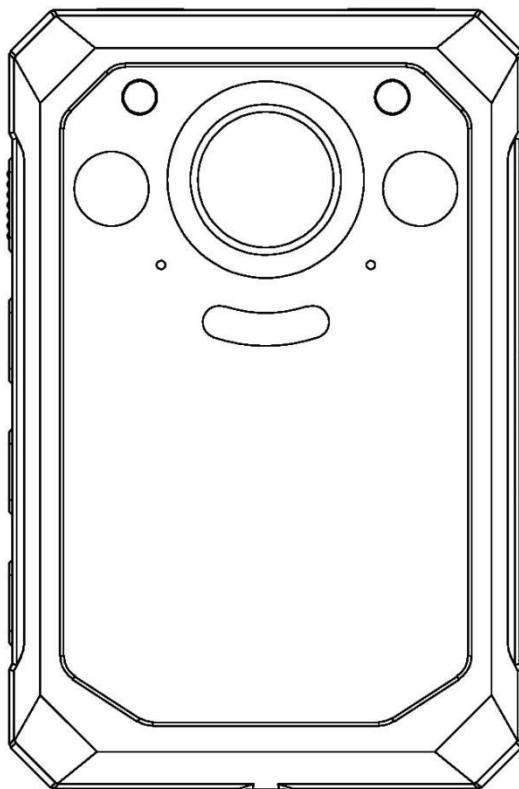


# Body Camera User's Manual



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## **Preface**

Thank you for using our Body Cameras. This manual is applicable for BC007 series Body Cameras. Please read the manual carefully before using the devices. Please keep this manual for reference in the future. The content of this manual is subject to be changed without notice.

## **Important notice**

- Please keep the device from high temperature.
- When smoke, smell or noise comes out from the device, shut down the power immediately, and contact your supplier in time.
- Please contact your supplier if the device is not working properly. No warranty will be covered if the damage caused by unauthorized disassembly or repair.
- Please do NOT charge the device at high temperature over 45 degrees Celsius, it could possibly cause the explosion of the battery. Please use the certificated battery from the original factory ONLY.
- Please read this manual carefully before using the device, and follow the instructions when using the device.
- Please do NOT kick or hit the product to avoid device damage and data missing.
- Keep the device away from high temperature and high humidity environment.
- Keep the device away strong interference source.
- Please backup the data recorded by the device in time.
- Please keep the lens clean for good image quality.
- Please keep your user name and password safe.

# **Brief introduction and main features**

## **Brief introduction**

The body cameras are the portable devices that can record video and audio. The devices can also transmit live video and audio through 3G or 4G, do live tracking with GPS. The devices have a TFT monitor and buttons on it and user can operate the device easily. The body cameras are usually used by police man, security guard, and other law enforcement officers.

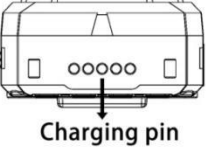
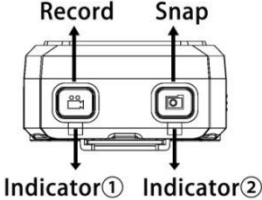
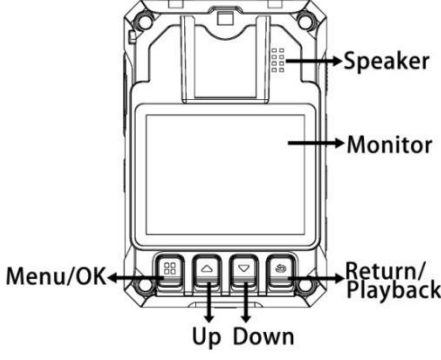
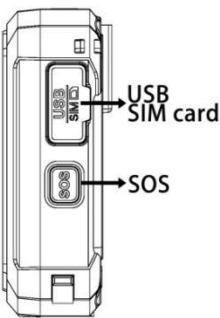
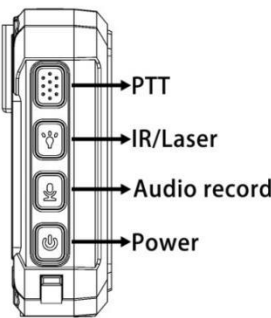
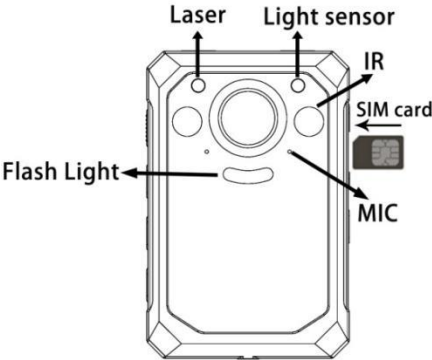
## **Main features**

- The device is in compact size and suitable for portable use of recording.
- User can get live video and audio through 3G, 4G or WiFi.
- User can get live tracking of the device through built-in GPS in the device. The GPS data will also be recorded into the record file with audio and video, so user can get the location information in the record file.
- Use lithium battery for power supply. Device can be recording continuously for 10 hours.
- Built-in 32G storage space. (32G~128G optional storage space)
- Built-in 4 million pixel cameras, support recording at 1080P, 720P or D1 resolution, support taking picture with 40 million pixels, 32 million pixels and 2 million pixels.
- Support IR. Support recording at night.










Record file name have information on date, time, record type, which make it easier for searching and document.

- User can explore, search and playback the files on the device.
- Support panic button. The panic button alarm can be sent to control center through 3G/4G.
- Record encryption makes the evidence more safe.
- Device can display device ID, user ID, date and time.
- Device can display information about battery usage, charging status, system time and memory space. Device has light indication for power on, recording video or audio. Green light indicates power on, red light indicates video recording, yellow light indicates audio recording.
- Device can report event alarm, including alarm for battery running low, insufficient memory space alarm etc.
- Device has log files. Device with log events that include power on/off, recording video, recording audio, taking pictures, GPS status fixed, 3G/4G connection, and WiFi connection.

# Buttons Description



## Buttons Description

Buttom	Icon	Action	Function
Power		Short Press	When device is ON, short press to turn on/off the screen.
		Long press	1. When device is OFF, power on device when holding for over 3 seconds. 2. When device is ON, power off device when holding for over 3 seconds.
Talk back	<b>PTT</b>	Short Press	Start talking back. (Need to connect to interphone or server through internet★)
Record		Short Press	Start recording when device is ON, Stop recording after pressing it again.
		Long press	Power ON and start recording when device is OFF.
Snap		Short Press	1. Start to snap. 2. Snap when device is recording and store the picture.
		Long press	Holding for 3 seconds will turn on the flash light when device is ON.
Audio Record		Short Press	1. Start recording audio when device is ON. 2. Switch to record audio when device is recording video.
Laser		Short Press	Turn on the laser when device is ON (only when laser is enabled in menu)
		Long press	Holding for 3 seconds will turn on the IR (when IR is in manual mode)
SOS	<b>SOS</b>	Long press	Holding for 3 seconds to starts an alarm and recording, send the alarm to server at the same time★
SIM	<b>SIM</b>	Insert / Eject	Insert a SIM card into the slot and use 4G service to connect internet★
USB	<b>USB</b>	Connect	For charging, data transmission, external camera, headset and interphone ect.
Menu/ OK		Short Press	1. Display the main menu on the screen when device is in preview mode. 2. Confirm the setting changed.
		Long press	Switch 1080P, 720P or other REC resolution in preview mode.
Up		Short Press	Scroll up the menu or zoom out the view in preview mode.
Down		Short Press	Scroll down the menu or zoom in the view in preview mode.
Return / Play		Short Press	1. When menu is displayed, press to return to the upper level menu; 2. When device is idle, press to play back recorded video, audio and pictures. 3. When recording, press the button will mark the recording video as IMP file.
		Long press	Disable/Enable menu operaton when recording.

## Indicator

LED Indicator	Colour	Description
Window 1	Blue	ON : Charging complete Twinkling: Charging OFF : Not charging
Window 2	Green	Twinkling slowly : Idle Twinkling faster: Face recognition is working ON: Live streaming or menu operating
	Red	Video recording in progress
	Yellow	Audio recording in progress

## Interface introduction



- 1080P/30 Preview mode, resolution is 1920\*1080 and FPS is 30
- 预录中(10s) Pre-recording 10 seconds
- 0012345 000000 Product ID\_Officer ID
- GPS GPS signal icon
- 3G/4G 3G/4G Signal icon
- WIFI WIFI Signal icon
- Battery icon
- 2017/04/07-10:38:55 Date and time
- 11.7/14.4G Available memory/total memory
- Connected server icon
- 请输入密码: The default password is 888888 (Only for six letters or numbers)

## Operations

### 1. Power On/Off

When the device is OFF, holding the "Power" button for 3 seconds will turn on the device.

When the device is ON, short press the "Power" button will turn On/Off the monitor, press and hold the "Power" button for 3 seconds will turn off the device.

### 2. Record Video

When device is ON, short press the "Record" button to start recording, the device will vibrate once and indicator will turn red. When the device is recording, press the "Record" button again will stop recording with vibration and beep.

When device is ON, holding the "SOS" button to active the alarm system and start recording.

When the device is OFF, holding the "record" button for 3 seconds will power on the device and start recording video.

### 3. Record Audio

When the device is ON, press "Audio Record" button to start recording, the device will vibrate once and the indicator will turn yellow. Press the "Audio Record" button again, the device will stop recording.

### 4. Take Picture

When the device is ON, press "Snap" button to take pictures.

### 5. IR

When the IR setting is Manual, holding the "IR" button for 3 seconds can turn On/Off the IR light; When the IR setting is Auto, the IR switches according to the ambient light illumination. When the IR is ON, the Bodycam's view will be black and white.

### 6. Play Back

Short Press the "Return" button, the "Playback" menu will be displayed. Use "UP" and "DOWN" button to choose the directory and file to play. See the picture below, the directory of "20190101\_20" means those videos in the folder is recorded between 20:00 and 21:00 in the day of 2019/01/01, "203315" means the video is generated at 20:33:15, "1030h" means that is a general video with 30fps@1080P.

Playback	20190101_20	001/002 20190101_16	001/001 20190101_13	001/001
Video	203315_1030h.avi	164732_3.jpg	135326.wav	
Photo	202911_1030h.avi	163915_2.jpg	135012.wav	
Audio	202432_1030h.avi	162036_1.jpg	134428.wav	
	202045_1030h.avi	161145_0.jpg	133652.wav	
	201518_1030h.avi		132819.wav	
	201425_1030h.avi			

#### 6.1 Play back video files

In "Video" directory, there are directories named with date and hour, press "OK" button to access the directories and press "OK" button to play back. The video format is AVI.

#### 6.2 View the pictures

In the "Photo" directory, there are directories named with time. Choose the picture file and press "OK" button to view the pictures. The picture format is JPG.



### 6.3 Play Audio

In the "Audio" directory, there are directories named with time. Choose the audio file and press "OK" to play the audio. The audio format is WAV.

### 7. Settings

When the device is in preview mode, press "menu" button to show the "Setting" menu. Press "UP" or "Down" to scroll up or down in the menu. Press "OK" to set the configuration. Press "Return" to return to the upper level menu.

Setting		Setting	
Rec Resolution	1080P	Live Mode	Fluency first
Record FPS	30	Picture Size	1920x1080
Record Quality	High	Durst shot	Off
Live Resolution	720P	Dewrap	On
Live FPS	25	USB Mode	Auto
Live Quality	Medium	3G/4G	On

- The Rec resolution is for recording. The default setting is 1080P(1920\*1080).
- The default record FPS is 30 FPS. The higher of the FPS, the smoother of the video footage.
- Recording quality refers to the bit rate of recording, the higher of the bit rate value, theoretically, the better image we can get from the video footage.

H.264	Super	High	Medium	Low
1080P	10M	8M	6M	4M
720P	8M	6M	4M	2M
360P	4M	2M	1M	0.5M

- The Live resolution is for video streaming through 4G/3G or WIFI. The default resolution is (1280\*720), the higher value we set, the better image we can get from the live straming.
- The Live view FPS for video streaming through 4G/3G or WIFI. The higher of the FPS, the smoother of the live video.
- The default value for live quality is "medium". We can get a better live streaming base on the higher live quality value.

H.264	Super	High	Medium	Low
1080P	4M	3M	2 M	1 M
720P	3M	2 M	1.5M	0.8M
360P	1.5M	1M	0.7M	0.35M

- The Live mode includes fluency first and quality first, fluency means more fluent streaming we can get, and quality first means better quality of live streaming we can get.
- Picture size means the picture's resolution when you snap; the picture's resolution you took when device record, which is base on the record resolution. Burst shot means device can take several pictures at a time.
- When the Dewarp is ON, it means that the camera has distortion correction to make the picture more realistic and accurate; when the Dewarp is OFF, the lens angle is bigger and zoom in/zoom out is available under the setting.

●The default USB mode is "Auto". User can choose from "Auto", "Host" or "Device" mode. "Host" means that device is working on 4G/3G or WIFI mode; "Device" means camera is communicating with PC; "Auto" means that camera can detect the USB connected, if the USB cable connects with PC, camera will work on "device" mode, if the USB cable connects with charger, camera will work on "Host" mode.

●The 3G/4G setting is used to turn On/Off 3G/4G module.

Setting		Setting	
WiFi	Off	Autoscreen Off	30 Seconds
WiFi List		Quick charge	Off
Extranal Camera	Off	Record Mode	Manual
Fice Recognition	Off	Overwrite Mode	On
GPS Module	On	IR Switch	Manual
LCD Brightness	High	Mic Volume	8

●The WiFi setting is to turn On/Off the WiFi and AP. The default AP password is 12345678. WIFI list can show the list of WiFi searched by device, which makes camera connect a WIFI more easier.

●Device support an external camera connection with USB cable, when the setting change to "ON", device will restart and then detect the external camera connection, if an external camera connected, device's screen will switch to the external camera view.

●Camera support face recognition that is to detect human's face, if a man's face were similar to a picture store in the database, device would trigger an alarm and start recording.

We can create an "images" folder as the database, copy the pictures to the folder, those pictures format should be "jpg" or "bmp", the picture's size should smaller than 320x240 (24bit).

Alarm	2019-01-22 14:57
images	2019-03-11 16:19
Record	2019-03-04 11:05
index_1.idx	2019-03-01 11:02
log.txt	2019-03-11 16:17

●The GPS module is to turn on/off the GPS, when the GPS connected, the GPS icon will turn green.

●LCD brightness is Used for controlling the monitor's brightness. Given "High", "Medium", "Low" 3 options.

●The setting of autoscreen Off is for turning off screen automatically, when the setting is OFF, you have to press power button to turn screen off.

●Quick charge means that device will turn off when device is charging by charger.

●The record mode can be "Auto" and "Manual". When it is "Auto", device will record video automatically after device power on, and when it is "Manual", video record needs to press record button.

●The oldest files (except the IMP files) can be overwritten when the memory card is going to overflow.

●The IR switch mode can be "Auto" and "Manual". "Auto" means IR will automatically switch depends on ambient light illumination, "Manual" means that holding the "IR" button for 3 seconds to switch IR.

●The microphone volume can be choose from 0 to 10. The higher of the setting value, the more sounds information device can get from the surrounding.

Setting		Setting	
SPK Volume	9	Pre-Recording	Off
Voice Reminder	On	Post-Recording	Off
Vibrate Reminder	On	Time Sync	Off
External Audio	Off	Laser	Disable
File Length	5 Minutes	Password Protect	Off
Record Encrypt	Off	Language	English

●The speaker volume can be from 0 to 10. The default volume is 9.

●Voice reminder is to turn On/Off the "beep" when pressing buttons. Is NOT including record and snap reminder.

●External audio includes "Headphone", "Interphone", "None" 3 options. The setting should refers to the external device connected with camera.

●File length means the length of the saved video for recording. You can select from 5 mins to 30 mins.

●"Record Encrypt" means that the video is encrypted when you record, the encrypted video can be played with special player, the default password is 888888.

●Pre-Recording means that device records 10 seconds video and store in RAM cyclically in advance when you press the "record" button.

●Post-Recording means that device will remain recording within the setting time after you press the "record" button to end the record. The options include 5s, 10s, 20s, off.

●Time Sync means that device can sync it's time with internet.

●The default laser setting is "disable", which means that you can NOT turn on laser light by pressing "IR/Laser" button, to turn on the laser you must change the setting to "enable" to.

●When the password protect is ON, it needs you to enter the password to get into the setting and playback interface.

●Set the language for the device. According to the bodycamera's registration, the default is English.

Setting	
Talk Group	Off
P2P	Off
Device Info	

●Talk group means that several people can talk in a group, it needs an internet platform to support the function.

●Talk P2P means that 2 people can talk to each other in a "talk group", it needs an internet platform to support the function.



●The device information includes hardware version, firmware version, MCU version, Device SN, vendor ID, product ID, Lan IP, 3G/LTE IP、wifi IP, Gate way, DNS0, DNS1, Server IP, Server Port, 4G/3G Module, IMEI, Operator Name, Signal Level, Wifi Module, Wifi MAC, AP Name.

Device Info		Device Info		02/04	Device Info	03/04	Device Info	04/04
HW Ver	V1.0.3-1710-BC07	3G/4G IP	10.10.10.10		Sever port	6608	WiFi MAC	
FW Ver	V2.5.1-2019010116	WiFi IP	192.168.0.222		3G/4G module	YY20	AP Name	
MCU Ver	20/09/2018-03	gateway	192.168.0.1		IMEI	123456789012	GPS Module	GPS
DEVSN	80001111	DNS0	192.168.0.1		Operator Name	CHN-UNICOM		
VendorID	BC1	DNS1	192.168.0.1		Signal Level	-66dBm		
ProductID	0200E	Sever IP	mobilecam3.net		WiFi Module	AP6255		

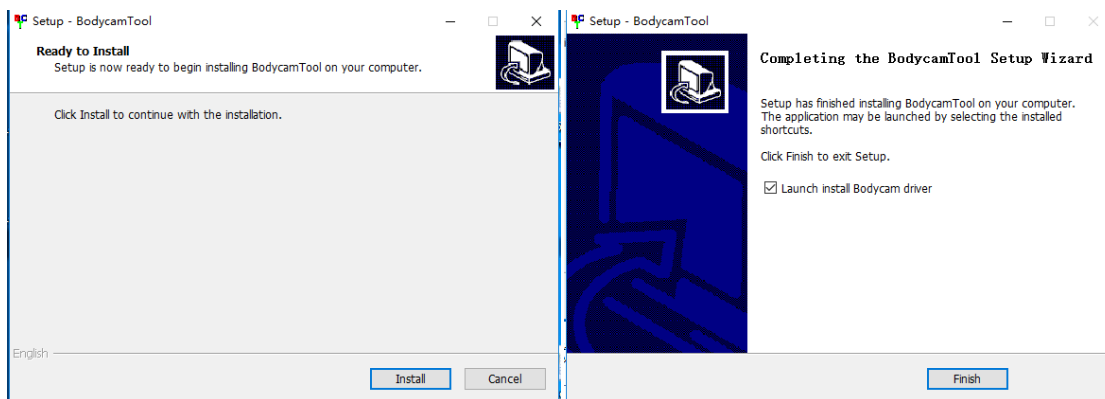
# Operation for BodycamTool

## ◆ Install the BodycamTool

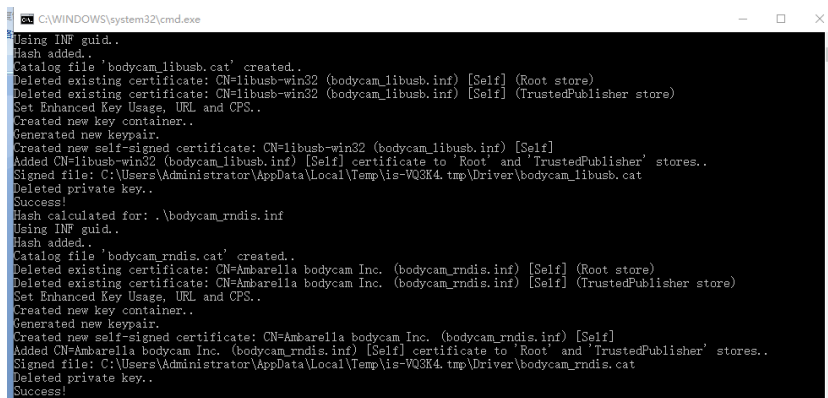
Support Windows2000/WindowsXP/Vista/Windows7/Windows8 and Windows10, if it's your device first time to connect your PC, you need to install the BodycamTool software to make your PC communicate with our device.

1.1 Hold the "PTT" button to connect device to your PC's USB port with USB cable, then your PC will generate a "CD driver", see the picture:  CD 驱动器 (F:) bodycam 0 字节 可用, 共 2.01 MB CDFS, and then find the software "BodycamTool.exe"  BodycamTool.exe in the "CD driver".

1.2 Double click the BodycamTool.exe to set up the software, and click the "finish" button to finish the installation.



And then it will continue to install the USB driver, see the picture as below:




Click "next" button to go on the driver's installation, then the driver install successfully, click "Finish" to end the installation, see the picture as below.



## ◆ Login BodycamTool



1. Double click the icon  to run the software after your device connect to your PC, click "Detect" button to read the product ID, when the "Status" box shows "InitDev Device Success!", which means that BodycamTool connects device successfully, input the password 888888; click "Login" button, the "Status" box shows Login Device Success! See the picture as below:

The screenshot shows the BodycamTool application window. It has a light gray background and a title bar with standard Windows window controls. The interface is divided into several sections. At the top, there's a 'ProductID' field with 'BC002' and a 'Detect' button. Below this are buttons for 'Enable USB Disk', 'Time Sync', and 'Reset to Default'. A 'Language' dropdown is set to 'English'. The middle section contains fields for 'Area' (Asia), 'Country' (AE), 'City' (Dubai), and a 'DST' checkbox. Below these are 'APN' and 'APN User' fields. The next section is for device information, including 'Device NO.', 'User NO.', 'User Name', 'Unit NO.', and 'Unit Name', each with a 'Get' button. There's also a 'Wi-Fi SSID' field with 'szest\_qb1' and a 'Wi-Fi Password' field with '\*\*\*\*\*', both with 'Get' buttons. A 'Wi-Fi List' dropdown is also present. The 'Server Config' section includes a 'ServerName' dropdown set to 'CMSV6', a 'ReportTime(s)' field set to '50', and a 'Password' field. The bottom section has a 'Device' dropdown set to 'BODYCAM', a 'PTT' dropdown set to 'Disable', and a 'Log' dropdown set to 'INFO'. There are also buttons for 'Get', 'Set', 'Enable Disk Auth', and 'Export Log'. At the very bottom, there's a 'File' field and a 'Process' field. On the right side, there's a 'Status' box with a 'Clear Window' button. The status box contains the following text: 'Start Detect, Waiting ...', 'Find Device: BC002', 'InitDev Device Success!', 'Login Device Success!', 'GetApList Success, ApList Num=1', and 'SetGet Success'.

2. In the first part we can see the "Enable USB Disk" button that means device's memory can be read by PC, "Time Sync" means that device's time can synchronize to your PC. Note those three setting "Reset to Default"/"Format Disk"/"Newpassword", Once the factory settings are restored, the current settings saved will be restored to the factory default settings. Format SD indicates that the data inside the device will be erased completely. Device default password is 888888, if you want to modify the password, Please make it more easy to remember.
3. In the second part user can set "Area"/ "Country"/ "City" according to your current location, after that the time zone will change automatically. "APN" means that device support dedicated card provided by telecommunication operators, the "APN User" and "APN" is also provided by operators.
4. The third part include device information and wifi, click "Get" button to read the default information, you can click "Set" to modify these information after you input a new one(the "Device NO." can NOT be changed). Input "WifSSID" and "Wifi password", then click "Add" button to add the wifi to device and then click "Get" to check if the wifi was adding successfully.
5. The forth part is server config, Select the "ServerName" to "CMSV6" and click "Get" button to get the defalut server setting, modify the server IP in "IP" box and then click

"Set" to save the IP setting. (6608 port is the default one, generally the default port doesn't need to change)

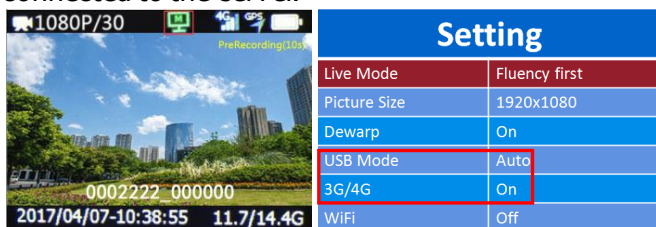
6. The fifth part is about "PTT" and "Log". For "Enable"/ "Disable"/ "Auto" respectively means full duplex/ half duplex/ auto mode. Click "Export log" to export log to the device storage.
7. The sixth part for device upgradation.

**Note:** To avoid detecting device failed due to inadequate power, try to connect it in rear USB slot in your PC.

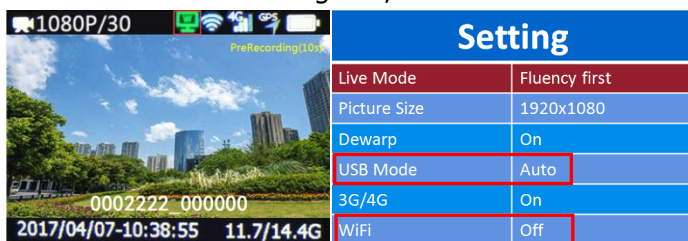
# Operations for 4G BodyCamera connection

**This part is only for built-in 4G or WIFI module device.**

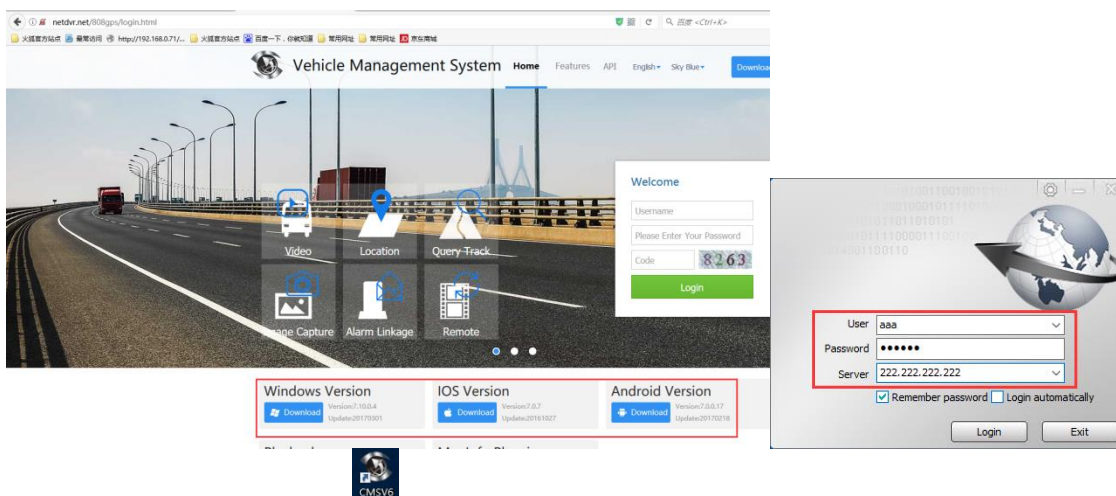
1. Connect to the internet with 4G SIM card.(make sure "USB Mode" setting is Auto)
  - a. Insert a available 4G SIM card into the BodyCamera's card slot.
  - b. After you insert the 4G SIM card, device will do a self-detection to check if a SIM is there , once the device has connected to the internet, you can see a 4G signal icon on the screen, and the other "M" icon beside 4G signal icon will turn green, which means the device has connected to the server.



2. Connect to the internet with wifi. (If the device has NOT built in wifi model, you can skip this part )
  - a. Remove the USB cable from device after you have set wifi to your device.(follow the BodyCamTool wifi setting)
  - b. Then go back to the device and find the wifi setting, change the setting to be "ON"(default setting is "OFF"). And then you can find the WIFI signal icon and "W" icon on the screen, when the "W" icon turns green, which means the device has connected to the server.



3. Connect the website: <http://netdvr.net> with your PC's browser, and download the CMSV6 platform to install it in your PC(according to your PC's OS to select a proper one). You also can find the platform software in the CD ROM.(Find ios version from apple store )

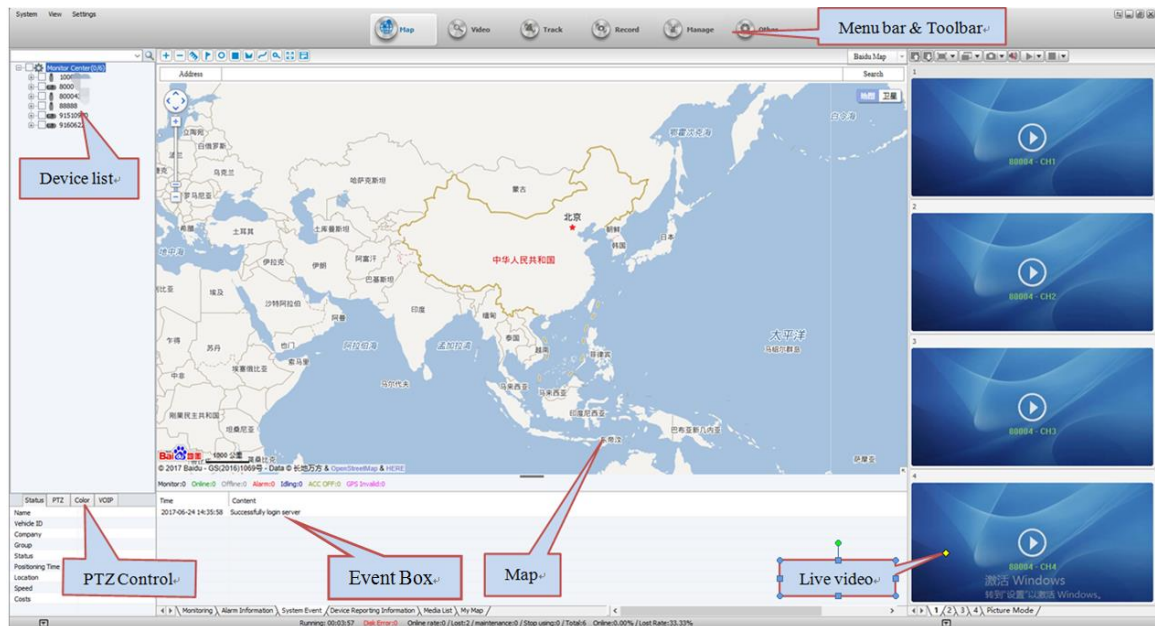




4. Double click the CMSV6 icon , and then you can see the login interface, enter the given user name, password and server IP before click "Login" button.

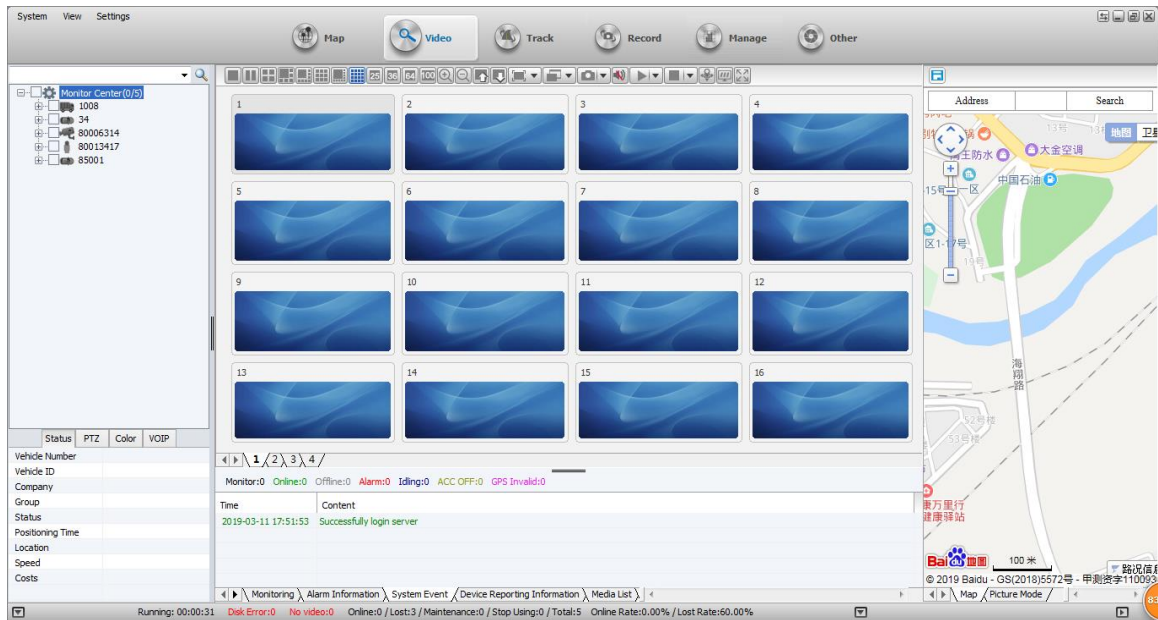
## 5. The operation of CMSV6 platform

### 5.1 The Map



- a. The status of the device can be observed in the device list. Where the icon turns green that indicating the device is online and connected to the GPS to get the location information; the pink icon indicates that the device is online but device fails to get the GPS signal; the gray icon indicates that the device is offline.
- b. Status in PTZ control shows the current basic information of the device; PTZ: PTZ operation such as rotation angle, focus, aperture, light, wipers, etc; Color: Remote control camera mode (from top to bottom: brightness, contrast, color, saturation, exposure); ★VOIP: Including intercom, listening and broadcasting. For intercom that allow you to communicate between the platform and equipmen, for monitor means the background sound of the device can be individually monitored, and the broadcast is a function that allow you to send voice messages to devices. (Due to the device has not built in relevant module, PTZ and color functions are not available)
- c. The map: Show the location information of device.
- d. The event box: Show the action information of the device, such as devices get online/offline etc.
- e. Live video: To preview the video.
- f. Menu bar & Toolbar: menu bar includes System, View, Setting; Toolbar includes Map/ Video/ Track/ Record/ Manage/ Other.


### 5.2 Video



- a. Start to preview the video: double click the device icon in the list to preview the video.
- b. The amount of screen for one page to preview, you can choose a proper one to preview video, see the icons:
- c. Zoom in and zoom out : You can zoom in or zoom out the video though clicking the two buttons.
- d. Group switching button : You can switch the current group to preview previous or next group.
- e. Aspect ratio button : To set the three different video preview resolutions: full window, 4: 3, 16: 9.
- f. Display mode button : Including Real Good and Fluent Good two options, Real Good means that the live video's real-time is the first priority; Fluent Good means that the live video's fluency is the first priority.
- g. Capture image button : With Capture Image and Front-end capture.  
Capture Image: Capture the image basing on the video screen  
Front-end capture: Capture the image basing on the device's camera
- h. Sound button : To turn on or turn off the sound.
- i. Start video button : Including Start video, Open all video and Display polling window.  
Start video: Start the current default video  
Open all video: Start all windows' video  
Display polling window: To set the corresponding time to play the video in turn.
- j. Stop video button : Including Stop video, Close all video, Clear data, Clear all data.  
Stop video: To stop current default video  
Close all video: To stop whole windows' video

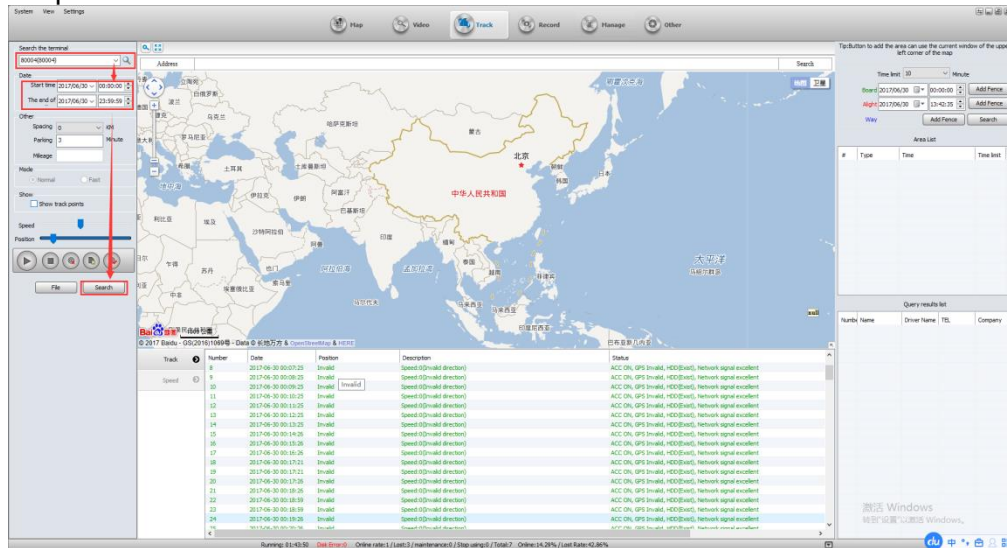
Clear data: To clear the memory channel information for the current focus window

Clear all data: To clear the memory channel information for the whole current window







k. Full-screen button : To show the video with full-screen.

### 5.3 Track

User can perform track search according to the specified conditions and export the relevant data. First, select the device, then select the start and end time, click Search. See the picture below:



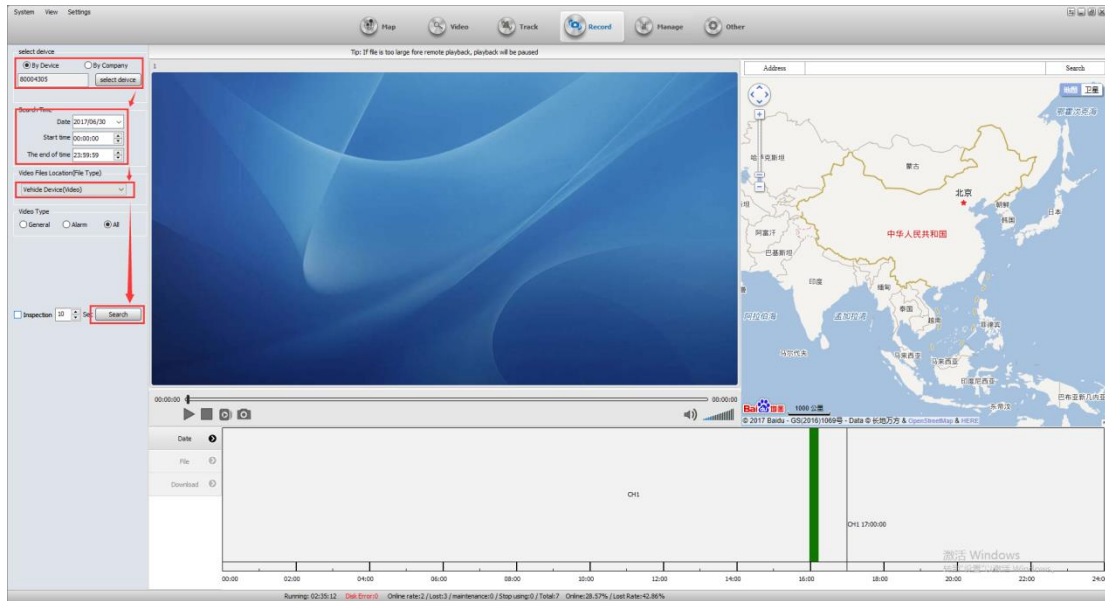
Button's icon and function

icon	function
	Start or pause playing the track
	Stop playing the track
	Delete the current GPS data
	Export the current GPS data to Excel
	Add the current track to the line
	List of searching history

### 5.4 Record

The user can download and play the video file in the device storage, see steps below:

- Select the device and pick the search time, then select the vehicle device (video), click Search. (If you want to download photo in the device storage, you can choose "vehicle device (picture)")



- b. After that, click the file options to see the files that the device recorded during that time period.

Date	Time	Type	Vehicle Device	Channel	Location	Size(MB)	File
	2017-06-30 15:59:39 - 16:05:03	General	80004305	CH1	Vehicle Device	60.802MB	/tmp/sd/Record/Video/20170630_15/000430
	2017-06-30 16:05:03 - 16:08:18	General	80004305	CH1	Vehicle Device	39.026MB	/tmp/sd/Record/Video/20170630_16/000430
	2017-06-30 16:08:21 - 16:08:37	General	80004305	CH1	Vehicle Device	7.802MB	/tmp/sd/Record/Video/20170630_16/000430
	2017-06-30 16:08:52 - 16:13:52	General	80004305	CH1	Vehicle Device	55.487MB	/tmp/sd/Record/Video/20170630_16/000430

- c. Right click the mouse to select the file to download (press Ctrl to select multiple files), click on the "download", when the files were downloaded, you can see the directory of the downloaded files in the download options, see the picture below.

Date	Time	Type	Vehicle Device	Channel	Location	Size(MB)	File
	2017-06-30 15:59:39 - 16:05:03	General	80004305	CH1	Vehicle Device	60.802MB	/tmp/sd/Record/Video/20170630_15/0004305_000000_20170630
	2017-06-30 16:05:03 - 16:08:18	General	80004305	CH1	Vehicle Device	39.026MB	/tmp/sd/Record/Video/20170630_16/0004305_000000_20170630
	2017-06-30 16:08:21 - 16:08:37	General	80004305	CH1	Vehicle Device	7.802MB	/tmp/sd/Record/Video/20170630_16/0004305_000000_20170630
	2017-06-30 16:08:52 - 16:13:52	General	80004305	CH1	Vehicle Device	55.487MB	/tmp/sd/Record/Video/20170630_16/0004305_000000_20170630

Date	Status	Time	Vehicle Device	Channel	Download Progi	Speed	Size(MB)	Location	File
	Download	2017-06-30 16:08:21 - 16:08:37	80004305	CH1			7.802MB	Vehicle Device	D:\GPS_DOWNLOAD\DOWNLOAD_FILE\80004305(80004305)\2017-06-30\0004305

**Note: packing video is not available for downloading.**

- d. Open the downloaded folder, play the downloaded videos with special player (such as hplayer) offered by supplier. (The platform's player does not support to play the recorded video in device's memory online or offline).
- e. If the download is stopped or the download fails due to network reasons, the video file also can be played (just for finished part). In the case that the user does not exit the software, you can continue to download the video by clicking "Continue downloading" in the right-click menu of the download list.

## Specification

OS	OS	Linux 3.10.73
	Booting time	< 10 s
	Language	English
Video	Video input	1x digital Camera for 1080p/720p/360p recording , available for external camera
	Video output	2 inch LCD screen
	Recording resolution	1920x1080/1280x720/640x360
	Frame rate	<a href="#">30 fps@1080p</a>
	Record mode	Record audio and video at the same time
	Compression	H.264 (High profile up to level 4.1)
Audio	Audio input	1x MIC input, support intercom connection with USB
	Compression	PCM
	Audio record	Support audio recording
Video process	Live video resolution	1920x1080/1280x720/640x360
	Photograph	1920x1080 ~ 8640x4752
	Snap	Support snapping during recording ( the photo resolution base in recording )
	Storage	Built in 32GB TF card(available for 32 ~ 128GB)
Light source	Flash light	To increase brightness when you are recording or taking a photo
	Laser	Fix the view when you record
	IR	Up to 10 Meters with Visible shape image at night
Two way radio	Talk back	Support two way radio between different devices(only for 4G/3G device)
	Talk back in platform	Support two way radio between device and platform(only for 4G/3G device)
Lens	Lens's angle	>120°
Alarm	Alarm input	Support alarm input and the alarm can be show in platform
Interface	USB	1x USB, for charging, communication with PC, upgrade OS, connect external camera etc
Network	Protocol	TCP/IP
	3G/4G	Optional, built in 3G/4G module(HSUPA/HSDPA/WCDMA/EVDO/TD-SCDMA/FDD-LTE/TDD-LTE)
	wifi	Optional, support WIFI connection and AP
GPS	GPS	Optional module for BDS/GPS/GLONASS, to record location and speed
Firmware	OSD	Display and record time, license ID, officer ID, location, speed
	Overwrite	Support
	Play bakc	Support play back, file listed by time and alarm
	Play speed	Support from 1/128 to 128
	Pre-recording/post-recording	Maximum 10s pre-recording and 20s post-recording
	Dewarp	Support dewarp to make the picture more accurate and realistic
	Safe mode	Need password to enter Setting or Playback in safe mode
	Record encryption	Support Record encryption, encrypted video can be played in special player
	Log	Record power on/off, setting change, start record, alarm etc
Software	hplayer	Player software, play multiple cameras together, can also play the encrypted file
	CMSV6	Used for 4G/3G model only, support live view/live tracking/historical track
Upgrade	Firmware maintain	Firmware can be upgrade though USB
Working	Temperature	-40--60℃

condition	Humidity	40%~80%
Other	Time	synchronize with GPS, internet, PC
	Dual bit stream	Two different bit stream for recording and live streaming via 4G/3G
	Default	Can set to default setting
	Indicator	Power、Record、Snap、Audio record
	Battery capacity	3600mAh non-replaceable battery, keep NON-4G device recording for about 10h, keep 4G device recording for about 8h: Charging time is about 4h
	Size	83.2*54.8*29.8mm
	Wight	About 145g

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**NOTE:** This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Statement:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### FCC Radiation Exposure Statement

The device complies with RF specifications when the device used at 00 mm from your body-worn. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided.

The maximum of body-worn results of SAR found during testing is 0.965W/kg(separation distance -0mm)

#### Packing List

No.	Item	Number
1	Body Camera & Clamp	1 unit
2	Battery	1 units
3	Charging stand	1 unit
4	USB cable	1 set
5	Adapter	1 set
7	Manual	1 set