 监控中心(1/4)	HPhi								招索	1		
	Rtx →								資本 平空山公園	053810553454 - CH2 2 053810553454 - CH2 053810553454 - CH1		
	日本 歴年和大重 国内 1勝商务中心	新国家合枝 記典奏工业大利	■ 打印说明 平神号:053810 设备号:053810 通道:CH2	✓ 控制技 553454 553454	EL		< ·					
			图片描述				修改	大厦 🖸	デ 路况信息	A CONTRACTOR OF A CONTRACTOR O		
状态 云台 色彩 语音	w 2020 Baidu - GS(2019)	2210号- 中制国				#TED	测版	SY COL		4		
车牌号 053810553454	圖控标签 ▼ 监控:1 1	王线:1 周线:0										
终端D 053810553454	序号 时间	名称	直道	失型	状态	文件						
公司 labx	611 2020-05-30 11:12:1	2 053810553454(нг 1	前端抓拍(33號员异常)	成功	D: (GPS_DOWINLOAD)	APTURE_IMAGE(053	3810553454(053	1810553454)\202			
が祖 iatx	610 2020-05-30 11:12:1	2 053810553454(0	H1	前湍抓拍(驾驶员异常	打成功	D: VGPS_DOWINLOAD VC	APTURE_IMAGE\053	3810553454(053	1810553454)\202			
10.45 (注め) 位置时间 2020-05-30 11:12:43	609 2020-05-30 11:12:0	7 053810553454(0	H2 1	前浦抓拍(驾驶员异常	其成功	D: VGPS_DOWINLOAD VC	APTURE_IMAGE 053	3810553454(053	1810553454)\202			
位置 广东省等期市空安区广	608 2020-05-30 11:12:0	7 053810553454(0	H1	範端抓拍(驾驶员异常)	成功	D: VGPS_DOWINLOAD VC	CAPTURE_IMAGE 053	3810553454(053	18 10 553 454) \202			
連席 0.00 公里/时(北)	607 2020-05-30 11:12:0	5 053810553454(C	H2 1	察察录像(驾驶员异常	打成功	C: gStorage RECORD	FILE 053810553454	1/2020-05-30/05	3810553454_3			
使用 正常	606 2020-05-30 11:12:0	053810553454(0	M1 4	除醫求爾(當號贝异常)	116(円)	C: gStorage RECORD	_FILE (053810553454	1/20/20-05-30\05	3810553454			
	< ▶ \ 位置监控 \ 报警信	良〉系统事件》	STREES.	保体列表《我的地图	1 行政区域	DESERVE DOWN CADV	APTURE (MAGEVIS)	01105534546053	IN 10 YO 10 YYO 10 YO 10	(↓) (1/2) 3) 4) 图片预选 /		
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