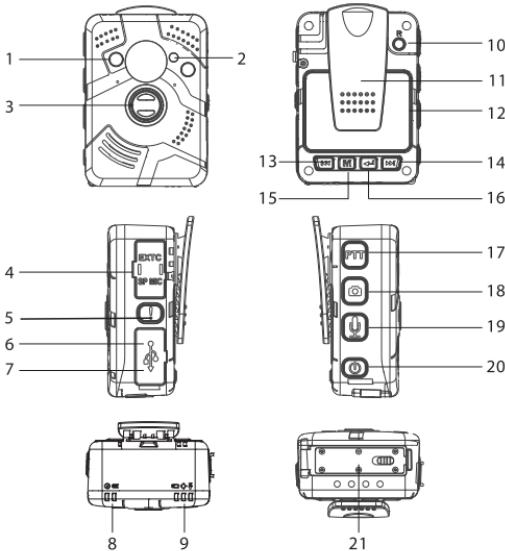


USER AND SOFTWARE MANUAL

Specifications



1. IR LED Light
2. Photoresistor
3. Video Recording Button
4. External Camera Socket
5. Tagging Button
6. Mini USB
7. HDMI
8. Power/Charging Indicator
9. Activity Indicator
10. Reset
11. Clip
12. LCD Display
13. Up/Left
14. Down/Right
15. Menu/Confirm
16. Playback/Back
17. PTT
18. Photo Button
19. Sound Recording Button
20. Power On/Off
21. Battery Slot Door

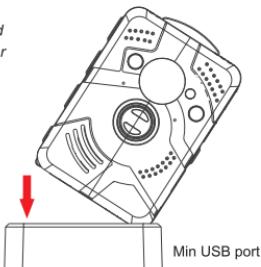
RECORDING	
Sensor	5MP CMOS
Optional	2304x1296(30FPS)/1920x1080P(30FPS) / 1440x1080P(30FPS)
Video Resolution	/ 1280x720(30FPS) / 848x480(60FPS) / 848x480(30FPS)
Video Format	H.264 /MPEG4
Fast forward	2X, 4X, 8X, 16X, 32X, 64X
REW	2X, 4X, 8X, 16X, 32X, 64X
Audio	High Quality Built-in Microphone,
Audio Format	.WAV
Water Mark	User ID, Time and Date Stamp Embedded into Video
Camera	23 Megapixel Camera with optional burst mode(3/5/10 fps)
Camera Format	JPEG
Snap Shot	Capture Photos During Video Recording
Recording Time	Continuous Rec. time: 360 minutes (battery fully charged, IR disabled, resolution ratio 848*480, low quality)
Storage Capacity	16G/32G/64G
Record LED	Red
One Button Recording	Supports One Button Recording
Activation prompt	Audible, Visual, and Tactile Confirmation for Activation/Deactivation of Record Function
IR Light	2 IR LED's with Automatic Lux activation
Light Sensitivity	0.5 Lux
VIDEO/IMAGE REVIEW	
LCD Screen	2 inches TFT-LCD High-Resolution Color Display
Audio Playback	Yes
Video Output	HDMI 1.3 Port
Video Transfer	USB 2.0
CAMERA	
Recording Angle	Wide Angle 140 degrees
Night Vision	Up to 10 Meters
Waterproof	IP65
Clip	High Quality Metal Clip with 360 degrees Rotatable
PTT	Available to Connect to Most Models of 2-Way Radios
BATTERY	
Type	Built-In 2000mAH Lithium Polymer Cell
Charging Time	120 minutes
Battery Life	420 minutes
OTHERS	
Password protection	Requires administrator password to allow video deletion
Pre-record function	Up to 90 seconds pre-record (depends on video resolution)
Post-record function	Up to 10 seconds post-record
Burst Mode	3/5/10 fps
Dimensions	84 mm *60 mm *32mm (3.3" * 2.4" *1.2")
Weight	160g
Working Temperature	-40~140 degrees Fahrenheit
Storage temperature	-4~131 degrees Fahrenheit
ACCESSORIES	
Standard Accessories	USB cable, Charger, Driver CD, Universal metal clip, Manual
Internal GPS Module	External Mini Camera, Shoulder Mount, Suction-cup Mount, 2-way Radio Cable, Drop-in Dock, Removable Battery, WiFi Module
Optional	

How to Drop Camera into Dock?

Lean the camera to the side of mini USB port, then press the camera down vertically.

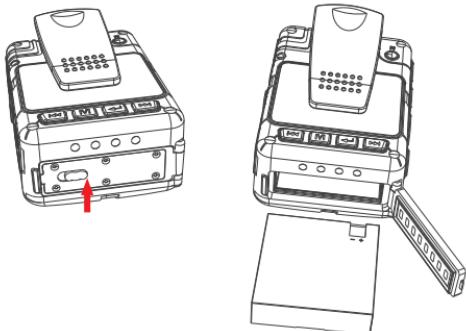
Tips: i) When battery is being charged on dock, the indicator will be red. After fully charged, the red indicator will be off.

ii) When camera is being charged on dock, there will be a blue indicator on camera lit up. After fully charged, the blue indicator will be off.



How to Change Battery?

Hold the latch to the right side of battery slot door, then open the "door" to remove the battery.



Getting Started

1) Press and hold the "Power"button (located on the bottom of the right side of the device) for about 3 seconds, the unit will vibrate. A green indicator on top of the unit will turn on and remain green while the unit is powered on . The camera and LCD display will turn on and enter into standby mode. The video preview mode is displayed on the LCD.

Tip: Single-press Power button can turn off/on the LCD screen.

2) Video Recording:

a. To record a video, press the "Video Recording" button located on the front of the device(under the camera lens). The unit will give one short vibration. The "RED POINT" symbol on the LCD display will indicate the camera is currently recording.

b. To zoom in while recording, hold the "Right" button (located below the LCD monitor display). To zoom out, hold the "Left" button.(2304x1296p, 1920x1080p Video Not Available)

c. Press the "Record" button again to stop recording. The unit will vibrate once and the "RED POINT" symbol will no longer be displayed. The unit will stop recording and save the video.

d. When the unit is powered off, if user presses and holds the "Video Recording" button for about 3 seconds, the device will turn on and automatically start recording video.

e. When recording at night or in the dark, the IR LED will turn on automatically and the camera will enter into Night Mode. The video recorded in the dark will be in black and white. (Set Filter with Auto in the menus)

3) Taking Photo:

a. To take a photo, press the "Camera" button.

b. To zoom in, press and hold the "Right" button. To zoom out, press and hold the "Left" button.

c. To take photos while video recording, press the "Camera" button and the unit will capture a photo each time, this operation won't interrupt the video recording.

d. To take photos at night or in the dark, set Filter with Auto in the menus, the camera will automatically change to Night Mode. Photos taken in Night Mode will be black and white.

4) Sound Recording:

a. To record only audio file, press the "Microphone" button. The unit will vibrate once briefly and "Audio recording" will appear on the LCD display.

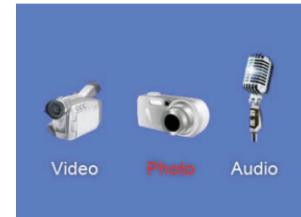
b. To stop recording, press the "Microphone" button again. The unit will vibrate once briefly and return to the video preview mode. The audio recording will end and will be saved as an audio file.

5) Battery Indicator, LED Ring around Video Recording Button:

a. When Recording Videos: I) Connected with power supply, battery indicator will be red. II) Using Battery, more than 50% of battery, battery indicator will be red; less than than 50% of battery, battery indicator will flash alternately with red and green light.

b. Standby Mode: Less than than 25% of battery, battery indicator will flash with green light.

Video, Photo, Sound Playback



Press "Playback" button once to enter into Playback Menu interface from video preview mode. User can then select which recorded file to play back, including video, photo and Audio.

- a. Press "Playback" button to enter into the Playback Menu.
- b. Use the "Left" or the "Right" button to select the icon, and then press the "M" button to display all saved recorded files.
- c. Select the file to view by using the "Left / Right" buttons. After selecting the file, press the "M" button to browse the recorded files in full screen.
- d. To return to the Playback Menu, press the "Playback" button.

Note: When playing the video, user can press "Left" to rewind and "Right" button to fast forward, from 2X to 64X.

MENU SETTINGS

To enter into the menu from video preview mode, press the "M" button, default password is **000000** (number zero).

There are 3 main tabs, Video SETUP, Camera SETUP, System Settings.

Press "Left/Right" button to move from one tab to the next.

Press "M" button to enter into the sub-menu.

Press "Playback" button to back to main tab.

Video Resolution



a. In the Video SETUP Menu, select "Resolution" and press the "M" button.

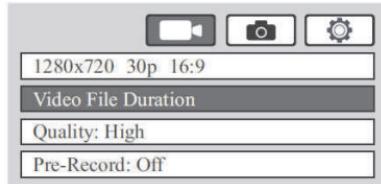
b. There are six resolution options to select from:

1. 1920x1080P 30 fps
2. 1440x1080P 30 fps
3. 1280x720P 60 fps
4. 1280x720P 30 fps
5. 848x480P 60 fps
6. 848x480P 30 fps

c. Select the Resolution you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Video File Duration



a. In the Video SETUP Menu, select "Video File Duration" and press the "M" button.

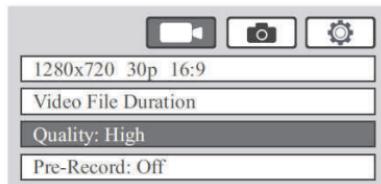
b. There are four time intervals to select from, which specify the length of video clip:

- 5 minutes / 10 minutes
15 minutes / 30 minutes

c. Select the time interval you prefer and press the "M" button.

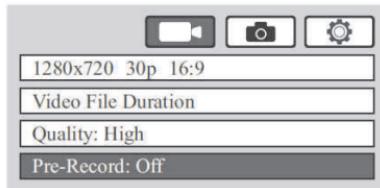
d. Press the "Playback" button to return to the previous menu.

Video Quality



- a. In the Video SETUP Menu, select "Quality" and press the "M" button.
- b. There are three options to select from:
 - 1. High
 - 2. Medium
 - 3. Low
- c. Select the Video Quality you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

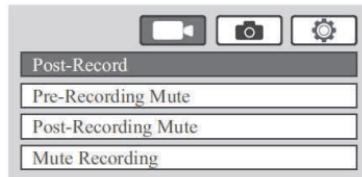
Pre-Record



- a. In the Video SETUP Menu, select "Pre-Record" and press the "M" button.
- b. There are two options to select from:
 - 1. On – Camera will pre-record up to 90 seconds prior to pressing the "Video Recording" button. (35 seconds with 1080P resolution, depends on the video resolution.)
 - 2. Off – No pre-recording
- c. Select the Pre-Recording option you prefer and press the "M" button.

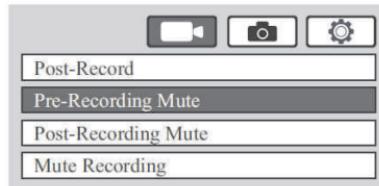
- d. Press the "Playback" button to return to the previous menu.

Post-Record



- a. In the video SETUP menu, select "Post-Record" and press the "M" button.
- b. There are two options to select from:
 - 1. On- camera will post-record up to 10 sec after pressing the "Video Recording" button (Depends on the video resolution).
 - 2. Off- No post- recording
- c. Select the Post-Record option you prefer and press the "M" button.

Pre-Recording Mute



a. In the video SETUP menu, select "Pre - Recording Mute" and press the "M" button.

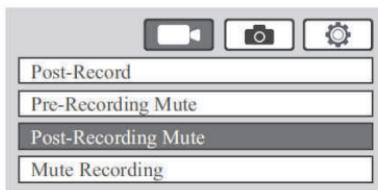
b. There are two options to select from:

1. Off- Enables audio recording in Pre-Record mode
2. On- Disables audio recording in Pre- record mode

c. Select the Pre- Recording audio option you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Post- Recording Mute



a. In the video SETUP menu, select "Post - Recording Mute" and press the "M" button.

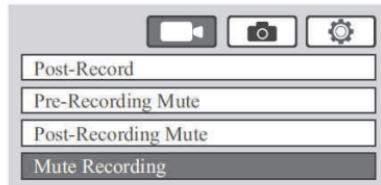
b. There are two options to select from:

1. Off-Enables audio recording in Post- Record mode.
2. On - Disables audio recording in Post- Record mode.

c. Select the Post-Recording audio option your prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Mute Recording



a. In the video SETUP menu, select "Mute Recording" and press the "M" button.

b. There are two options to select from:

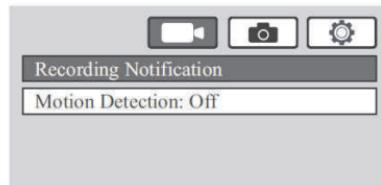
1. Off - Enables audio recording in Record mode
2. On - Disables audio recording in Record mode

c. Select the Recording Audio option you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Recording Notification

"Recording Notification function alerts bystanders when the device is recording by emitting an audio chirp every 10/15/30 seconds. Off is available."



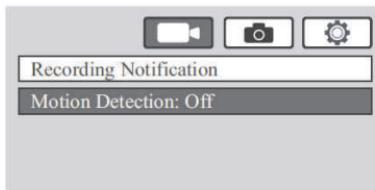
a. There are two options to select from:

1. Off - Device will not beep when video is being recorded.
2. On - Device will beep every 10/15/30 seconds when video is being recorded. (Device will not beep if "Silent Mode" is ON.)

b. Select the Recording Notification option you prefer and press the "M" button.

c. Press the "Playback" button to return to the previous menu.

Motion Detection



a. In the Video SETUP Menu, select "Motion Detection" and press the "M" button.

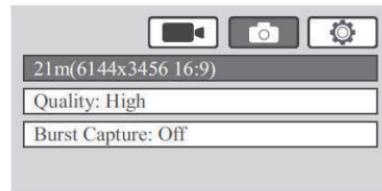
b. There are two options to select from:

1. On - Device will automatically record when senses motion.
2. Off - Motion Detection off.

c. When Motion Detection is On, press Video Recording button to start detecting motion, if the camera senses the motion, it will record a 10sec video clip, at the end of the 10sec video clip, it will detect again, if motion is detected, camera will continue recording, if not, it will stop recording and won't start recording until a motion is sensed.

d. Press the "Playback" button to return to the previous menu.

Photo Resolution



a. In the Camera SETUP Menu, select "Resolution" and press the "M" button.

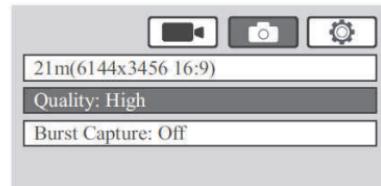
b. There are six options to select from:

1. 4 M (2688x1512)
2. 8 M (3776x2124)
3. 12 M (4600x2592)
4. 16 M (5344x3006)
5. 21 M (6144x3156)
6. 23 M (6400x3600)

c. Select the Camera Resolution you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Camera Quality



a. In the Camera SETUP Menu, select "Quality" and press the "M" button.

b. There are three options to select from:

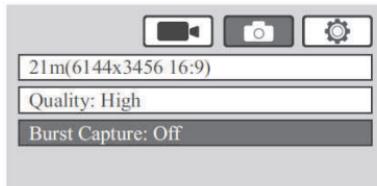
1. High
2. Medium
3. Low

c. Select the Camera Quality you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Burst Capture

"Burst Capture function automatically captures a continuous sequence of photos."



a. In the Camera SETUP Menu, select "Burst Capture" and press the "M" button.

b. There are four options to select from:

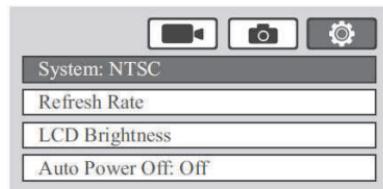
1. Off - No continuous photo shooting
2. 3 frames per seconds
3. 5 frames per seconds
4. 10 frames per seconds

c. Select the Burst Capture setting you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

e. When Burst Capture is ON, photo resolution can't be set.

System TV Standard



a. In the System Settings Menu, select "System: NTSC/PAL" and press the "M" button.

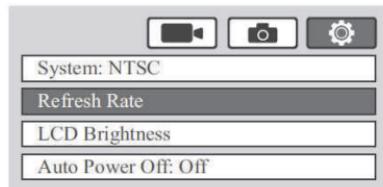
b. There are two options to select from:

1. System NTSC
2. System PAL

c. Select the TV standard you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

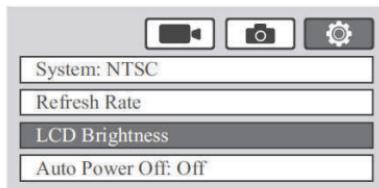
Refresh Rate



- a. In the System Settings Menu, select "Refresh Rate" and press the "M" button.
- b. There are two options to choose from:
1. 60 Hz
 2. 50 Hz
- c. Select the Refresh Rate option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

LCD Brightness

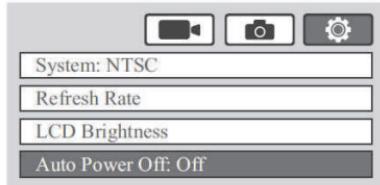
- a. In the System Settings Menu, select "LCD Brightness" and press the "M" button.



- b. There are 16 options to select from:
8,16,24,32,40,48,56,64,72,80,88,96,104,112,120,128
- c. Select the screen brightness option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

Auto Power Off

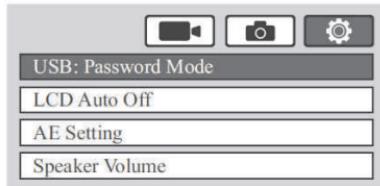
- a. In the System Settings Menu, select "Auto Power Off" and press the "M" button.



- b. There are five options to select from:
1. Off- Device can only be powered off manually.
 2. 1 Minute
 3. 2 Minutes
 4. 3 Minutes
 5. 5 Minutes
- c. Select the Auto Power Off option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

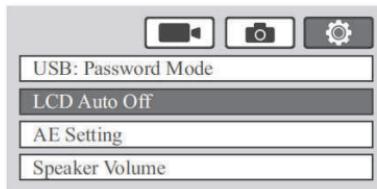
USB Mode

"Allows users to access recorded files on computers that do not have the Body CAM software installed using the system's password".



- a. In the System Settings Menu, select "USB: Password / Software Mode" and press the "M" button.
- b. There are two options to select from:
 1. Password Mode- The device will prompt for password on the LCD when connected to PC.
 2. Software Mode- The device will not prompt for password and user must use the software to access video files on the BODY CAM.
- c. Select the USB Mode you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

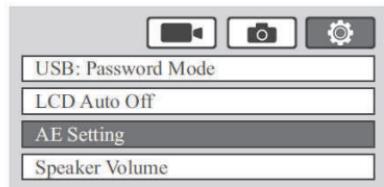
LCD Auto Off



- a. In the System Settings Menu, select "LCD Auto Off" and press the "M" button.
- b. There are three options to select from:
 1. Off- the LCD screen will stay on.
 2. 30 seconds
 3. 1 minute
- c. Select the LCD Auto Off option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

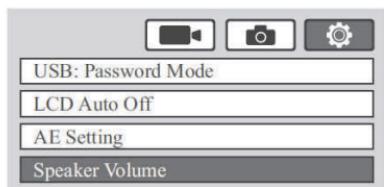
AE Setting - Speaker Volume

"AE Setting allows for configuration of the camera's auto exposure ."



- a. In the System Settings Menu, select "AE Setting" and press the "M" button.
- b. There are twelve options to select from:
 - 0.3, -0.7, -1.0, -1.3, -1.7, -2.0 EV
 - +0.3, +0.7, +1.0, +1.3, +1.7, +2.0 EV
- c. Select the AE Setting you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

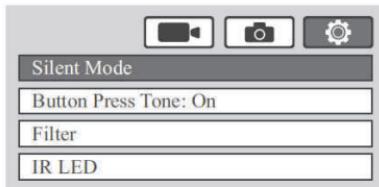
Speaker Volume



- a. In the System Settings Menu, select "Speaker Volume" and press the M button.

- b. There are 16 volume settings to choose from: 1-16
- c. Select the speaker volume you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

Silent Mode



- a. In the System Settings Menu, select "Silent Mode" and press the "M" button.
- b. There are two options to choose from
 - 1. On - Disables all device noises and LED except for playback sound.
 - 2. Off - Enables all sound settings
- c. Select the Silent Mode option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

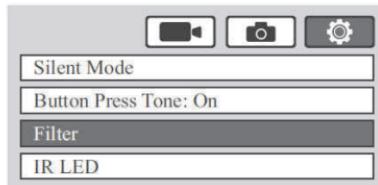
Button Press Tone



- a. In the System Settings Menu, select "Button Press Tone" and press the "M" button.
- b. There are two options to select from:
 - 1. On-Enables the prompt sound
 - 2. Off-Disables the prompt sound
- c. Select the option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

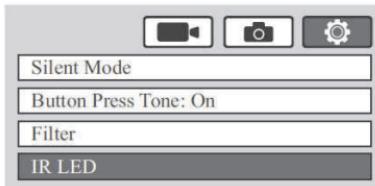
Filter

"Enables Night Mode(Black&White) automatically or manually.



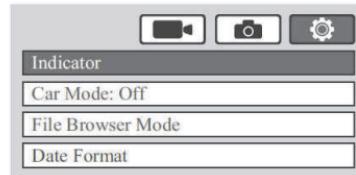
- a. In the System Settings Menu, select "Filter" and press the "M" button.
- b. There are two options to select from:
1. Auto- Enable Night Mode automatically.
 2. Manual- Enable Night Mode manually, press and hold the "Photo" button to turn on/off Night Mode.
- c. Select the filter option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

IR LED



- a. In the System Settings Menu, select "IR LED" and press the "M" button.
- b. There are two options to select from:
1. On - Enables IR lights for Night Mode.
 2. Off - Disables IR lights for Night Mode.
- c. Select the option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

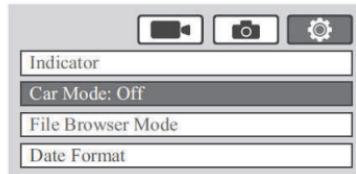
Indicator



- a. In the System Settings Menu, select "Indicator" and press the "M" button.
- b. There are two options to select from:
1. On - Enables indicator lights.
 2. Off - Disables indicator lights.
- c. Select the Indicator option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

Car Mode

"Car mode means the device will turn on and start recording after connected with power supply.



a. In the System Settings Menu, select "Car Mode" and press the "M" button.

b. There are 5 options to select from:

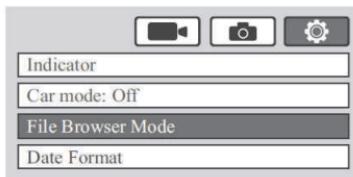
1. 3/5/10/15min - Connected with power supply, device will turn on and start recording videos, length of video clip will be 3/5/10/15min, and it will turn off the setting in Video File Duration temporarily. After storage memory is full, oldest file will be overwritten. Tagged file won't be overwritten.

2. Off

c. Select the Car Mode option you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

File Browser Mode



a. In the System Settings Menu, select "File Browser Mode" and press the "M" button.

b. There are two options to select from:

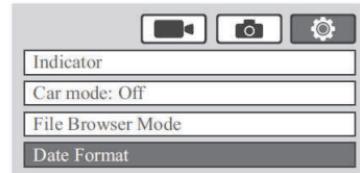
1. Photo Mode - Displays files by using thumbnails.
2. File mode - Displays files by using lists.

c. Select the File Browser Mode option you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Date Format

a. In the System Settings Menu, select "Date Format" and press the "M" button.



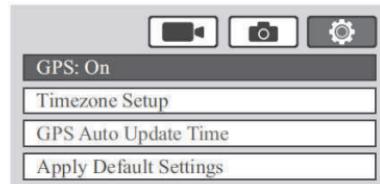
b. There are three options to select from:

1. DD-MM-YYYY
2. MM-DD-YYYY
3. YYYY-MM-DD

c. Select the Date Format option you prefer and press the "M" button.

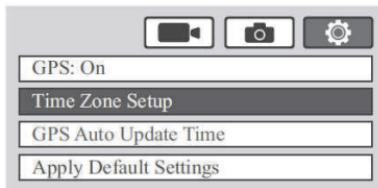
d. Press the "Playback" button to return to the previous menu.

GPS



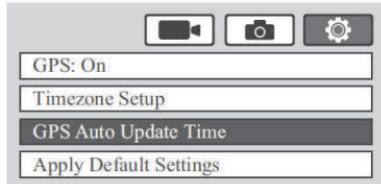
- a. In the System Settings Menu, select "GPS" and press the "M" button.
- b. There are two options to select from:
 1. On-Turns on GPS (Requires GPS module and only available for GPS version.)
 2. Off - Turns GPS off.
- c. Select the GPS option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

Time Zone Setup



- a. In the System Settings Menu, select "Time Zone Setup" and press the "M" button.
- b. There are 25 Time Zones to choose from between -12 to +12.
- c. Select the correct Time Zone Setup and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

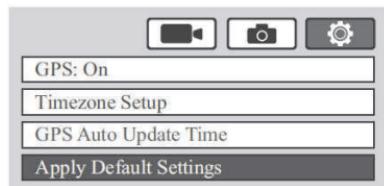
GPS Auto Update Time



- a. In the System Settings Menu, select "GPS Auto Update Time" and press the "M" button.
- b. There are two options to choose from:
 1. On - Device will automatically update time based on GPS location info.
 2. Off - Device will not automatically update time.
- c. Select the GPS Auto Update option you prefer and press the "M" button.
- d. Press the "Playback" button to return to the previous menu.

Apply Default Settings

"Apply Default setting will return device to factory settings."



a. In the System Settings Menu, select "Apply Default settings" and press the "M" button.

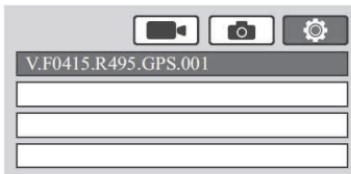
b. There are two options to select from:

1. O - Confirm and reset device to factory settings.
2. X - Exit menu settings.

c. Select the option you prefer and press the "M" button.

d. Press the "Playback" button to return to the previous menu.

Firmware



a. This displays the firmware version currently installed on the device.

BODY CAM Software Manual



Overview

This manual is intended to provide the user with the information required for proper installation, initial setup and explanation of the individual programming options.

Features

Allow user activate via USB

Allow user login

Sync BODY CAM to computer clock

Modify login password and user ID

Allow user to define Police ID

Allow user to define video Resolution

Photo Quality and Photo size

Minimum Requirements

Windows XP (service pack 3)

Windows 7 (32 and 64 bit)

Additional or external hard drive storage(recommended for archiving video)

Compatible Devices

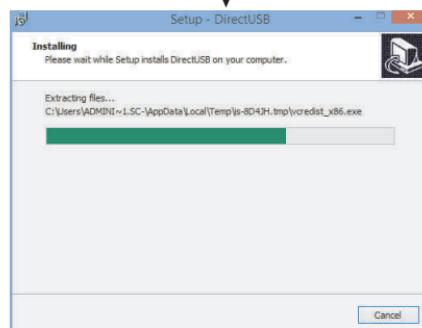
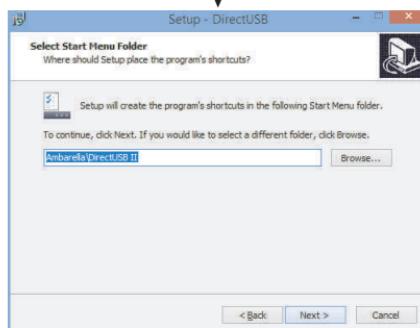
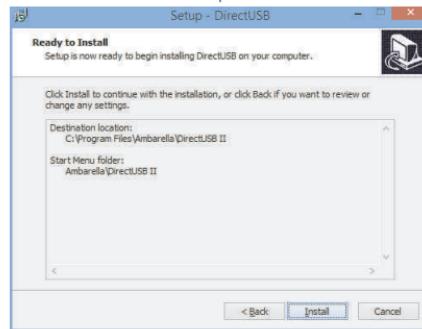
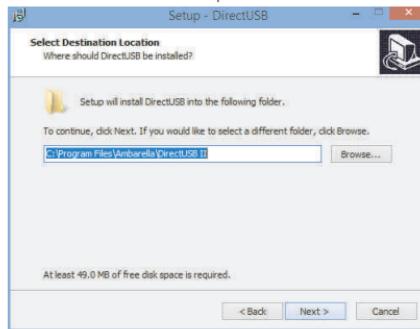
BODY CAM Body camera

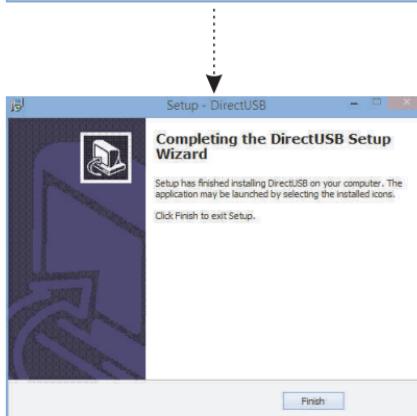
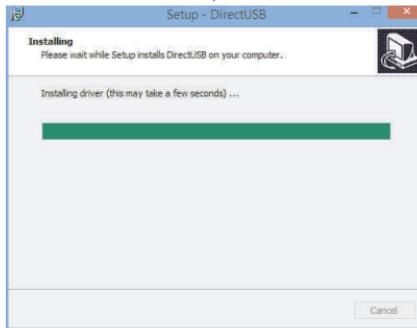
Setup

To install necessary driver before using the software.
double click on SZ-DirectUSB-Setup-v2.2.19.0.exe file.

Driver Installation:







Connect

Software is named as BODY CAM.exe, user can find it in the CD disc.



Double click on the BODY CAM icon to start the software. If you use Windows 7, run as Administrator to make sure all functions work properly.

To copy video from the BODY CAM to your computer, connect the provided USB cable to the camera and the computer. Then press Power button to turn on the camera. When the camera is successfully connected to the computer, user can find "USB config" on the screen of camera, **no need to enter password on camera.**

Next, start the BODY CAM Client application. Double click on the "BODY CAM" icon.

****NOTE:** The camera must be connected to the computer and in the "ON" position to have videos downloaded. You must connect the USB cable to the camera and on the computer.

Login

The “LOGIN SCREEN” for the BODY CAM Client application will appear on your desktop:

This will connect the software application to the device

Enter your password and click the “Log In” button.

NOTE: the default password is **000000 (number zero). When user enter the wrong password once, the software need to be re-opened, or user will always get the prompt “Wrong Password”.



System Management Tab

The “System Management” tab for the BODY CAM is displayed by default.

On this screen users are able to sync their device with their computer’s date and time.

Additionally, users can access their recordings on the device.

Device Setup



Click the “sync Date and time ” Button.

The device will synchronize with the computer’s date and time.

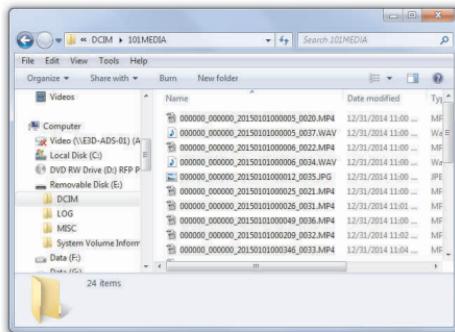
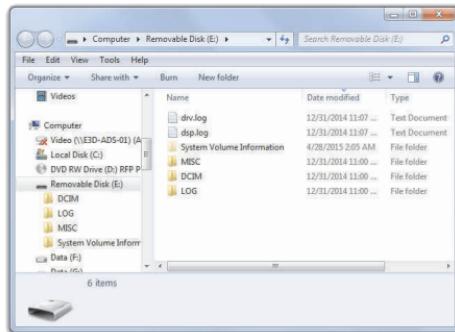
Click the “Open File Explorer” button

A window will pop up, allowing you to access the recorded files.



Device Setup

Video files are located under the DCIM folder.



Device Setup

Parameters Tab

Click the "Parameters" tab.

On this screen, users are able to set up the User/Officer ID, change the Video Resolution, Photo Quality, Photo Size and view the available storage space on the device.



To change the Video Resolution, Photo Quality, and/or Photo Size on the device, click the drop down menu and select the option(s) you prefer.

Once selected, click the "Apply" button. This will apply the new settings to the device.

Device Setup

Password Tab

Click the "Password" tab.



To change the password, enter current password into the "Current Password" field. Then type the desired password into the "New Password" and "Re-enter New Password" field.

Click the "Apply" button. The password will be updated.