

2K Quad HD Body Worn Camera

RVS-BC87810



Instruction Manual



Warnings

1. Built-in Battery , please do not punch the battery or throw the product into fire.
2. Do not replace the battery by user themselves.
3. Do not disassemble, repair or make any modifications to the product by users themselves.
4. Please store this product safely and correctly, use this product under specified environment temperature.
5. Only use the original charger to charge.
6. Please comply with local regulations and do not dispose this product as household garbage.



Thanks for choosing our product!

Multiple functions in this body worn camera suits for different workers in various industrial field. For professional law enforcement, it brings policeman justice; For consumers in other fields, it can be used as an utility life recorder, meeting recorder or car DVR, etc.

We hope you enjoy all the benefits of features!

Product Overview

Body Worn Camera often utilized by law enforcement to record their interactions with public or gather video evidence at crime scenes.

Nowadays it's also widely used in military, public service, citizen surveillance and personal life recording.

This body camera is designed with H.265 encoding format, 2K resolution, and G-sensor function. When worn on the front of clothing, an ultra-wide 140° field-of-view lens captures what happened in the field as accurate information for further analysis.

Featuring a 64GB/128GB(option) internal memory, pre-record buffering, importance tagging, and integrated Infrared LEDS for night vision, which is equipped to perform in any conditions.

PC security protocols of the device are secured to prevent accidental deletion of evidence or modification of system settings. Video footage is also digitally watermarked with the user ID, time and date, ensuring the authenticity of collected video of the event. The internal GPS receiver provides real-time location tagging of video, offering irrefutable substantiation of where and when the audio and video were recorded.

Box contents

- ▶ Body worn camera
- ▶ Charging dock
- ▶ USB cable
- ▶ Charger
- ▶ 360 Degree rotatable clip
- ▶ User manual











Rear View Safety, 1797 Atlantic Ave., Brooklyn NY 11233
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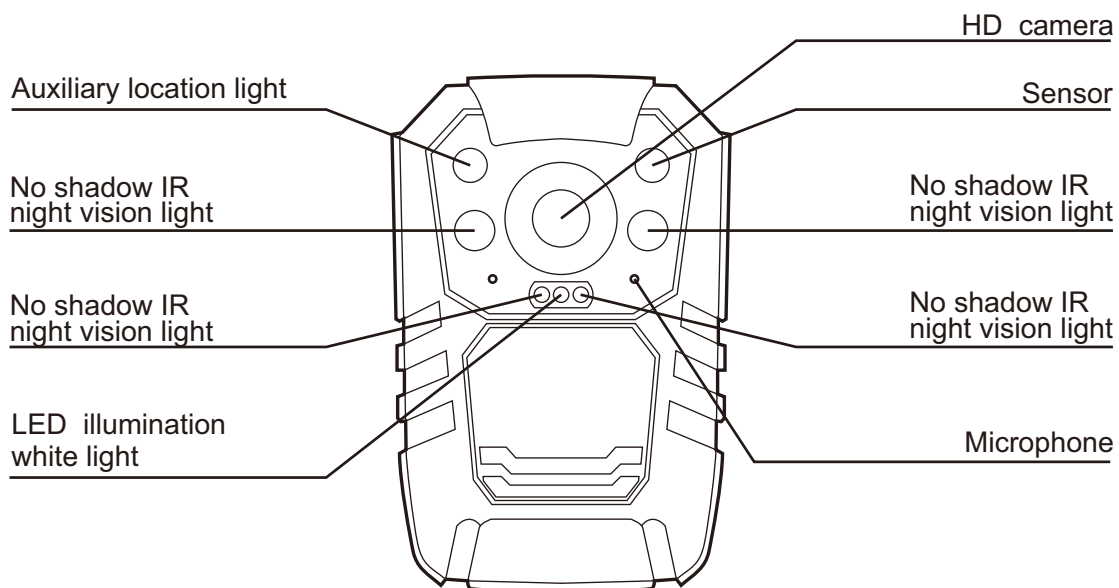
Product Features

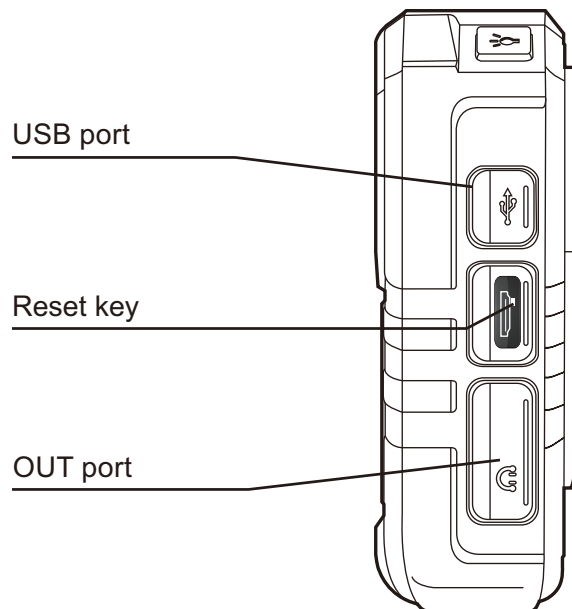
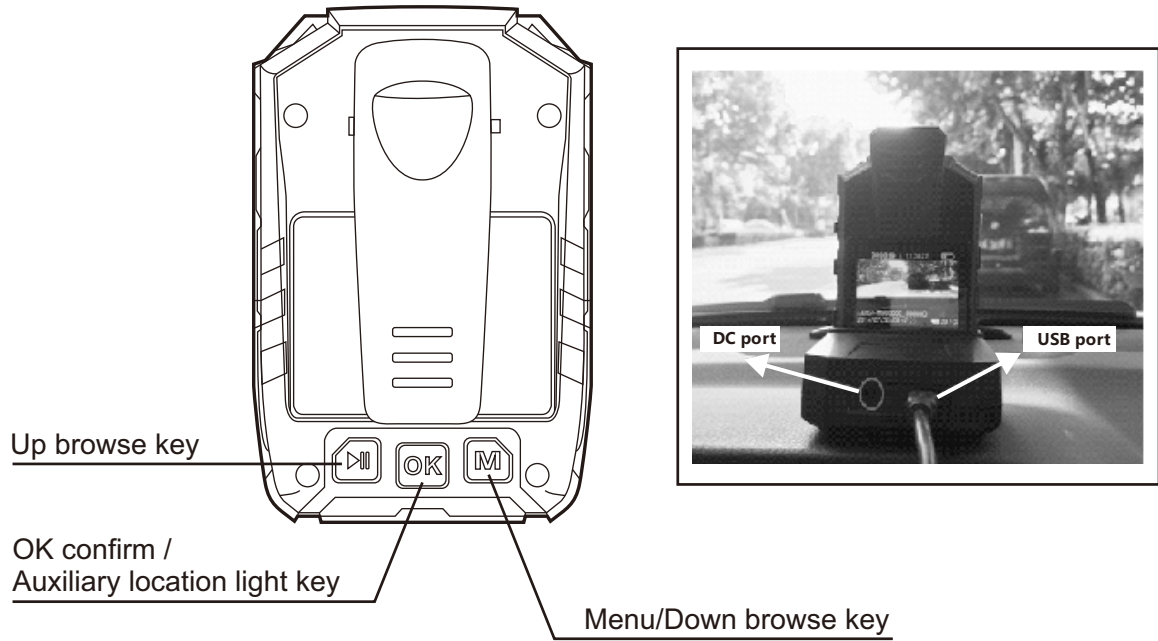
Item	Parameter	Item	Parameter
Dimension	96 mm *62 mm *31mm	Night Vision	Up to 10 Meters with Visible Face Detection
Weight	165g	G-Sensor	Support
Sensor	5MP CMOS	Motion Detection	Support
Chipset	Ambarella H22	Recording Angle	Wide Angle 140 degrees
LCD Screen	2 inch TFT-LCD High-Resolution Color Display	IR Light	2 IR Light
Video Resolution	Maximum 2560x1440 30p	Flashing light	Yes
Video Format	H.265 / H.264	Battery Type	Built-in 3500mAH Lithium
Fast forward	2X, 4X, 8X, 16X, 32X, 64X	Charging Time	240 mins
REW	2X, 4X, 8X, 16X, 32X, 64X	Recording Time	14 hours (battery full charged, GPS off, IR off, and resolution ratio 720p)
Zoom	Up to x128	Unique ID number/unit	Include 7 digit device ID and 6 digit police ID
One-click Recording	Support recording directly when camera is off	Post-record & Post Record	Support
Audio Format	AAC2./MP3	Password Protect	Optional
Water Mark	User ID, Time and date Stamp Embedded into Video	Waterproof	IP66
Photo Pixel	Maximun 40M with optional burst shot	Working Temperature	-20 to 70 degrees Celsius
Burst Shoot	1/3/5/20 Shot burst picture taking	Storage temperature	-40 to 80 degrees Celsius

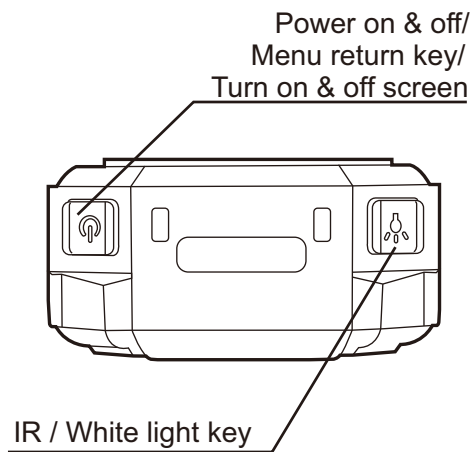
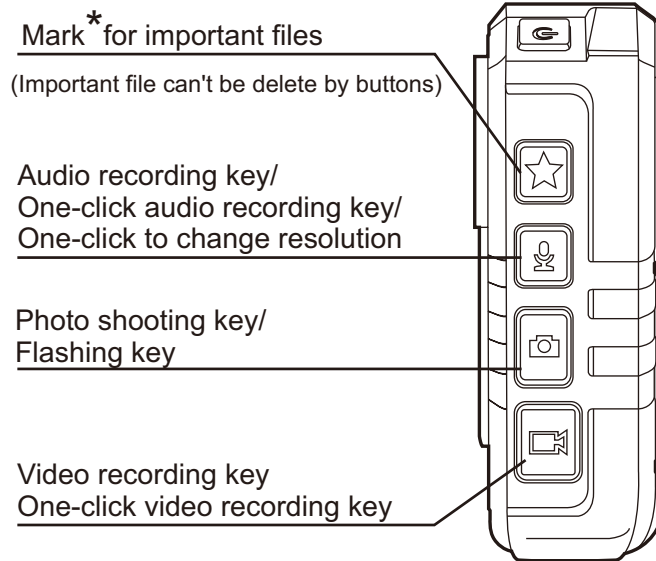
Quick Operation

- Long press  to power on/off , short press it to turn screen on/off.
- Short press  to start voice recording, and short press again to stop recording.
- Short press  to take a photo.
- Short press  to start video recording, and short press again to stop recording.
- Short press  to turn on infrared light, and short press again to turn it off.
- Short press  to playback the last photo, video or audio files.
- Short press  to set the function and parameter.
- Press  to return the last screen when camera in menu setting or playback mode.

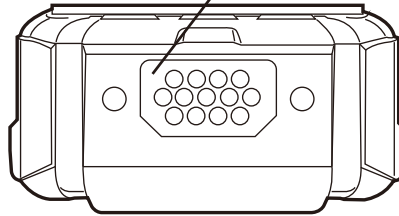
Appearance and Key Description







Multifunction charging base port




Display Screen Description





Basic Operation Description


● Boot

Press  for 2 seconds, the camera will beep on with a green LED, and the camera turn to standby mode with the screen lighted on.

● Audio Recording

Short press , the camera will shake, then the LED flash to yellow and the camera start audio recording. Press  again when you want to end the audio recording, and the camera shakes again, with the yellow LED light off and the recording stored automatically.

One-click Audio Recording

- When the camera is off, long press key  for 4 seconds to start audio recording directly.

One-click to Change Video Resolution






- When the camera is in standby mode, long press key  for 4 seconds, the resolution can be changed between 1280*720 30pfs and 840*480 30pfs.

Photo Taking

- Short press key  to take photo when the camera is in standby mode.
Long press key  for 4 seconds to turn on the LED flashlight, and the light will flash under specific frequency.


Video Recording

- In standby mode, short press , the camera body shakes and starts recording with a red light flashes on the top. Press  again to stop recording, camera body shakes again and red light off, footage saved automatically.

Delete Video/Audio/Photo in Camera



- 1) In standby mode, short press “OK” button to select file types, then choose a file that you want to delete, and then long press “M” button to get two options “Delete this file” or “Delete all files”, press “OK” button to confirm deletion.
 - 2) User also can clear the memory by selecting “format” in menu.
- Note: If user set “password: on” in menu, files can only be delete through computer.

One-click Video Recording

When the camera is off, long press  for 4 seconds to start video recording directly.


●

Zoom In/Out


Long press  to  zoom in/out when camera is standby. (Note: When the resolution at 2304*1296 or 1920*1080, zoom in/out function is not available.)

●



Laser Pointer

Long press  for 4 seconds to open laser point light. Do it again to turn it off.

● Snapshot Under Video Recording

Short press key  to take a photo in video recording mode.


● Switch Between IR Red Light and LED White Light

Short press  to turn on IR red light. Press it again to shut down in video recording or standby mode. The IR red light can help to record video in the night or dark environment. Long press  to turn on LED white light. Long press for 4 seconds again to turn the LED off.



One-click Playback

Under standby mode, short press  to playback the last photo, audio or video.

- **Boot**

Press  for 2 seconds, the camera will beep on with a green LED, and the camera turn to standby mode with the screen lighted on.


Audio Recording

- Short press , the camera will shake, then the LED flash to yellow and the camera start audio recording. Press  again when you want to end the audio recording, and the camera shakes again, with the yellow LED light off and the recording stored automatically.

- **One-click Audio Recording**

When the camera is off, long press key  for 4 seconds to start audio recording directly.

One-click to Change Video Resolution

When the camera is in standby mode, long press key  for 4 seconds, the resolution can be changed between 1280*720 30pfs and 840*480 30pfs.

Setting	Description	Options
Video Resolution	The image resolution for video	2560×1440 30P, 2304×1296 30P, 1920×1080 30P, 1280×720 30P, 848×480 30P
Photo Resolution	The image resolution for photos	40M, 36M, 21M, 16M, 14M, 8M, 4M,

Quality	The quality of the image for video and photo files.	Fine, Normal
Video Encode	FormatVideo encoding format, higher encoding format save more memory space.	H.264, H.265
Pre-record	When on, any video you record will include some of the time that elapsed before you press the Record button (stored in the camera buffer); When off, any video you record will include only video and audio from the point after you press the Record button.	Off, On
Delay Record	The amount of the time the camera waits to stop recording video after you press the Record button.	Off, 30 sec, 1 minute, 1 minutes, 10 minutes, 30 minutes
Delay Photo	Photo countdown	Off, 5 sec, 10 sec, 20 sec, 30 sec, 1 minute,
Time Photo	When on, the camera will automatically taking a picture at regular intervals. (Press photo button to start it, press any button to stop it.)	Off, 10 sec, 30 sec, 1 minute
Loop Recording	When on, camera will overwrite the oldest video file with the most current video file once its memory is full.	Off, On
Motion Detect	When on, camera will start recording when front movement is detected by the lens.	Off, On
Burst Shot	The number of images captured when you take a photo.	Off, 2, 3, 5, 10, 15, 20

GPS	When GPS is on, position of video will be recorded and can be reviewed by GPS player. (GPS satellite signal only works in outside)	Off, On
Time Zone	Adopt local time in real time zone	-12 to +12
LED Light	When on, indicator LED will tell the status of the camera; When off, camera is entering covert mode	On ,Off
Language	The language of the text in camera interface	English, Русский, Jezyk Polski, Español, Français, Język:etina, українська
Infrared LED	When set to manual, you will need to hold Snapshot button to turn IR LEDs on/off. When set to Auto, these lights will activate automatically based on the light sensor's reading.	Manual, Auto
Recording Warning	When on, you will hear a voice confirmation when you start recording. When off, voice confirmation is disabled.	Off, On
Police Warning	When on, the camera will announces the police ID when start recording.	Off, On
Key Beep	When on, camera will play a tone each time you press a button. When off, tone is disabled.	On ,Off
Video Split Time	While recording video, the camera will automatically split its recording into files of this length.	5 min, 10 min, 15 min, 30 min
Brightness	The brightness of screen backlight	Low, Middle, High
Screen Saver	The amount of the time the camera can be idle before deactivating the display to conserve power.	Off, 15 sec, 1 min, 3 min, 5 min

Auto Power off	The amount of the time the camera can be idle before powering off.	Off, 1 min, 3 min, 5 min, 10 min
Volume	The volume of camera speaker. This affects the loudness of video playback, audio playback, the key tone, record warning, and any other sounds played by camera. This doesn't affect the volume of the recorded video or audio files themselves.	0-12
G-Sensor	When vigorous activity occurs, the camera will start recording automatically.	On, Off
Type	Different type with different file name format	4 Types for selection
Secret Mode	In secret mode, the camera will record without any warning tone or indicator lights.	On, Off
Mute Audio	"When it is OFF, the camera will record normal video with audio. When it is ON, the camera will record video without audio."	On, Off
Password	"Default setting is off. User can browse menu or accessing camera data without password. With "Password: ON", accessing to camera memory or menu will be limited. (Default PW is 000000, 6 times OK button) Tips: Password has to be "on" before using the management software."	On, Off
Format	When password set to be off, the camera memory can be clean up directly by click format.	Format memory card
ID setting	User can set Device SN and Person SN	Alphanumeric characters
Time Setup	Adjust time to real location	yyyy/mm/dd __:__
Default setting	Use this to return camera to its original settings. This does not erase the memory.	O (Yes), X (No)
Version Information	The hardware and firmware version of this device	Information

USB MODE--Access File Data

To cater for a variety of uses, This body worn camera can be set to password protection mode, or password-free mode in menu. (Password: ON, OFF)

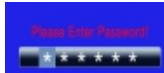
In both modes, videos can be managed without driver software. Driver software is needed only if user's computer doesn't recognize the camera or when user want to change password.

1.Connect camera with PC by original USB cable, then camera will power on automatically.

2.If password set to be OFF: the camera screen will show a PC image, user can access to camera's data directly.



If password set to be ON: once the password input interface showed up on screen, press six times "OK" button (which stands for the password 000000) to access the camera's data.



3.Find the removable disk or generic USB drive in your computer, then you can copy or delete the footage.

Method 2

Please refer to page 19-24, "enter to U-disk mode".

Note: this method is only for the camera with Password ON.

Indicator Light

Standby Indicator Light (GREEN)

The light turns to green when the camera is powered on.

Charge Indicator Light (RED)

The light turns red during charging, and turn green when it is full.

Video Recording Indicator Light (RED)

The light turns red and flashing under video recording.

Audio Indicator Light (YELLOW)

The light turns yellow and flashing under audio recording.

Key Function Description

- Reset Key  

Reset it when the camera freezes by some errors.

- Combination Key 

One key play key

In standby mode, press this key to playback the last audio or video file.

Page up key

Go to menu, press this key can select object to up and left.

Focus adjustment function


Long press this key can adjust 8X focus change under standby or video recording mode. Press this key can fast reverse by 2X, 4X, 8X, 16X, 32X, 64X , 128X under video recording.(Note: Focus cannot be adjusted under HD 2304*1296 resolution)

- Combination Key 

OK confirm key

Press this key into video, photo, audio file browse mode and confirm it.

Laser pointer key

Long press  to open Laser Point light for the best positioning, and do it again to turn it off.

- Combination Key 




Walkie-talkie

After connect with the walkie-talkie, press this key start to talk.

Mark * for important files

Short press this key, then a * symbol for important file can be marked on the top left corner of the screen.

Video classification key

Traffic control, criminal investigation and public security can be selected when long press this key for 4 seconds. Short press  or  to select the mode, and short press  to confirm.

●Combination Key

Audio recording key

Press this key to start audio recording, press it again to stop it.

One key audio recording key

When the camera is under turn off status, 4 seconds long press this key to start audio recording, press it again to stop it.

Video resolution change key

When the camera is under standby mode, long press this key for 4 seconds, the video resolution can be changed to 480 or 720.

●Combination Key

Photograph key

Short press this key to take photo.

LED flash light key

Long press to turn on LED flash light function.


●Combination Key

Video recording key

When the camera is in standby mode, press this key to start video recording, and external camera. Picture and voice from external camera will show on the screen.

press it again to stop it.

One key video recording key

Under turn off status, long press  for 4 seconds to start video recording, and press it again to stop it.

- Combination Key 

Menu key

Press this key into system setting interface.

Page down key

Also press this key to select file from up and left when browse the files.

Zoom lens key

This key also has focus adjust function. Long press this key can adjust 8X focus change under standby or video recording status. Press this can fast reverse by 2X, 4X, 8X, 16X, 32X, 64X , 128X under video recording.

- Combination Key 

No shadow IR night vision light key

Short press it to open no shadow IR night vision light and help to calibrate the video object. Short Press it again to turn it off.

LED illumination light

Long press this key for 4 seconds to open LED illumination function, Long press it again to turn it off.

- USB Port 

Using cable connect this port with computer to get the file and charge the camera.

- AV IN Port 

Connect to external camera. Picture and voice from external camera will show on the screen.

- **Power ON & OFF / Turn ON & OFF Screen Key/Return Key** 

Long press this key to turn on/off camera. In home page, short press it to lock the screen, short press it again to unlock. In sub-page, short press it to return previous page.


- **Abnormal Alarm**

Two kinds of abnormal alarms

When the battery is weak, Battery life flashes on the screen , at the same time the camera body shake and alarm with alert when the battery is full, the screen will alert storage full, the camera body shake with Alert tone alarm.

- **Power Saving Mode**

When no operation after 1 min, 3 min, 5 min (optional in menu), the LCD screen will close automatically to save power. Press any key to reopen the LCD.

Short press key  at a time to turn off LCD, short press any key LCD will reopen, and camera return to normal.

Device added with MCU function, it can switch to deep standby mode when not any operation in 15mins, you can press any button to switch on the screen.

- **Charging:**

Please use the original USB cable and charger for charging. When the power supply is connected, the charging LED turns to RED, please turn off the camera to ensure a normal charging speed, charging LED will turn to GREEN when battery is full. In general, it takes about 4 hours for fully charge, affected by the charging environment, the charging time may fluctuate slightly, which is normal.

- **Battery Life:**

Battery life vary from different settings and environments. In our test, the camera last 10-11 hours in following setting: 28 degrees Celsius indoors, 720P resolution, GPS off, IR off ; and last about 8-9 hours in 28 degrees Celsius indoors, 1296P resolution, GPS off, IR off.



Charging Ways

- ✓ Use charger to connect with 220V power supply.
- ✓ Use USB to connect with PC system.

Both ways support connecting via charging dock or via camera USB port directly.

- **Attention**

① Two ways of charging. First one, charging in power off mode with 1A charging electricity, 4 hours to get full. Second one, charging in standby mode with 300mA charging electricity, 10hours to get full. (This way is to protect the circuit board and battery life)

② If the camera will be out of use for a long time, please charge it full at first .

③ Please don't disassemble or repair the camera privately or by an unauthorized organization.

④ Please use a pin to press the reset key  to reboot the camera when running hang or abnormal.

⑤ If the camera prompts "Excess fragments! Please format memory on PC" or "card fragment fail", please connect it to computer and delete all data from camera.

Camera Management System

IMPORTANT NOTICE: Driver and Management System may not be needed for some users, because the data in camera can be managed directly at USB MODE, and camera menu already included all settings on software. They're needed only if user's computer doesn't recognize the camera or when user want to change password.

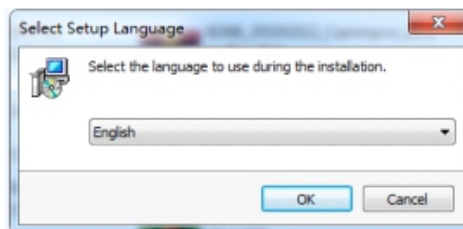
- 1.PLEASE NOTE THAT THIS SOFTWARE IS FOR WINDOWS OS ONLY.**
- 2.BEFORE LOGIN SOFTWARE, PLEASE TURN "PASSWORD:ON" IN CAMERA MENU.**

Installation

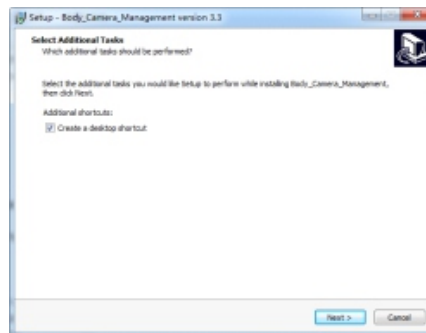
Please download software from CD

Before installing the software, you'd better close the firewall first. Double click the software to install, then always go next step until finish them all.

1. Choose the language.



2. Click 'Next'.



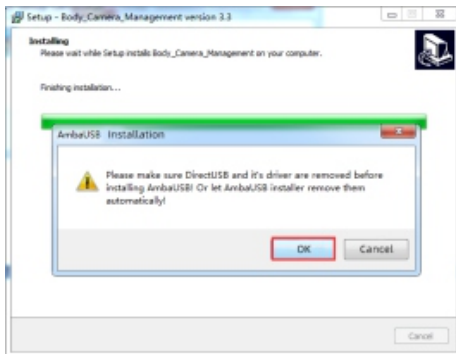
3. Click 'Install'.

Installation

Please download software from CD

Before installing the software, you'd better close the firewall first. Double click the software to install, then always go next step until finish them all.

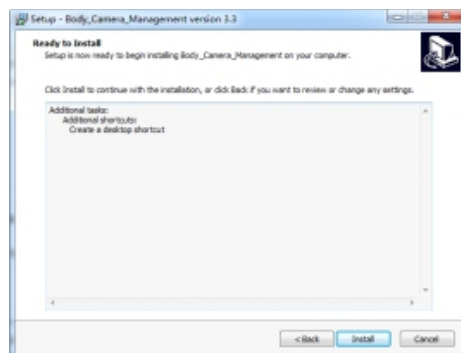
1. Choose the language.



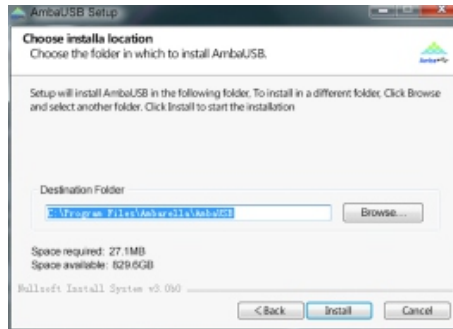
2. Click 'Next'.



3. Click 'Install'.



7. Click 'Install'



8. After installation, desktop shortcuts will be shown as below:

'Ambarella USB' is the driver, you don't need to open it.

'Body_Camera_Managemnt' is the management software.



Notes: If the PC with firewall and trying to forbid the installation, please choose 'allow this operation' or 'always allow install this driver software' .

Login the Management Software

Connect camera with computer by original USB cable, camera will turn on automatically and shows password entering interface, remember DO NOT enter password on camera. (Before login the software, please make sure camera's password is on)

There are Administrator and User roles for login. User can read the camera information, calibrate time and enter to camera disk. Administrator has the highest authority to manage the cameras and revise password.

Login steps: Enter password on software – click 'connect device' – click 'login'

Default password: 000000

Settings

Time setting

Click 'calibration time', camera time will be synced with computer.

Parameter setting

Click 'read', you can check the camera's current resolution and the remaining battery capacity.

ID setting

Click 'read', you can check the current camera ID, police ID, department, user name and department name, if need to revise those information, type them directly to the corresponding columns, then click 'setting'.(Camera ID must be 7 digits, user ID must be 6 digits)

Password Setting

User can revise common user login password only; Admin can revise all passwords;

Please do remember to click “Setting” after any revise to save all changes.

Enter to U-disk mode

Click 'enter to U-disk', the connection of management software with camera will be cut off, then camera will enter U-disk , data transfer or deletion will be allowed in this mode.

Page up/Exit

Click 'page up', system will back to login interface.

Click 'exit', it will cut off connection and exit system directly.

Stand-Alone Body Worn Camera Management System

Body Worn Camera Management System

User Type: Administrator

Password:

Stand-Alone Body Worn Camera Management System

Body Worn Camera Management System

Time setting
 2019-06-03 16:50:26 --Calibrate Time successful Calibration Time

Parameter setting
 Current video resolution: 1280*720 Current Battery life: 63% Read

ID setting

Camera ID	<input type="text" value="0000000"/>	User ID	<input type="text" value="000000"/>	Read
Department ID	<input type="text" value="000000"/>	User name	<input type="text"/>	Setting
Department name	<input type="text"/>			

4G Setting

WiFi mode	AP	4G APN	<input type="text" value="fail"/>	Read
WiFi SSID	<input type="text" value="fail"/>	4G PIN	<input type="text" value="fail"/>	Setting
WiFi password	<input type="text" value="fail"/>	Server port	<input type="text" value="fail"/>	
Server IP address	<input type="text" value="fail"/>	(keep empty if no needed to set)		

Password Setting

Administrator password	<input type="password"/>	Reenter password	<input type="password"/>	Setting
User password	<input type="password"/>	Reenter password	<input type="password"/>	Setting

Troubleshooting

1. Q: The image is freezing or abnormal, button doesn't work.

A: Use a pin or pen to press reset button (under the HDMI rubber port) to have camera resetting when camera works abnormally. Note: DO NOT PRESS this button except maloperation.

2. Q: How does the "Auto IR" work?

A: When IR set to be Auto, the infrared light will automatically turn on only when it is recording in dark environment.

If the camera is not in video recording, infrared light won't be turned on automatically no matter how dark the environment is.

3. Q: How to delete files without using PC?

A: 1)In standby mode, press "OK" button to select file types, then choose a file that you want to delete, and then long press "M" button to get two options "Delete this file" or "Delete all files", press "OK" button to confirm deletion.

2)User also can clear the memory by selecting "format" in menu.

Note: If user set "password: on" in menu, files can only be delete through computer.

4. Q: How to organize and delete video on PC?

A: Connect camera with PC by original USB cable, the camera will shows a "PC" image after recognized and enter to USB mode. (If the password set to be ON, then user should enter the password after connected with PC)

After that, find the removable USB flash drive in your computer, then you can copy or delete the videos.

5. Q: Can I set password for the camera?

A: Yes, the camera default without password. If needed, please turn password on in menu, default password is 000000 (press six times "OK" button)

If you want to change password, please download the software in CD.

6. Q: The software (Cam Assistant) will not run on my computer.

A: Please note that the software is not needed for ordinary users normally.

If you want to use it:

1) Please make sure the driver installed successfully.

2) The software support camera when password set to be on, please make sure you turned password on in menu.

3) When login the software, please input password on software instead of on camera,

7. Q: Successfully changed the password on software and now neither password works, locked out of camera and software, what should I do?

A: If you change the original password and happen to forget the new password you set. Please login the software by password admin0, then set a new password that can be remembered easily.

8. Q: The camera says "Card fragment fail" or "card full".

A: 1. After camera connected with PC, please right click on the removable disc/USB drive and select "format", then continue the formatting step until complete.

2. Please go to camera menu, and select "format", then choose "O" to continue the steps.

9. Q:How does GPS work?

Before recording videos, please turn on GPS in camera menu, thus, the recorded video can be played on GPS player with tracking information. For more information, please refer “Usage of GPS Player”.

Note: GPS is satellite signal, it works only in outside, some place maybe with bad signal, please test in open field with good signal.

GPS video player and “Usage of GPS Player” are in CD.

10. How to synchronize time?

- 1) Set your local time zone in camera menu;
- 2) Turn on GPS outdoors, the camera time will be automatically synchronized once GPS icon turns to green;
- 3) Turn off GPS.

11. How to set the time manually?

Press "M" button to open the menu, then find the date and time option and press the "OK" button to enter the setting, and then adjust numbers by pressing the buttons on the left and right sides of the "OK" button.



A Safe Fleet Brand

Engineered For Vehicle Safety™

If you have questions about this product,
please contact us at:

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