

# KP2 CONFIGURATION TOOL GUIDE v6.4

*A jumpstart to video  
telematics  
configuration*

  
Sensata IN



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# Introduction

## 1 Welcome to Your KP2 Configuration Guide

This guide aims to inform users of the proper processes involved in setting up your Sensata INSIGHTS KP2 device.

This step-by-step walkthrough will act as your teacher as you learn our product's layout, functionality, and configuration settings. Each section shown in this guide features the KP2's default settings.

You can find an overview of the configuration tool's layout in [section 3](#).

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

We hope that this training document will remove common end-user pain points involved with the setup process. If you experience any issues with this guide, please lend us your feedback and contact our [support](#) teams.

**Note:** Use this configuration guide with at least version 1.3.1.0 of the KP2 Configuration Tool. Content in this guide was released in coordination with KP2 firmware version 1.3.0.

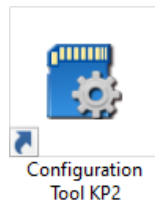
# KP2 Configuration Download & Installation

## 2 KP2 Configuration Tool Installation

**Goal:** Find your configuration wizard and learn about your device's capabilities

### 2.1 Downloading & Installing Your Configuration Tool

- Download configuration software [here](#).



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

**Note:** MicroSD cards from Sensata INSIGHTS come pre-installed and initialized.

\*The maximum supported onboard storage is 256 GB.

# KP2 Configuration Tool Layout

## 3 Configuration Tool Layout & Settings

**Goal:** Understand your tool's main features

The screenshot shows the KP2 Config Tool CC 1.3.1.0 interface. At the top, there are tabs for Device, Record, Event, Info., Connectivity, and Server. The main area is divided into sections: Camera, Power Connection, and Power ON/OFF. The Camera section has checkboxes for CAM1 and CAM2, and text fields for Camera Title. The Power Connection section has a Type dropdown menu, and fields for ACC On Voltage 12v, ACC On Voltage 24v, and Delayed ACC Off. The Power ON/OFF section has fields for Delayed Power Shutdown, Power Off Voltage, Register Interval, and Wake-up Interval. At the bottom, there are buttons for About, Settings, Initialize SD Card, Open, Save, and Eject SD Card. Callouts provide instructions for each of these elements.

Settings tabs designate major areas of configuration

Some settings sub-fields use checkboxes

Some settings sub-fields use text fields

Some settings sub-fields use drop-down selection

Click **About** to see configuration tool version information

Click **Settings** to change the language

Click **Initialize SD Card** to prepare SD card

Click **Open** to load a previously saved configuration

Click **Save** after each settings tab configuration

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, review the definitions and related conditions below.

Event Type	Event Definition	Detection Conditions & Configuration Values
FCW	<p><b>Forward Collision Warning</b> - Detects an imminent collision with something ahead.</p>	<p><b>Detection Conditions</b> Vehicles must surpass a minimum speed and be moving within the configured speed range.</p> <p>After a previous FCW event trigger, subsequent FCW triggers will only occur once the vehicle exceeds 5 meters/16 feet from the vehicle in front for more than 2 seconds.</p> <p><b>Configuration Values:</b> Review various configuration settings in greater detail <a href="#">here</a>.</p>
LDW	<p><b>Lane Departure Warning</b> – Your vehicle crosses a solid lane line on either side of the road.</p>	<p><b>Detection Conditions</b> Vehicles must surpass a minimum speed to enable LDW.</p> <p>Event type only recognizes solid lane lines.</p> <p><b>Configuration Values:</b> Review various configuration settings in greater detail <a href="#">here</a>.</p>
HMW	<p><b>Headway Monitoring Warning</b> - Monitors distance to the vehicle ahead at configurable speeds. Also referred to as “Tailgating.”</p>	<p><b>Detection Conditions</b> HMW has three distinct speed ranges (low/middle/high) for detecting headway distances, with corresponding distance thresholds.</p> <p>Vehicles must be moving within the configured speed range.</p> <p>The furthest threshold distance is 20 meters or approximately 66 feet.</p> <p><b>Configuration Values:</b> Review various configuration settings in greater detail <a href="#">here</a>.</p>

# DSM Event Definitions

## 3.2 DSM Event Definitions

To better understand the settings and functions of **DSM** (Driver State Monitoring) events in the [Event](#) tab, please see the definitions and sensitivity conditions below.

Event Type	Event Definition	Event Details
Fatigue	<b>Driver Fatigue Warning (DFW)</b> – Driver is yawning or has prolonged eyelid closure.	<p><b>Calibration Requirements</b> Driver position requires manual calibration through the KP2 Installer App for initial installation. Post-installation, auto calibration occurs during vehicle trips and is recommended. Auto calibration intervals are configurable.</p> <p><b>Detection Conditions</b> Sensitivity % measures the height of the driver’s mouth opening.</p> <p>Fatigue event trigger <b>must meet either of the following conditions:</b></p> <ul style="list-style-type: none"> <li>• Driver’s mouth opening (yawning) is <i>greater</i> than the <b>sensitivity %</b> for <i>longer</i> than the <b>sensitivity time</b>.</li> <li>• Driver’s eyelids are closed for <i>longer</i> than the <b>sensitivity time</b>.</li> </ul> <p>Follow this <a href="#">link</a> to review an example.</p>
Distraction	<b>Driver Distraction Warning (DDW)</b> – Driver’s head and eyes are off the road for a prolonged period of time.	<p><b>Calibration Requirements</b> Driver position requires manual calibration through the KP2 Installer App during the initial installation. Post-installation, auto calibration occurs during vehicle trips and is recommended. Auto calibration intervals are configurable.</p> <p><b>Detection Conditions</b> Two critical values determine the calibrated head area of the driver:</p> <ul style="list-style-type: none"> <li>• <a href="#">Yaw deviation</a> – Degree difference from the camera’s center line axis to the driver’s face</li> <li>• <a href="#">Pitch deviation</a> – Degree difference from the ceiling of the vehicle to the top of the driver’s head</li> </ul>

## DSM Event Definitions

		<p>Sensitivity % measures the change in degrees of the driver's head area.</p> <p>30% to 50% is recommended. More than 90% is not recommended. Associate this value, 90% (90°), with the maximum change in head area.</p> <p>Distraction event triggers <b>must meet the following condition:</b> The driver's face <i>exceeds</i> the calibrated head area by the <b>sensitivity %</b> for <i>longer</i> than the <b>sensitivity time</b>.</p>
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# Device

## 4 Configuring Your Device

**Goal:** Personalize and optimize device settings

### 4.1 How to Configure Device Tab

**Device Tab Layout: At a Glance**

The screenshot displays the 'Device' configuration window with the following sections and settings:

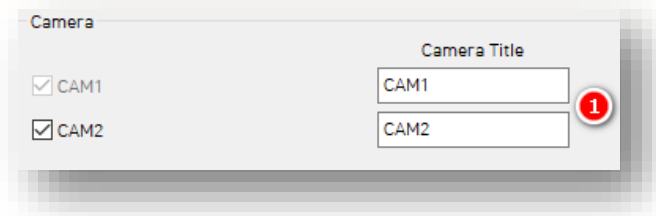
- Camera:** Includes checkboxes for CAM1 and CAM2, and text input fields for 'Camera Title' (CAM1 and CAM2). A red circle with the number 1 is next to the CAM1 title field.
- Power Connection:** Includes a dropdown for 'Type' (KP2-OBD-PWR, marked with a red circle 2), and input fields for 'ACC On Voltage 12v (10000-18000)' (13000 mV, marked with a red circle 3) and 'ACC On Voltage 24v (20000-30000)' (27000 mV). A dropdown for 'Delayed ACC Off' is set to 5 Sec (marked with a red circle 4).
- Power ON/OFF:** Includes a dropdown for 'Delayed Power Shutdown' (00 : 15, marked with a red circle 5), an input field for 'Power Off Voltage (10000-50000)' (11000 mV, marked with a red circle 6), a dropdown for 'Register Interval' (00 : 00, marked with a red circle 7), and a dropdown for 'Wake-up Interval' (Off, marked with a red circle 8).

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

## Device

### Camera

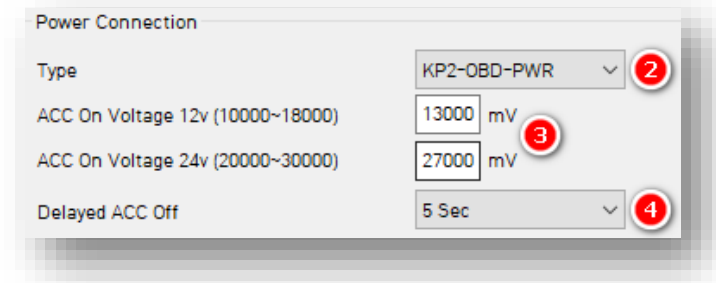
1. Activate your road-facing camera channel, **CAM2**. A KP2 driver-facing camera is required. Deactivating **CAM2** removes the ability to change video channel settings in the [Record](#) tab and DSM settings in the [DSM](#) tab.



### Power Connection

2. To automatically apply appropriate power settings, select the device power **Type**. Using **KP2-Cig-PWR** prevents access to **Power On/Off** settings.
3. Manually adjust these values to your preferred **ACC On Voltage 12v** and **ACC On Voltage 24v**.
4. To continue device operations for a limited period when ACC is off, select a **Delayed ACC Off**.

**Note:** **ACC On Voltage 12v**, **ACC On Voltage 24** and **Delayed ACC Off** are only available for the **KP2-OBD-PWR** type.



## Device

### Power ON/OFF

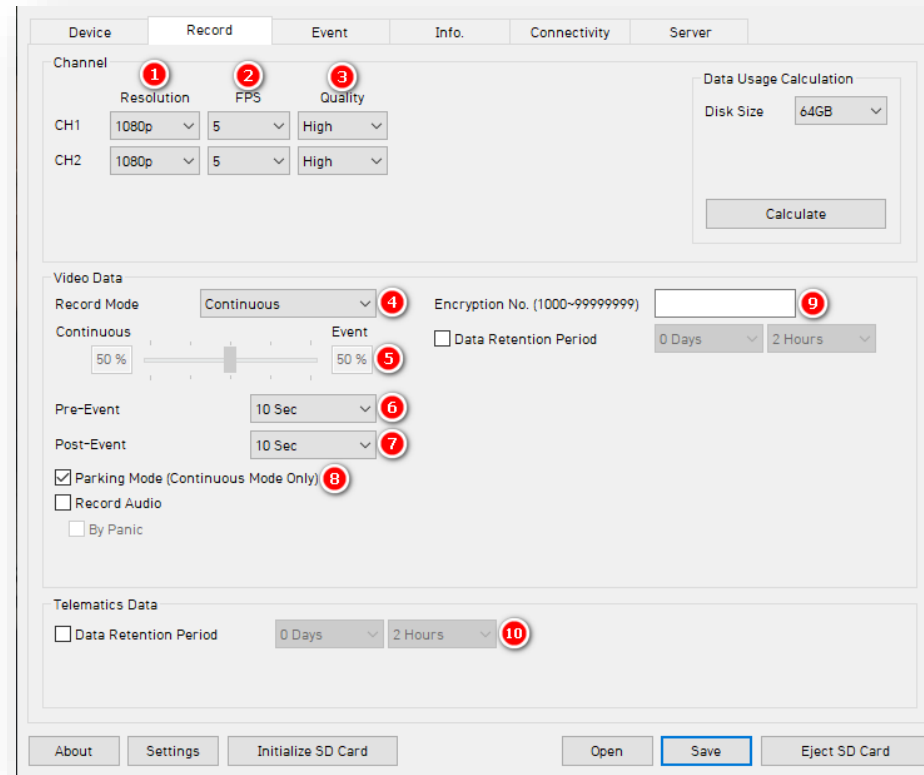
5. Select the time your KP2 remains on after ignition off with **Delayed Power Shutdown**.
6. Enter a **Power Off Voltage**. This signals the device shut down due to declining vehicle battery voltage to protect battery drainage.
7. Set the time your KP2 stays awake during its Wake-up Interval by choosing a **Register Interval**.
8. Set a time that your KP2 powers on again after shutting down by selecting your **Wake-up Interval**.

The screenshot shows a configuration window titled "Power ON/OFF" with the following settings:

Parameter	Value	Annotation
Delayed Power Shutdown	00 : 15	5
Power Off Voltage (10000~50000)	11000 mV	6
Register Interval	00 : 00	7
Wake-up Interval	Off	8

# Record

## 4.2 How to Configure Record Tab Record Tab Layout: At a Glance

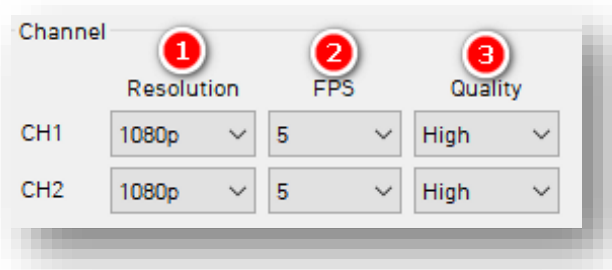


# Record

## Channel

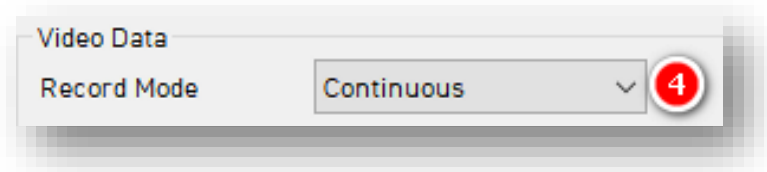
1. Select your **Resolution** for **CH1**, **CH2**:
  - HD (720p), FHD (1080p).
2. Select from the following **Frame Rate (FPS)** options:
  - 30, 15, 10, 5, 4, 3, 2, 1 and 0.
3. Choose your default video **Quality** from the following:
  - **Normal**, **High** or **Super** Bitrate.  
Higher-quality video contains more detail but consumes more storage space on the SD card.

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



## Video Data

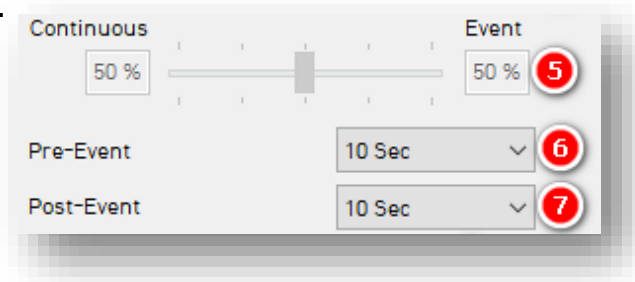
4. Select your preferred **Record Mode**:
  - **Event:** Events only. Pre and post-event settings determine recording settings.
  - **Continuous (Default & Recommended):** Video continuously records. No events record separately on the SD card (Events are still sent to SmartAPI if configured on the [Server](#) tab). This setting renders pre and post event capture settings void.
  - **Continuous+Event:** Video continuously records at 1 FPS. Events will record at your chosen FPS.



## Record

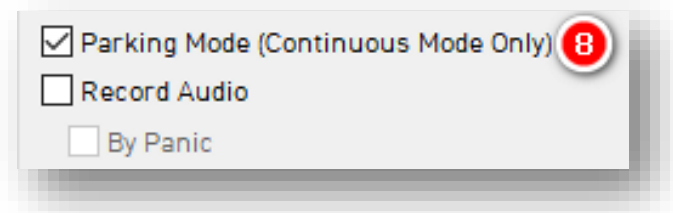
5. Set the **Continuous+Event** ratio of video data recording (applicable only when you set Continuous+Event record mode).
6. Select your **Pre-Event** setting to determine the amount of time video records before an event
7. To set the amount of time video records after an event, select a **Post-Event** setting.

8.



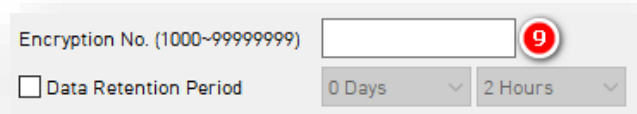
**Parking Mode** reduces your camera's FPS to 1 when your vehicle is idle for 5 min.

- Click **Record Audio** to turn on the device's internal microphone for audio recording.
- Click **By Panic** to trigger audio recordings only when you press the panic button. In this case, audio records for 2 minutes.



## Record

9. Protect SD card data from being easily viewable by entering a 4 to 8-digit **Encryption No.**
  - Set how long video data remains on the SD card before being rewritten via **Data Retention Period.**

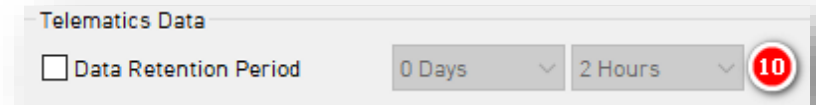


Encryption No. (1000-99999999)  **9**

Data Retention Period    0 Days    2 Hours

## Telematics Data

10. Select the **Data Retention Period**, or how long telematics data (DRV file) remains on the SD card before being rewritten.
  - Use the **Data Usage Calculation** to estimate your SD card's storage capacity based on your applied recording settings.



Telematics Data

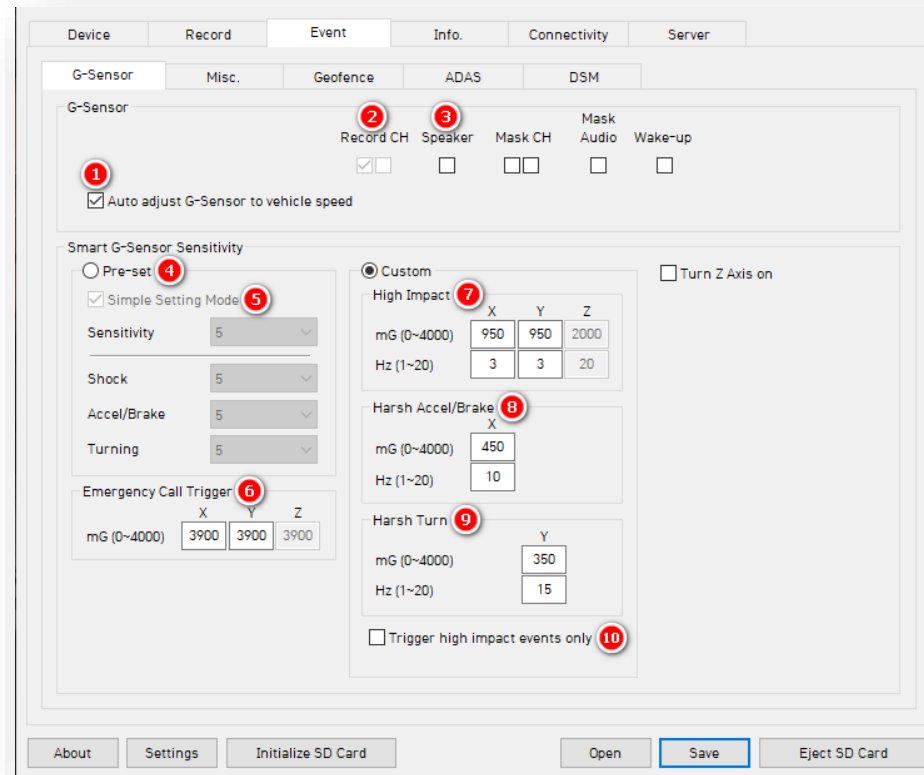
Data Retention Period    0 Days    2 Hours    **10**

# Event

## 4.3 How to Configure Event Tab

### 4.3.1 G-Sensor Fields

#### Event > G-Sensor Tab Layout: At a Glance

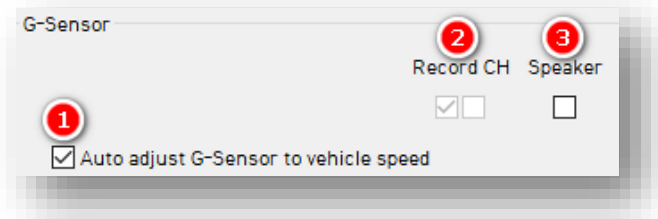




## Event > G-Sensor

### G-Sensor

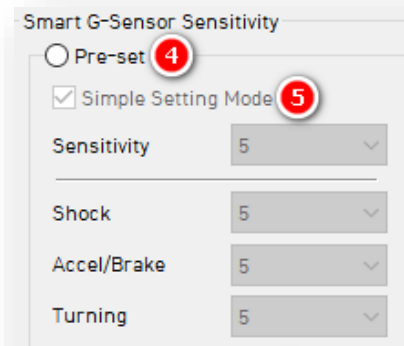
1. Automatically scale G-Sensor speed thresholds by clicking **Auto adjust G-Sensor to vehicle speed**. This increases your G-Sensor event threshold on each axis by 300mcg when your vehicle speed exceeds 20 km/h.
2. To specify event recordings for camera channels 1 and 2, check **Record CH**.
  - Only available for Event and Continuous+Event modes.
3. Turn on in-vehicle notifications for G-Sensor event triggers by clicking **Speaker**.



### Smart G-Sensor Sensitivity

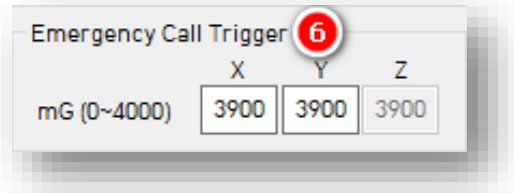
Determine your G-Sensor sensitivity with **Pre-Set** or **Custom** options.

4. To set general sensitivity settings, check **Pre-Set**. Lower sensitivities result in fewer G-Sensor-related events. Higher sensitivities result in more events.
  - Disable **Simple Setting Mode** to set **Shock, Accel/Brake** and **Turning** settings.
5. To set an overall G-Sensor sensitivity, click **Simple Setting Mode**, then **Sensitivity**.

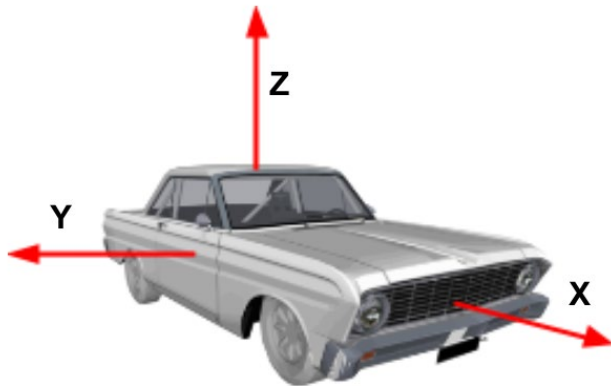


## Event > G-Sensor

- Events generate when the X, Y or Z axis acceleration exceeds the set G-Sensor threshold for **Emergency Call Trigger** (Severe Shock).



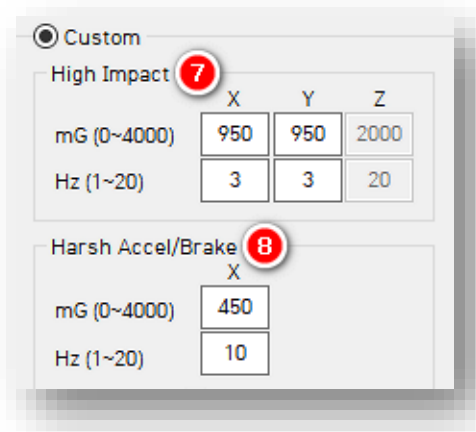
Emergency Call Trigger <span style="color: red; font-weight: bold;">6</span>			
	X	Y	Z
mG (0~4000)	3900	3900	3900



Click **Custom** to set personalized G-Sensor sensitivity settings.

- High Impact** events occur if acceleration exceeds the X, Y or Z axis threshold (Activate the Z axis via **Turn Z Axis on**).
- Harsh Accel/Brake** events generate if acceleration exceeds X, Y or Z axis thresholds.

**Note:** Hz values set the number of times in a row the device's G-Sensor must exceed the X, Y or Z thresholds to trigger a harsh event.



Custom			
High Impact <span style="color: red; font-weight: bold;">7</span>			
	X	Y	Z
mG (0~4000)	950	950	2000
Hz (1~20)	3	3	20

Harsh Accel/Brake <span style="color: red; font-weight: bold;">8</span>	
	X
mG (0~4000)	450
Hz (1~20)	10

## Event > G-Sensor

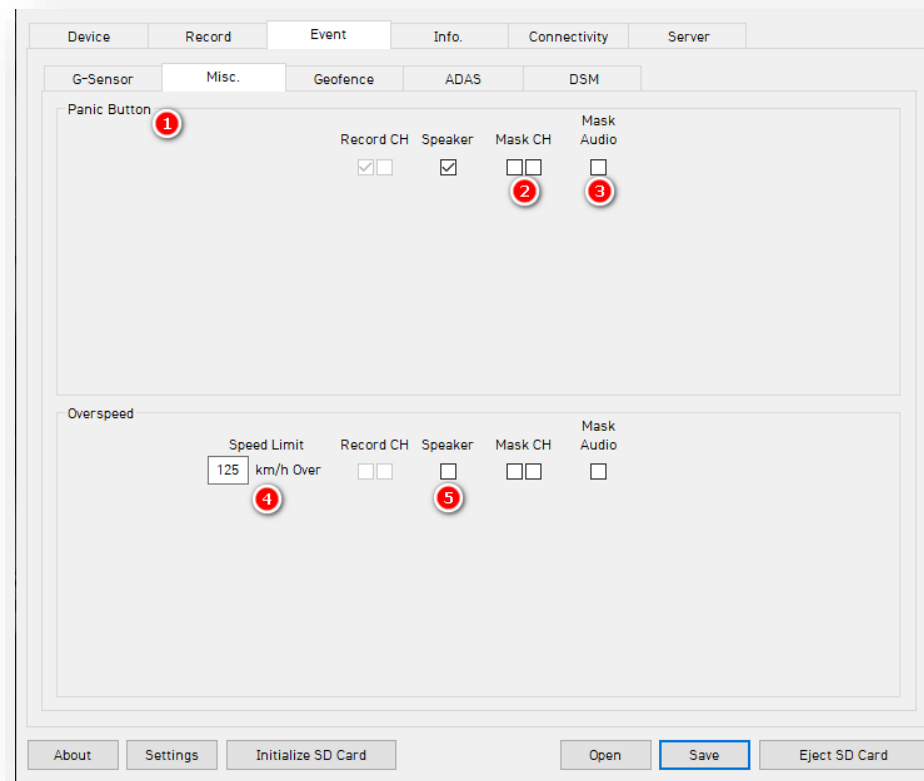
9. **Harsh Turn** events occur if acceleration exceeds the X, Y or Z axis threshold.
10. Check **High Impact Trigger** to limit alerts to high-impact events. This disables Accel/Brake and Turn events.

Harsh Turn <span>9</span>	
mG (0~4000)	350
Hz (1~20)	15
<input type="checkbox"/> Trigger high impact events only <span>10</span>	

## Event > Misc.

### 4.3.2 Misc. Fields

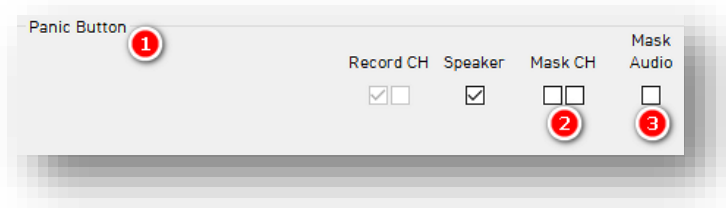
#### Event > Misc. Tab Layout: At a Glance



## Event > Misc.

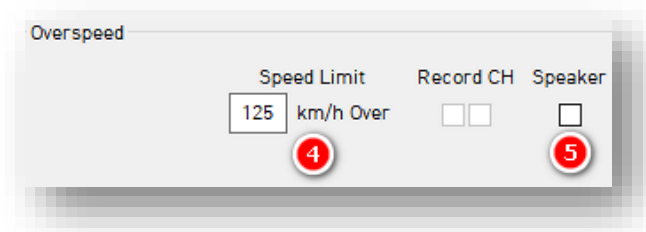
### Panic Button

1. Determine your **Panic Button** response settings.
2. To obscure camera channels 1 and 2 during Panic events, check **Mask CH.**
3. To prevent the device's audio recording during Panic events, check **Mask Audio.**



### Overspeed

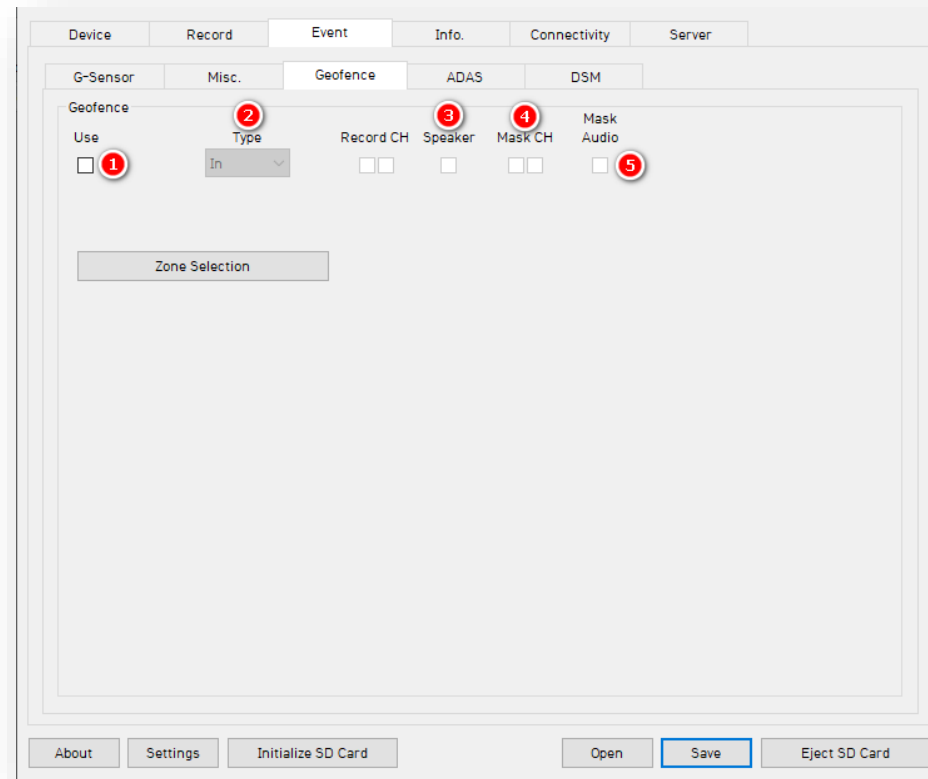
4. Set your speed threshold for recording Overspeed events by entering a **Speed Limit**.
  - This accounts for vehicle speed only, not posted speed limits.
5. Turn on audible alerts for Overspeed events by clicking **Speaker**.



# Event > Geofence

## 4.3.3 Geofence Fields

### Event > Geofence Tab Layout: At a Glance

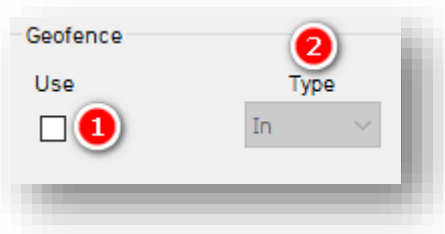


## Event > Geofence

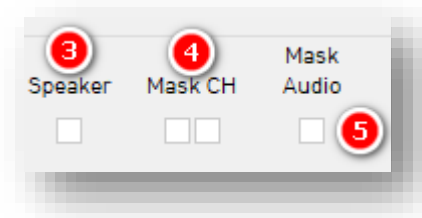
### Geofence

Set virtual boundaries for your device to trigger Geofence events.

1. To trigger a Geofence, check **Use**.
2. Select the **Type** of Geofence.
  - **In** activates a Geofence when the vehicle *enters* a geographic boundary.
  - **Out** activates a Geofence when the vehicle *exits* a geographic boundary.



3. Audibly notify drivers that they've crossed a Geofence's boundary by clicking **Speaker**.
4. To obscure camera channels 1 and 2, check **Mask CH**.
5. To prevent audio recording within a Geofence, click **Mask Audio**.



## Event > Geofence

### Zone Selection

To set Geofence boundaries on Google Maps, click **Zone Selection**. Set up to 20 Geofence zones.

1. Search for a geographic region by entering an address and clicking **Go**.

2. Change the name of your Geofence in the **Title** text field.
3. Click on the map to set a perimeter. The area in **red** is your Geofence.
4. Set your Geofence by clicking **Add**.
5. To remove a Geofence, check **No.** and click **Delete**.

The screenshot shows the 'Geofence' interface. At the top, there is a search bar containing '1016 Lunt Ave' and a 'Go' button (1). To the right, there is a 'Title' field containing 'Geofence' (2), an 'Add' button (4), and a 'Delete' button (5). The main area is a map showing a red geofence area (3) around several businesses, including 'Steiner Electric Company', 'Penske Truck Rental', and 'Yusen Logistics (Americas) Inc'. The map also shows other businesses like 'Precision Stone Design', 'Holiday Inn Chicago-Elk Grove, an IHG', and 'Physicians Immediate Care'. The map controls include 'Map', 'Satellite', and 'Terrain' options. A table on the right side of the interface lists the geofences:

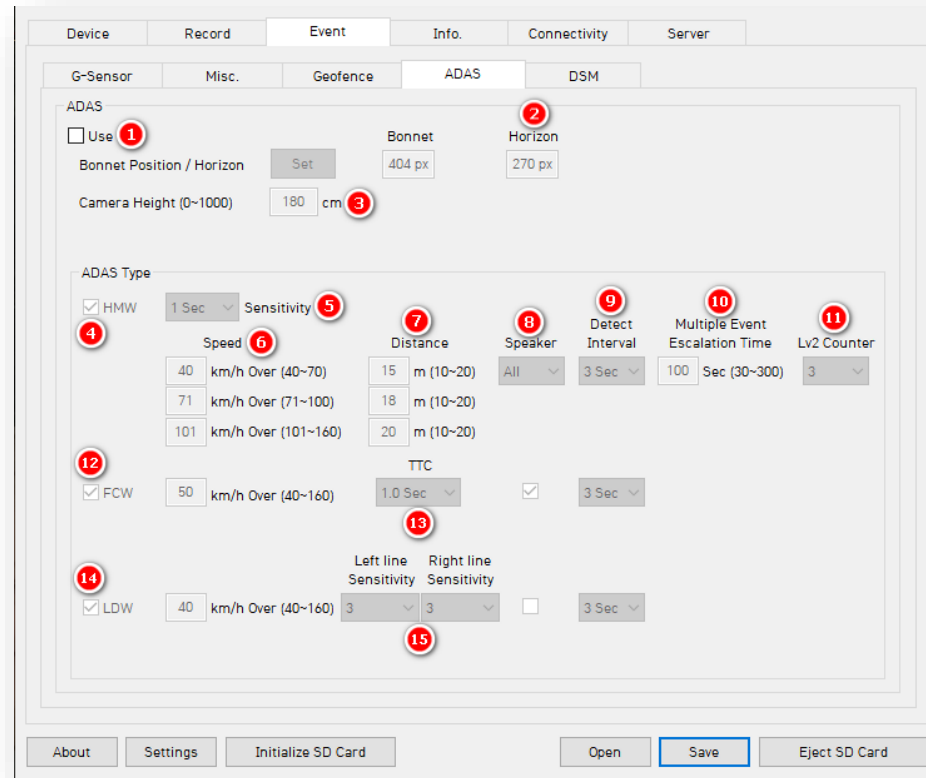
No.	Title
<input type="checkbox"/> 1	Geofence



# Event > ADAS

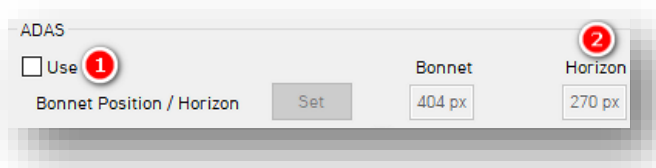
## 4.3.4 ADAS Fields

### Event > ADAS Tab Layout: At a Glance

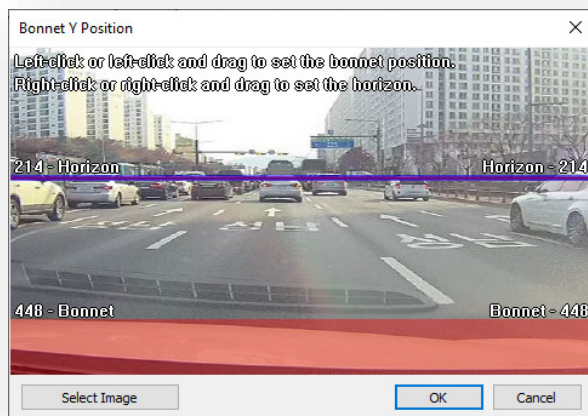


## Event > ADAS

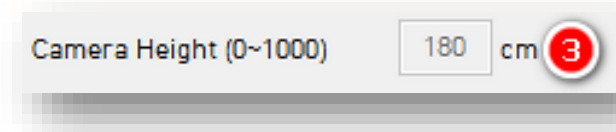
1. Turn on ADAS feature capabilities by clicking **Use**. This gives you access to enable ADAS events and change individual settings independently.
2. To mark the **Bonnet Position** (vehicle hood's horizontal pixel line) and **Horizon** line, click **Set**.



- Use the pop-out window to set each line and click **OK** to save.



3. Mark the **Camera Height** on the windshield. This measurement is from the ground to the center of the camera lens. Set your camera height in 10cm increments.
  - Example: if the height is 173cm, set the **Camera Height** as 170cm.
  - This setting is integral to proper ADAS calibration, so ensure you have inputted measurements correctly.



## Event > ADAS

### ADAS Type

4. Click **HMW** to activate the event type.
5. To set the amount of time your vehicle must be within a speed/distance window to trigger an event, select a **Sensitivity**.
6. Establish the **Speed** range for event activation. The configurable threshold must be surpassed for HMW in each speed window. Within this window, events will trigger.
7. Set the **Distance** threshold. An event triggers if this distance, measured from the front end of the driver's vehicle to the rear of the vehicle ahead, is breached and the speed threshold is surpassed.

Speed	Distance
40 km/h Over (40~70)	15 m (10~20)
71 km/h Over (71~100)	18 m (10~20)
101 km/h Over (101~160)	20 m (10~20)

8. To determine the conditions for in-cabin alerts, select a **Speaker** setting. **All** plays Lv1 and Lv2 audio alerts.

**Note:** You can determine the type of sound received by drivers [here](#).

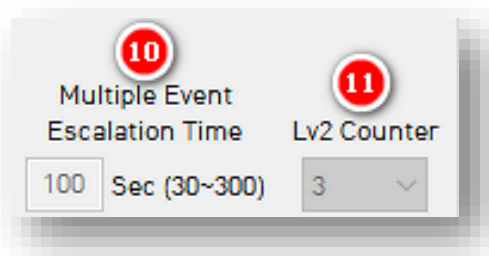
9. Define a time, or **Detect Interval**, during which KP2 disregards repeated event instances.
  - Example: If the interval is set to 10 sec, and an event triggers continuously for 10 sec, only one event is delivered.

Speaker	Detect Interval
All	3 Sec

## Event > ADAS

10. Select a **Multiple Event Escalation Time**. If the vehicle exceeds the number of tailgating instances set in Lv2 Counter during the Escalation Time, event severity escalates to Lv2 or “Level 2.”
  - Example: A time of 100 seconds with an Lv2 setting of “3” is set. If an event triggers more than three times, the event raises to Lv2.
11. Choose the **Lv2 Counter** or number of event instances required during the Escalation Time to raise severity.

**Note:** Multiple Event Escalation Time and Lv2 Counter manage event reporting. They are not correlated with event detection sensitivity.



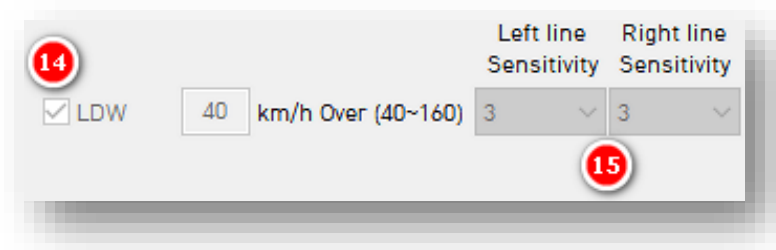
12. Check **FCW** to enable the event type.
13. **TTC**, or Time to Collision, is a value that determines the amount of time until approximate collision.
  - TTC is based on the driver’s vehicle speed and the apparent speed of the vehicle ahead.
  - We recommend that the *higher* your speed threshold, *the greater* the TTC setting.
  - TTC resolution time is as follows:
    - 0.1 sec if TTC < 1 sec
    - 0.5 sec if TTC > 1 sec



## Event > ADAS

14. Select **LDW** to enable the event type.
15. Set the **Left line Sensitivity** and **Right line Sensitivity**. This determines the AI confidence level regarding solid lane line detection.
  - Lower line detection sensitivity results in *fewer* events triggered.
  - The *higher* the line detection sensitivity, the *greater* number of events triggered.
  - A setting of **3** is recommended.

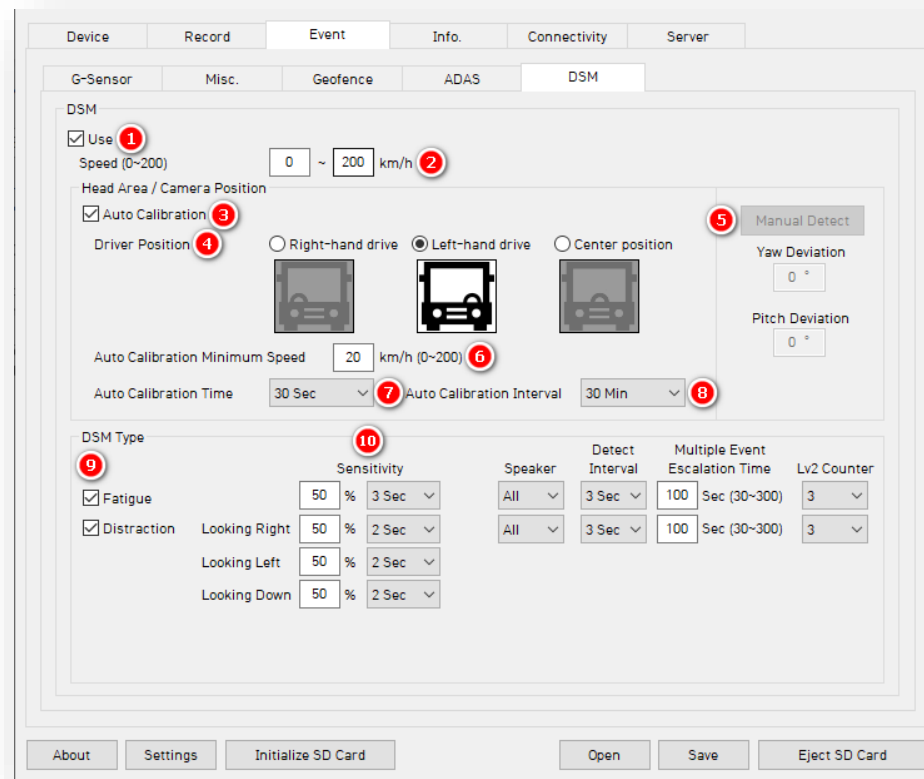
**Note:** LDW lane detection does not incorporate color recognition.



# Event > DSM

## 4.3.5 DSM Fields

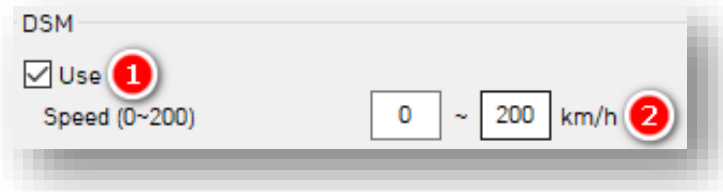
### Event > DSM Tab Layout: At a Glance



## Event > DSM

### DSM

1. Activate DSM event capabilities by clicking **Use**. This gives you access to enable DSM events and change individual settings independently.
2. Limit DSM events to a specified range by setting **Speed** values.

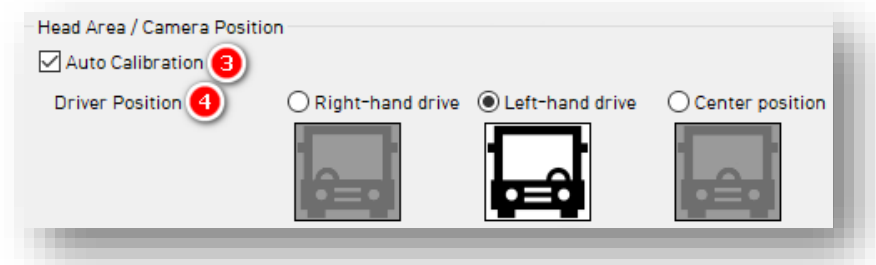


**Note:** Changing minimum speed values within the speed range affects the device's autocalibration capabilities. Ensure the minimum DSM **Speed** value does not exceed the **Auto Calibration Minimum Speed**.

### Head Area/Camera Position

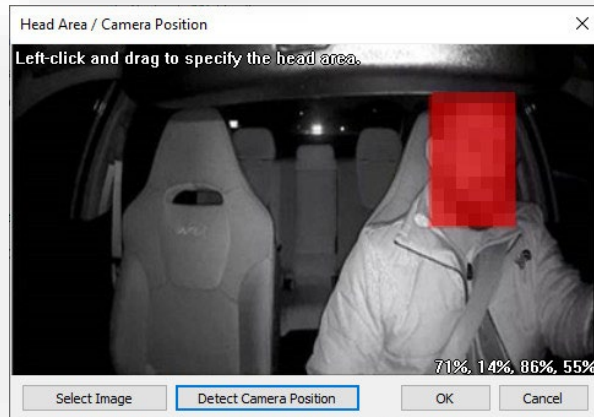
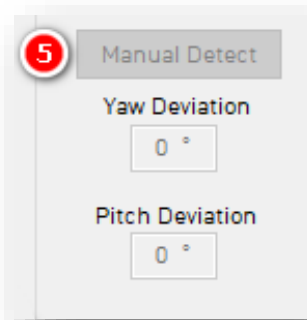
You may automatically or manually set a driver's position. See steps 3-5 for automatic or step 6 for manual calibration.

3. To automatically recalibrate a driver's head and camera position for DSM event detection, click **Auto Calibration**.
4. Select the **Driver Position** in the vehicle.



## Event > DSM

- To manually mark a driver's head area, click **Manual Detect**. Only use this feature if the driver's head position is fixed.
  - Use the pop-up window to specify the area and click **OK**.



**Yaw Deviation** calculates automatically once the driver's head area is set.



**Pitch Deviation** calculates automatically once the driver's head area is set.





## Event > DSM

- Specify a threshold to enable auto calibration functions via **Auto Calibration Minimum Speed**. It is recommended to set a speed above 30 km/h to improve calibration accuracy.
- Choose the **Auto Calibration Time** for your camera (30 sec recommended).
- To set a threshold for the device auto re-calibration period, select an **Auto Calibration Interval**.

Auto Calibration Minimum Speed  km/h (0~200) **6**

Auto Calibration Time  **7** Auto Calibration Interval  **8**

## DSM Type

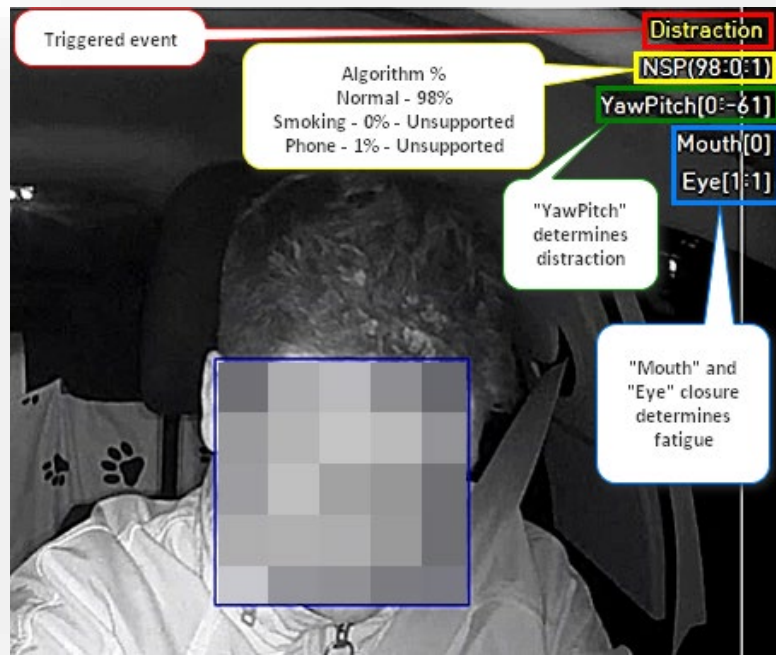
- To assign various DSM triggers, check behaviors like **Fatigue**.
- Set a **Sensitivity** % and the time necessary to trigger an alert.
  - Example:** Fatigue events trigger when eyelid closure occurs for 3 or more seconds or if yawning exceeds 50% (2.5 cm) for the same period.

DSM Type		Sensitivity	
<input checked="" type="checkbox"/>	Fatigue	<input type="text" value="50"/> %	<input type="text" value="3 Sec"/> ▾
<input checked="" type="checkbox"/>	Distraction		
	Looking Right	<input type="text" value="50"/> %	<input type="text" value="2 Sec"/> ▾
	Looking Left	<input type="text" value="50"/> %	<input type="text" value="2 Sec"/> ▾
	Looking Down	<input type="text" value="50"/> %	<input type="text" value="2 Sec"/> ▾

**Note:** Review details about other settings, such as Multiple Event Escalation Time, [here](#). Despite these values being ADAS settings, the logic is the same.

## Event > DSM

Review the image and corresponding values below to see how edge analysis identifies a DSM event.



**Note:** "Drowsiness" in the settings.ini file equates to "Fatigue" in the configuration tool.

## Info > Date/Time

### 4.4 How to Configure Info Tab

#### 4.4.1 Date/Time Fields

Setting time preferences on your KP2 is **not recommended**. PC Viewer software and SmartAPI automatically adjust UTC to your local time zone. **If you've connected your KP2 to SmartAPI, do not set time preferences.**

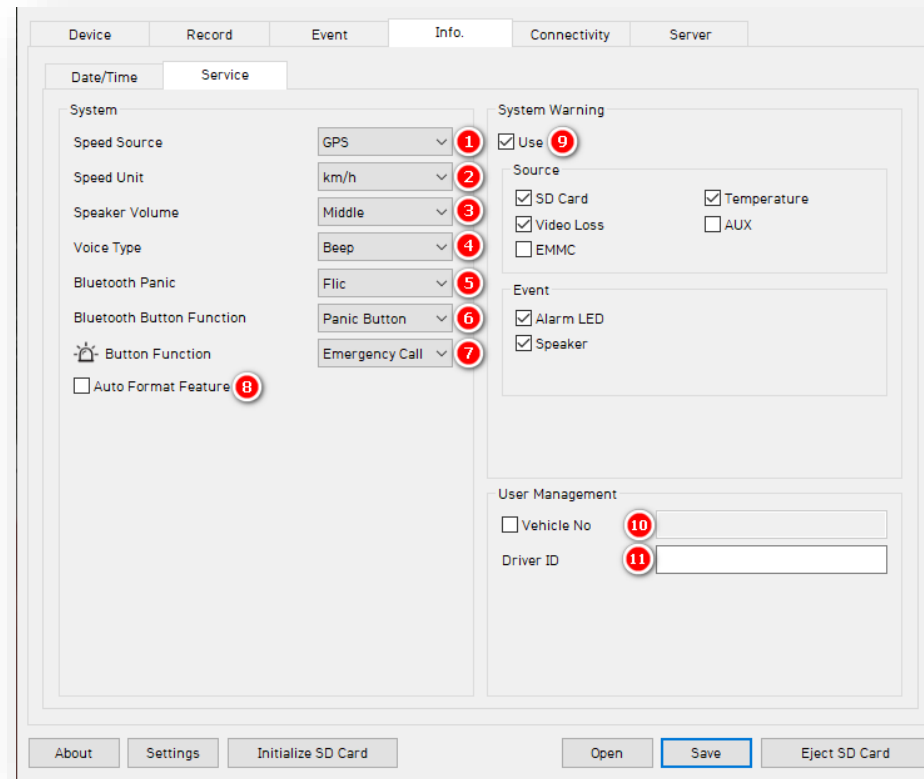
1. Set a customized date and time range for **Daylight Savings Time**.
2. Ensure GPS time syncs with device OS time by clicking **Time Sync**.
3. Use PC Viewer software to set your device's time zone by clicking **Retrieve time settings from my PC**.

The screenshot shows the 'Date/Time' configuration window. It features two tabs: 'Date/Time' (selected) and 'Service'. The 'Time Zone' is set to 'UTC'. A button labeled 'Retrieve time settings from my PC' is located in the top right corner, marked with a red circle containing the number 3. Below this, there is a checkbox for 'Daylight Saving Time' which is currently unchecked, marked with a red circle containing the number 1. Underneath, there are two rows of dropdown menus for 'Start' and 'End' times, both currently set to 'Jan.', '1st', 'Sunday', and '8 o'clock'. At the bottom, there is a checked checkbox for 'Time Sync', marked with a red circle containing the number 2.

# Info > Service

## 4.4.2 Service Fields

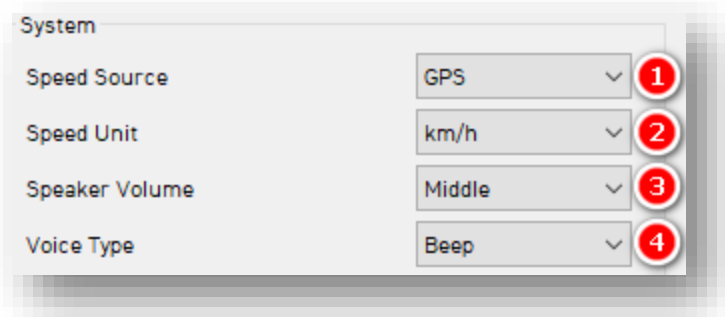
### Info > Service Tab Layout: At a Glance



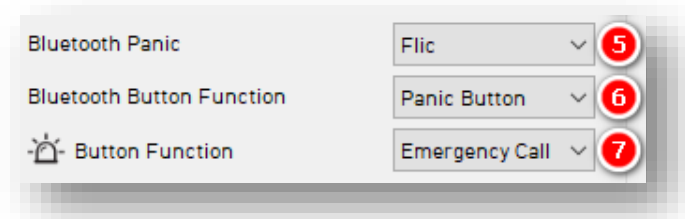
## Info > Service

### System

1. Your KP2 uses true vehicle speed data from the vehicle bus as a **Speed Source** whenever possible. Without vehicle speed data, the device will use GPS-sourced speed to inform related calculations (for example, ADAS).
2. Set a preferred **Speed Unit**.
3. Set your device's audio levels by choosing a **Speaker Volume**.
4. Select the type of in-cabin alerts for ADAS/DSM events. Either **Beep** or **Voice 1**.

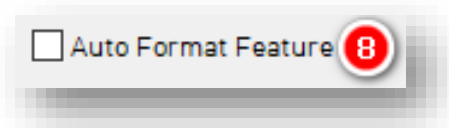


5. Pair your KP2 with a wireless **Bluetooth Panic** button. Find setup specifications on page 8 of the [KP2 User Guide](#). To find more detailed instructions, follow this [link](#). These instructions still apply, despite being for CP2.
6. Use your **Bluetooth Button Function** as an external **Panic Button** or for **Emergency Call** triggers.
7. Set your device's small black **Button Function**.



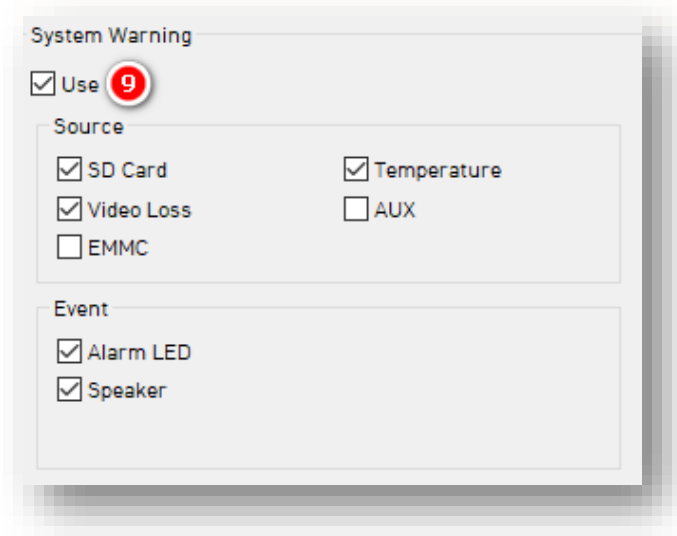
## Info > Service

8. KP2 executes SD card necessary maintenance automatically when the **Auto Format Feature** is on.
- This function formats blank SD cards automatically.
  - It will not format corrupted SD cards automatically. Instead, the device sends a “Media Error” event to the server. Optionally, an audible alarm and the red LED will turn on (see [System Warning](#)).



## System Warning

9. Provide system component corruption and failure notifications by clicking **Use**.
- Check any/all boxes to allow for those alerts.
  - System Warning **Event** types allow for specific alarms.



## Info > Service

### User Management

10. To assign a number to your vehicle, check **Vehicle No**, and enter a value.
11. Write a unique **Driver ID** for different vehicles.

**Note:** You can watermark **Vehicle No** & **Driver ID** on your MP4 converted video feed with PC Viewer software.



The screenshot shows a 'User Management' window with two input fields. The first field is labeled 'Vehicle No' and has a red circular icon with the number '10' next to it. The second field is labeled 'Driver ID' and has a red circular icon with the number '11' next to it. Both fields are currently empty.

# Connectivity

## 4.5 How to Configure Connectivity Tab Connectivity Tab Layout: At a Glance

The screenshot shows the 'Connectivity' tab in a software interface. It features several sections for configuration: 'Mobile Network', 'Wi-Fi', and 'Voice Call'. Each section contains various input fields and checkboxes. Red circles with numbers 1 through 10 are placed over specific UI elements to highlight them. At the bottom, there are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Eject SD Card'.

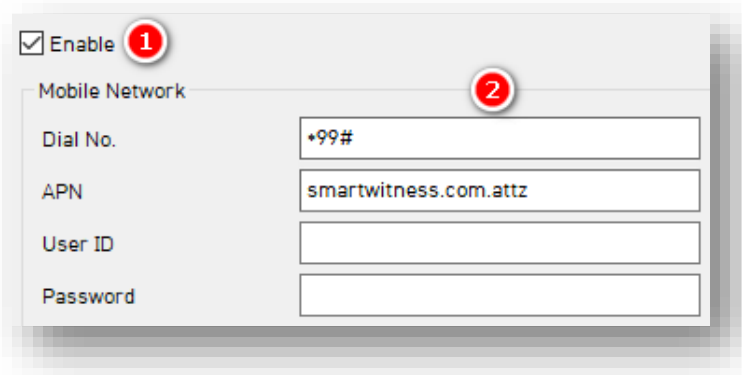
Section	Field/Control	Value/State	Callout
Mobile Network	Enable	<input checked="" type="checkbox"/>	1
	Dial No.	+99#	2
	APN	smartwitness.com.attz	
	User ID		
	Password		
Wi-Fi	Encrypt Wi-Fi	<input type="checkbox"/>	3
	STA Mode	<input checked="" type="radio"/>	4
	AP Mode	<input type="radio"/>	5
	AP	1	6
	Password		8
Voice Call	Outgoing Number		9
	Incoming Number		10



# Connectivity

## Mobile Network

1. Specify mobile and WIFI network settings by clicking **Enable**.
2. Add **Mobile Network** details to relevant fields.



The screenshot shows a 'Mobile Network' settings panel. At the top left, there is a checked checkbox labeled 'Enable' with a red circle containing the number '1' next to it. Below this is the 'Mobile Network' section header with a red circle containing the number '2' next to it. Underneath are four input fields: 'Dial No.' with the text '+99#', 'APN' with the text 'smartwitness.com.attz', 'User ID' (empty), and 'Password' (empty).

## Wi-Fi

3. To set up advanced security for your network connection, check **Encrypt Wi-Fi**.
4. If choosing a standard setup for your Wi-Fi connection, click **STA Mode**. Select this when connecting to an existing Wi-Fi network (in place of a cellular network connection).
5. When setting up your device as its own access point, click **AP Mode**. Select this if you are creating a network hotspot with your KP2.

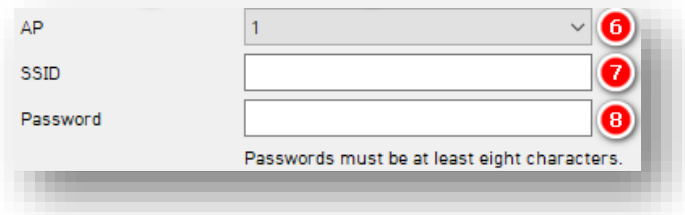


The screenshot shows a 'Wi-Fi' settings panel. It features three options: 'Encrypt Wi-Fi' with an unchecked checkbox and a red circle containing the number '3' next to it; 'STA Mode' with a selected radio button and a red circle containing the number '4' next to it; and 'AP Mode' with an unselected radio button and a red circle containing the number '5' next to it.

## Connectivity

Set up to 10 Wi-Fi networks your KP2 can connect to for STA mode. Secure the access point with a password and WPA/WPA2 encryption.

6. The KP2 will scan for as many networks as are added in your settings.
7. Set your Wi-Fi's unique **SSID**.
8. Your **password** must be at least 8 characters.



A screenshot of a Wi-Fi configuration interface. It features three input fields: 'AP' with a dropdown menu showing '1', 'SSID', and 'Password'. To the right of each field is a red circular icon with a white number: '6' for AP, '7' for SSID, and '8' for Password. Below the 'Password' field, a note reads 'Passwords must be at least eight characters.'

## Voice Call

To use this feature, you must turn on **Emergency Call** and associate **Voice Call** with the on-device or external button functions (see [steps 6 & 7](#) in **Info > Service**). SIM cards require a phone number, and you must activate your SIM for voice communication.

9. Enter your **Outgoing Number**. Press the button associated with the Ecall function. A tone signals connection.
10. Enter your **Incoming Number**. This is the only phone number allowed to call into your KP2.



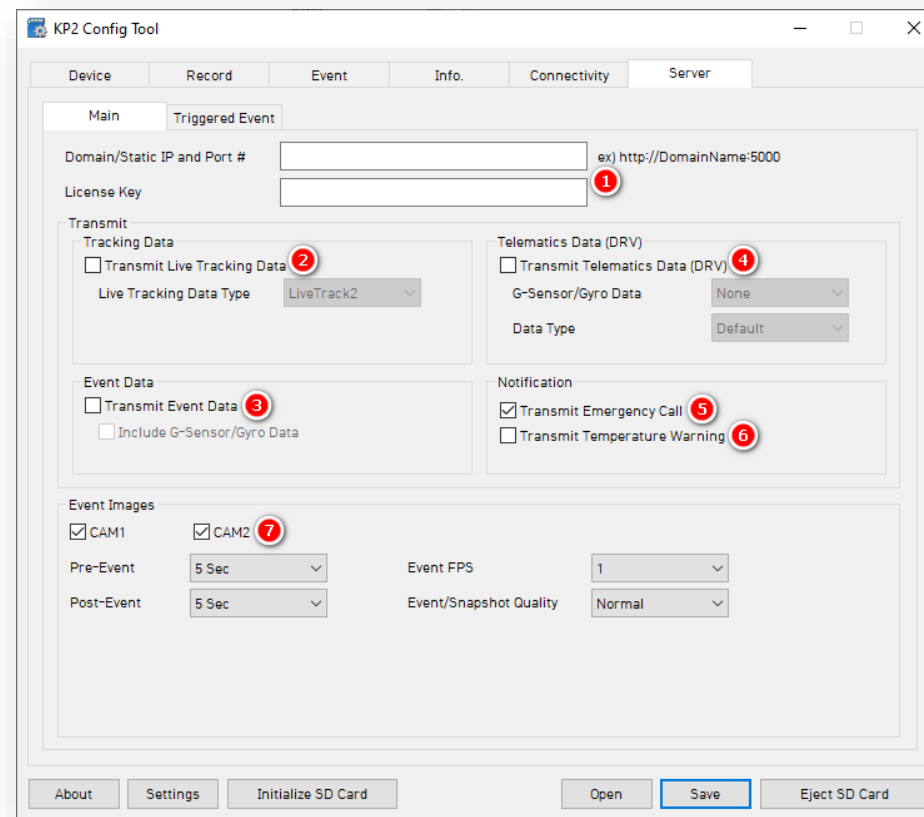
A screenshot of a 'Voice Call' configuration interface. It has two input fields: 'Outgoing Number' and 'Incoming Number'. To the right of each field is a red circular icon with a white number: '9' for Outgoing Number and '10' for Incoming Number.

# Server

## 4.6 How to Configure Server Tab

### 4.6.1 Main Fields

#### Server > Main Tab Layout: At a Glance



## Server > Main

### Server

1. Sensata INSIGHTS, or your service provider, will give you the **Domain/Static IP and Port # URL** and **License Key** (if necessary) to enter here.



Domain/Static IP and Port #  ex) http://DomainName:5000

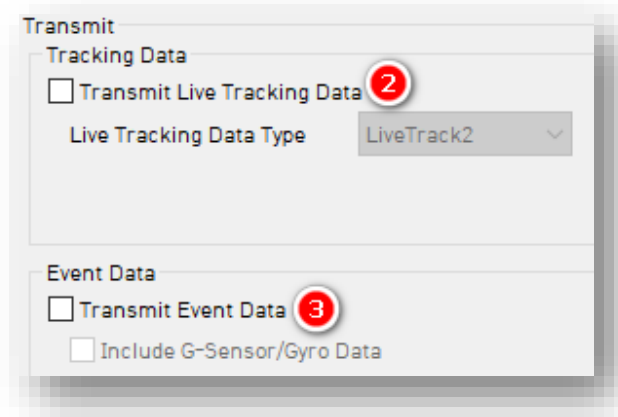
License Key

### Transmit

2. To send HTTP posts from your KP2 to the server, click **Transmit Live Tracking Data**. Select from **Live Tracking Data Type** options.

**Note:** Livetrack2 has GPS coordinates. LiveTrack3 does not.

3. To deliver event notifications and images to the server, select **Transmit Event Data**.



Transmit

Tracking Data

Transmit Live Tracking Data

Live Tracking Data Type

Event Data

Transmit Event Data

Include G-Sensor/Gyro Data

## Server > Main

4. Send DRV data to the server by clicking **Transmit Telematics Data (DRV)**. 4 Hz is the recommended setting. This is the preferred frequency for *AIDE*.
5. To send Ecalls (Severe Shock) to the server, click **Transmit Emergency Call Notification**.
6. To relay device overheating issues to the server, select **Transmit Temperature Warning**.

**Note:** SmartAPI controls the frequency interval of LiveTrack and DRV uploads.

Telematics Data (DRV)

Transmit Telematics Data (DRV) 4

G-Sensor/Gyro Data None

Data Type Default

Notification

Transmit Emergency Call 5

Transmit Temperature Warning 6

## Event Images

7. Choose which camera channels send event images to the server.
8. Determine snapshot timing before and after an event by selecting **Pre-Event** and **Post-Event** options.

Event Images

CAM1  CAM2 7

Pre-Event 5 Sec

Post-Event 5 Sec 8

9. Select image capture settings for **Event FPS** and **Snapshot Quality**.

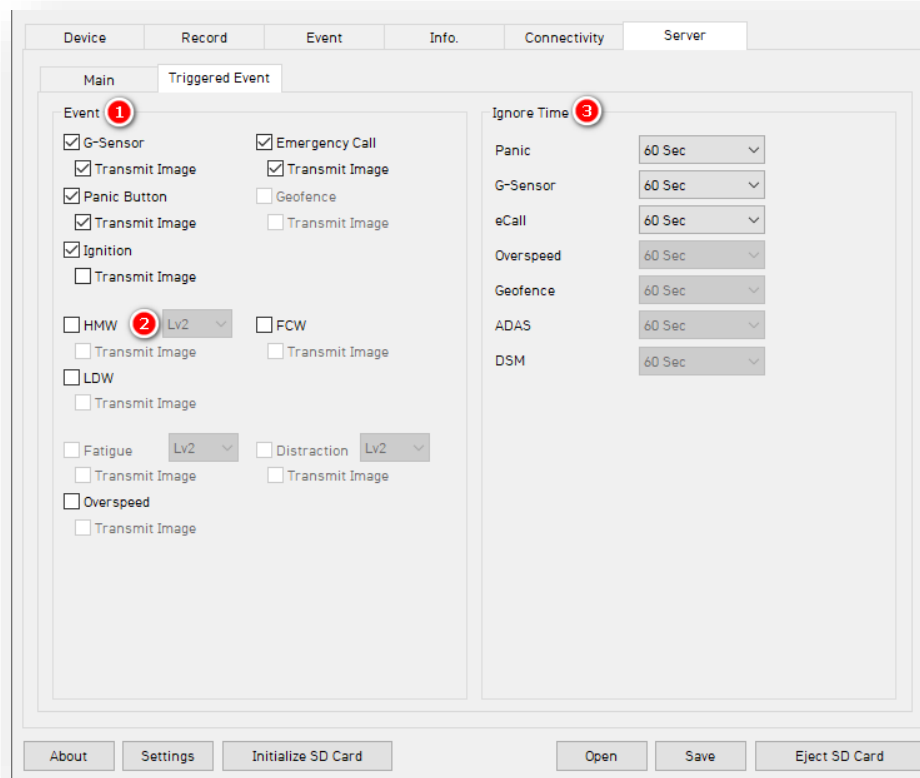
Event FPS 1

Event/Snapshot Quality Normal 9

# Server > Triggered Event

## 4.6.2 Triggered Event Fields

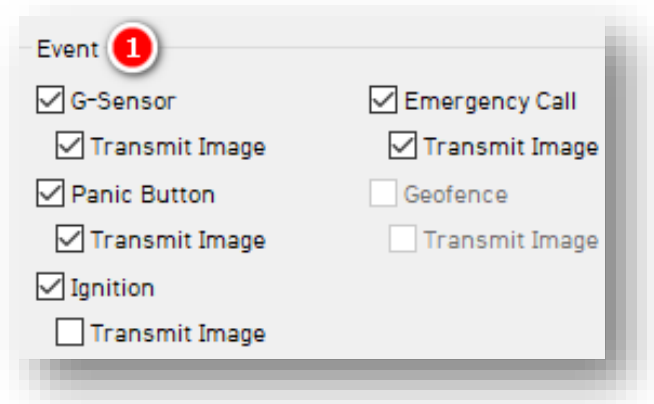
### Server > Triggered Event Tab Layout: At a Glance



## Server > Triggered Event

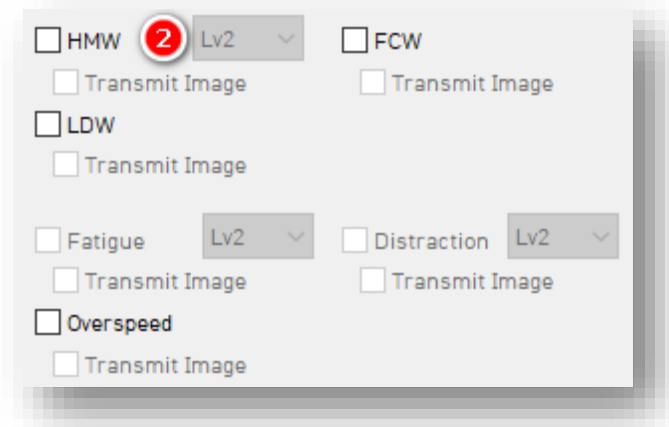
### Event

1. Decide what events and notifications your device send to the server by selecting options like **G-Sensor** and **Emergency Call** (Severe Shock). Events will send instantly, even if your device is in “Continuous” record mode.



**Note:** SmartAPI Workstation event admin controls dictate what events and event notifications are sent from SmartAPI to our partner’s servers.

2. Select the alert severity sent to the server. **Lv2** is a different event payload sent to the server. It is not a separate event type.



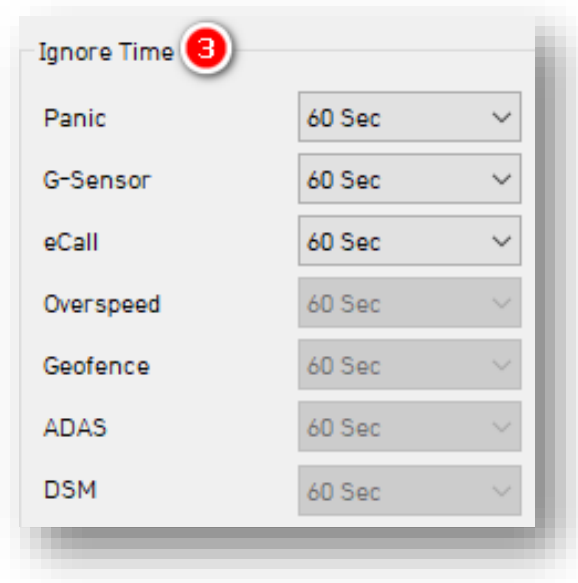
## Server > Triggered Event

### Ignore Time

**Ignore Time** sets the length of time repeated events are ignored for event uploads to the server. This is referred to as the “1-minute server rule.”

For **ADAS**, **DSM** and other events, select either of the following:

- **Off**: Disables the feature.
- **60 Sec**: Enables the feature.





## Complete Your Configuration

### 5 Finishing Up/Support

**Goal:** Completing your Configuration

1. Click **Save** to set your finalized settings configuration.
2. Select **FHDM** SD drive when prompted. Your configuration saves to your card.
3. Wait for confirmation that the software applied your settings configuration.
4. Click **Eject SD Card**, insert it into KP2, and power on your device.
5. You have completed your configuration.

**Note:** Apply device configurations over the air from the SmartAPI Workstation. See the instructions [here](#). While KP2 is not mentioned, the same process applies.

#### 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](mailto:support@smartwitness.com). If you are enrolled in SWAT, reach out to the integration team via Teams with any device configuration questions.

Feel free to call our support team:

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

+1 (312) 981 8774

- **EMEA**

+44 (0) 1483 397005