The product is fixed for use on the vehicle.
The battery is used for a few minutes while the power is off.

JC200 EdgeCam Pro

--3G GPS Tracking Camera

User Manual

Version 1.0

Packaging (Standard)

(1) Power cable
(2) SOS cable
(3) 3M sticker
(4) 4pin relay

Device appearance

IR LED
Inward camera
640x352 30FPS
Power
GPS
GSM
Micro USB
Light sensor

Front camera
1080P 30FPS
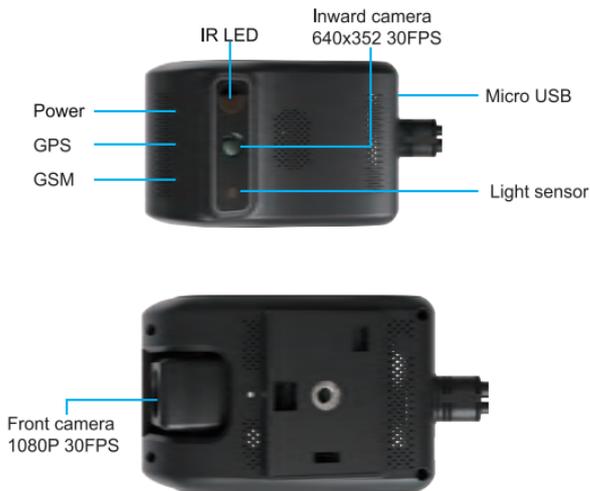
LED

Power indicator-RED

●–● Solid red	ACC ON & Power on
●–○ 0.1s ON & 10s OFF	ACC OFF
○ Off	power not connected

GPS indicator-GREEN

●–● Solid green	ACC ON & Positioning succeeds
●–○ 0.1s ON & 1s OFF	Searching GPS
○ Off	ACC OFF

GSM indicator-BLUE

●–● Solid blue	ACC ON & Connected with platform
●–○ 0.1s ON & 1s OFF	ACC ON & No networkNo SIM card
○ Off	ACC OFF

Specifications

Category	Item	Specification	Remark
Hardware	CPU	ARM Cortex A7 Quad-Core 1.2GHz	MT6582
	OS	Android 4.4	Android 4.4open source system
	Flash	EMMC Flash 8G	
	RAM	LPDDR3 1GB	Frequency 533MHz
	Band	GSM & WCDMA	GSM 850/900/1800/1900 WCDMA 850/900/1900/2100
Function	DVR	Full HD 1080P	30fps,H.264 encoding, Loop-Recording , MP4
	Wi-Fi	802.11 b/g/n	Frequency 2.4 GHz, hotspot

	Remote monitoring GPS tracking	√	PC Platform: www.car-matrix.com APP: CarMatrix
	Live view	In-car/front-car live video via APP or Web	RTMP live stream
	Camera	Main Camera	Full HD 1080P, adjustable viewing angle 140° support dual-recording
		Sub Camera	640*352, viewing angle 90°,
	G-Sensor	√	
	Light-Sensor	√	
	Gyroscope	√	
	GPS module	√	
	MIC Speaker	√	Built-in,speaker 2030, MIC D4.0*1.5
	TF card	Max 32GB	
	OBD interface	√	Connect by Power cable
	USB data interface	√	Micro usb 5 Pin
Power	Supply Voltage	DC 12-24V	Working temperature -20°C~ +75°C
	Battery	External	450mAh
Size	Dimension	109*69*52mm	
	Weight	225g	

Operation

1.Power on

When device power off: insert the TF card (class 10 or above, max 32GB) and Micro-SIM (SIM card needs to be able to connect GSM 850/900/1800/1900 or WCDMA 850/900/1900/2100 network).

Connect the power cable B+ and GND to the vehicle battery's positive pole +12V and negative pole. ACC is connected with the vehicle ignition signal. Device power on automatically after vehicle engine started.

If ACC OFF, the device is in sleep.

2.DVR

● ACC ON: Device runs and records automatically

● ACC OFF: Video recording is not available. Device is in sleeping mode.

● Storage: Video footage will be saved in SD card every 3 minutes. Normally, footage are saved in DVRMEDIA\CarRecorder\GENERAL. (main camera) DVRMEDIA\CarRecorder\USB. (sub camera)

When SD card is full, previous records will be overwritten.

If the internal storage space is less than 800MB, there will be a voice prompt.

If strong vibration detected (crash), the recording time will be 15s longer and footage will be saved to DVRMEDIA\CarRecorder\EVENT.

Memory of the folder EVENT is 1GB. Records in EVENT will be cyclically overwritten.

There will be voice prompt in every 5 minutes if the device has no TF card, damaged TF card or insufficient memory.

3.Live video streaming

● Remote live video via APP or Web.

4.WIFI hotspot：

● ACC ON: Hotspot is default ON. Hotspot name is the IMEI while the password is the last eight digits of IMEI.

● ACC OFF, Hotspot off

5.Vibration alarm

● ACC ON： Alarm and indicators will stop immediately.

● ACC OFF:
5 minutes delay and vibration alarm will be turned on. If vibration detected, device will alarm in 10s.

If ACC ON within 10 seconds, the alarm will be canceled and vibration alarm will be turned off.

If no ACC ON within 10 seconds, the device will alarm for 30 seconds and alarm LED will flickers quickly. At the same time, push notifications will be sent to APP.

As soon as the ACC ON, the alarm will end and vibration alarm will be turned off.

Within 1 minute after the alarm ends, if vibration detected, no alarm will be triggered while LED still flickers; 1 minute later, the alarm will be turned on again.

6.SOS alarm

● Firstly, set the SOS numbers by APP. Press and hold the SOS button for 3 seconds to call the pre-set the 3 SOS numbers circularly till one of them is answered.

7.Remote fuel/power cutoff

● Condition: device is positioning and vehicle's speed is less than 20KM/h. Following the below wiring instruction:

● Send command by APP to cut off the fuel/power.

8.Monitoring
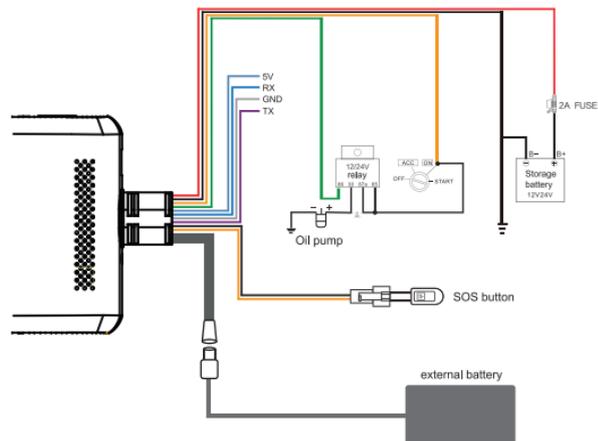
Open http: www.car-matrix.com or CarMatrix App. Enter account name and password to login. Devices bound, IMEI and other related information can be viewed on the page.

APP

APP Manual

Coupled with functions like real-time tracking, playback, remote snapshot and video, monitoring,geo-fence and multiple alerts, CarMatrix APP keeps an eye on your vehicles anytime anywhere.

1.Login & Add device

After the installation is complete, Tap the App CarMatrix to enter login page.
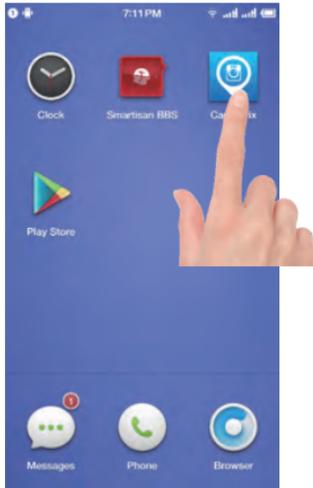
For first-time users, please register. Enter your email where verify code is about to send. Enter the code and click Next to set your password. Register is finished.
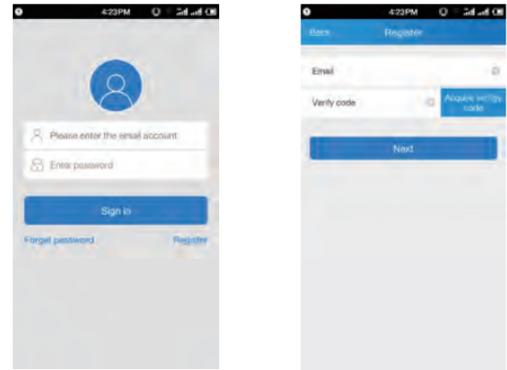
Scan the QR code on the JC200 to add device.

Scan the QR code on the JC200 to add device.

Positioning page

Vehicle list
Menu

History route
Real-time tracking
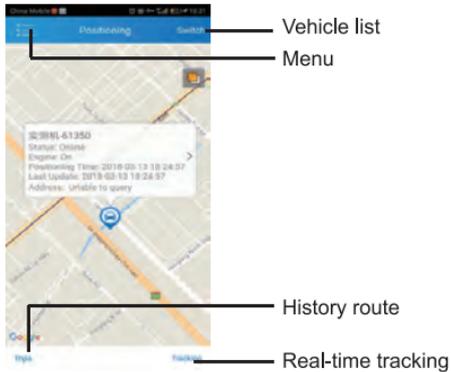
Click"Track", "Tracking", "Switch"、 "   ", as shown below:
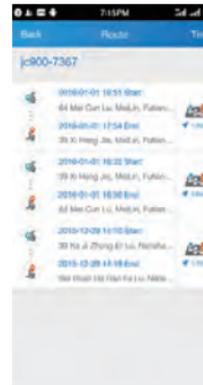
(Track: To playback history route)
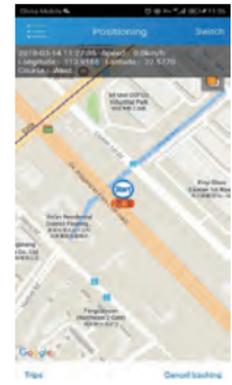
(Tracking: To check real-time latitude, longitude and speed.)
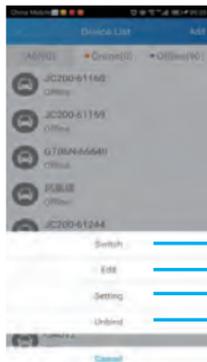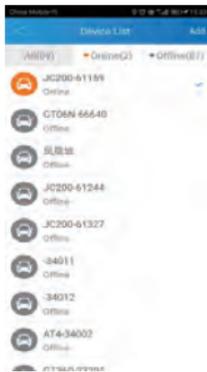
Select device
Edit device name
Vehicle setting
Unbind device

Click setting,
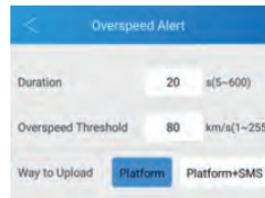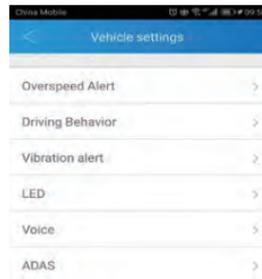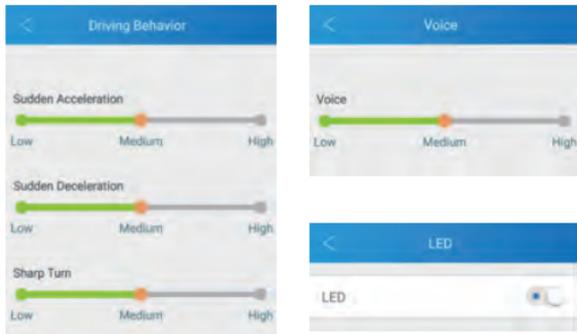
Menu introduction, as shown below:
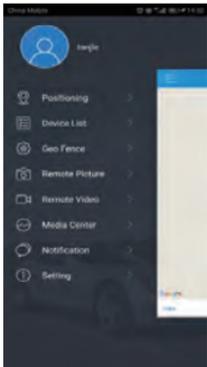

| Item	Function
Positioning	Vehicle management, Location, Route
Device List	All the Devices online /offline
Geo Fence	Geo Fence setting on/off
Remote Picture	Issue command to take picture that would be sent to APP
Remote Video	Issue command to record video /Live view/ ADAS calibration/History replay
Media Center	Synchronization with device for video and picture data
Notification	Check the alert content
Setting	Command sending /Alert function/ Help/ Clear cache /App version info

click "Geo-fence" in menu screen, as shown below:
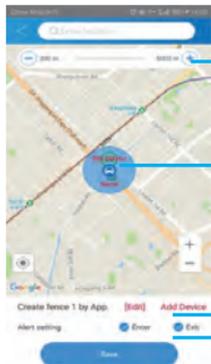
Modify the size of fence

Geo-fence zone

Add other device

Set for Enter or Exit

click "Remote Picture" in menu screen, as shown below:
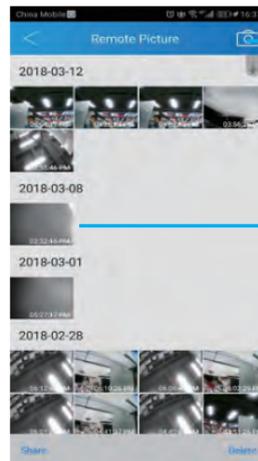
Take a picture

Photo list

click" Remote video" and " Live View"in menu screen, as shown below:

Take a Video

Live View

Video list

Open ADAS calibration line

Switch camera

Live View

Mic /snapshot/video record/full screen
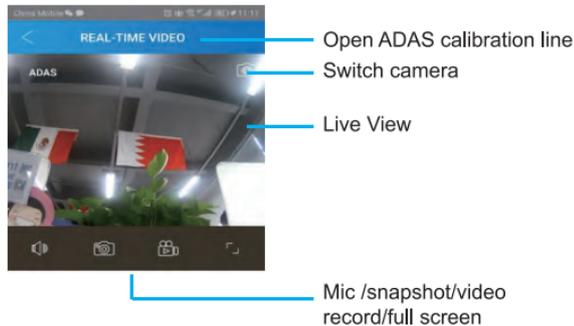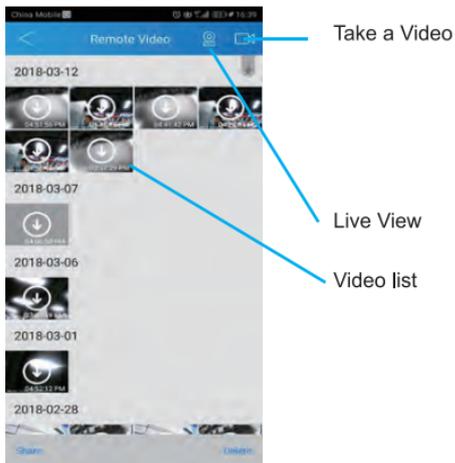
Live View needs 3G Network or better WIFI . If the Network speed does not meet this demand, the screen will be some non-smooth or delayed.

Click" Media Center" in menu screen, as shown below:

Local file for saved Video
during live view

Synchronization
Via Wifi

File List

Connection status between device
and phone
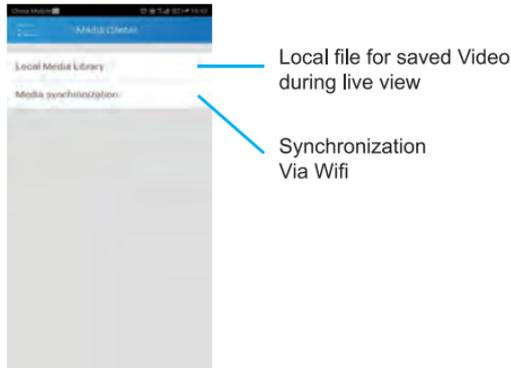
click" Notification" in menu screen, as shown below:

All alert message
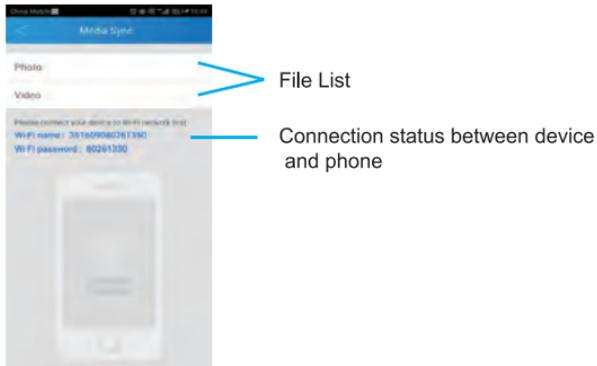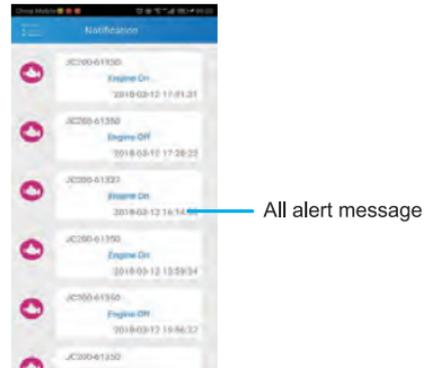
click" Setting" in menu screen, as shown below:
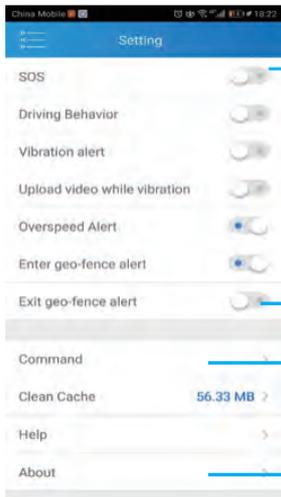
Switch for push corresponding alert

SOS number setting / remote Control and etc.

Version info

Start of Command	Default	Command Format	Instruction
SERVER	No	SERVER#666666#1#<domain name># <port>OR SERVER#666666# 0#<IP>#<port>	eg: server#666666#1#gpsdev. car-matrix.com#21100 OR server#666666#0#211.154. 135.113#21100
VERSION	No	VERSION#666666	

PARAM	No	PARAM#666666	Reply: IMEI , GPS upload interval, timezone
STATUS	No	STATUS#666666	reply: GPS signal, GSM signal, ACC status
HBT	3	HBT#666666#[T1]	eg: HBT#666666#5 means 5 minutes
TIMER	10	TIMER#666666 #[T1]	The unit for T1 is second
PASSWORD	666666	PASSWORD# 666666#<B>	eg: password#6666666#123456
RECOVER	999999	RECOVER#999999	Default password is 666666
RESTORE	No	RESTORE#666666	
REBOOT	No	REBOOT#666666	
SHUTDOWN	No	SHUTDOWN #666666	
APN	No	AP-N#666666#<name>#<apn>#<mcc>#<mnc>#<-type>#<proxy>#<port>#<user>#<server>#<-password>#<mmsproxy>#<mmsport>#<numeric>	We already collect most of carrier APN. If in case missed, setting with below method: 1. If name is without figure, then default as APN 2. numeric is mcc+mnc: mcc 3 digit; mnc 2 digit, if mnc below 2 digits, adding 0 ahead as supplement 3. If the back field are all without figure, then no need fill in. 4. If some are without figure during field, pls use blank instead. eg1: apn#666666#unim2m.gzm2map-n#unim2m.gzm2mapn#460#06 eg2: apn#666666# #unim2m.njm2map-n#460#06