

AP1 CONFIGURATION TOOL GUIDE v4.0

*A jumpstart to
video telematics
configuration*



Table of Contents

1.0	Welcome to your AP1 Configuration Guide	3
2.0	AP1 Configuration Tool Installation	4
2.1	Downloading & Installing Your Configuration Tool.....	4
3.0	AP1 Configuration Tool Layout & Settings	5
3.1	ADAS Event Definitions	6
4.0	Configuring Your Device.....	8
4.1	How to Configure Device/Vehicle Tab	8
4.2	How to Configure Record Tab.....	13
4.4	How to Configure Event Tab.....	17
4.4.1	Event Table	18
4.4.2	Event Settings	19
4.5	How to Configure Connectivity Tab	25
4.6	How to Configure Server Tab.....	28
4.7	How to Configure Information Tab	31
4.8	How to Configure G-Sensor Tab.....	34
5.0	Finishing Up/Support	38
5.1	Support Information	38

Introduction

1.0 Welcome to your AP1 Configuration Guide

This guide aims to inform end-users of the proper processes involved in setting up your SmartWitness AP1 device.

While the AP1 Configuration Guide gives you a step-by-step walkthrough of each function within the Configuration Tool, the preferred configuration method remains the AP1 Calibration Tool (available on iOS and Android).

This step-by-step walkthrough will act as your teacher as you learn our product's layout, functionality, and configuration settings.

You can find an overview of the configuration tool's layout in [section 3.0](#).

The fastest way to find information in this document is through the Table of Contents.

We hope that this tutorial will be sufficient in removing common end-user pain points involved with the setup process. If you experience any issues with this guide, please lend us your feedback and/or contact our [support](#) teams.

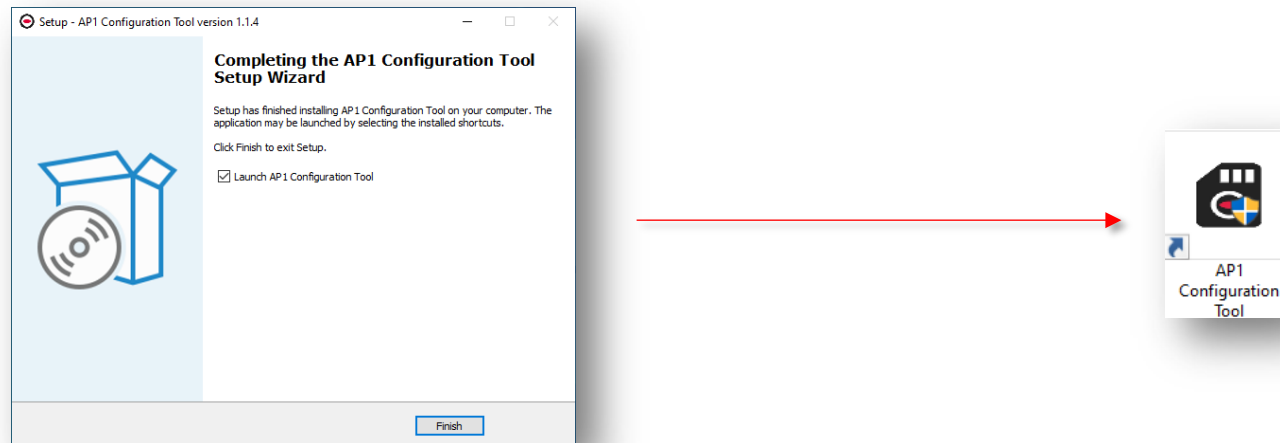
AP1 Download & Installation

2.0 AP1 Configuration Tool Installation

Goal: Locate and install your configuration wizard

2.1 Downloading & Installing Your Configuration Tool

Download configuration software [HERE](#).



1. After download, continue to installation.
2. Open the configuration tool, and insert your SD Card.
3. Click **Initialize SD Card**.
4. Select **SD Card** from your preferred internet browser.
5. Click **Start** to initialize.

Note: The maximum size supported for your SD card is 128 GB.

AP1 Configuration Tool Layout

3.0 AP1 Configuration Tool Layout & Settings

Goal: Understand your tool's main features

The screenshot shows the AP1 Configuration Tool window with the following components and callouts:

- Settings Tabs:** A row of tabs at the top: Device/Vehicle, Record, Event, Connectivity, Server, Information, and G-Sensor. A callout states: "Settings Tabs designate major areas of configuration".
- Record Section:**
 - Mode:** A dropdown menu set to "Continuous+Event".
 - Continuous/Event Slider:** A slider between "Continuous" (70) and "Event" (30). A callout points to the "Event" value: "Some settings sub-fields use drop-down selection".
 - Pre Event Record:** A dropdown set to "10" sec.
 - Post Event Record:** A dropdown set to "10" sec. A callout points to this field: "Some settings sub-fields use text fields".
 - Checkboxes:** "Record Audio" (checked), "Overwrite Recordings when SD is Full" (checked), and "Parking Mode" (unchecked). A callout points to these: "Some settings sub-fields use checkboxes".
 - Video Quality:** A dropdown set to "720P HIGH".
 - Video FPS:** A dropdown set to "30".
- DRV Section:**
 - Record DRV:** A checked checkbox.
 - Overwrite DRV Data:** A checked checkbox.
- Misc. Section:** Contains a "####" text field. A callout points to it: "Click 'Initialize SD Card' to prepare SD card".
- Buttons:** "About", "Settings", "Initialize SD Card", "Open", "Save", and "Eject SD Card".
 - Callout for "About": "Click 'About' to see configuration tool version information".
 - Callout for "Settings": "Click 'Settings' to change the language and systems of measurement".
 - Callout for "Open": "Click 'Open' to load a previously saved configuration".
 - Callout for "Save": "Click 'Save' after each settings tab configuration".
 - Callout for "Eject SD Card": "Click 'Eject SD Card' at the end of the configuration process".

ADAS Event Definitions

3.1 ADAS Event Definitions

To better understand the settings and functions of **ADAS** (Advanced Driver Assistance Systems) events in the [Event](#) tab, please see the definitions below.

Note: Sensitivity settings are on a scale of 1 – 5, 1 being the lowest and 5 being the highest.

Event Type	Event Definition	Sensitivity Setting
FCW	Forward Collision W arning - Detects an imminent collision with something ahead.	The <i>higher</i> the sensitivity , the <i>earlier</i> the alert arrives before a possible collision.
FPW	Forward Proximity W arning - Something is in forward proximity, and an imminent collision with your vehicle is possible at low speeds.	The <i>higher</i> the sensitivity , the <i>greater</i> the distance is that you're alerted before a potential collision.
HMW	Headway Monitoring & W arning - Monitors distance to the vehicle ahead at higher speeds. Also referred to as "Tailgating."	The higher the sensitivity , the <i>earlier</i> you're alerted for breaching an unsafe distance to the vehicle ahead.
FVSA	Forward Vehicle S tart A lert - Vehicles in front of you begin to move while your vehicle remains stopped.	The <i>higher</i> the sensitivity , the <i>more</i> time you have before you're alerted that the vehicle in front of you moved.
LDW	Lane D eparture W arning - Your vehicle crosses a solid lane line on either side of the road.	The <i>higher</i> the sensitivity , the <i>greater</i> the distance is before you're alerted that you may cross over the driving lane. Example: Sensitivity = 1, Distance to driving lane = + 20cm (Over the lane) Sensitivity = 5, Distance to driving lane = - 20cm (Before the lane)

ADAS Event Definitions

FCW2	Forward Collision Warning #2 - Detects another vehicle abruptly crossing into your vehicle's lane, causing the potential for collision.	<p>Change the alert sound intensity.</p> <p>Generates a TTC (Time to Collision) measurement in the same fashion as FCW.</p>
RLC	Rapid Lane Change - Your vehicle quickly changes lanes and crossing lane lines.	<p>Measured by velocity (cm/sec = horizontal distance changed in a period of time) and length of vehicle to lane line.</p> <p>Uses the same algorithm as LDW.</p>
FLC	Frequent Lane Change - Your vehicle is crossing many lanes in a specified window of time (weaving).	<p>Measured by the number of lanes changed in a period (sec).</p> <p>Uses the same algorithm as LDW.</p>
RD	Rapid Deceleration - Your vehicle quickly decelerates to a specified speed in a window of time.	<p>Measured by a vehicle is decreasing over ____ km/h from current speed within __ seconds.</p> <p>Measured using speed data. This reduces extra data from G-Sensor events to the Smart API server, saving cellular data.</p> <p>First, consult with SmartWitness before enabling this event. Our platform already identifies these instances, so there could be duplicates if you activate this event without prior discussion with the integration team.</p>

Device/Vehicle

4.0 Configuring Your Device

Goal: Personalize and optimize your device's settings.

4.1 How to Configure Device/Vehicle Tab

Device/Vehicle Tab Layout: At a Glance

The screenshot shows the 'AP1 Configuration Tool' window with the 'Device/Vehicle' tab selected. The interface includes several sections for configuring the device and vehicle parameters.

Top Navigation: Device/Vehicle, Record, Event, Connectivity, Server, Information, G-Sensor.

Settings Section:

- ADAS (1):** Disable ☐ On ☒
- Speed (2):** Source
- Sleep/Cut Voltage (3):**
- Winter Period (4):** Start End

Vehicle Diagrams: Three diagrams illustrate vehicle dimensions and sensor placement, labeled with numbers 1 through 5 corresponding to the ADAS settings.

ADAS (5) Settings:

- 1. Vehicle Width (cm):
- 2. Camera ~ Wheel (cm):
- 3. Camera ~ Bumper (cm):
- 4. Camera Height (cm):
- 5. Camera Off-Center (cm):
- Vanishing Line:
- Hood Line:
- Height: Width:

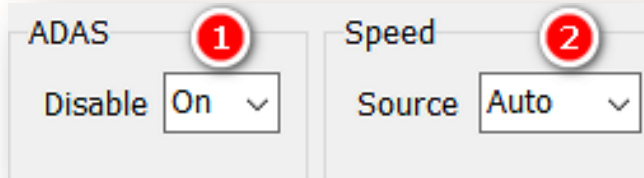
Vehicle Information (6):

- manufacturer:
- Model:
- Manufacturing year:

Bottom Buttons: About, Settings, Initialize SD Card, Open, Save, Eject SD Card.

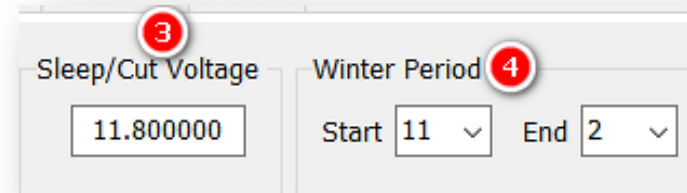
Device/Vehicle

1. Select from **Disable** options to turn your AP1's ADAS features on or off.
2. Select how your device gauges its speed.
 - Auto: Your device will automatically detect a speed source (OBD port or GPS)
 - OBD II: Monitor speed from your vehicle's OBD port only.
 - GPS: Speed comes from your AP1's GPS chip only. This will deactivate ADAS functions.



The screenshot shows two settings panels. The first panel, labeled 'ADAS' with a red circle '1' above it, has a 'Disable' label and a dropdown menu set to 'On'. The second panel, labeled 'Speed' with a red circle '2' above it, has a 'Source' label and a dropdown menu set to 'Auto'.

3. To set a threshold when your device automatically goes offline due to low power input, enter a **Sleep/Cut Voltage** value. The recommended voltage range is 11.5~12v.
4. Determine a **Winter Period** for your device.
 - Example: 1 = November, 2 = February.



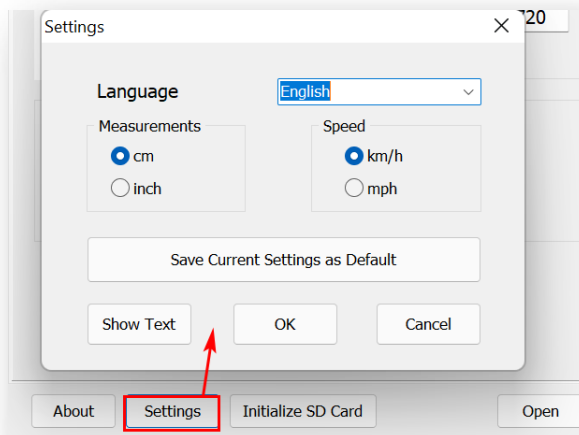
The screenshot shows two settings panels. The first panel, labeled 'Sleep/Cut Voltage' with a red circle '3' above it, has a text input field containing '11.800000'. The second panel, labeled 'Winter Period' with a red circle '4' above it, has 'Start' and 'End' labels, each followed by a dropdown menu. The 'Start' dropdown is set to '11' and the 'End' dropdown is set to '2'.

Device/Vehicle

ADAS

5. Follow the diagrams and enter your vehicle's measurements. You can select cm or inch in the tool's settings.

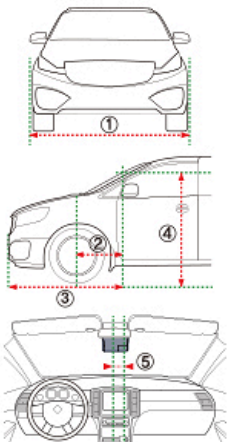
Note: Your vehicle's manual may supply some of these measurements. You can select cm or inch in the tool's settings.



Device/Vehicle

- **Vehicle Width:** Distance from the outside of the left tire to the outside of the right tire.
- **Camera ~ Wheel:** Distance from the camera lens to the front wheel's axle.
- **Camera ~ Bumper:** Distance from the camera lens to the bumper.
- **Camera Height:** Height from the ground to the camera lens.
- **Camera Off-Center:** Ensure your camera is within 12 in of the center of the windshield (center of device to the center of the windshield).
 - If your camera is on the left side, enter a negative number, like **-5**.
 - If the lens is in the center, enter **0**.
 - If the lens is on the right side, enter a positive number, like **5**.

- **Vanishing Line:** Horizontal line on your camera's image where objects disappear due to distance (the horizon). Value is the pixel number from the top of the image.
- **Hood Line:** The front edge of the vehicle's hood/bonnet. Value is the pixel number from the top of the image.



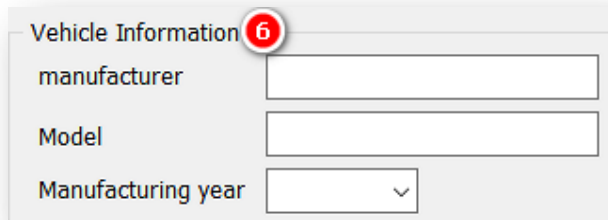
5 ADAS

1. Vehicle Width (cm)	180
2. Camera ~ Wheel (cm)	80
3. Camera ~ Bumper (cm)	120
4. Camera Height (cm)	150
5. Camera Off-Center (cm)	0
Vanishing Line	342
Hood Line	720
Height	720
Width	1280

Device/Vehicle

Vehicle Information

6. Locate your vehicle's manufacturer, model, and year. Please enter the information into the following fields.



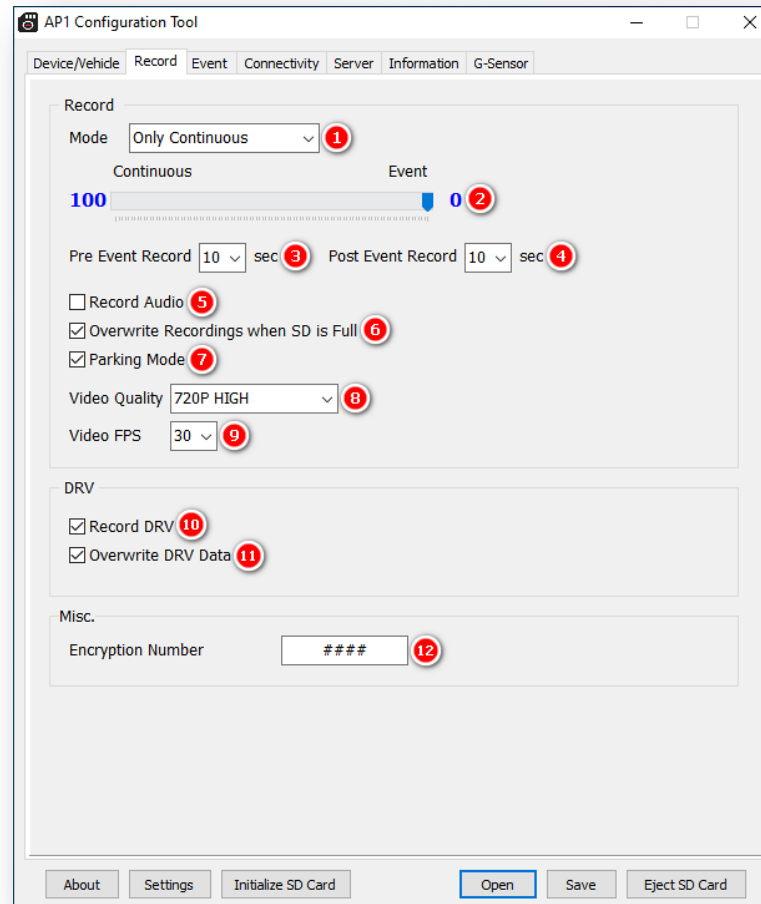
Vehicle Information **6**

manufacturer	<input type="text"/>
Model	<input type="text"/>
Manufacturing year	<input type="text" value="v"/>

Record

4.2 How to Configure Record Tab

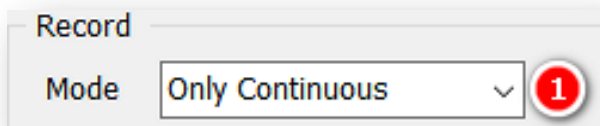
Record Tab Layout: At a Glance



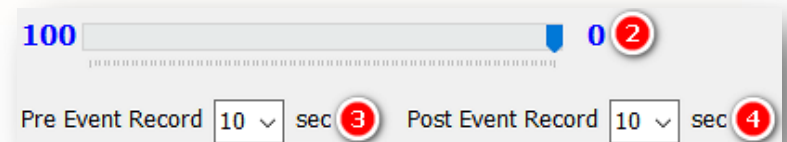
Record

Record

1. Select your preferred Record Mode:
 - **Continuous+Event:** Video continuously records at 1 FPS. Specify the FPS for events.
 - **Only Continuous (Recommended):** Video continuously records, with no events documented (Events are uploaded over-the-air to SmartAPI if configured on the [Server](#) tab)
 - **Only Event:** Only records events. The pre & post-event setting.
 - **Do not record:** Disable device video recording.

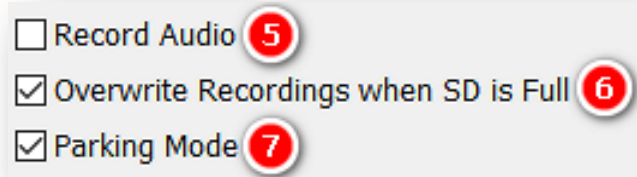


2. To adjust your device's Continuous to Event recording ratio, move the slider to your preferred setting (applicable only to Continuous + Event mode)
3. Choose how long your device records before an event by selecting a **Pre-Event Record** time.
4. Set how long your device records after an event by selecting a **Post-Event Record** time (applicable only to Event and Continuous + Event modes).



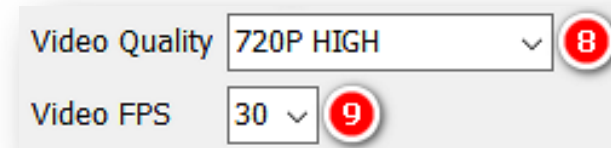
Record

5. Turn on the audio recording feature by checking **Record Audio**.
6. Allow your device to rewrite the SD card's video and telematics data automatically by clicking **Overwrite Recordings when SD is Full**.
7. To reduce device recording to 1 FPS when your vehicle is idle for 5 minutes or more, click **Parking Mode**.



8. Determine your event recording **Video Quality**.
 - Quality and Bitrate
 - i. Standard = most compressed/lossy
 - ii. Super = no compression/lossless
9. To set your video's frame rate, choose from **Video FPS**.

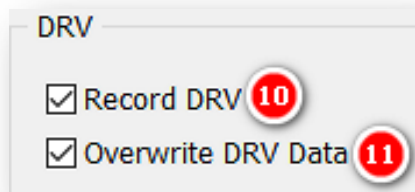
Note: Selecting different video recording options may affect your on-device storage capacity.



Record

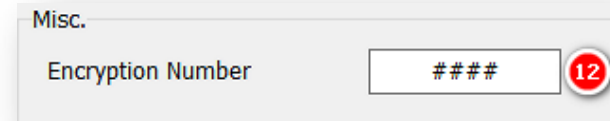
DRV

10. Record driver telematics data to your AP1 by clicking **Record DRV**.
11. Allow your device to automatically overwrite DRV data when the SD is full by checking **Overwrite DRV Data**.



Misc.

12. Protect SD card data from being easily viewable by entering a 4-digit **Encryption No.**



Event

4.4 How to Configure Event Tab

Event Tab Layout: At a Glance



Event

4.4.1 Event Table

The table featured below is a breakdown of how the different setting values impact event measurement.

HMW

HMW setting value	1	2	3	4	5
TTC (time to collision)	0.6sec	0.9sec	1.2sec	1.5sec	2.0sec

(HMW buffer for repeat events is fixed at 3.5 sec)

FCW

FCW setting value	1	2	3	4	5
TTC (time to collision)	2.2sec	2.4sec	2.6sec	2.8sec	3.0sec

FPW

FPW setting value	1	2	3
Distance to front vehicle	1.2m	2m	3m

LDW

LDW setting value	1	2	3	4	5
Status	Over the lane	Over the lane	On the lane	Before the lane	Before the lane
Distance to the lane	+20cm	+10cm	0	-10cm	-20cm

FVSA

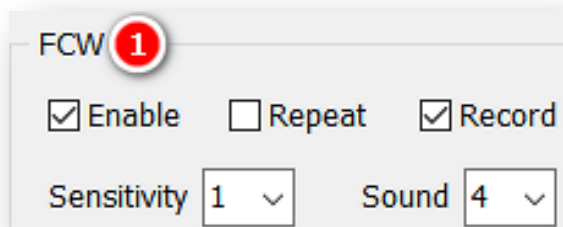
FVSA setting value	1	2	3	4	5
Time of departure of front vehicle	2sec	3sec	4sec	5sec	6sec

Event

4.4.2 Event Settings

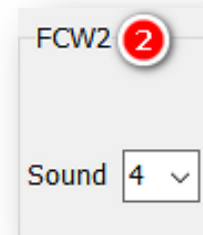
1. Forward Collision Warning (**FCW**) –To set FCW event preferences, click **Enable**.

- Deliver multiple FCW alerts in cases of potential collision by checking **Repeat**.
- To allow FCW recordings, click **Record**.
- Select your FCW sensor **Sensitivity**.
- Choose the type of FCW event notification by selecting **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep Type 1
 - Sound 2: Beep Type 2
 - iii. Sound 3: Beep Type 3
 - iv. Sound 4: Human voice (male)
 - v. Sound 5: Human voice (female)



2. Forward Collision Warning 2 (**FCW2**) – To set FCW2 event settings, click **Enable**.

Note: FCW #2 has the same sound selection options as FCW.

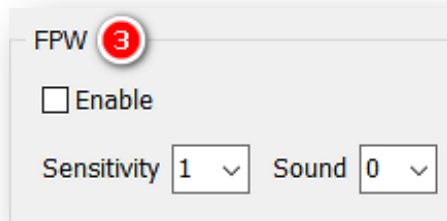


Event

3. Forward Proximity Warning (FPW) -

To set FPW event preferences, click **Enable**.

- Select your general FPW sensor **Sensitivity**.
- Select your preferred audible notifications for FPW events by choosing **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep
 - iii. Sound 2: Human voice (male)
 - iv. Sound 3: Human voice (female)



FPW 3

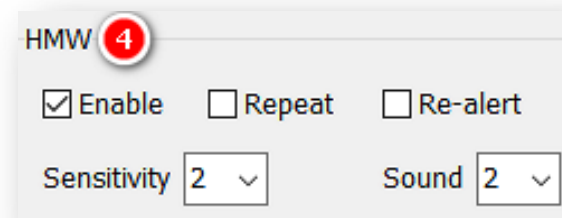
☐ Enable

Sensitivity 1 Sound 0

4. Headway Monitoring Warning

“Tailgating” (HMW) –To set HMW event preferences, check **Enable**.

- Deliver multiple HMW in-cabin alerts by checking **Repeat**.
- To send numerous alerts in cases of potential incidents, click **Re-alert**.
- To allow HMW recordings, click **Record**.
- Select your HMW **Sensitivity**.
- Choose the **Sound** alert.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep Type 1
 - iii. Sound 2: Beep Type 2
 - iv. Sound 3: Beep Type 3
 - v. Sound 4: Human voice (male)
 - vi. Sound 5: Human voice (female)



HMW 4

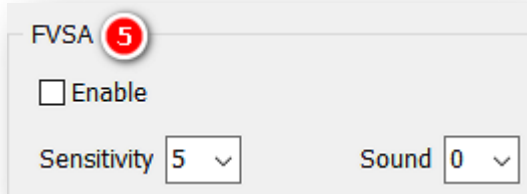
☒ Enable ☐ Repeat ☐ Re-alert

Sensitivity 2 Sound 2

Event

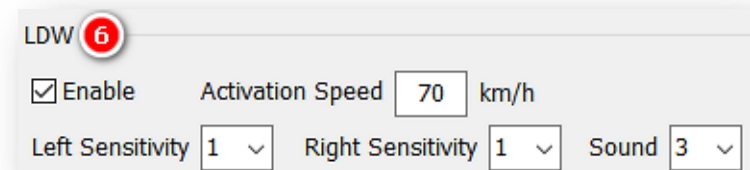
5. Forward Vehicle Start Alert (**FVSA**) –
Set FVSA event preferences by checking **Enable**.

- Select your general FVSA sensor **Sensitivity**.
- Turn on audible notifications for FVSA by selecting **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep
 - iii. Sound 2: Human voice (male)
 - iv. Sound 3: Human voice (female)



6. Lane Departure Warning (**LDW**) –
To set LDW event preferences, check **Enable**.

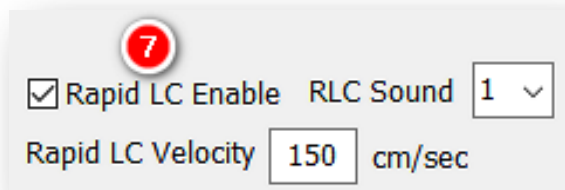
- Establish your vehicle's threshold for activating LDW features by entering an **Activation Speed**.
- Select the sensor's **Left Sensitivity** for your vehicle's left side.
- Select a **Right Sensitivity** for your vehicle's right side.
- Choose your sound alerts by selecting from **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep Type 1
 - iii. Sound 2: Beep Type 2
 - iv. Sound 3: Human voice (male)
 - v. Sound 4: Human voice (female)



Event

7. Rapid Lane Change (**RLC**) – To set RLC event preferences, check **Enable**.

- Establish the velocity your vehicle must exceed to activate the RLC event. Enter a value in cm/sec (recommended between 150 ~200).
- Choose your **Sound** alerts (options are the same as LDW).



☒ Rapid LC Enable RLC Sound 1 ▾
Rapid LC Velocity 150 cm/sec

8. Frequent Lane Change (**FLC**) - To set FLC event preferences, check **Enable**.

- Establish the number of lane changes by entering a value in **Freq LC Count** (recommended between 3 ~ 6).
- Select a time window in which lane changes occur by entering a value in seconds (recommended between 30 ~ 60).
- Choose your sound alerts by selecting from **Sound** (options are the same as LDW).

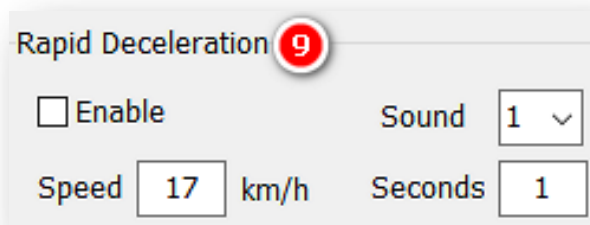


☒ Freq LC Enable FLC Sound 3 ▾
Freq LC Count 5 Freq LC Seconds 60

Event

9. Rapid Deceleration (**RD**) - Identifies an event based on a reduction of speed over a number of seconds.

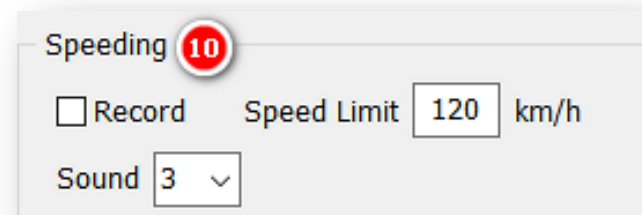
- It is not recommended without first consulting SmartWitness.
- Choose your sound alerts by selecting from **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep Type 1



The screenshot shows the 'Rapid Deceleration' settings window. It has a title bar with the text 'Rapid Deceleration' and a red circular icon with the number '9'. Below the title bar, there is an 'Enable' checkbox which is currently unchecked. To the right of the checkbox is a 'Sound' dropdown menu showing '1' with a downward arrow. Below these, there are two input fields: 'Speed' with the value '17' and 'km/h', and 'Seconds' with the value '1'.

10. Turn on Speeding event recordings by clicking **Record**.

- Set a **Speed Limit** threshold your vehicle must exceed for Speeding events.
- Turn on audible notifications for Speeding events by selecting **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep Type 1
Sound 2: Beep Type 2
 - iii. Sound 3: Beep Type 3



The screenshot shows the 'Speeding' settings window. It has a title bar with the text 'Speeding' and a red circular icon with the number '10'. Below the title bar, there is a 'Record' checkbox which is currently unchecked. To the right of the checkbox is a 'Speed Limit' input field with the value '120' and 'km/h'. Below these, there is a 'Sound' dropdown menu showing '3' with a downward arrow.

Event

11. Turn on Panic Button event recordings by clicking **Record**.

- Turn on audible notifications for Panic Button events by selecting **Sound**.
 - i. Sound 0: Silence
 - ii. Sound 1: Beep Type 1
 - iii. Sound 2: Beep Type 2
 - iv. Sound 3: Beep Type 3



Connectivity

4.5 How to Configure Connectivity Tab

Connectivity Tab Layout: At a Glance

The screenshot shows the 'AP1 Configuration Tool' window with the 'Connectivity' tab selected. The window has a menu bar with 'Device/Vehicle', 'Record', 'Event', 'Connectivity', 'Server', 'Information', and 'G-Sensor'. The 'Connectivity' tab contains two main sections: 'Mobile Network' and 'Wi-Fi (Hotspot)'. The 'Mobile Network' section has a checked 'Enable' checkbox (1), a 'Dial Number' field (2), an 'APN' field with 'smartwitness.com.attz', 'User ID', 'Password', 'Authentication' (set to 'None'), and 'SMS Center Number' fields. The 'Wi-Fi (Hotspot)' section has an unchecked 'Enable' checkbox (3), an 'AP' dropdown (4) and a 'Selected' dropdown (5), both showing '1'. It also has 'SSID1', 'Password1', 'Remote SSID', and 'Remote Password' fields. 'Password1' and 'Remote Password' have a note 'Must be at least 8 char.' (6 and 7 respectively). At the bottom are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Eject SD Card'.

AP1 Configuration Tool

Device/Vehicle Record Event **Connectivity** Server Information G-Sensor

Mobile Network

☒ Enable (1)

Dial Number (2)

APN smartwitness.com.attz

User ID

Password

Authentication None

SMS Center Number

Wi-Fi (Hotspot)

☐ Enable (3)

AP (4) Selected (5)

SSID1

Password1 (6) Must be at least 8 char.

Remote SSID

Remote Password (7) Must be at least 8 char.

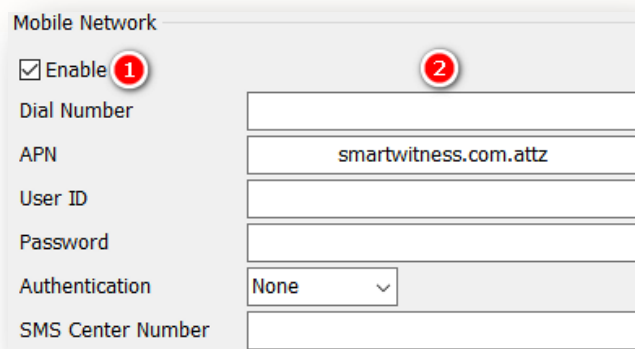
About Settings Initialize SD Card Open Save Eject SD Card

Connectivity

Choose either **Mobile Network** or **Wi-Fi (Hotspot)** for network connection.

Mobile Network

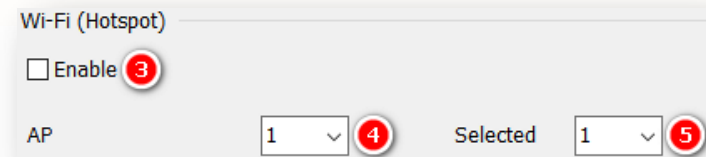
1. Access a compatible mobile network by clicking **Enable**.
2. Enter your mobile network settings.
 - Dial Number
 - APN
 - User ID
 - Password
 - Authentication
 - SMS Center Number (for troubleshooting and recovery)



The Mobile Network settings form includes an 'Enable' checkbox (1) and several input fields (2): 'Dial Number', 'APN' (pre-filled with 'smartwitness.com.attz'), 'User ID', 'Password', 'Authentication' (a dropdown menu currently showing 'None'), and 'SMS Center Number'.

Wi-Fi (Hotspot)



3. To create a Wi-Fi hotspot with your device, click **Enable**.
4. Select your **AP** from the options provided. Your **AP** must be secure, accompanied by WPA/WPA2 encryption.
5. Choose the **Selected** AP to connect with your device.



The Wi-Fi (Hotspot) settings form includes an 'Enable' checkbox (3) and two dropdown menus (4, 5): 'AP' (currently showing '1') and 'Selected' (currently showing '1').

Connectivity

6. Set up your **SSID1**, the name of the wireless network you wish to connect with your AP1.
 - Enter your SSD1 **Password1**.
7. Enter the name of your AP1 hotspot in **Remote SSID**.
 - Add your **Remote Password**.

SSID1	<input type="text"/>	 Must be at least 8 char.
Password1	<input type="text"/>	
Remote SSID	<input type="text"/>	 Must be at least 8 char.
Remote Password	<input type="text"/>	

Server

4.6 How to Configure Server Tab

Server Tab Layout: At a Glance

The screenshot shows the 'AP1 Configuration Tool' window with the 'Server' tab selected. The window has a tabbed interface with 'Device/Vehicle', 'Record', 'Event', 'Connectivity', 'Server', 'Information', and 'G-Sensor'. The 'Server' tab contains the following sections and settings:

- Server Setting**
 - ☒ **Enable** (1)
 - Net DAS Key** (2)
 - URL/Static Ip and Port**: ws://sv.smartwitness.co:5000/wsapi (3)
 - License Key**
- Transmit** (4)
 - ☒ **Live Tracking**
 - ☒ **Event**
 - ☒ **DRV**
 - DRV Hz**: 4
- Event Images**
 - Pre Event Record**: 5 sec (5)
 - Post Event Record**: 5 sec (6)
 - Image Quality**: Low (7)
- Event Triggered by** (8)

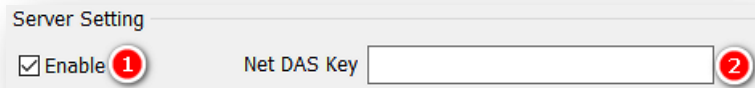
<input checked="" type="checkbox"/> Panic Button	<input type="checkbox"/> Overspeed	<input checked="" type="checkbox"/> Ignition On	<input checked="" type="checkbox"/> Ignition Off
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> FVSA	<input checked="" type="checkbox"/> FCW	<input type="checkbox"/> FPW	<input checked="" type="checkbox"/> HMW
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> LDW	<input checked="" type="checkbox"/> Rapid LC	<input checked="" type="checkbox"/> Freq LC	<input checked="" type="checkbox"/> Rapid Decel
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> ALARM1	<input checked="" type="checkbox"/> G-Sensor	<input type="checkbox"/> eCall	
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	
	<input checked="" type="checkbox"/> 100Hz G-Sensor	<input type="checkbox"/> 100Hz G-Sensor	

At the bottom of the window are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Eject SD Card'.

Server

Server Setting

1. To set up your preferred server settings, click **Enable**.
2. Access Direct-attached server storage by entering a **Net DAS Key**.

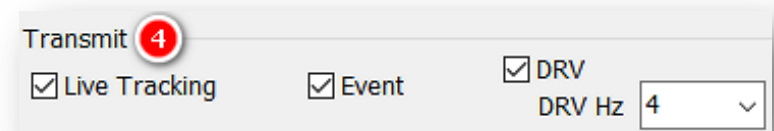


3. SmartWitness, or your service provider, will give you the **URL/Static IP and Port** and the License Key (If necessary) to enter here.



Transmit

4. To send specific types of data to the server, check your desired data types.
 - To allow HTTP posts from the AP1 to the server, check **Live Tracking**. LiveTrack 2 has GPS coordinates. LiveTrack3 does not.
 - Send event notifications and images to the server by checking **Event**.
 - To send DRV data to the server, click **DRV**. 4 Hz is the default setting, as this is an ideal frequency for *AIDE*.

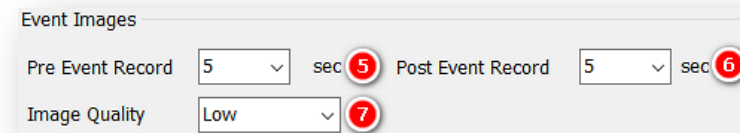


Server

Event Images

1. Set the time your device records before an event by selecting a **Pre-Event Record** time. Your device will then send event images to the server.
2. Set the time your device records after an event by selecting a **Post-Event Record** time. Your device will then send event images to the server.

Determine your preferred event **Image Quality**.



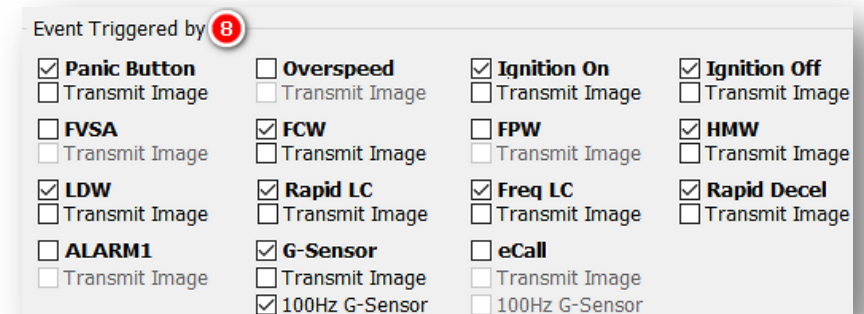
Event Images

Pre Event Record 5 sec **5** Post Event Record 5 sec **6**

Image Quality Low **7**

Event Triggered By

3. Decide what events your device will upload to SmartAPI by selecting options like **G-Sensor** and **eCall**.
 - Events will send instantly, even if the device is in “Continuous” record mode.



Event Triggered by **8**

<input checked="" type="checkbox"/> Panic Button	<input type="checkbox"/> Overspeed	<input checked="" type="checkbox"/> Ignition On	<input checked="" type="checkbox"/> Ignition Off
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> FVSA	<input checked="" type="checkbox"/> FCW	<input type="checkbox"/> FPW	<input checked="" type="checkbox"/> HMW
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> LDW	<input checked="" type="checkbox"/> Rapid LC	<input checked="" type="checkbox"/> Freq LC	<input checked="" type="checkbox"/> Rapid Decel
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> ALARM1	<input checked="" type="checkbox"/> G-Sensor	<input type="checkbox"/> eCall	
<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	<input type="checkbox"/> Transmit Image	
	<input checked="" type="checkbox"/> 100Hz G-Sensor	<input type="checkbox"/> 100Hz G-Sensor	

Information

4.7 How to Configure Information Tab

Information Tab Layout: At a Glance

The screenshot shows the 'AP1 Configuration Tool' window with the 'Information' tab selected. The window has a menu bar with 'Device/Vehicle', 'Record', 'Event', 'Connectivity', 'Server', 'Information', and 'G-Sensor'. The 'Information' tab contains two main sections: 'Date/Time' and 'User Management'. The 'Date/Time' section includes a 'Time Zone' dropdown (UTC), a 'GPS Time Sync' checkbox, a 'Daylight Time Setting' section with 'Start' and 'Stop' times, and a 'Manual Time Setting' section with a date picker and time fields. The 'User Management' section includes input fields for 'Vehicle Number', 'Driver ID', and 'VIN #'. Numbered callouts (1-6) highlight specific elements: 1. Time Zone dropdown, 2. GPS Time Sync checkbox, 3. Daylight Time Setting checkbox, 4. Manual Time Setting checkbox, 5. PC Time button, and 6. User Management section header.

AP1 Configuration Tool

Device/Vehicle Record Event Connectivity Server Information G-Sensor

Date/Time

Time Zone UTC **1** ☒ GPS Time Sync **2**

☐ Daylight Time Setting **3**

	Month	Order	Week	Hour
Start	01	01 st	Sunday	00
Stop	01	01 st	Sunday	00

☐ Manual Time Setting **4**

10/26/2021 Hour 15 Min 16 Sec 48 **5**

User Management **6**

Vehicle Number

Driver ID

VIN #

About Settings Initialize SD Card Open Save Eject SD Card

Information

Date/Time

Setting time preferences on your AP1 is **not recommended**. PC Viewer software and Smart API automatically adjust UTC to your local time zone.

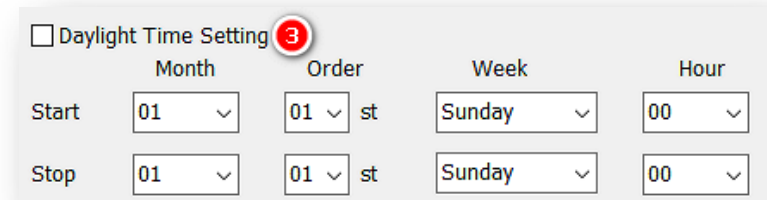
1. Ensure you set **Time Zone** to **UTC**.
2. To allow your device's GPS to establish your local time, check **GPS Time Sync**.



Date/Time

Time Zone UTC 1 ☒ GPS Time Sync 2

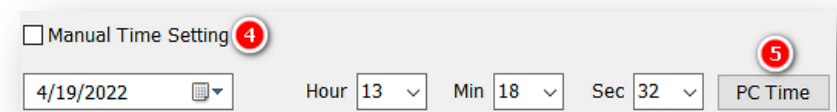
3. Do not set DST start/stop times in **Daylight Time Setting**.



☐ Daylight Time Setting 3

	Month	Order	Week	Hour
Start	01	01 st	Sunday	00
Stop	01	01 st	Sunday	00

4. To override automated time settings, click **Manual Time Setting** and select customized time settings. This is **not recommended**; time automatically syncs via GPS.
5. Do not set **PC Time**.



☐ Manual Time Setting 4


4/19/2022 Hour 13 Min 18 Sec 32 PC Time 5

Information

User Management

6. Provide unique IDs for different drivers and vehicles in your fleet. You can display these values on MP4 converted video. They can be updated remotely in SmartAPI or by API requests.

- Enter a value for **Vehicle Number**.
- Enter a unique key for **Driver ID**.
- Enter a value for **Model**.
- Enter a numerical value for **VIN #**.



The image shows a software interface titled "User Management" with a red circle containing the number "6" next to the title. Below the title, there are four input fields arranged vertically. The labels for these fields are "Vehicle Number", "Driver ID", "MODEL", and "VIN #". Each label is followed by a white rectangular input box with a thin black border.

User Management 6	
Vehicle Number	<input type="text"/>
Driver ID	<input type="text"/>
MODEL	<input type="text"/>
VIN #	<input type="text"/>

G-Sensor

4.8 How to Configure G-Sensor Tab

G-Sensor Tab Layout: At a Glance

The screenshot shows the 'G-Sensor' configuration window of the 'AP1 Configuration Tool'. The window has a tabbed interface with 'G-Sensor' selected. The configuration is divided into several sections with numbered callouts (1-10) pointing to specific elements:

- 1** ☒ Record
- 2** ☒ Beep
- 3** Sensitivity dropdown menu (set to 5)
- 4** ☒ Adjust G-Sensor to vehicle speed
- 5** ☒ Turn Z Axis on
- 6** Emergency Call Trigger section, containing a table:

	X	Y	Z
mG(0~4000)	3000	3000	3000
- 7** High Impact section, containing a table:

	X	Y	Z
mG(0~4000)	2500	2500	2500
Hz (1~20)	1	1	1
- 8** Harsh Accel/Brake section, containing a table:

	X
mG(0~4000)	750
Hz (1~20)	3
- 9** Harsh Turn section, containing a table:

	Y
mG(0~4000)	750
Hz (1~20)	3
- 10** ☒ Trigger high impact events only

At the bottom of the window, there are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Eject SD Card'.

G-Sensor

G-Sensor

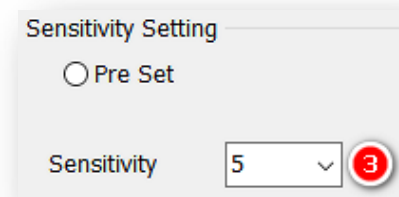
1. To turn on G-Sensor event recordings, click **Record**.
2. Allow for audible alerts of G-Sensor events by checking **Beep**.



Sensitivity Setting

Determine your G-Sensor sensitivity settings, either with **Pre-Set** options or by setting event-specific values using **Custom** options.

3. To set an overall G-Sensor sensitivity, select from **Sensitivity** options.



G-Sensor

4. Calibrate the G-Sensor speed threshold by clicking **Auto adjust G-Sensor to vehicle speed**.

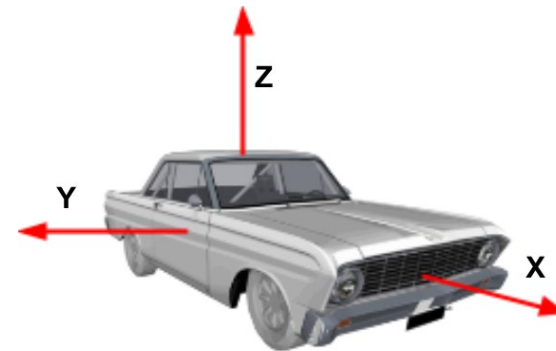
Note: This increases the G-Sensor event threshold on each axis by 300mcg when the vehicle speed is greater than 20/kmh.

5. Activate G-Sensor readings on the z-axis (up/down) by checking **Turn Z-axis on**.

<input checked="" type="checkbox"/>	Adjust G-Sensor to vehicle speed	4
<input checked="" type="checkbox"/>	Turn Z Axis on	5

6. Set the threshold for **Emergency Call Trigger** (aka Severe Shock) G-Sensor values.

Emergency Call Trigger	6		
	X	Y	Z
mG(0~4000)	4000	4000	4000



G-Sensor

7. Set the **High Impact** event shock range for the X and Y axis.
8. Set the **Harsh Accel/Brake** event shock range for the X axis.
9. Set the **Harsh Turn** event shock range for the Y axis.

High Impact 7	X	Y	Z
mG(0~4000)	2500	2500	2500
Hz (1~20)	1	1	1

Harsh Accel/Brake 8	X
mG(0~4000)	750
Hz (1~20)	3

Harsh Turn 9	Y
mG(0~4000)	750
Hz (1~20)	3

10. To limit alerts to high-impact events, check **Trigger high impact events only**.

☒ Trigger high impact events only **10**

G-Sensor

5.0 Finishing Up/Support

Goal: Complete Your Configuration and Access Support

1. Click **Save** to establish your finalized settings configuration.
2. Select **FHDM** SD drive when prompted. Your configuration saves to your card.
3. Wait until the software confirms the application of your settings configuration.
4. Click **Eject SD Card**, insert it into your AP1 and power on the device.
5. You have completed your configuration.

Note: You can apply device configurations from the Smart API Workstation over the air. Read instructions [here](#).

5.1 Support Information

If you need additional support or an expert to walk you through this process, please [register](#) and submit a ticket, or email us at support@smartwitness.com.

Feel free to call our support team:

- **North America, South America, APAC**

+1 (312) 981 8774

- **EMEA**

+44 (0) 1483 397005