Product Name	**GAOTek Professional Mini Body Camera**
Product SKU	**GAOTek-SCA-115**
Product URL	https://gaotek.com/product/gaotek-professional-mini-body-camera/

Contact us: sales@gaotek.com

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1. Product specification

The main features of the mini body camera: video recording, video capture, Wi-Filink (Network Version), Its main functions are listed in the table.

specification		
basic configuration	Slug	Amba A12 chip
	Sensor	IMX323
	display screen	2.0 inch
	camera lens	120 ° wide angle
	levels of protection	IP66
	Fall grade	2M
	locate function	Built-in GPS positioning module,real-time positioning
	TF card	32GB/64GB/128G/256G/512G
	WIFI function	Support for 802.11 b/g/n protocol 2.4GHz
	4G network	TD-SCDMA / EVDO / WCDMA / LTE-TDDFDD
image parameter	picture pixel	Local Version:32M/16M/8M/4M/2M/1M Network Version: 8M/4M/2M/1M
	Shutter control mode	Electronic shutter
	Focus	2.8mm
	Exposure mode	voluntarily
	Photo file format	JPEG
Video Audio parameter	Resolution	Main-Stream (video record): 1080P/720P Sub-Stream (video trans): 720P/VGA
	Frame rate	30fps/25fps/20fps/15fps/10fps/5fps
	Quality	High / medium / low setup
	Video Compression Standard	H.264 high profile

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	Video compression format	MP4
	Audio compression standard	AAC
	Audio input	High quality microphone
	Continuous recordingtime	Video 10 hours, WIFI Internet 8hours)
size	Volume (mm)	96*62*34mm
	weight	about 200g
power	Battery capacity	5000mAh
	charging time	About 4 hours
	Charging mode	USB charging / data acquisitionstation charging
Auxiliary light source	Infrared complementary lamp	support
	Bright LED white light	support
	Laser positioning	support
	watermark	Device ID, Constable ID, time anddate
	Language	English
	Interface	Mini USB
	LED indicator lamp	Charge indication, video, recording, online
	user's manual	instructions
appendix	clamp	360-degree rotating back clip
	Data line	Mini USB
	adapter	5V/2A
work environment	working temperature	-20℃～+55℃
	Storage temperature	-40℃～+70℃
	Working humidity	40％--90％
software	Management software	Green professional PC end management software
	Operating system	Windows XP /Win 7/Win 8/Win 10

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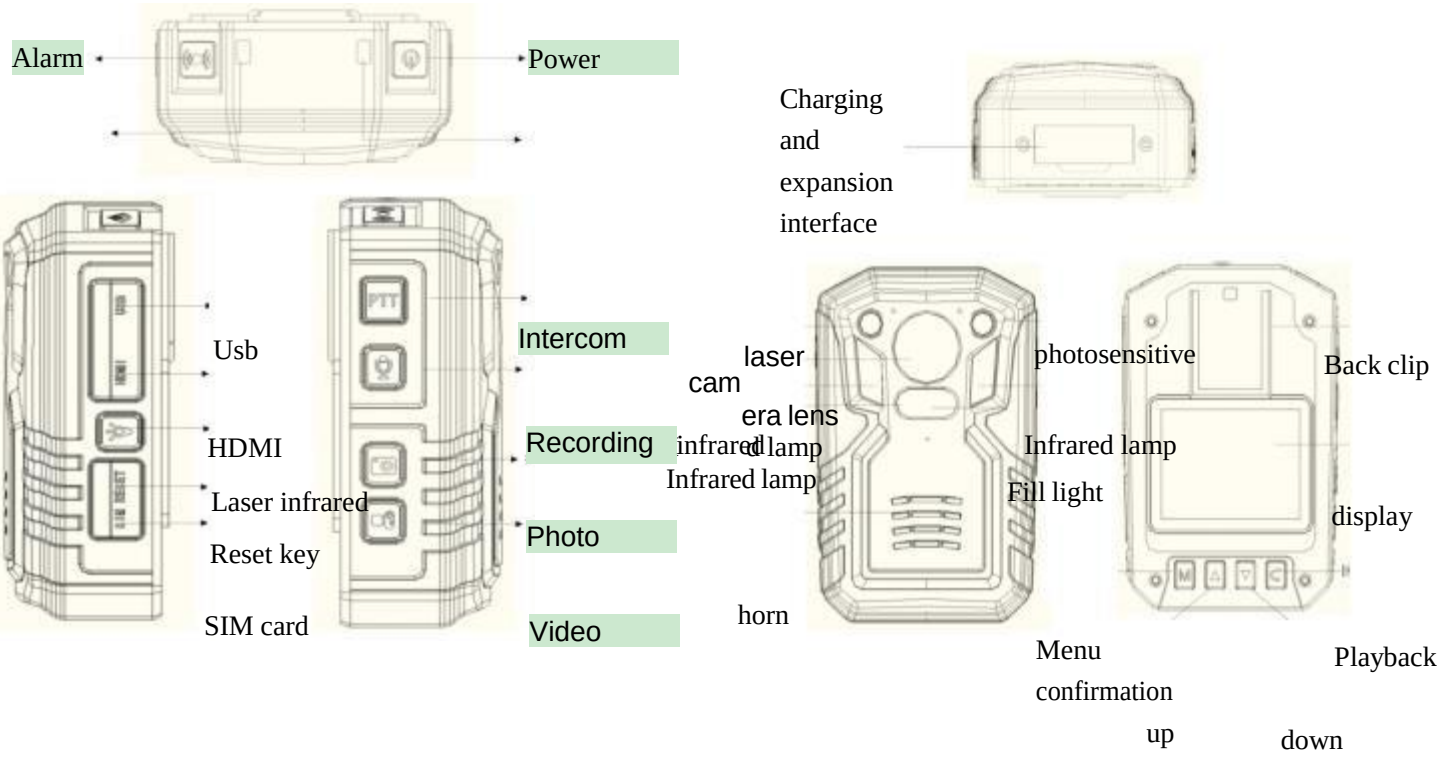
1.1 Product application

The high-definition mini body camera is a highly integrated device speciallydeveloped for the law enforcement industry. The device supports photo taking,video recording, recording, local storage, infrared night vision, laser positioning and WIFI wireless transmission (network version). Video can be uploaded directly to the background through WIFI or AP network environment (network version). Users can view the video returned from the front end through mobile phone PC client. It's the scene law enforcement good helper.

2. Host operations guide

Introduction to the keys of the whole device



Key instruction

Key name	icon	method	function
Powe rkey		Short press	On / off screen In the shutdown state, no effect.
		Long press	A long press of 3 seconds can turn on / off the device.
Interco mkey	PTT	Long press	Activate the intercom (network version)

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Video key		Short press	In boot state, short press video recording, again short press stop recording; shut down state, short press boot and turn on video

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			recording
		Long press	Same as short click function
Photo key		Short press	Under standby condition, the photo can be taken after pressing. During video recording, the photo can be captured and saved
		Long press	In any state, the white light can be turned on by a length of 2 seconds, and the white light can be turned off again by a long timeof 2 seconds.
Recordin gkey		Short press	Audio recordings can be made in standby state, again press willstop recording and automatically save
		Long press	Request for the intercom (network version)
laser infrare d		Short press	Under the condition of turning on, laser position shooting can becarried out after pressing to ensure that the picture is not biased
		Long press	In the state of boot, the long press can be switched to the infraredmode at night, which can be used for video or photo shooting
USB	**USB**	connect	Data transfer interface
Menu key		Short press	In standby state, press this button to enter menu settings; Returns to the preview state under the information display menu;
Upwar dkey		Short press	In the menu setting or file selection state, for upward flipping function; In the preview state, enter the message display menu; press again for the upturn function
Down key		Short press	In the menu settings or file selection state, the down flip function in the preview state, enter the message display menu; press again for the down flip function
Return native playbac k		Short press	In the menu setting or file selection state, the short click to returnto the next level; Returns to the preview state under the information display menu; In preview state, click enter local playback menu, select playbackvideo, photos, audio files

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Alar mkey		Short press	Trigger alarm video, record 30 seconds, and report the alarm to thecenter and upload the alarm video to the central platform at the same time (network version)
		Long press	In the video state or playback state, identify the current video fileas an alarm video

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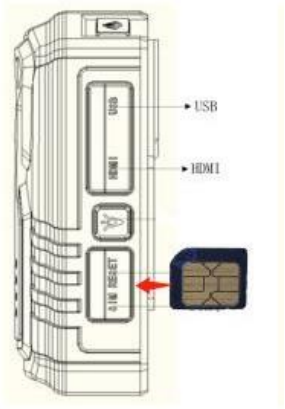
2.1 Status info

Working light status explanation

LED No	Indicator state	State description
1	Green	Power up
	Red	Battery charging
	Blue	Network connected (network version)
2	Red	picture recording
	Orange	sound recording

Insert Sim Card



Interface icon description

Flag name	Definite meaning
	Video recording long press alarm key, recording key document logo;
	Turn on the GPS, indicating that the GPS signal is successfully located;
	Turn on the WIFI function, indicating that the device successfully connected Wi-Fi___33, display signal intensity of 4 arcs signals strongest; belt! Number indicates that the WIFI module is normal and not connected to the hot spot;(network version)
	Represents the current amount of electricity left on the device;

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	Indicates that the device is in the video;
	Indicates that the device is connected to the platform;
13.7G/14.5G	The first half indicates that the device is currently available memory capacity The second half represents the total memory capacity of the device;
2017/01/01 04:24:51	Represents the current date and time of the device;
0000000_00 0000	Indicates equipment ID _ Police number;

2.2 Power ON/OFF

Long press law enforcement instrument "power key" 3 seconds, device power on; in any state long press "power key" 3 seconds, device shutdown; on state, short press "power key", can turn on / off screen.

2.3 video recording

After the device is turned on, the device directly enters the preview state, presses "the video key" to record, the device short vibrates two times, the top red indicator light long bright, in the recording state, again presses "the video key", the device short vibration two times is accompanied by the buzzer prompt, End and save the video file.

In the shutdown state, short press the "video key", with boot function.

When shooting at night without light, you need to press the "infrared key". At this time, the infrared light is turned on to the night shooting mode, and the night photo is black and white.

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2.4 sound recording

After the device is turned on, the device directly enters the preview state,press "recording key" to start recording, device short vibration two times, thetop yellow indicator light is always on, on the device screen prompt has therecording status picture, Press the recording button again in the recordingstate to finish and save the recording file.

2.5 One key switch

After booting up, press the recording key when recording, you can save the current video file and start recording; when you press the recording key, youcan save the recording file at that time and start recording.

2.6 Take a picture

After booting the device, directly into the preview mode, press the "camera" to take pictures,no light conditions under the night shooting needs to open or open automatically device or infrared lamp lights were filmed. In the video or audio state, press the camera button can also take pictures;

2.7 Playback

Press "return key", enter the playback menu, press "up and down" to choose to play video,photos and audio folder, press "confirm" to open the appropriate directory folder.

2.7.1 Video playback

Video directory is divided into multiple time period folder, press "confirm key" to open the folder, which is divided into a number of files shot in this period, press "confirm key" to play video,video file format for MP4.

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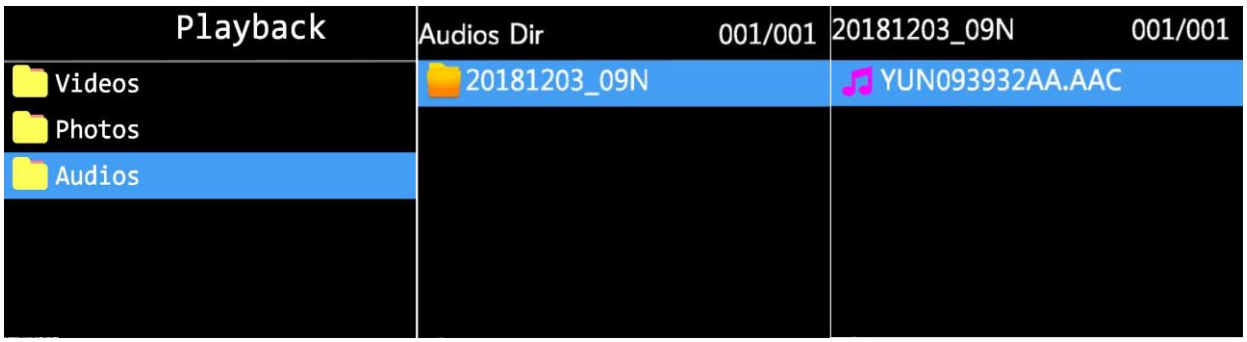
2.7.2 Audio playback

Recording directory is divided into multiple time period folder, press "confirm key" to open afolder, which is divided into a number of files shot in this period, press "confirm key" playback recording, recording file format for AAC.



2.7.3 Photo playback

Photo directory is divided into multiple time period folder, press "confirm key" to open a folder,which is divided into a number of files taken in this period, press "confirm key" to view the photos, the format of the photo file is jpg.

2.8 set up

After boot, in standby state, press "menu key", enter the parameter setting interface, select the parameter option that needs to be modified, press "confirm key" to enter this option, press "up,down key" to select the appropriate parameter, when you select confirm, press confirm. Press up,down to modify other options. Press returns to return to standby preview.

2.8.1 Video resolution

Video resolution for local video storage, can choose 1296 PU 1080PU 720P, default 1080P(1920X 1080).

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2.8.2 Video code rate

Setting the parameters of video recording, the higher the relevant parameter values, the clearer the picture quality, the smoother the video. The video setting parameters are as follows:

- Video resolution: 1296P30 /1080P30 /720P30
- Video bit rate: low / medium / high

2.8.3 Transmission resolution

Network resolution is used over 4G or WIFINetworks Image resolution for remote transmission, default 720p, You can
select 720P 1280X 720)and VGA 640X 480.

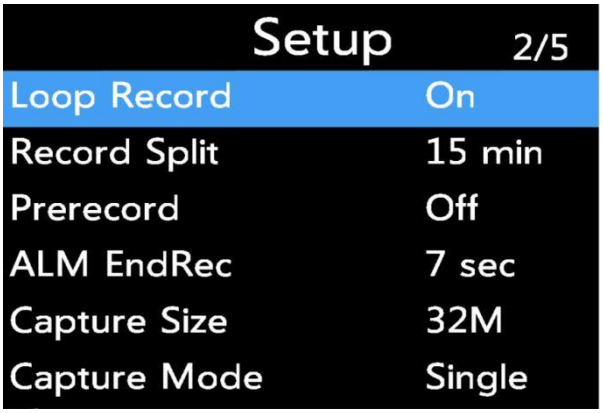
2.8.4 Network frame rate

Net-borne frame rate is used to set the number of image sheets per second for networktransmission in the range of 30 / 25 / 20 / 15 / 10 / 5, by default30 frames per second.

2.8.5 Network transmission rate

The network transmission rate is used to set the network data volume per second, which isdivided into three levels: high, medium and low. The corresponding code rate is as follows:

Network transmission rate	high	middle	low
720P	1.8M	1.0M	800K
VGA	1M	700K	350K



2.8.6 Video mode

Video mode supports boot and manual video.

2.8.7 Cyclic coverage

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If the TF card is full, it will stop recording. (By default, when the memory is full, when the memoryis full, the video will be automatically overwritten. Tagged focus files will not be overwritten)

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2.8.8 Recording segmentation

The video segment is divided into 3 minutes, 5 minutes, 10 minutes, 15 minutes, default 3minutes.

2.8.9 Video prerecording

Video pre-recording enabled 15 seconds of pre-warning time.

2.8.10 Photo size

Photo size support 32M. 16M.12M. 8M. 4M.2M.1M

2.8.11 Photo quality

Photo quality support high, medium, low three options.

2.8.12 Photo mode

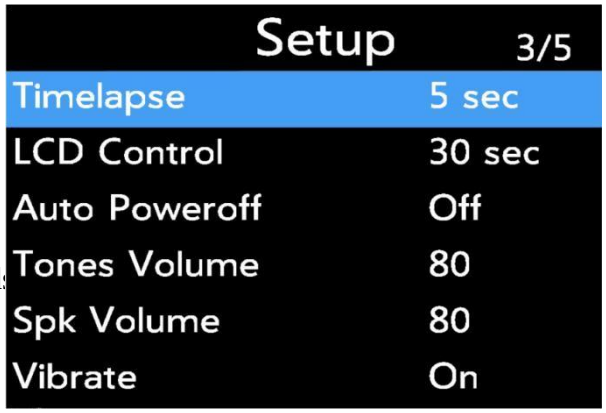
The camera mode is divided into single shot mode, the camera and the timing of continuousshooting mode.

2.8.13 Continuous number of photographs

The number of continuous supports 5, 10, 15, 20, 25

2.8.14 Photo interval

Photo intervals support 3 seconds, 5 seconds, 10 seconds, 30 seconds and 60 seconds



2.8.15 Automatic closing screen

Auto-turn-off support option to turn off, 30 seconds / 1 minute / 3 min / 5 min.

2.8.16 auto shut off

No video on the device.
And network transmission, the device automatically shuts down after the set time. You canSelect close 3 minutes for 5 minutes and 10 minutes for default.

2.8.17 Key volume

Key output volume adjustable

2.8.18 Loudspeaker volume

Horn output size adjustable

2.8.19 vibroswitch

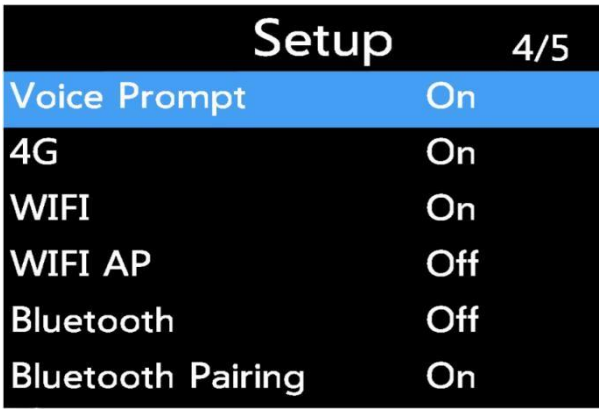
Keystroke shake prompt can be turned on or off

2.8.20 Voice broadcast

Support voice broadcast on and off, when turned on, voice broadcast IDs, video prompts

2.8.21 Infrared switching

Infrared switching supports manual and automaticmodes



2.8.22 Guang Min induction

Guang Min induction support high, medium,low choice, default high

2.8.23 4G switch

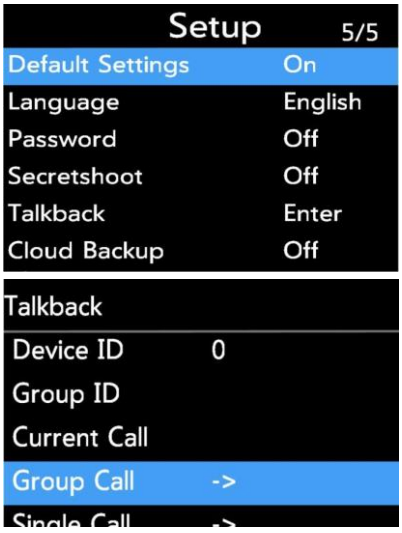
4G optional open and close, by default, the power consumption of the device will be increased, andthe working time of the device will be shortened.

2.8.24 WIFI switch

WIFI is optional to open and close, and after opening, you can choose to do STA mode or hotspot mode.

2.8.25 AP

After the AP is turned on, the device willenter hot spot mode, and the WIFI needs to be turned on to open the hot spot.



2.8.26 Restoration of factory setting

Restore the factory setting to restoreall parameters to the default value.

2.8.27 Language

The language currently supports switching between Chinese and English

2.8.28 Set the password

To open or close, enter the login password(default:000000) before setting up

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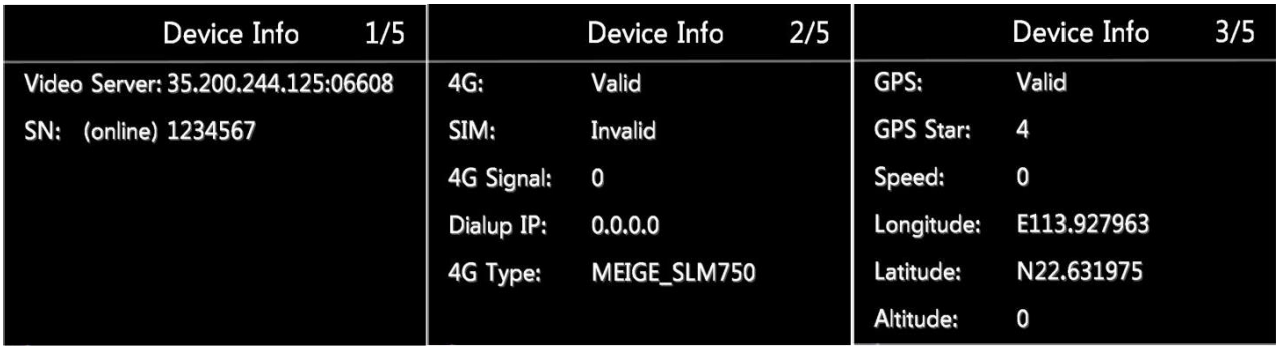
2.8.29 Group Call

We support Group call and Singlecall; you can select from the menu.
Please reference to the picture below:

2.9 system info

The system information is used to display the real-time working state of the device and peripheralequipment, mainly including the central connection state and the GPS state and the Wi-Fi state. 4G dial status and device information.



2.9.1 Central information

Server information, including central IP and ports, as well as device numbers and onlineinformation.

2.9.2 4G state

4G status is mainly related to the self-checking and dialing of 4G module, including whetherthe 4G module exists or not, whether the SIM card has 4G signal value, whether the dial-up is successful, and so on.

2.9.3 GPS state

The GPS state includes the existence of the GPS module, whether it is located, the numberof satellites, and the latitude and longitude of the satellite.

2.9.4 WIFI state

The WIFI state includes the existing state of the WIFI module, the signal strength of the hot nameWi-Fi and the IPs after the successful connection.

2.9.5 facility information

Device information is mainly used to display device version information and device uniqueIDs.

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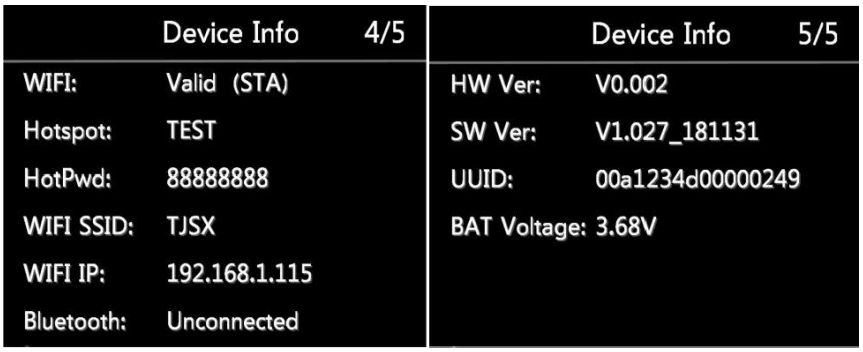

3 Product installation

3.1 container loading list

Order number	Name	Number quantity
1	main engine	1
2	back splint	2
3	USB data line	1
4	The power adapter	1
5	instructions	1
6	Charging base	1

3.2 Fire ware upgrade

Step1：First, the device is turned on and connected through the mini body camera tool. Afterlogging in successfully, the device enters U disk mode.

Step2：Copy the upgrade files firmware_1204_dvr.bin or firmware_1205_dvr.bin to the TF cardroot directory;

Step3：Unload TF card unplug USB line, the equipment automatically restarts and upgradeprocessing, the system will restart automatically after the upgrade is completed;

Step4：After a successful upgrade, you can see the new version of the software as a successfulupgrade through the device's system information.

Step5：Upgrade as far as possible to ensure that the battery is fully powered or connected to theadapter.

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4 Software introduction

4.1 Software overview

The management software of the mini body camera (hereinafter referred to as the management software) is an application software developed by our company to cooperate with the high-definition mini body camera. It communicates with the mini body camera through the USBof the computer and realizes the user parameters. The acquisition and configuration managementof video parameters, 4G parameters and Wi-Fi parameters and central parameters. After loggingin successfully, the device can enter U disk mode, and the playback and export of video datacan be realized.

Software features:：

1. Device logon logout management supports user password modification;
2. It supports the acquisition and modification of the coding parameters.
3. Time of synchronizing the mini body camera;
4. The acquisition and modification of user information;
5. 4G acquisition and modification of network parameters such as Wi-Fi;
6. Acquisition and modification of video parameters;
7. Acquisition and modification of central parameters;

4.2 Software installation and operation

- First access to the software installation package by CD-ROM or Mail BodyCamera_XXXXXXX.exe；
- Double-click to run or right-click to run the program as anadministrator;

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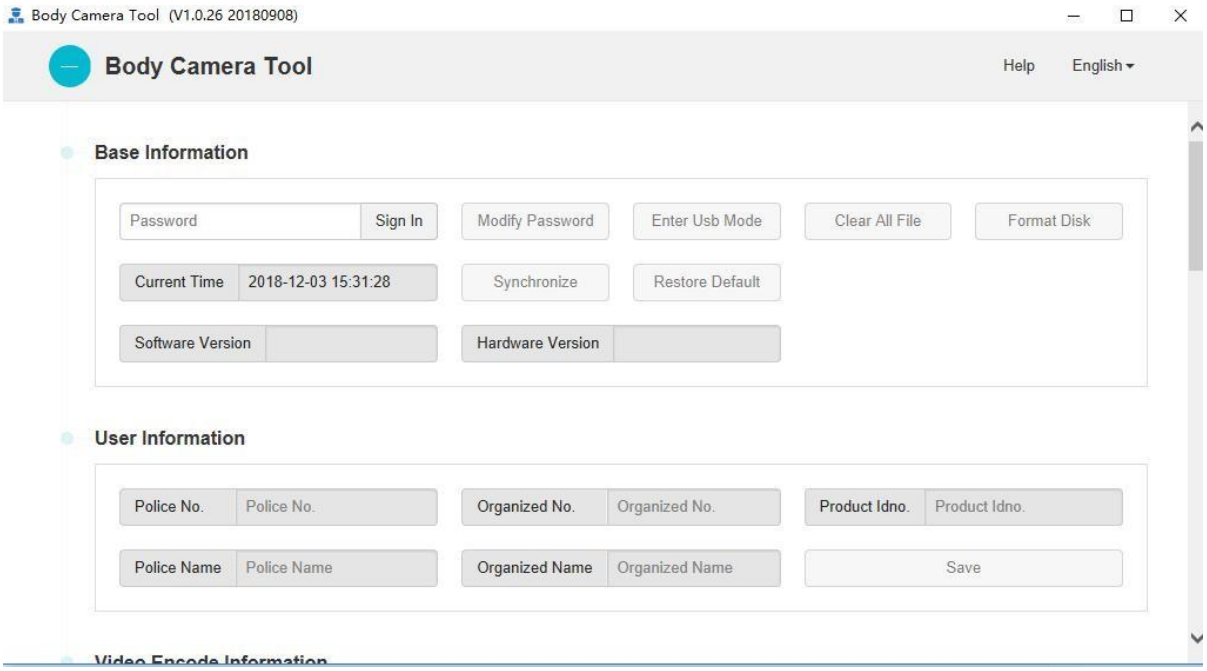
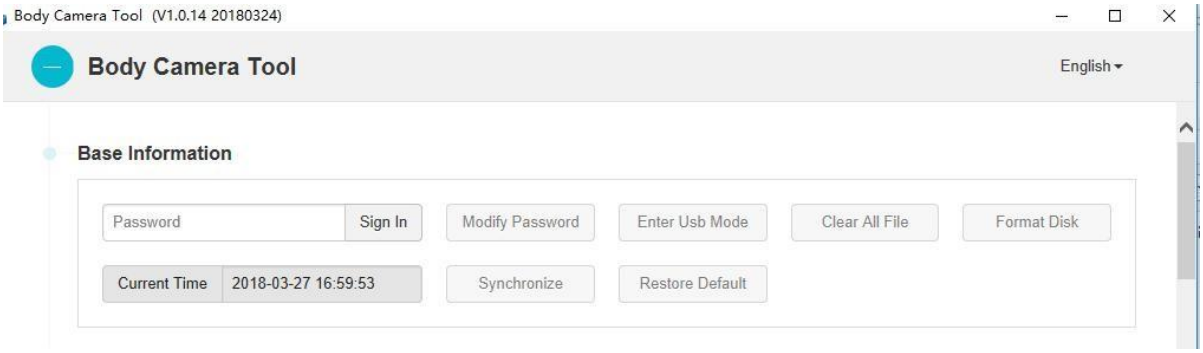
- Click next to complete the installation, the user can choose theinstallation directory during the installation process.
- Find the install software icon on the desktop or program start menu,and double-click to run, as shown in the following figure:



5 Software operations guide

5.1 essential information



Note:firstusetheUSBwiretoconnectthedevicetothecomputer.

Login: enter the password, click login, the default password is

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000000;

Change password: click change password, the user can modify login password 6 for the number;

EntertheUdisk:clickintotheUdiskmodeandclicktodeterminethe device for the U disk mode, you can find a new disk on thecomputer;

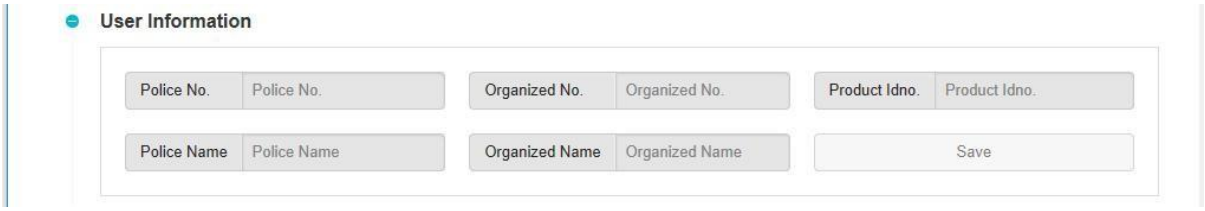
Clearalldocuments:clearallvideofilesinthelawenforcementinstrument;

Formatted disk: format the disk of the law enforcementinstrument;

Synchronoustime:usecomputertimetocalibratethetimeofthelaw enforcement instrument;

Restore the default settings: restore the factory settings;

5.2 User information



Alarm number: set up a Police Officer number;Unit number: set

user unit number;

Product serial number: set up product serial number;Name: set user name;

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Unit name: set up user unit name;

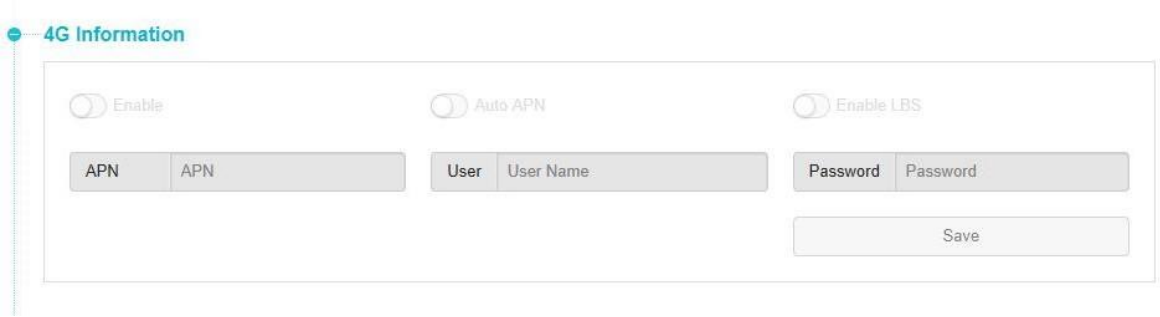
5.3 Coding parameter

Videobitrate:selectvideoresolutionandbitrate,1080Pand720P,and three-bit rate optional;

Videoframerate:optionalframerateof5:10,15,20,25,30,etc.;Choice of channels: only multiple channels can be selected; Network transmission rate: select the resolution and bit rate for network transmission;

Network frame rate: select frame rate for network transmission;

5.4 4G parameter



Enable: Turn on or off 4G functions;

Automaticidentification:settheaccesspointinformationoftheoperator automatically;

APN:setupdial-upaccesspointinformation,differentoperators

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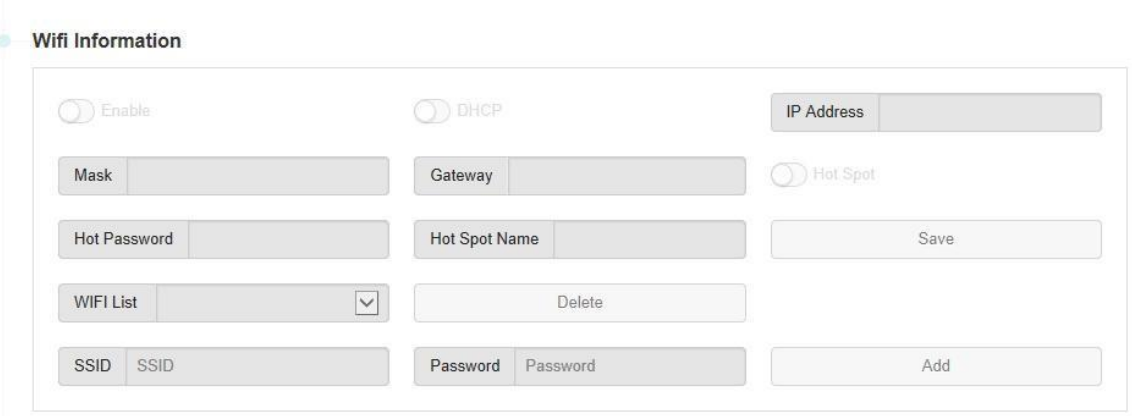
have different names;

User:setuptheuser’snameforSIMcarddialing,defaultisempty;Password: set SIM card dial password, default is empty;

5.5 WIFI parameter:



Enable: turn on or off the WIFI function;

Hotspots: WIFI works in AP mode, doing hot spots, the premiseis to enable Wi-Fi first;

Hotspotname:setthehotspotname,openthehotspoteffective;

Hotspotpassword:setthehotspotaccesspassword,openthehotspot effective;

WIFI list: shows the WIFI hot spot name, the maximum support 8;

Delete button: select the hot spot name on the left, click todelete the corresponding hot spot;

SSID: sets the hot spot name to connect to; Password: sets the key password to connect to;

Add button: add the hot information on the left to the device;

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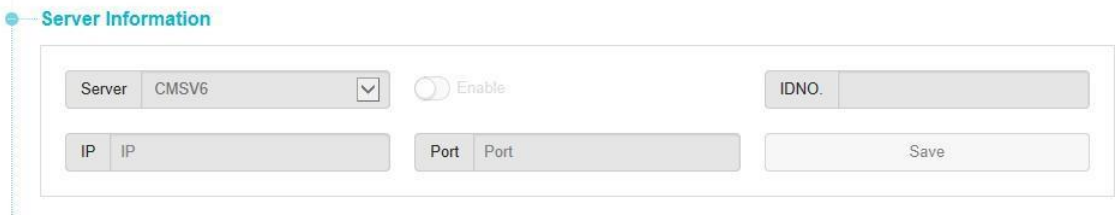
5.6 Central parameters



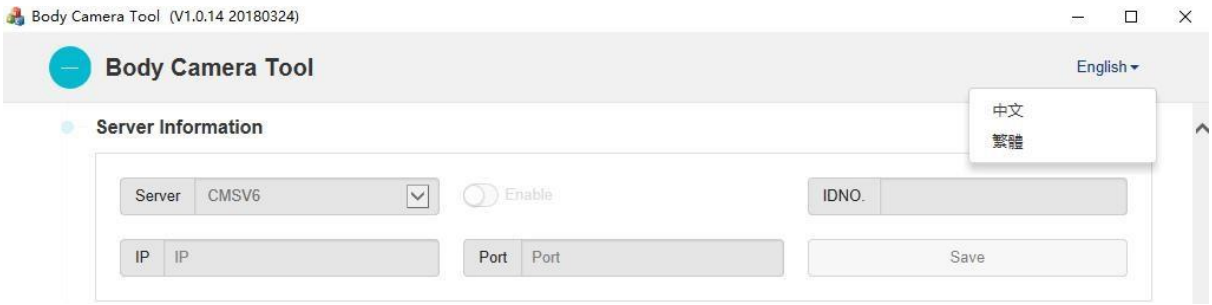
Enable: turn on or off the central server connection function;Server: set the IPs of the server;

Port: set the connection port of the server;

Number: set the unique number of the device to report to theserver;

； Save button: save parameter;

5.7 language selection



Click on the Chinese button in the upper right corner, pop up the options shown in the picture, choose according to the user's needs, currently support three languages: simplified Chinese, traditional Chinese, English,other languages need to be customized according to the needs of the customer.

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5.9 Enter U disk mode

- First, enter the password to login, after successful login, click on "Udisk mode" to enter the following figure:
- Click "login", the device enters the U disk and exits the login. The user cannot longer configure the parameters, as shown in the following figure:

- On my computer you can see the U disk:

6. Use of attention

6.1 Unable to land

- First check whether the equipment is on normally;
- Check the connection of USB line;
- Pull off USB to reconnect;

6.2 Parameter preservation problem

- **Some parameter settings do not take effect immediately and you need to restart the device to take effect;**

6.3 device reset

When the device is abnormal or crashes, press the reset key, and the device can return to normal, as shown in the figure:

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