PDF

# Vigilant Eye -BWC 2.0 User Manual



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# Introduction

The Vigilant Eye BWC 2.0 is a body-worn camera (BWC) equipped with audio and video recording functions. The BWC is applicable in various harsh environments of law enforcement, security, military, etc. Designed to be part of the law enforcement solution, the Vigilant Eye 2.0 is used for recording cases and collecting evidence, to facilitate case forensics for the police. In the meantime, policeman tracking and alarms are provided, implementing real-time protection for policemen during law enforcement. As the core of the law enforcement system, the Vigilant Eye 2.0 supports multiple methods to upload evidence. Policemen can log into the platform and app to view and mark the evidence playback and associate cases.

The Vigilant Eye 2.0 can work in standby mode and recording mode. When the Vigilant Eye 2.0 changes from the standby mode to the recording mode, it alerts the Vigilant Evidence Management System and activates the alarm recording function to collect evidence. On the Vigilant Evidence Management System, you can also implement monitoring, tracking, and scheduling operations for the onsite situation through the BWC node.

# **BWC Operation**

### 1. Button and Instructions Explain

### **1.1. Button function**



#### **Button function description:**

Button	Pressing Mode	Description
	Press	Power on when in the power-off status
Power button	Press and hold (3S)	LCD screen is on display when in the power-on status
	Press and hold (10S)	System reset
Record button	Press one time or double press.(Configurable)	Press the button in the standby status: activating the recording Press the button in the power-off status: powering on and activating the recording
	Press and hold (3S)	Stop recording
FN(function) button	Double-press	Activating (deactivating) mute (During BWC recording)
	Press and hold (3S)	Activating (deactivating) AP
M(mark)	Press	Marking videos (during recording)
button	Press and hold (3S)	SOS alarm recording (Alarm send to VEMS under 4G or wifi)
M+FN	Press and hold (3S)	Activating and deactivating the stealth mode
Resetting button (Behind the battery)	Press	System reset
FN+Power	Press	Turn on / off the Privacy Mode

### **1.2. LED/Beep/Vibration status**

BWC LED light, Beep, Vibration reminder status:

BWC status	BWC LED status	Веер	Vibration	Description
Power on	Solid Red	1 times	1 times	Change to Green after power on success
Power off	No	1 times	1 times	
No recording (Standby)	Solid Green	No	No	
Recording	Solid Red The LED on the Record button will be solid Red too.	2 times	2 times	By button or the event trigger or keyword

Stop recording by pressing button	Solid Red change to Solid Green	1 times long beep	1 times long vibration	
Recording starts abnormally	No	1 times long beep	1 times long vibration	LCD show recording failed
Mute audio	Solid Yellow	1 times	1 times	Solid yellow until unmute audio
Enable WIFI AP	Solid Blue	1 times	1 times	Solid Blue until disable WIFI
Remote Live view (From the VEMS)	Flashing Red The LED on the Record button will be Flashing Red too.	1 times	1 times	Flashing Red until stop live view
WIFI AP disable Unmute audio Mark video Quit stealth mode	No	1 times	1 times	
Battery Power lower than 20% and every 5% reduction(BWC no plugin the Dock)	No	1 times	1 times	
Enter stealth mode	No	No	No	
BWC NFC pair success	No	1 times	1 times	
BWC NFC pair fail	No	No	No	
BWC voice activate	No	1 times	1 times	
Under stealth mode: Start recording	No	No	2 times	
Under stealth mode: Stop recording	No	No	1 times long vibration	
Under stealth mode: Power off	No	No	1 times	
BWC on the Dock: Charging	Flashing: BWC Charging Solid: Finished charging	No	No	
BWC on the Dock: Server connection	Failed: Red Success:Green	No	No	The LCD screen will show the server failed connection status.

Note: New LED status will replace the current status. And When the LED status of the battery conflicts with the LED status of the server connection, the LED status of the server connection has a higher

priority.

Dock LED status:

LED status	Description
Solid Blue	Dock is power on
Solid Red	BWC plug into the Dock

### 2. Power On

Step 1. Press the power button, the BWC status light turns solid red and the Streamax logo is displayed on the LCD.



Step 2. When the BWC status light turns from solid red to solid green, and the logo on the LCD disappears and changes to the BWC status, the BWC is powered on and in standby mode.



Step 3. In the standby mode, the BWC status and policeman ID are displayed on the LCD (if the BWC is powered on for the first time, no policeman ID is displayed until the ID is configured). On the upper part of the LCD, the status icons for the 4G signal, AP hot spot status, server (platform) connection status, GPS positioning, battery percentage, and battery level are displayed in turn.



### **Status icons**

Icon	Name	Description
	4G connection signals	Able to search for and connect to 4G signals
×	No 4G connection	Unable to search for 4G signals (No SIM card, SIM is broken)
0	Strong GPS signal	Positioned through GPS
(i@i)	Weak GPS signal	Weak GPS signal
0	No GPS signal	No GPS signals or positioning deactivated
<b>(P</b> )	AP hot spot activated	The AP hots pot function is activated
ଲ୍	AP hot spot deactivated	The AP hot spot function is deactivated
(í•	WiFi Client connect success	WiFi Client connect success
<b>()</b>	WiFi Client not connect	WiFi Client not connect
⊕	Connected to the platform	Successfully connected to the Vigilant Evidence Management System
0	Not connected to the platform	Not connected to the Vigilant Evidence Management System
	No storage space	The remaining storage space is insufficient for recording
<b>F</b>	Little storage space	The remaining storage space is less than 10%
<b>C</b>	Evidence upload completed	All evidence in BWC has been uploaded to the platform. No video file in BWC.

100% 🛄 + 80% 🛄 60% 🛄 20% 💼	Battery level	The battery percentage and remaining battery level
00000000	Policeman ID	The policeman ID bound on the BWC
	Keyword identification	Keyword identification activated on the BWC
Storage Low	Storage Low	LCD shows this picture when storage space is less than 10% or 5% or 2% or 1%
Storage Full	Storage Full	LCD shows this picture when storage space is full
Privacy Mode OFF	Privacy Mode OFF	Exiting privacy mode .
Privacy Mode ON	Privacy Mode ON	Entering privacy mode success
A BATTERY LOW	Battery low	LCD shows this picture when battery is less than 60% or 20%
🥼 High Temp	High temperature	If the BWC does not on the dock and the temperature is higher than 55° C it will remind you.
POWER OFF	Power off	BWC power off
POWER ON	Power on	BWC power on
START RECORDING FAILED	Start recording failed	BWC starts recording failed
ENTER STEALTH MODE	Entering stealth mode	BWC enters stealth mode
🔀 UPGRADE FAILED	Upgrade failed	BWC upgrades failed
UPGRADING	Upgrading	BWC is upgrading

### **3. Recording Mode**

The recording mode can be activated on the BWC in an active or passive manner. For the active manner, you can click the record button or press Mark button for 3s to activate the recording mode. For the passive manner, there are multiple trigger modes for different scenarios. When the BWC status is changed to the recording mode, the area on the LCD displaying the policeman ID will display icons indicating the recording mode, and the status light will change accordingly. After the recording mode

is activated, real-time monitoring can be implemented on the platform for the BWC through 4G networks.



#### **Recording status icons:**

Icon	Name	Description
	Manual recording	The recording mode activated by manually pressing the record button
-10-	Keyword recording	The recording mode activated through keyword detection
-3°	Intense movement recording	The recording mode activated through user movement status detection
	MDVR Linkage recording	The recording mode activated through the MDVR linkage
F	Gun drawing recording	The recording mode activated through gun drawing action detection
***	Geo-fence recording	The recording mode activated when the BWC enters a specified area
sos	SOS recording	The recording mode activated by enabling SOS alarms
LIVE	Live view monitoring	Remote real-time monitoring of the onsite situation is implemented on the platform
K.	BWC Linkage recording	The recording mode activated through the other BWC linkage
	Remote instruction recording	The recording mode activated by the instruction of server

### 3.1. Manual Activation

Step 1. Press the record button on the BWC. The recording light turns red, indicating that the recording is successfully activated.



Step 2. When the default recording icon is displayed on the LCD of the BWC (see the following figure) and the BWC produces two short prompt tones, the Vigilant Eye 2.0 starts recording.



Step 3. In the recording mode, the status light is solid red. After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting, which remind the police that the video is in progress. You can use the mobile APP to set whether the BWC has a sound and led light reminder. Please refer to the instructions of Vigilant View.



### 3.2. Keyword Activation

(1) Function Description

In some scenarios where users may not be able to manually activate the recording mode, the BWC can automatically activate the recording by identifying some key words and report the related status alarms to the platform.

### (2) Keyword List

Туре	Keyword
Wake-up word	activate bwc
Control words	start recording
	mute audio
	unmute audio
	Drop the gun
	Shots fired
	Freeze
	Drop your gun
	Keep your hand
	Put your hand
	Get down on the ground
	Shots fired, give me help
	Shots fired, I have been hit
	Shots fired officer down
	Freeze, stand on the way
Alarm words	Freeze or I will shot
	Freeze, don't move
	Drop your gun now
	Drop the gun now
	Keep your hands up where I can see
	Put your hands up where I can see
	Put your hands on the ground
	Put your hands on the wheel
	Keep your hands on your head
	Keep your hands on the lap
	Get down on the ground, don't move
	Get down on the ground, drop it

	Get down on the ground, head down
	Get down on the ground, right now

#### (3) Normal Activation

Step 1. Say the wake-up word "activate bwc" so that the BWC will activate keyword identification. The BWC will produce a prompt tone with a vibration, and the icon for keyword identification is displayed on the LCD. This process of awakening BWC to start keyword recognition is similar to saying: Hey, siri! with your Apple mobile phone.



Step 2. When the icon is displayed, say the control word "start recording" within 3 seconds. The BWC will activate the recording according to the command, and the recording icon overlapped with the keyword identification icon is displayed on the LCD (see the following figure).



Step 3. After the keyword recording is activated, the status light turns from solid green to solid red. In the meantime, the BWC produces 2 short prompt tones with vibrations. After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting.



(4) Emergency Activation

Step 1. Say an alarm word (such as freeze and put your hand). The BWC will automatically identify the command.

Step 2. After the keyword identification is successful, the BWC changes to the recording mode, and the recording icon overlapped with the keyword identification icon is displayed (see the following figure). In this situation, if the BWC is connected to the platform through 4G networks, the alarm status will be reported to the platform.



Step 3. After the keyword recording is activated, the status light turns from solid green to solid red. In the meantime, the BWC produces 2 short prompt tones with vibrations. After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting.



### 3.3. Intense Move Activation

(1) Function Description

To prevent difficulties in forensics in the future due to delayed recording activation in chasing criminals, the BWC will identify intense movements of the user through the movement status identification function, and activate the alarm recording.

(2) Operating Instructions

Step 1. The user starts to chase criminals, and the BWC identifies the user movement status change.

Step 2. The alarm recording is activated, and the recording icon overlapped with the intense movement icon is displayed (see the following figure). In this situation, if the BWC is connected to the platform through 4G networks, the alarm status will be reported to the platform.



Step 3. After the intense movement recording is activated, the status light turns from solid green to solid red. In the meantime, the BWC produces 2 short prompt tones with vibrations. After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting.



### 3.4. MDVR Linkage Activation

(1) Function Description

Law enforcement personnel may encounter emergencies when driving a police car in patrol. In this situation, the linkage recording on the BWC can be remotely activated through the MDVR alarm, as long as the BWC is near the police car and is bound to the MDVR. In this way, the multi-perspective law enforcement scene will be recorded, and the police officers can restore the law enforcement process more completely and comprehensively.

(2) Operating Instructions

Step 1. After the MDVR alarm, remote linkage with nearby BWCs is implemented through Bluetooth.



Step 2. The MDVR activates recording on the BWCs paired with it in the signal coverage (about 10 meters), and the recording icon overlapped with the Bluetooth linkage icon is displayed on the LCD (see the following figure).



Step 3. After the Bluetooth recording is activated, the status light turns from solid green to solid red. In the meantime, the BWC produces 2 short prompt tones with vibrations. Then, a short prompt tone is produced every 5 minutes until the recording is stopped.



#### 3.5. BWC linkage Activation

BWC can linkage surrounding 10m distance BWC recording.

When BWC is activated by BWC, the LCD will show below icon.



### 3.6. Pull Gun Activation

(1) Function Description

When a policeman draw the gun in an emergency during law enforcement, the holster sensor can detect the movement of the gun and send a Bluetooth broadcast.BWC and MDVR within the broadcast range can be linked to open the video.

#### (2) Operating Instructions

Step 1. After police office draw the gun, remote linkage with nearby BWCs is implemented through Bluetooth.



Step 2. BWCs which in the range open the Bluetooth linkage video, the video icon appears in the LCD screen and add the gun alarm icon (shown below)



Step3. When the pull gun alarm video mode is turned on, the status indicator light will change from green to red.At the same time, send 2 short notes with vibration.After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting.

### 3.7. Geo-Fence Activation

(1) Function Description

Law enforcement personnel need to record videos in real time in high-risk areas. To satisfy this need, you can specify high-risk areas on the platform, and implement linkage activation of the geo-fence recording on BWCs. When the law enforcement personnel enter a high-risk area, recording will be activated on the BWC through linkage. When the law enforcement personnel enter a low-risk area, the recording is deactivated. When the law enforcement personnel leaves a high-risk area to a low-risk area, the recording needs to be turned off manually.

(2) Operating Instructions

Step 1. Specify the geo-fence area on the map of the platform (refer to the manual of the Vigilant Evidence Management System).

Step 2. Enable the related functions of geo-fence for the BWC on the IE browser (refer to the description about configurations in the IE browser ).

Step 3. The user wears a BWC and enters the specified geo-fence area.



Step 4. The geo-fence alarm recording is activated, and the recording icon overlapped with the geo-fence icon is displayed on the LCD (see the following figure).



Step 5. After the geo-fence recording is activated, the status light turns from solid green to solid red. In the meantime, the BWC produces 2 short prompt tones with vibrations. After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting.



### 3.8. SOS Activation

(1) Function Description

During law enforcement, the law enforcement personnel may encounter emergencies in which the personnel need assistance from the platform. In this situation, the BWC can send alarms with the SOS identifier to the platform through 4G/WiFi networks and activate real-time streaming for the platform, so that manual intervention such as remote command can be carried out through the platform.

(2) Operating Instructions

Step 1. Press and hold the Mark button of the BWC.



Step 2. The SOS alarm recording is activated, and the recording icon overlapped with the SOS icon is displayed on the LCD (see the following figure).



Step 3. After the SOS recording is activated, the status light turns from solid green to solid red. In the meantime, the BWC produces 2 short prompt tones with vibrations. After opening the recording, there will be a short sound prompt with vibration periodic according to the video reminder setting.



Notice: Without 4G/wifi network, after SOS alarm is turned on, only video recording can be turned on, not linkage with the platform.

### 3.9. Live View Monitoring

(1) Function Description

After the recording mode is activated on the BWC, the platform can remotely communicate with the BWC through 4G networks, and monitor the live view through the BWC camera in real time.

(2) Linkage Mode

Step 1. The user activates the recording mode using any method. The BWC will report alarms and upload the positioning information to the platform through 4G networks.

Step 2. After receiving the alarms, specify the BWC for linkage, and then monitor the user's current environment in real time.

Step 3. The status light on the linked BWC turns from solid red to blinking red (flashing until the realtime monitoring ends), and a short prompt tone is produced, indicating the monitoring is started.



Step 4. A "LIVE" icon is displayed on the left side of the LCD, as shown in the following figure. This icon will be displayed until the platform monitoring or BWC recording is stopped.



### 3.10. Muting in Recording

In the law enforcement process, there are some scenarios where personal privacy needs to be protected. In such scenarios, you can manually activate the muted recording on the BWC to protect the privacy of the law enforcement personnel or the object of law enforcement.

#### 3.10.1. Manual Activation/Deactivation

Step 1. After the recording mode is activated, the audio recording function is activated by default. In this situation, the unmute icon is displayed on the right side of the recording icon (see the following figure).



Step 2. Double-press the FN button on the side of the BWC.



Step 3. The status light turns from solid red to solid yellow. The unmute icon is changed to the mute icon on the LCD (see the following figure), indicating that the audio is successfully muted for the recording. The status light remains solid yellow until the muted status is released.



Step 4. To unmute during the recording, repeat step 2 to double-press the FN button. After a short prompt tone is produced and the mute icon is changed to the unmute icon on the LCD (see the following figure), the audio recording is restored.



Note: You can also identify the mute status according to the status light. Solid yellow indicates the mute status, and solid red indicates the unmute status.

#### 3.10.2. Keyword Activation/Deactivation

#### **Mute Activation**

Step 1. Say the wake-up word "activate bwc" in the recording mode so that the BWC will start keyword identification according to the command and produce a short prompt tone.

Step 2. After the prompt tone is produced, say the word "mute audio" within 3 seconds. The BWC will mute the audio in the recording according to the command.

Step 3. The audio recording status icon will change to the mute icon on the LCD (see the following figure), and the status light turns from solid red to solid yellow.



#### **Mute Deactivation**

Step 1. Say the wake-up word "activate bwc" in the recording mode so that the BWC will start keyword identification according to the command and produce a short prompt tone.

Step 2. After the prompt tone is produced, say the word "unmute audio" within 3 seconds. The BWC will unmute the audio in the recording according to the command.

Step 3. The audio recording status icon will change to the mute icon on the LCD (see the following figure), and the status light turns from solid yellow to solid red.



#### 3.11. Recording Marking

In the recording mode, press the MARK button of the BWC to mark particular time points for the videos. Also, when the BWC activates the alarm, it starts to mark automatically. Marking is convenient for the extraction of relevant evidence.



### **3.12. Stopping Recording**

#### 3.12.1. Manually Stopping Recording

Step 1. Press and hold the record button.



Step 2. Check the BWC LCD. The recording is deactivated and the BWC enters the standby mode in the following scenario: the recording icon and recording status icon disappear and the policeman ID appears, the status light turns from solid red to solid green, and the BWC produces a long prompt tone.

### 3.13. Start Recording Failed

If, there is an abnormal situation in which recording mode cannot be started, and the following text

prompt appears in the LCD screen of BWC, you can try to reset the BWC (reference chapter 13 resetting), if still cannot solve the problem please get the running log of BWC(reference to chapter BWC Configuration 5. <u>BWC Log</u>) and contact technical support.

START RECORDING FAILED

### 4. Stealth Mode

(1) Function Description

In some scenarios, stealth is required in law enforcement. The law enforcement personnel can activate the stealth mode to prevent self-exposure due to sound and light indications on the BWC. In the stealth mode, the LCD, prompt tone, status light, and recording light are turned off, but there are vibrations when recording is turned on or off.

(2) Operating Instructions

Step 1. Press the FN and MARK buttons at the same time and wait for the BWC to enter the stealth mode.



Step 2. When **ENTER STEALTH MODE** is displayed on the LCD, wait for 5 seconds until the notification disappears. The BWC enters stealth mode.



Step 3. To restore the standby mode, repeat step 1 to press the FN and MARK buttons at the same time and wait until the LCD restores the display. Then the BWC changes from the stealth mode back to the standby mode or recording mode.

### 5. Privacy Mode

When police officers are in the changing room or other private areas, they can enter Privacy Mode. After enabling Privacy Mode, BWC will not be linked by other devices for recording, and will turn off automatic recording, such as AI. For specific configuration parameters refer to '6.1.3.3 Button Settings'.

Press FN + Power button to ON/OFF Privacy Mode:



### 6. Battery

### 6.1. Charging the Battery

#### 6.1.1. Charging strategy

- (1) Battery temperature less than 0 °C do not charge;.
- (2)Battery temperature at 0°C-15.0°C, charge with 800mA 4.35V
- (3)Battery temperature at 15.1°C-41.5°C, charge with 1.6A 4.35V
- (4)Battery temperature at 41.6°C-47.0°C, charge with 1.0A 4.35V

(5)If the battery temperature exceeds 47.0 °C, stop charging, then when the battery temperature drops to 41.5 °C, charge with 1.0A 4.35V

#### 6.1.2. Charging on a Dock

The single-slot dock is usually equipped on a police car and supports charging and data upload for a single BWC.



#### **Operating Instructions**

Step 1. Ensure that the dock is powered on. The status light of a powered dock is blue (see the following figure).



Step 2. Insert the BWC vertically into the dock. The dock status light turns red, and the dock is successfully connected to the BWC (see the following figure).



Step 3. When a BWC is not fully charged yet, the status light on BWC is blinking. After the BWC is fully charged, the status light on BWC turns solid.



Step 4: Insert the battery into the dock. The battery light of the dock turns red or green. (If the battery is not fully charged yet, the battery light is red. If the battery is fully charged, the battery light is green. The following figure shows that the battery is fully charged and the battery light is green.)



#### **Charging Status**

If there is no video evidence that needs to be uploaded from the BWC, the dock only charges the BWC, and only the status bar and policeman ID are displayed on the LCD of the BWC (see the following figure).



#### 6.1.3. Charging on a Station [Need to update pic]

The Station is usually equipped in the police Station and supports the charging and data upload for multiple BWCs.



#### **Operating Instructions**

Step 1. Ensure that the Station is powered on. The status light of a powered Station is blue (see the following figure).



Step 2. Insert the BWC vertically into the Station. The BWC light on the Station turns red, indicating the connection is successful (the light indications are the same as the dock).



Step 3. Insert the battery into the Station. The battery light of the Station turns red or green. (If the battery is not fully charged yet, the battery light is red. If the battery is fully charged, the battery light is green. The following figure shows that the battery is fully charged and the battery light is green.)



#### 6.2. Taking out the Battery

Take out the battery from the BWC according to the operations in the following figures.



Note: When take out the battery, you need to pull the sticker to the left side, but not upwards.

#### 6.3. Put battery into BWC

Step 1: When put battery into BWC, placing the left side of the battery into the battery compartment so that the gold fingers are flush with the pins. Then press the right side of the battery into the battery compartment.

Step 2: After inserting the upper battery cover protrusion against the groove, press the lower battery cover.

Step 3: Press the corner of the battery cover to ensure the IP level.

#### 6.4. High temperature protection

Charging protection:

The BWC is going to stop charging when the temperature is higher than 47°C. When the temperature drops below 47 °C, BWC will resume charging.

High temperature icon is displayed on BWC LCD:



Discharging protection:

If the BWC temperature is between 55° C - 60°C, it will remind you every 5 minutes (Beep and LCD). If the BWC temperature is > 60°C, it will remind you first, then stop recording and shut down.

High temperature reminder is displayed on BWC LCD:



### 6.5. Low Battery Level

When the battery level is lower than 20%, **BATTERY LOW** is displayed on the LCD of the BWC (see the following figure), and short prompt tone are produced to remind the user that the BWC is of low battery level and needs to be charged. The prompt will appear each time when the battery level drops by 5% until the BWC is charged or is powered off due to insufficient power.



#### Battery status displayed on the LCD

Status Icon	Description
100%	Fully charged (100%)
77% 🎹	Sufficient power (99%-70%)
60% 🛄	Moderate power (69%-30%)
20% 🌉	Low power (29%-1%)
0%	Empty battery holder 0%

Note: When the BWC is charged, a lightning icon is displayed on the right side of the battery icon:



#### 6.6. Backup battery

#### 6.6.1. Battery switch

When the main battery of BWC is removed, BWC will automatically switch to the backup battery for power supply. If the backup battery has insufficient power, BWC will shut down automatically when main battery removed.

To protect the backup battery, BWC cannot be powered on when the main battery is not inserted.

#### 6.6.2. RTC

The backup battery is dedicated to powering the RTC chip. Once the backup battery runs low on power, it will cause the device's time to be abnormal. Therefore, please charge the device in a timely manner to ensure that the backup battery always has sufficient power.

### 7. View and Edit on the App

Users can log in BWC through Vigilant View APP. To play back, edit and set the Vigilant eye. (See the Vigilant View user manual for details).

### 8. Evidence Upload

#### **Operating Instructions**

Note: The dock or station must be connected to the Router to get the IP address and access the network.

Step 1. Ensure that the dock is powered on. The status light of a powered dock is blue (see the following figure).



Step 2. Insert the BWC vertically into the dock (see the following figure). The dock status light turns

red, and the dock is successfully connected to the BWC.



Step 3. If there is video evidence in the BWC needing to be uploaded and synchronized to the platform, the dock can upload the data automatically, and the status bar and upload progress are displayed on the LCD (see the following figure).



Step 4. When all evidence in BWC has been uploaded to the platform, The LCD will show this icon

 $(\Box a)$  to remind the police that all evidence has been uploaded to the platform.

### 9. Vehicle Binding

Each BWC can be bound to a police car. You can place the BWC close to the NFC area of the MDVR for automatic pairing and binding between the BWC and the vehicle. After the BWC is bound, linkage operations such as evidence merge and linkage recording activation (for details, see the MDVR manual).

#### 9.1. Binding

Step 1. Place the BWC close(0-2cm) to the NFC area of the MDVR as shown below. The MDVR will automatically identify the BWC nearby.

Note:BWC NFC is under the X logo. MDVR NFC reader is under the button.


Step 2. If the MDVR successfully binds the BWC, the license plate number of the vehicle on which the MDVR is installed is displayed on the LCD of the BWC (see the following picture).



Step 3. The standby status is restored and displayed on the LCD of the BWC after 5 seconds.

Note: The BWC can be bound to the MDVR of any police car, but one BWC can only be bound to one MDVR at a time. When you need to change the binding relationship from the last MDVR to the new MDVR, you don't need to release through the APP. You just place the BWC close to the NFC area of the new MDVR. The binding relationship will automatically change from the last MDVR to the new MDVR.

### 9.2. Unbinding

Double click FN + Mark button to unbind:



Or unbind by APP: Vigilant View.

### **10. Policeman Binding**

Step 1. Register the policeman account on the Vigilant Evidence Management System, and specify key information such as the policeman name and ID (for details, see the user manual of the Vigilant Evidence Management System).

Step 2. Specify the policeman ID on the BWC.

Open the browser, log in to the Vigilant Eye configuration interface by following the steps (see the description about configurations in the IE browser). Enter the configuration menu, click Basic Info on the left pane to switch the interface on the right pane. Then specify the policeman ID and policeman name in the area enclosed in the red box, and click Save.

Vigilant	Eyro:	H Playback	C Live View	Maintenance	📖 log	🛱 Conig			G
O Time Setap			•	evice Info OMS ID Device ID	a03 0	4000134			
User Setap     Cher Setap     Cher Setap     Monorit     Monorit     Monorit     Monorit     Monorit     Data Setap			P	olice Register into Paisa ID Passeard Contim Passwort Paise Name	81 •• •8	mam110 ++ ++		mep 7	
Aurm							0	etuit Save 🗕	

Note: The ID and name on the BWC must be consistent with those registered on the platform so that the policeman can be bound. (Please refer to Vigilant Eye Management System User Manual

for the binding setup on platform)

Step 3. Connect the BWC to the network by inserting it into a dock or station (refer to section 6.2 Charging the Battery) or through 4G signals so that the BWC connects to the Vigilant Evidence Management System.

Step 4. The platform automatically implements binding based on the policeman information in the BWC. Then the BWC is displayed on the right pane of the platform main page indicating that the BWC is online. Police officers can also judge whether BWC has successfully connected to the server through

the icon () displayed on the LCD. The binding is successful.

Note: One BWC can be bound to one and only one policeman at a time.

### 11. Storage Status

(1) Function Description

The videos recorded on the BWC need to be uploaded through the dock for evidence backup and archive (see section 6.2.1. Charging on a Dock). Due to storage limitations, the uploaded video data will be overwritten for subsequently recorded video evidence. If the data is not uploaded for a long time and the storage space is full, recording cannot be activated or the video cannot be completely recorded, hampering evidence collection. To prevent such inconveniences, the BWC will prompt notifications on the LCD when it is in standby mode, in order to notify the user that storage space is insufficient and prompt evidence upload is needed.

(2) Insufficient Storage Space

When the storage space is insufficient, an icon indicating that the SD card is about to be full on the right side of the policeman ID on the LCD of the BWC. (The icon is shown in the following figure.)



You can still activate the recording mode on the BWC, but you may fail to record complete videos. In this situation, you need to upload evidence promptly so that you can have more storage space for video

recording.

(3) No Storage Space

When the BWC has no storage space, an icon indicating that the SD card is full is displayed on the right side of the policeman ID on the LCD of the BWC. (The icon is shown in the following figure.)



Then you need to upload the evidence before you can record videos on the BWC.

## 12. SIM Card

1. When the BWC plugin to the station/dock/type-c adapter charger, the 4G module will be disable, the module status will be: Off.

Cellular Network	Module Status	or	
	SIM Card Status	Not Available	
WIFI Network	Connection Status	WIFI Disabled	
	Signal	<b>\$</b>	
	IP Address	0.0.00	
	MAC Address	00.00.00.00.00.00	
CIPS Signal	Module Status	No Location Data	
	Location Source	GPS	
	GPS Satellites		
	Direction		
	Speed	OMPH	

2. The 4G will only work when pull out the BWC from the station/dock/type-c adapter charger, the module status will be: On.

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	Signal .	1 August
	Connection Distan	Press and a second s
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3. You can check the 4G connection by the LCD:

Icon	Name	Description
.al	4G connection signals	Able to search for and connect to 4G signals
	No 4G connection	Unable to search for 4G signals (No SIM card, SIM is broken)

Note: SIM card supports hot swapping, which takes effect within 3 minutes after plugging and unplugging.

### 13. Resetting

Press and long hold the power button for 10s or press reset button within the battery hold for resetting. Resetting supports the BWC hardware reboot, resetting user configuration is not included.

Step 1. Open the rear cover of the BWC and take out the battery.



Step 3. Use the screwdriver or pen to press on the reset button or press and hold on the button for resetting (Resetting can only achieve the BWC hardware reset, modifying relevant parameters is not supported).



Step 4. After the reset, press the power button to restart the BWC.

### 14. Power Off

Press and hold the power button for 3 seconds. When **POWER OFF** is displayed on the LCD, the BWC is powering off. Wait until the text disappears. The BWC is powered off.



Note: If BWC is recording, it will not POWER OFF, but if you press and hold for 10 seconds, it will reset.

# **BWC Configuration**

### 1. Login page

Step 1. Power on the dock or station. When you see that the station status light is on, the blue light indicates that the station has been powered on successfully

Step2. Connect the station to the Router through the network cable. When the light on the left side of the network port blinking green light, the station is connected to the network.



Note: The station need to be connected to the Router since the BWC is under DHCP mode, need the Router to assign the IP to BWC.

Step 3. Install the BWC battery and insert it into the dock or station.



Step 4. After BWC inserting the station or Dock, BWC will automatically obtain the IP address assigned by the router (DHCP mode). After successful acquisition, it will display the IP on the LCD screen (as shown in the figure below) for 5 seconds.



Step 5. Open the browser(Chrome \ Edge \ Firefox \ Safari) and enter the BWC IP address.



Step 6. After the above processes are completed, you can log in to BWC configuration for the first time. Enter the administrator user name and password (the default administrator user name and password are "admin", and it is recommended to use the administrator account for subsequent operations. If you use an normal user account, some functions may not be available). Check the auto login option, and the login step will be skipped automatically next time. Click the login key at the bottom right to log in to the account.

Language English *
User Name: editors
Password •••••
Auto Login Logi

Step 7. When you see the following window, BWC configuration login succeeds.



## 2. Playback Page

Choose the Playback:



### 2.1. Backup video

Step 1: Select the date for which video playback is required. The green color is the date for which video is available, and the background color is the date for which no video is available. After selected, the date has a yellow box;

Step 2: Select a time period and Click search;

Step 3: Click the Download button to download videos local

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### 2.2. Playback

Step 1: Click Playback button switch to playback page

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Step 2: Playback



## 3. Live View Page

Click Live View page to view live video



### 4. Maintenance Page

The Maintenance page includes version information, device modules, storage devices, and basic information

### 4.1. Version Info

### 4.1.1. Module Version

Displays BWC firmware Version / Algorithm Version / 4G Firmware version

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		Assessed Factors		and and
		Term Distant		Tree I

### 4.1.2. Upgrade

Select the upgrade package then click upgrade button.

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During the upgrade, do not disconnect the power source from the BWC, which can cause upgrade interruption.

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During upgrade, the BWC LCD screen displays UPGRADING as the following figure.



After succeeded upgrade, the following prompt is displayed in the window.



Note: BWC supports to upgrade 4G modules on the dock, but limited to browser direct connection to BWC.

### 4.1.3. Parameters configuration file Import and Export

Export :

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### 4.1.4. Restore factory settings

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### 4.2. Device Module Status

Displays the status of Cellular / WiFi / GPS module

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### 4.3. Storage Status

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Server Status								

- Capacity: Remaining space and total space
- Status: Display SD status
- Format: Support formatting SD card

### 4.4. Server Status

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Note: The server is configured in 'Device Setup => Network => Server settings'

## 5. Log Page

(1) Log types include alarm logs, operation logs, and lock logs

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(2) When something wrong and R&D needs to provide BWC running log, please input the "BWC IP/logs/".

Download the log of the day when the prolem occured to us(as shown below).

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mark list, json mark listBak n9m0.hdf n9m3.hdf n9m4.hdf startus timeshifttask			01-Jan-1970 08:00 01-Jan-1970 08:00 01-Jan-1970 08:00 01-Jan-1970 08:00 01-Jan-1970 08:00 01-Jan-1970 08:00 01-Jan-1970 08:00	24 24 8256 5184 26688 480 296280	

## 6. Configuration Page

### 6.1. Device Setup

Step 1. Go to the Configuration page.

Step 2. Go to Device Setup

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Cevice Selap 🛛 🕘								
				Denice Information				
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6.1.1. User

Step 1. Input the officer information.

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Note: The Police ID must be the same as the one when you register the officer on the VEMS, otherwise this BWC will no connect to the VEMS.

The password and ID here can be used to login the officer APP and login page in browser.

Step 2. Finish config, Save

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#### 6.1.2. Date and Time

#### 6.1.2.1. General setting

You can set the time format, time system, and time zone.

	The second second second	n lanta Teo		
	Statistics of the second	- Managaran		
Come 1	Continue -	In the second		
	and the second	Carl of Burnard Directory	(Interneting)	
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### 6.1.2.2. Time Sync

You can synchronize time manually or automatically.

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### 6.1.2.3. Daylight Saving Time

Configure the DST

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### 6.1.3. Control

### 6.1.3.1. LCD Settings

BWC LCD light off time set up.

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### 6.1.3.2. Battery Settings

Long term charging on the dock has an impact on battery life, so you can set the maximum charging time to automatically shut down and no longer charge.

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Low Power Mode is used to testing the BWC battery life time.

When enable the energy saving mode, besides the recording feature will be available, all of other module/functions will be disable. Including:

- Disable 4G
- Disable WIFI
- Disable BT
- Disable GPS
- Disable LED
- Disable Speech Recognition
- Disable beeping
- Disable vibration
- Disable stealth mode

• LCD turn off after 5s

101	Brees 1	Jartin B	Sector 1	<b>B</b> 140	(Column)			
• • • • • • • • •						>		
							initi niti	

Custom Mode supports that modules are disabled or enabled, the disabled modules are never launched.

View BWC	📑 Playback 💭 Live Vew 🔜 Maintenance 🔚 Log 👙 Configuration	C
Devendento 👻		
O User	LCD Ballery LED Ballon	
O Date & Time		
(Common	Charging Protection 7 (5-30)Clays 9	
A Users	Wode Select	
🛞 Logo	Default Mode	
P Network	Law Power Mode 7	
• UHL	🕒 🔹 Custom Mode 👘	
Video Getup 🛛 😵		
Aum 6	Custom Mode Settings UVFLand ST LED Voice Note: Reduction GatS 4G	
	Contract Store	

### 6.1.3.3. Button Settings

### 6.1.3.4. Privacy Mode

Quick Click FN+Power button to turn on / off the Privacy Mode



The Privacy Mode supports configure the linkage of Alarm types,

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Automatically exit configuration :

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- Enable: automatically exit after exceeding the set duration
- Disable: never automatically exit, must press FN+Power button to exit

The Privacy Mode will be off:

- Plugging into dock for charging
- Restarting

### 6.1.3.5. Power on and record

If the Power On and Record feature is enabled, the BWC will power on and start recording when you click the record button while it is in the shutdown state.

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### 6.1.3.6. LED Settings

Users can customize the LED status of BWC in various states:

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### 6.1.4. Users setting

All user's passwords can be changed here

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- admin: The highest authority user
- administrator: Same permissions as admin user, but without logo setting permission
- user: The user with the least privilege that no Config page permission and Maintenance page permission

### 6.1.5. Logo Setup

On the Logo setup, can manually import the logo below.



For the logo pic please refer this document to create:



LE solution Logo customization.dc

After import the OSD logo to the BWC, remember to enable the OSD:

If still no display, please clear the page cache and restart the browser



#### 6.1.6. Network setting

### 6.1.6.1. Local network

You can set DHCP and fixed IP address modes (DHCP is the default for BWC).

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### BWC should be DHCP.

### 6.1.6.2. WIFI network

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BWC provides 2 WiFi config.you can set WiFi ESSID and Password.

You can set the priority of WiFi.Between WiFi 1 and WiFi 2 you can only set one priority WiFi.The BWC will connect to the WiFi which has the priority when there have both two WiFi.

### 6.1.6.3. Cellular Module

You can use the default parameters, which do not need to be modified under normal circumstances.

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6.1.6.4. Server Setup

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O Liter				Local	100	Criterio	Server 1	interge	]			
C Date and Time												
Contexts				Sener 1								
A Users				Adles								
B Lago				Perine	e Tape							
🖤 Network												
O Unit				1040								
Viteo tintago 🔍 🤇				Tradie	Notestat			ARMA	tation			
Alarm <				Registe	r berver P							
				Regard	r berver part							
				Media 1	leavel IP							
				Media 1	herver port							
								1.9				
											Save	

One BWC can only connect to one VEMS.

The protocol type should be N9M

IP:VEMS server IP

Register server IP default is: 21083

Media server IP default is: 21093

### 6.1.7. Unit setting

Support modifying temperature units

100	Bound	C invites	C Martiness	100	S interior		
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						-	-

## 6.2. Video Setup

#### 6.2.1. Main stream

100	Bretet	Q (44.948)	E farment	Mine B	( Columbia			
				3 		terret for		
1								-

You can set resolution, frame rate, picture quality, encoding format, encoding mode, audio mode. You can enable or disable video prerecording.

#### 6.2.2. Record OSD

ViallantEye	El Pagenta 🔍	Live View	Maintonance	III kg	문 Config	6
Their Setup						
	Man Street Reco	10050 N	etwork Street			
500	8					
Date Setas	Time		Police Ba	eed :		
Awre 6	Pice ID		025			
	Police Name		Alem			
	Parlan		Serie :			
					Default	ter:

Support two different OSD:

Integrate with video frame: The OSD will keep already display on the video, can't hide.

Separate from the video frame: OSD will no show when playback on the browser, and can choose to show or hide the OSD when playback the video from VEMS.

880	Playtank	Line Vere	nance 🔠 Log	호 Configura	ation		
Oeske Belap							
Viteo tetup			Mateiran Record 05	D Recording 1	Terminder		
· Ferreri							
Aism			0.60 8886				
			😒 Tana			RVIC Serial Humber	
			🔁 User ID			🔀 GPS	
			Agency/Dept Name			🕑 User Name	
			Logo				
			OIS Pusition				
			245g				
			010 904				
			· Integration with values	tare .			
			Deparate from the vid	eo frane			
							Oxfood Save

Can choose the OSD position on the image.

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-			Red	ord OSOPosition				
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Alen		Protect Name						
		Avera publica						
							1997	
			Definal	(Second	:01			

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Remember to click the Save.

### 6.2.3. Record Remind

First Reminder:

View BWC	Playbaci	Live View	Maintenance:	E Log	E Configuration		C
Device Setup							
	•	Main Stream Record	e OSO Recording P	terninden			
Alarm	6	Beep & Vibration					
		Recording Reminder		90	(1-3600)Second		
		Remarker Delay 7		300	(1-3600)Second		
					Detailt	Dave	

Continuous reminder interval time:

View BWC		🚼 Playback	Live V	ńew 📰 M	laintenance	Log	E Configuration		C
Device Setup	¢								
			Main Stream	Record OSD	Recording Remin	der			
Alarm			Beep & Vibra	tion					
			Recording R	ominder		30	(1-3600)Second		
			Reminder D	elay 📍		300	(1-3600)Second		
							Default	Save	

### 6.3. Alarm settings

#### 6.3.1. Record Button Alarm

When the user press the BWC record button can trigger the alarm.

Vigilanti	'yee	Playback	Che Vew	Maintenance	🔲 tog	氯 Config			(	C
Basic Sellap										
Wee Setup				Record Bullion 1	funic D	05Alam Pull Gan	lem .			
Data Setap										
				Name	Teatle	Alarm Type	Nigger	Linkage		
				Recettlation		Ann	• Selar	Salay		
C Alverent										
& Aller										
							Default	Sam		

User can setup one click activate recording or double click to activate by "Trigger" setup:

<b>6</b>	Record Button Trigger			
Trigger	Click	*		
	Cla			Linkage
	Double Click	4 F		Setup
			Detault	Save

Linkage Setup:

	Brates	D ter fee	E Merriser 1	Rive Street	-		
177 Å				and and and a			-
0			R.	Homesing Cores International Cores International Cores			
					tane .	-	

- Prerecording: can set prerecording duration and type. (must enable prerecording on the Record page firstly)
- Linkage other devices: linkage BWC and MDVR

### 6.3.2. Linkage Alarm

MDVR linkage Alarm: MDVR alarm can linkage this BWC recording

BWC linkage Alarm: BWC can linage this BWC recording.

Aecord Button	Linkage Alarm	SOS Alarm	Gun Drawing Alarm Re	mole Activate	
	ame	Enable	Alarm Type		Linkage
MOVEL	kage Alarm		Alam //	) B	Setup
8WC Lin	kage Alarm				Setup
				Defa	ut Save

#### 6.3.3. SOS Alarm

Vigilanti	Eyre 🗄 Paytax	Live Vew	Materiarce	🔳 Lag	St Config					C)
Basic Setup									-	
More Sultap			ReadBates	Paric 5	05 Airm Pull G	er Aleren				
Dets Setup										
O feet			Terr I	Contract of	Alarm Type		1 Apper	Linkape		
C Advanced							~			
& ninge										
							Oxford	See		
			_							
1										-11
		SO	S Alarm Ala	m Linka	gei					
0.000										
	Pre-recording	3	0 Sec		263					
1.1	Pre-recording Co	rding Content							Linkage	
			μιν Απαια						Succession 1	
		9	The Audio						Setup	
			brity Video							
			ludic And Vid	90						
_					- 2000					
								Default	Save	
<u></u>										- 11

### 6.3.4. Gun Drawing Alarm

Need the G1 sensor to work with BWC to trigger the Gun drawing alarm.

#### 6.3.5. Remote Activate

This feature no support yet on VEMS.

Record Button	Unkage Alarm	SOS Alarm	Gun Drawing Alarm	Remote Activate	
Na	me	Enable	Alarm Ty	(pet	Linkage
Remote Activate			Alam	88.U	Setup
				Def	ault Save

#### 6.3.6. Intense Movement Alarm

101	Brates	C Les Her	B the boats	CON Log	St. Configuration				
- 0				-	-	free fam	-	-	-
8.4				*****					
									-

Support to choose the sensitivity: Low or High.

		Playback L	Live Vie	w 📑 Maintere	ance	Log	E Config	
Basic Sirtup.	*	in the second se						
Video Sidup	÷	Interse Move Alarm						
Data Setup	÷.							
	*	Name	Enable	Alarm Type		Tripper	Linkage	
O thee		Intense Move Alarm		Alam		Setup	Setup	
C. and the second	6 (	X-0.012 Y-0	007.7.0.4	é.				
ALADD				~				
		Inte	nse Move	Alarm Trigger				
	sens	stive low 🗸	Ē				Save	
		Ca	ncei	OK				

#### 6.3.7. Geofence Alarm

Automatically start recording when entering the fence:

8960	Flayback	Une View	Si Manto	arce	📰 Log	Set Configuration
Ornics Schip						
Video Selego				minne Mover	ment Marro	Geotores
O test			г	Ana K	0.Alarm Switch	
<b>A</b> ==						
						Detail Date

Note: The fence needs to be configured on VEMS. After configuration, it will be automatically sent to BWC.

#### 6.3.8. AI Alarm

BWC will detect below voice and activate the recording automatically:

- 01 Shots fired, give me help
- 02 Shots fired I have been hit
- 03 Shots fired officer down
- 04 Freeze, stand on the way
- 05 Freeze or I will shot
- 06 Freeze, don't move
- 07 Drop your gun now
- 08 Drop the gun now
- 09 Drop the gun
- 10 Drop your gun
- 11 Keep your hands up where I can see
- 12 Put your hands up where I can see
- 13 Put your hands on the ground
- 14 Put your hands on the wheel
- 15 Keep your hands on your head
- 16 Keep your hands on the lap
- 17 Get down on the ground, don't move
## <u>Streamax</u>

## 18 Get down on the ground, drop it

And Server 1	[[00]]				
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O states					
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## 7. FCC warning

Federal Communication Commission Interference Statement

## FCC ID: 2AM6L-BWC2

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.

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 of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Radiation Exposure Statement:

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless device employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions (10mm) accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands.

To maintain compliance with radio frequency exposure guidelines and limits, keep the Vigilant Eye at least 10 mm away from your body. When you carry the Vigilant Eye on your body, use only accessories equipped with an integrated belt clip that are supplied or approved by the manufacturer. If you use a body-worn accessory not supplied by the manufacturer, verify that the accessory does not contain metal and keep the Vigilant Eye at least 0 mm from your body.