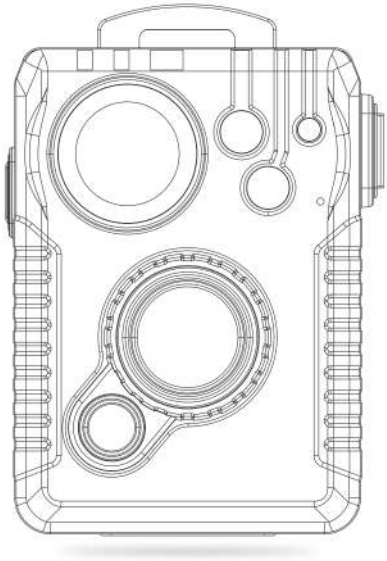
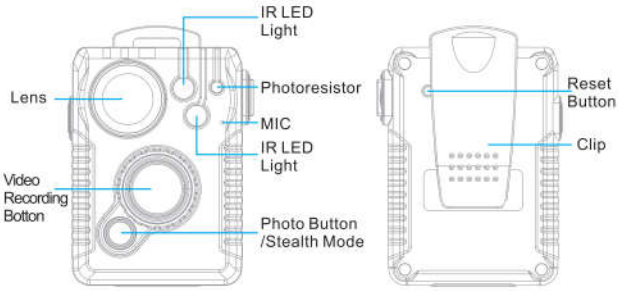
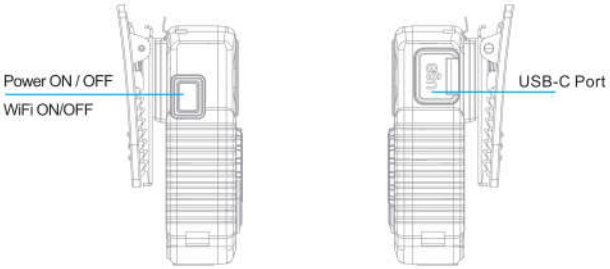
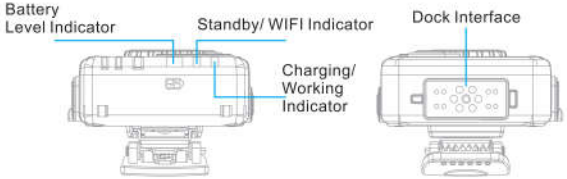


USER MANUAL

Specifications







Specifications

Size/weigth		
Size	81.5mm*58mm*23.7mm (3.21"*2.28"*0.93")	
Weight	140g(0.31lb)	
Indicators		
3 color LED indicator for camera status		
3 color LED indicator for battery level		
programmable buzzer		
vibration		
Durability		
IP Rating : IP67	Shock Proof : 1.8m (5.9ft)	
Video/picture/audio		
Coding : H.264/H.265	View Angle : 140 degrees	
Video Resolution	1440P30 / 1080P30 / 720P30 / 480P30	
Video Streaming Resolution	720P30 / 480P30 / 240P30	
Audio Streaming / Text Streaming	Support	
Streaming Bitrate	300kbs-4M kbs	
Video Format : MP4	Picture Format : JPEG	Audio Format : AAC
Snap Shot : During recording	EIS : 6 axis image stabilizer	
Wireless Connections		
Wi-Fi	2.4G&5G, AP/STA/P2P,Wi-Fi channel can be set by cam manager	
Bluetooth	Remote controller,support second development	
IR : 10 meters	GPS : Support	
Security Features(Optional)		
File Encryption	AES256 encryption during writing files to memory card	
	AES256 encryption RTSP Video/audio/Text streaming data	
Network Security	Https&Http Web Server,ONVIF	
Wi-Fi Security	Dynamic Pin Code authentification	

Specifications

Battery	
Recording Time	1080P Up to 12 Hours;480P Up to 15 Hours
	GPS and WiFi on at 480P30 12 hours and 30 minutes
Standy Time : 100+ hours	Charging Time : 4 hours
Pre&post recording	
Pre-recording / Post-recording	30 seconds to 1 minute varies from resolution settings
Motion Detect	support
USB Command&JSON command	
all camera settings available under mass storage mode	
USB heart beat available	
control over LED/buzzer available under mass storage mode	
Ambarella driver free even while USB encryption activated	
Support driver free connection to computer	
Hardware Interface	
Pogo Pin connection	Support dock & go operation
Mount solution	
Standard mount	360 degrees rotatable crocodile mount
Optional mount	MOLLE compatilbe mount
Optional accessoires	CLICKFAST Stud
Others	
Night Vision	Ultral low light performance & IR LED
Storage	16GB,32GB,64GB,128GB
Video Stamp	
Content supported	User ID/Device ID/Date/Time/Geo-tags/Customize Strings

Charging

Please charge camera via USB cable and wall charger provided. The battery is Polymer Lithium type. When camera is fully charged, blue charging indicator will turn off.

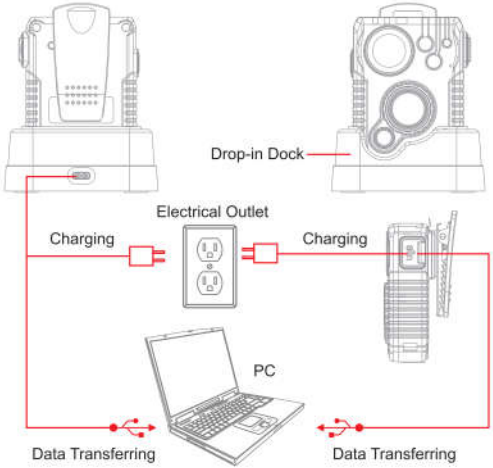
There are 2 ways of charging:

1. Connect camera to computer via USB cable

Since the current of different computer's USB port varies from each other, it is normal if there are circumstances that camera can not be fully charged.

2. Charging by adapter & USB cable

When camera can work normally, while being charged by adapter + USB cable.



Before Use

• Fully charge the camera using the included USB cable or charging dock for 3-4 hours. The charging indicator will turn blue when charging. When the device is fully charged, the blue light will turn off.

• Confirm that the date and time on your device is correct and enter your device ID and badge ID through the camera management software.

Wearing your Body Camera Properly:

On your chest (uniform):

• Attach the camera clip to the front of your uniform.

• Rotate the camera clip 45 and clip it to the top of your uniform.

On your shoulder:

• Using the optional epaulette mount, clip the camera to the bracket on the mount and attach the mount to your uniform

On your waist:

• Clip the camera to your belt. To aim the camera's lens higher, simply wedge or shim a small piece of foam or other material between the camera clip and camera as close to the base of the clip's attachment as possible.

Troubleshooting: If you are having problems with your camera, please first fully charge it and power it on, then press the reset button. Pressing the reset button will force the camera to shutoff. Press the power button to turn the device back on and your device should now be working properly.

Note: Reseting the device will not delete any files.

Getting Started

Buttons & Functions：

1. Power ON/OFF WIFI ON/OFF Button:

Hold 3 seconds to turn on/off camera;

Press once to turn on/off WIFI, when WIFI is set to “Auto” or “Manual”.

2. Video Recording Button

When camera is off, hold 3 seconds to turn on camera & start recording.

When camera is in standby mode (powered on, but not recording), press to start recording.

When camera is recording, hold 3 seconds to stop video recording, video will be saved.

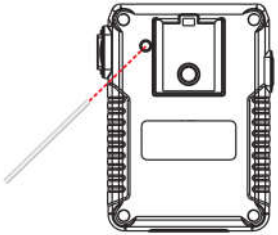
3. Photo /Stealth Mode Button

When camera is in standby mode or recording mode, press to take a photo.

When camera is on, stealth mode set on, hold 3 seconds to enable stealth mode.

4. Reset Button

Use a paper clip or stick to press the reset button to make a reset.



Getting Started

Basic Operation:

1. Press and hold the Power button (located on right side of camera) for about 2 seconds. You will hear a chime and the camera will power on. Standby indicator will turn on and be green. Standby indicator will remain green while the device is in standby mode.

2. The device settings, battery life, storage space, and saved media files can be viewed and edited via the Camera Management Software (starting on page 10) or the smartphone app (starting on page 29). The smartphone app will also allow for previewing the camera view before and during recordings.

3. Press and hold the Power button for about 2 seconds to power off the device. You will hear a sound and the camera will turn off. The green indicator light will also turn off.

Transfer & manage files on your computer:

(compatible with Windows XP, Vista, 7, 8 & 10)

1. Drop the camera into the charging station and connect it to your computer via the included USB cable. Or connect USB-C port of camera to PC via included USB cable.

2. Open the Camera Management Software.

3. Enter your password to sign in (instructions on page 11)

Recording

Video Recording:

a. To record a video, press the Recording button (located on the front of the device). The unit will give five audio chirps and the red indicator LED will turn on, indicating that the camera is now recording.

b. Press and hold Recording button for 3 seconds to stop recording. The unit will give seven audio chirps. Red working indicator will turn off, and the video will be ended and saved. The device will now return to standby mode.

One Touch Recording:

When the unit is powered off, press and hold the record button for 3 seconds until you hear an audio chirp. The device will turn on and automatically start video recording.

Power on Auto-Record:

When the unit switch on the “Power on Auto-Record” by the camera Management Software, the device will automatically start recording video when camera is on.

Photograph Feature:

a. To take photos, press the Photo button (located on the front of the device under the Recording button). The camera will give three audio chirps and take a photo similar to a digital camera.

b. To take pictures while video recording, press the Photo button and the camera will take a picture without interrupting the video recording.

Recording

Low Battery & Low Space Warning

When camera battery level is above 50%, battery indication LED will be green;
Battery level is within 2% to 49%, battery indication LED will be orange;
Battery level is less than 2% , battery indication LED will be red; And camera will beep 2 chirps every 5 seconds.

When camera SD card space is less than 10%, camera will beep 2 chips every 20 seconds.
If camera SD card space is less than 400MB, camera will beep 2 chips every 10 seconds, and green LED blink once every 10 seconds.

Other Functions

Battery level, Storage space, access to SD card and other settings could be checked and set via cam manager software. The recorded files could be viewed via FN cam APP.

Camera Management Software

Installing the Camera Management Software allows for viewing and downloading saved photos and videos, changing device settings, and syncing date and time.

Software Requirements

Windows XP (service pack 3)
Windows 7 , 8 , or 10
Hard drive storage for archiving video (1TB recommended)

Camera Management Software

Installing the Camera Management Software (Cam Manager) allows for viewing and downloading saved photos and videos, changing device settings, and syncing date and time.

Software Requirements:

Windows 7, 8, or 10 operation system
Hard drive storage for archiving video (1TB recommended)

Cam Manager Login:

1. Open the “Cam Manager” software on your computer. Connect camera to computer via USB cable. Your camera will power on and get connected to computer.

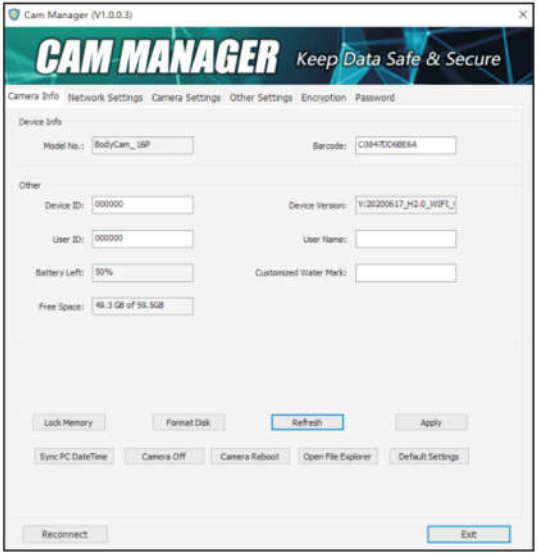
2. There are 2 user types:
1) General User: This mode allows for viewing and downloading media files only. The default password is: 000000.

2) Administrator: This mode allows for changing device settings as well as viewing and downloading media files. The default password is: 888888

Camera Management Software

Camera Info

After login, the Camera Management Software will open on the Camera Info tab.



1. Under “ **Device Info** ”
There are device model Number and bar code;

2. Under “ **Other** ”
There are settings of: Device ID, User ID, Firmware version, Battery Left level, free space and Watermark. Making changes by enter new settings into the white textbox, click “Apply” to save the settings.

3. Click “Refresh” button to refresh the battery status;

4. Click “Sync PC Date Time” to sync the camera’s date & time to the computer’s;

5. Click “Open File Explorer” to get access to camera SD card mass storage. User are able to check, copy or delete files;

6. Click “Format Disk” to Format the Camera's Memory Disk, the files will be DELETED immediately, and the disk's space will be released.

Network Settings

1. Under “Server Config”, user can change Device Name, Protocol, Server URL, Server IP, Server Port, Account and password. Making changes by enter new settings into the white textbox, click “Apply” to save the settings.

2. WIFI
A. Click “Link Mode” drop-down list(under “Universal Setting”)
There are three options to select from: **Off / Auto / Manual**
– – **Off:** WIFI will not turn on automatically once camera power on.
– – **Auto:** WIFI will be turned on automatically once camera is powered on.
– – **Manual:** WIFI needs to be turned on/off manually. (Press power button once to turn ON/OFF WiFi. When WiFi is being turned ON, WiFi indicator will be blinking white. When WiFi is ON, WiFi indicator will be solid white)

B. **Mode: AP/STA/P2P**
– – **AP:** User can check the video streaming using WIFI APP.
– – **STA:** Camera can get connected to WIFI hotspot and make live video streaming through special software.
– – **P2P:** Camera make video streaming and short distance video transfer by using WIFI direct function on smart phone.

C. In AP Setting, user can change WIFI SSID & WIFI Password by inputting new WIFI SSID in the “SSID” textbox and new password in the “Password” textbox, click “Apply” to save the settings.

D. In STA Setting, user can change WIFI SSID & WIFI Password by inputting new WIFI SSID in the “SSID” textbox and new password in the “Password” textbox, click “Apply” to save the settings.

E. In P2P mode, user can check the WIFI Password. To change password, just input new password in the “Pin Code” textbox, click “Apply” to save the settings.

Camera Settings

Click the “Camera Settings” tab in the Camera Management Software.

From here you can change device settings. Select the setting you wish to change, and a drop down will appear with all available options. Select the setting you want. Click “Apply” to update settings with the new chosen options.

Main Resolution (Camera Video Resolution)

Click the “Main Resolution” drop down. There are six settings to choose from: **2560x1440 30P / 1920x 1080 60P / 1920x 1080 30P / 1280x 720 60P / 1280x 720 30P / 848x 480 30P**

Click the setting you prefer and click “Apply” to save.

Image Quality (Video Image Quality)

Click the “Image Quality” drop down. There are three settings to choose from: **High / Medium / Low**

Click the setting you prefer and click “Apply” to save.

Note: Image Quality refers to the quality of videos.

Streaming Resolution

Click the “Streaming Resolution” drop down. There are three settings to choose from: **1280 x 720 / 848 x 480 / 432 x 240**

Click the setting you prefer and click “Apply” to save.

Streaming Bitrate

Click the “Streaming Bitrate” drop down. There are seven settings to choose from: **5000Kbs / 4000Kbs / 3000Kbs / 2000Kbs / 1000Kbs / 500Kbs / 300Kbs**

Click the setting you prefer and click “Apply” to save.

Streaming Frame Rate

Click the “Streaming Frame Rate” drop down. There are six settings to choose from: **5 FPS / 10 FPS / 15 FPS / 20 FPS / 25 FPS / 30 FPS**

Click the setting you prefer and click “Apply” to save.

Mute Recording
Click the "Mute Recording" drop down. There are three settings to choose from: **Off / On / Pre-recorded**
Click the setting you prefer and click "Apply" to save.

Note: Audio won't be recorded when mute recording is on; If Only Pre-record chosen, then only the pre-recorded video will be muted.

Streaming Control
Click the "Streaming Control" drop down, There are six settings to choose from: **OFF / Audio / Video / AV / Text / ALL**

Click the setting you prefer and click "Apply" to save.

Note: AV refers to Audio & Video.

Video Splitter
Click the "Video Splitter" drop down. There are five settings to choose from:
Off: Videos will be in segment of 30 minutes
2 min
5 min
10 min
15 min

Click the setting you prefer and click "Apply" to save.

Note: Video splitter refers to the length of video segments while the device is recording. The minute amount is the length of each video segment before the device begins a new video file. This will NOT stop the device from recording, it will just split your videos into smaller, more manageable files.

Recording Notification
Click the "Recording Notification" drop down. There are six settings to choose from: **Off / 5 sec / 10 sec / 15 sec / 30 sec / 60 sec**

Click the setting you prefer and click "Apply" to save.

Note: Recording Notification will give audio chirps at the specified interval as long as the camera is recording. This will not affect the notifications at the start and end of recordings.

Pre Record
Click the "Pre Record" drop down. There are eight setting to choose from: **Off / 5 sec / 10 sec / 15 sec / 20 sec / 30 sec / 60 sec / 120 sec**

Click the setting you prefer and click "Apply" to save.

Note: When checked with a second amount, the camera will record 5-120 seconds of video prior to Video Recording button being pressed.

Post Record
Click the "Post Record" drop down. There are six settings to choose from: **Off / 5 sec / 10 sec / 20 sec / 30 sec / 60 sec**

Click the setting you prefer and click "Apply" to save.

Note: The camera will record extra set length of video after Video Recording button being pressed.

Web Server
Click the “Web Server” drop down. There are four settings to choose from: **Off / Http / Https / Http & Https**

Click the setting you prefer and click “Apply” to save.

Note: Files recorded can be browsed via web server when WiFi is turned on.

Photo Size
Click the “Photo Size” drop down. There are six settings to choose from: **40M / 30M / 16M / 12M / 8M / 4M**

Click the setting you prefer and click “Apply” to save.

Timelapse
Click the “Timelapse” drop down. There are six settings to choose from: **Off / 0.5 sec / 1 sec / 3 sec / 5 sec / 10 sec**

Click the setting you prefer and click “Apply” to save.

Note: Press photo button, camera will keep taking photos until you press photo button again. Photos will be taken intermittently with the selected time period.

Photo Quality
Click the “Photo Quality” drop down. There are three settings to choose from: High / Medium / Low

Click the setting you prefer and click “Apply” to save.

Volume
Click the “Volume” drop down. Select the volume number you prefer and click “Apply” to save. 1 is the lowest speaker volume, and 10 is the largest.

Burst Mode
Click the “Burst Mode” drop down. There are eight settings to choose from: **Off / 2 pictures / 3 pictures / 5 pictures / 10 pictures / 15 pictures / 20 pictures / 30 pictures**

Click the setting you prefer and click “Apply” to save.

Note: Press photo button, the selected quantity of photos will be captured continuously.

Display Brightness
This model does not have LCD screen, please ignore this option.

Selfie Mode
Click the “Selfie” drop down. There are four settings to choose from: **Off / 3 sec / 5 sec / 10 sec**

Click the setting you prefer and click “Apply” to save.

Note: Press photo button, camera will take a photo after the selected time period.

File Tagging
Click the “File Tagging” drop down. Click the setting you prefer and click “Apply” to save.

TV Out
Click the “Video Standard” drop down. There are two settings to choose from: **NTSC / PAL**

Click the setting you prefer and click “Apply” to save.

Auto Power Off
Click the “Auto Power Off” drop down. There are seven settings to choose from: **Off / 30 sec / 1 min / 3 min / 5 min / 10 min / 30 min**

Click the setting you prefer and click “Apply” to save.

Note: Auto Power Off will only power off the device when it has been in standby mode for the selected interval. This will NOT power off the device during recording.

Time Zone
Click the “Time Zone” drop down to select the correct time zone, and then GPS will change the date and time accordingly.

Date Format
Click the “Date Format” drop down. There are three settings to choose from: **YYYY-MM-DD / DD-MM-YYYY / MM-DD-YYYY**

Click the setting you prefer and click “Apply” to save.

Auto IR
Click the “Auto IR” drop down. There are four settings to choose from:
– – **Off:** Infrared LED disabled.
– – **Manual:** This model does not support turn on / off Manually

– – **During Recording:** Only during video recording, infrared LED will be turned on / off automatically according to the environment light condition.
– – **Auto:** Infrared LED will be turned on / off automatically according to the environment light condition. When environment light condition is dark, infrared LED will be turned on automatically; When environment light condition is bright, infrared LED will be turned off automatically.

Audio Prompt
This model does not have speaker, please ignore this option.

LCD Auto Off
This model does not have LCD screen, please ignore this option.

Encoding Format
Click the “Encoding Format ” drop down. There are two settings to choose from: **H.265 / H.264**

Click the setting you prefer and click “Apply” to save.

Charge State
Click the “Encoding Format” drop down. There are two settings to choose from:
– – **Off:** Camera can not be charged while camera is on.
– – **Normal State:** Regular charging mode while camera is on.
– – **Fast State:** Fast Charging mode while camera is on.

Click the setting you prefer and click “Apply” to save.

Video EIS
Click the “Video EIS” drop down. There are two settings to choose from: **Off / On**

Click the setting you prefer and click “Apply” to save.

Note: When VideoEIS set on, camera video image will be more stabilized.

Double Click Record
Click the “Double Click Record” drop down. There are two settings to choose from: **Off / On**

Note: When Double Click Record set On, press the Record button twice quickly (within 0.5 second) to stop video recording instead of holding Record button 3 seconds.

GPS
Click the “GPS” box to turn GPS on or off. When checked, GPS will be turned on. Please make sure GPS module is included in the camera. Turn on camera, when GPS signal is received, device will emit four beep chirps, and then GPS coordinates will be created as watermark of video.

Power-on Auto Record
Click the “Power-on Auto Record” box to get camera to starting recording automatically after powered on.

Clock Prompt
This model does not have speaker, please ignore this option.

Key Tone
This model does not have speaker, please ignore this option.

Auto Update Time
Click the “Vibration” box to turn **on / off** auto update time function.
– – **On:** Once GPS signal is received, the camera date & time will be synchronized to GPS time.
– – **Off:** Once camera is connected to Cam Manager, the camera date & time won’t be synchronized to PC’s.

Vibration Prompt
Click the “Vibration Prompt” box to turn on/off vibration of camera.

Enhanced Standby
Click the “Enhanced Standby” box to turn on enhanced Standby, uncheck to turn off.

Dash Camera Mode
Click the “Dash Camera Mode” box to have the camera automatically power on and start recording when connected to power supply such as a car charger.

Motion Detection
Click the “Motion Detection” box to turn on motion detection, uncheck to turn off.

Note: Once motion detect is set on, press video record button to initiate motion detect, once camera detects the movements, it will start recording, and stop recording until video scene has not changed or moved for over 10 seconds.

Led Indicator

Click the “Led Indicator” box to turn LED indicator lights on or off. When checked, the camera will have LED indication when video is recording or photos are taken, and camera battery is low.

Loop Recording

When loop recording is set “On”, it provides a way to let camera keep recording when memory space is full, because the oldest file will be overwritten by the latest file.

Click the “Loop Recording” box to turn on loop recording function.

– – **On:** If memory becomes full, the oldest files will be overwritten by the latest file.

– – **Off:** Camera will stop recording when the memory is full.

Low Space Warning

Click the “Low Space Warning” box to turn on loop recording function.

– – **On:** Camera will make notification when the camera storage space is low.

– – **Off:** Camera won’t make notification when the camera storage space is low.

Stealth Mode

Click the “Stealth Mode” box to turn on stealth mode, uncheck to turn off.

If stealth mode is set on, hold photo button 3 seconds to trigger stealth mode, all the LED indicators, buzzer indication will be disabled, only vibration for indication camera status.

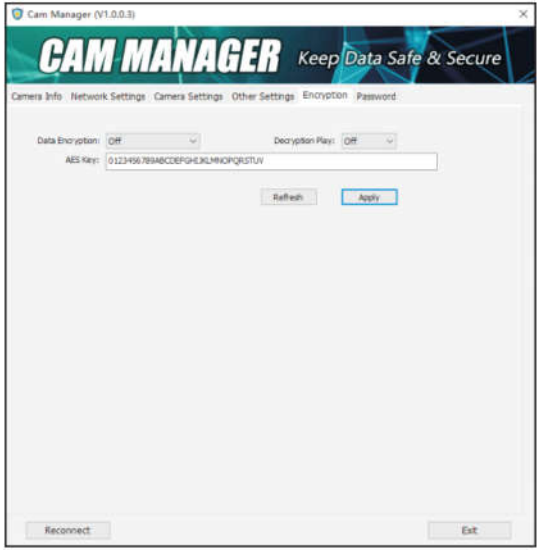
Low Battery Warning

Click the “Low Battery Warning” box to turn on loop recording function.

– – **On:** Camera will make notification when the camera battery is low.

– – **Off:** Camera won’t make notification when the camera battery is low.

Encryption



1. Click the “AES256 Encryption” tab in camera management software. Click the “Data Encryption” drop down. There are four settings to choose from: **Off / File Encryption / Streaming Encryption / Both**

2. Click the “Decryption Play” drop down. There are two settings to choose from: **Off / On**

Note: When choose on, user are able to display encrypted video in camera playback mode.

3. AES Key
To change AES Key, just input the new AES Key in the text box. The AES Key is consist of letters & numbers.

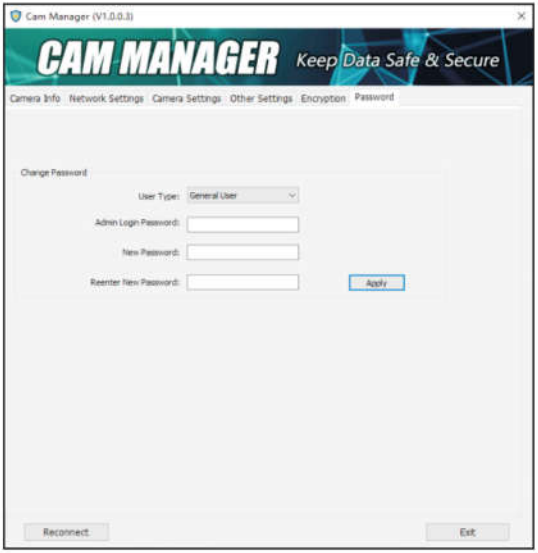
After changing the settings, click “Apply” to save.

Change Password

Click the “Change Password” tab in the Camera Management Software.

From here you can change device passwords. Select the user type for the password that you wish to change. Enter the admin password, then enter the new password you wish to set for the user type, and confirm the password.

Click “Apply” to save the new password.



Note: Passwords can only be changed while logged in with the admin account. The admin password will always be required to make changes to any account passwords.

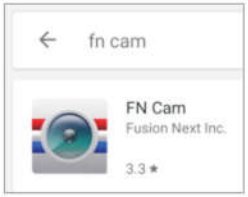
WiFi APP installation and Use

FN Cam APP Installation

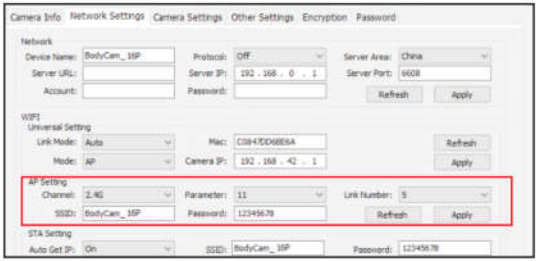
Download FN Cam in the App Store on your mobile device.

IOS

Android



Connect your phone to the WiFi network created by the camera. The WiFi SSID and password can be found in Cam Manager as shown below. The default WiFi password is: 12345678



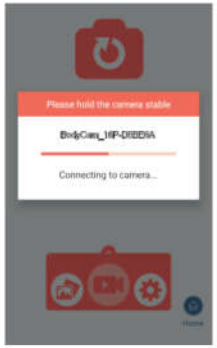
We STRONGLY recommend changing the WiFi password immediately for your camera to something secure if you plan to use the WiFi option.

Open the FN Cam app on your mobile device.
pen the FN Cam app on your mobile device.

APP installation and Use

Once the app has opened and is connected, tap the Car DV button to connect to your camera.

After you tap Car DV, you will see the following message while the camera is connecting.



APP installation and Use

After successfully connecting your camera to the app, you will be able to see the camera's livestream. If you are in an area where you are able to acquire a GPS signal, you can tap the Home button in the lower right corner of the app and you will see a map of your current location.

Please see our website stuntcams . com/dv10-pro for advanced instructions on connecting to your camera via the app.

APP installation and Use

To view your already recorded videos simply tap the lower left Photo/Video icon.

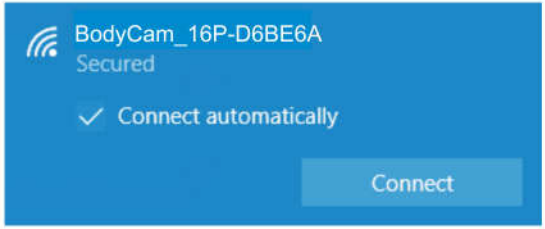
From this screen you can select the folder and then you will be able to review, download or delete your video/audio files. If you do not want users to have these privileges you can.

1. Keep the WiFi function disabled in Cam Manager.
2. Change the WiFi password so that it can only be used by an administrator.

Review/Download File from Camera on PC

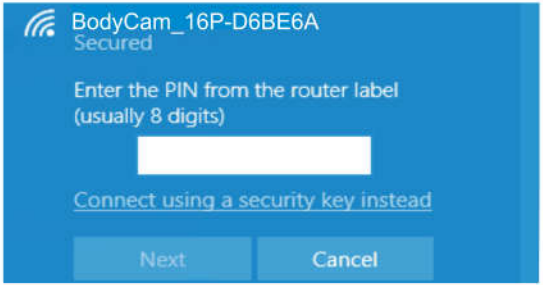
How to review/download files from camera via web server.

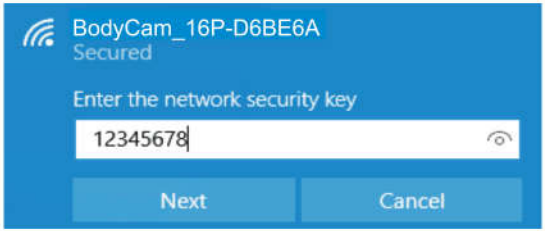
1) Make sure WiFi is ON after camera is powered on. WiFi indicator(next to battery level indicator) will be solid white. A WiFi network will be created by camera, and network SSID will be "SSID+Mac Address(last 6 characters)", SSID can be found in the tab "WiFi&Bluetooth"of camera management software.

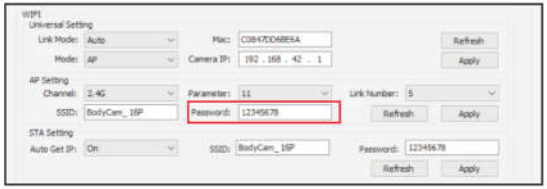


Review/Download File from Camera on PC

2) Connect to the WIFI network created by camera. Click "Connect using a security key instead" and enter the password. Password can be found in the tab "Network Settings" of camera management software, default password is 12345678.







3）Use web browser to view or download files in camera.

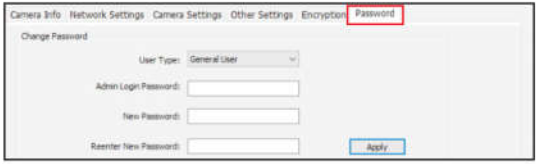
3.1) 192.168.42.1 is the default IP address of camera, it can be found and set the tab "Network Settings" of camera management software.

3.2) If Web Server is set with Http, then enter http://192.168.42.1 in address bar of web browser.

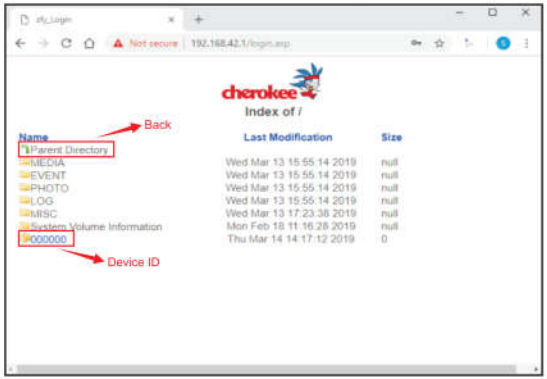
3.3) If Web Server is set with Https, then enter https://192.168.42.1 in address bar of web browser.

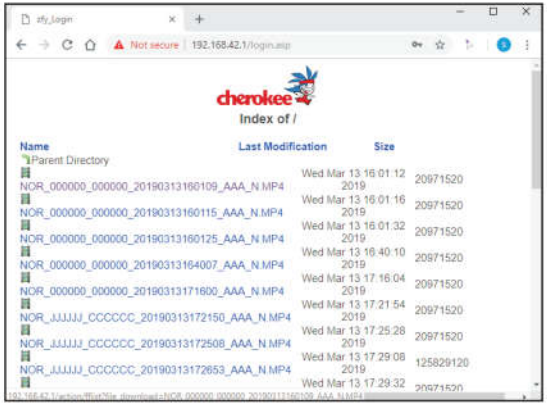
3.4) If Web Server is set with Http&Https, then enter http://192.168.42.1 or https://192.168.42.1 in address bar of web browser.

3.5）Default user name is admin, and it can not be changed. Default password is 888888, and it can be change via camera management software.



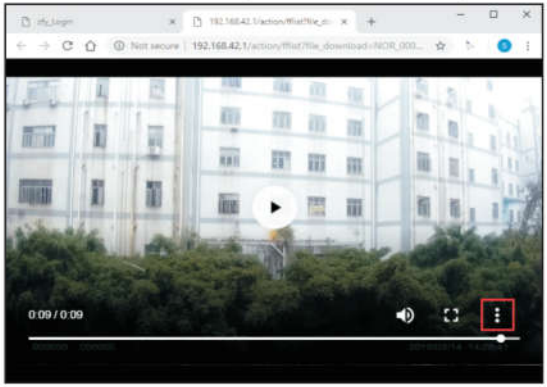
3.6) Click the folder name and file name to open files.

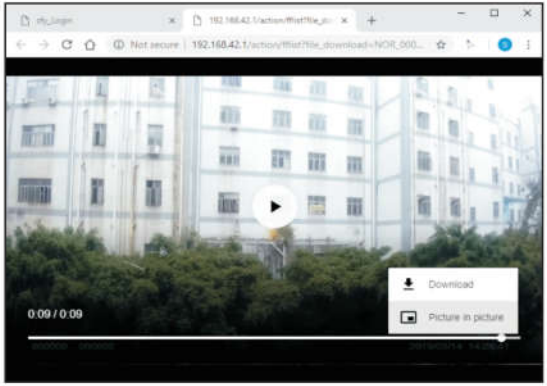




Review/Download File from Camera on PC

Click the marked zone in rectangle to have "Download" option.





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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.
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.

RF Exposure Information
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.