

CP4/CP4S CONFIGURATION TOOL GUIDE v3.8.0

*A jumpstart to video
telematics
configuration*


Sensata **IN**



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Introduction

1 Welcome to Your CP4/CP4S Configuration Guide

This guide aims to inform users of the appropriate processes involved in setting up your Sensata INSIGHTS CP4/CP4S device.

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](#).

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

We hope 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/or contact our [support](#) teams.

Note: Use this configuration guide with at least version 3.8.0.0 of the CP4/CP4S Configuration Tool. Content in this guide was released in coordination with CP4S firmware version 3.8.0.

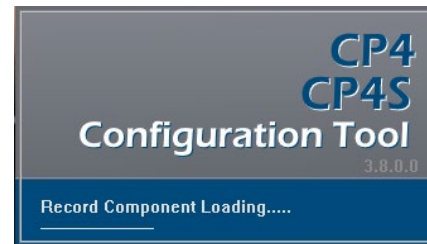
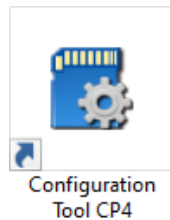
CP4/CP4S Download & Installation

2 CP4/CP4S 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 downloading, proceed to installation.
2. Open the configuration tool and insert your SD Card*.
3. Click **Initialize SD Card**.
4. Select the **SD Card** from the preferred internet browser.
5. Click **Start** to initialize.

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

*The maximum size supported for your SD card is 256 GB.

CP4/CP4S Configuration Tool Layout

3 Configuration Tool Layout & Settings

Goal: Understand your tool's main features

The screenshot shows the Configuration Tool interface with several callout boxes:

- Settings Tabs designate major areas of configuration:** Points to the tabs at the top: Device, Record, Event, Info., Connectivity, and Server.
- Some settings sub-fields use checkboxes:** Points to the checkboxes for CAM1, CAM2, CAM3, and CAM4 in the Camera section.
- Some settings sub-fields use text fields:** Points to the Camera Title input fields for CAM1 through CAM4.
- Some settings sub-fields use drop-down selection:** Points to the None drop-down menu in the EXT-Device 2 Port field.
- Click 'About' to see configuration tool version information:** Points to the About button at the bottom left.
- Click 'Settings' to change the language and model. If applicable, change to "CP4S":** Points to the Settings button at the bottom left.
- Click 'Initialize SD Card' to prepare SD card:** Points to the Initialize SD Card button at the bottom left.
- Click 'Open' to load a previously saved configuration:** Points to the Open button at the bottom right.
- Click 'Save' at the end of the configuration process:** Points to the Save button at the bottom right.
- Click 'Close' to exit the configuration tool:** Points to the Eject SD Card button at the bottom right.

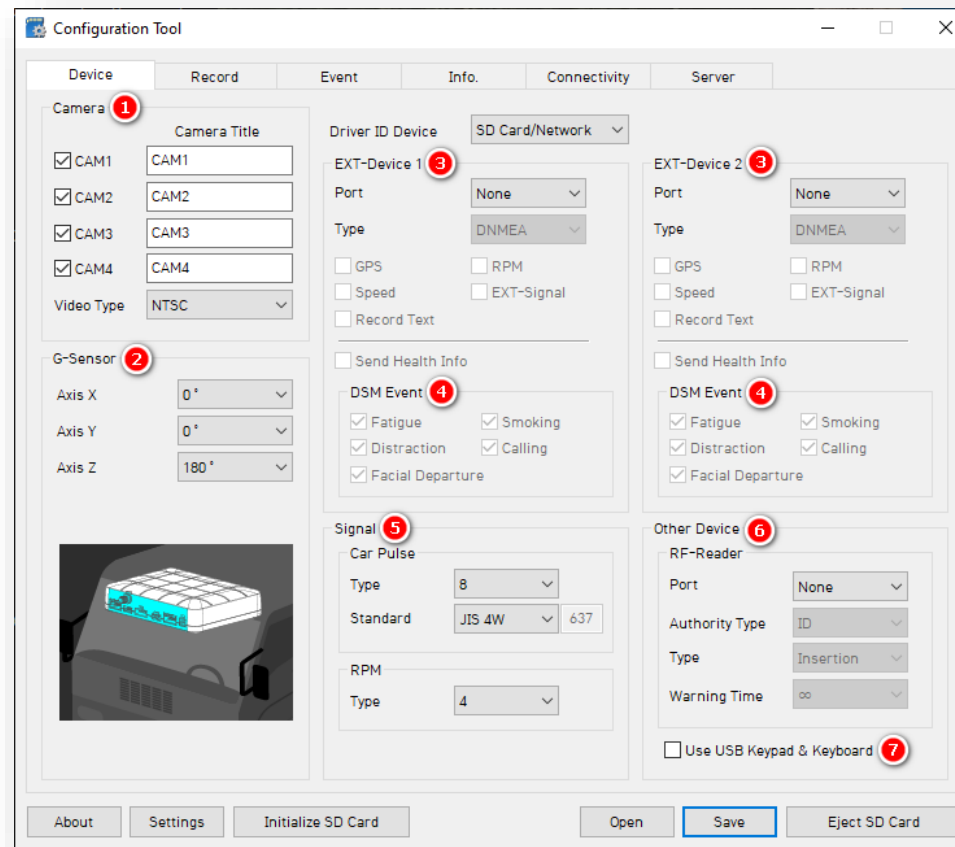
Device

4 Configuring Your Device

Goal: Personalize and optimize your device's settings

4.1 How to Configure Device Tab

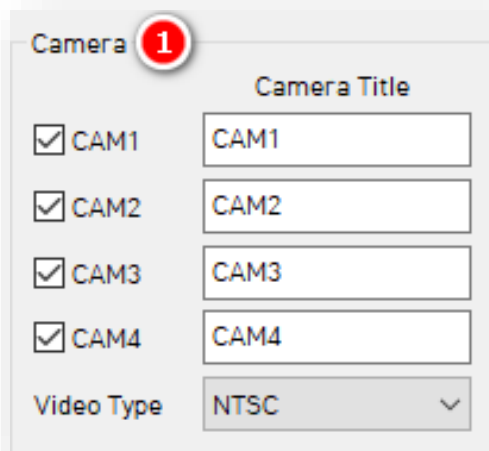
Device Tab Layout: At a Glance



Device

Camera

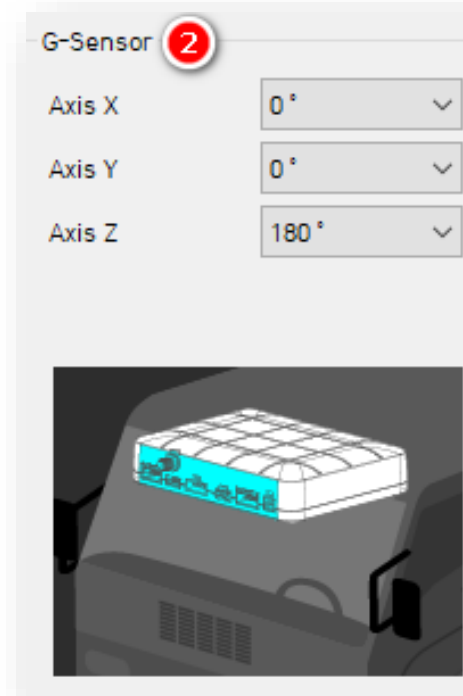
1. Activate your desired cameras, label them and select your preferred video standard via **Video Type**.
 - Ensure **Video Type** matches the video standard of your accessory cameras.
 - Typically, North America is **NTSC** and EMEA is **PAL**.



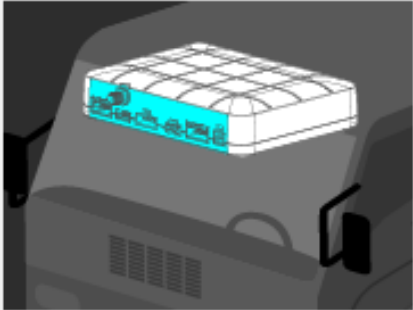
Camera	Camera Title
<input checked="" type="checkbox"/> CAM1	CAM1
<input checked="" type="checkbox"/> CAM2	CAM2
<input checked="" type="checkbox"/> CAM3	CAM3
<input checked="" type="checkbox"/> CAM4	CAM4
Video Type	NTSC

G-Sensor

2. To designate the device's install position, select from each option. This allows for G-Sensor calibration and accurate drive data reporting. See all orientations and corresponding axis values [here](#).



G-Sensor	Axis	Value
	Axis X	0°
	Axis Y	0°
	Axis Z	180°



Device

EXT – Device 1 & 2

3. Allow external devices to work with your CP4/CP4S by selecting from **EXT – Device’s** list of accessory devices and relevant data points.
 - Add-ons connect to the device’s serial CP4/CP4S input once the **S3** port is activated.
4. **DSM Event** access requires specific “Driver State Monitoring” AI camera models like KP2.

EXT-Device 1 **3**

Port: None

Type: DNMEA

GPS RPM

Speed EXT-Signal

Record Text

Send Health Info

DSM Event **4**

Fatigue Smoking

Distraction Calling

Facial Departure

Signal

5. **(Optional)** Select from **Car Pulse Type, Standard,** and **RPM Type** options. Configure the input wires attached to the CP4/CP4S I/O harness. Connect to the tachometer to receive vehicle RPM and/or speed.
 - **Pulse Signal:** pull up, pull down.
 - **Type:** 1 – 25.
 - **Standard:** JIS 4W/JIS 2W, 3W/SA E/DIN/BNA/MANUAL.
 - **RPM Type:** 1 – 10.

Signal **5**

Car Pulse

Type: 8

Standard: JIS 4W 637

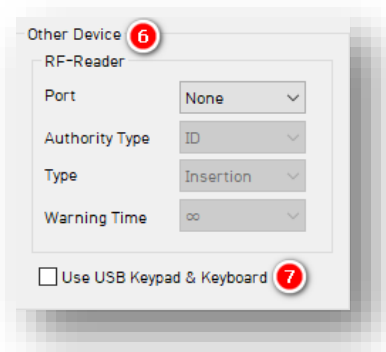
RPM

Type: 4

Device

Other Device

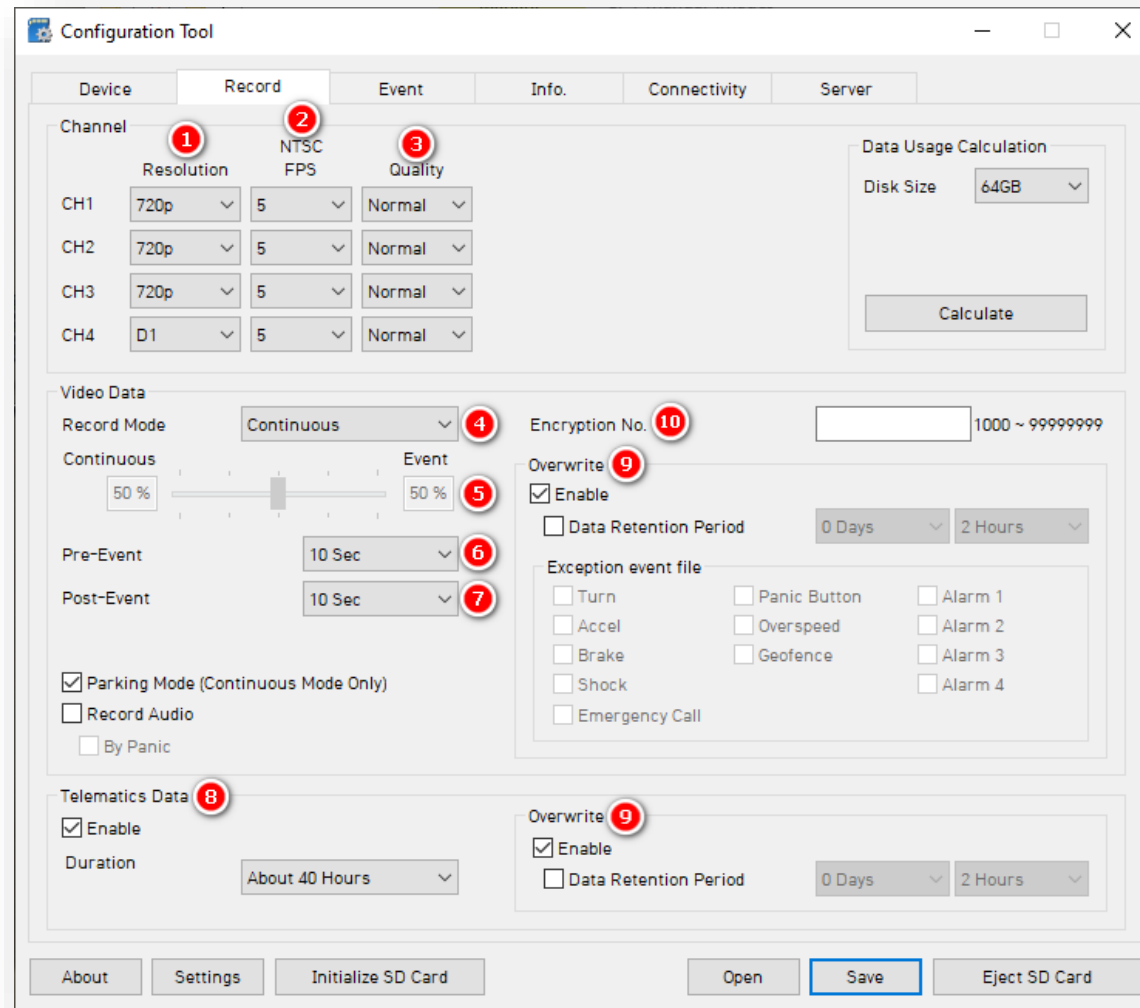
6. **(Optional)** Set up an accessory device (RF-Reader or Radio Frequency Reader) that connects to the serial input. Designate the reader **Type** and **Warning Time**.
7. Allow a connection for these devices by clicking **Use USB Keypad & Keyboard**.



Note: Contact Sensata INSIGHTS about RFID system compatibility. Sensata INSIGHTS SmartID replaces the need for RFID systems to manage driver identification.

Record

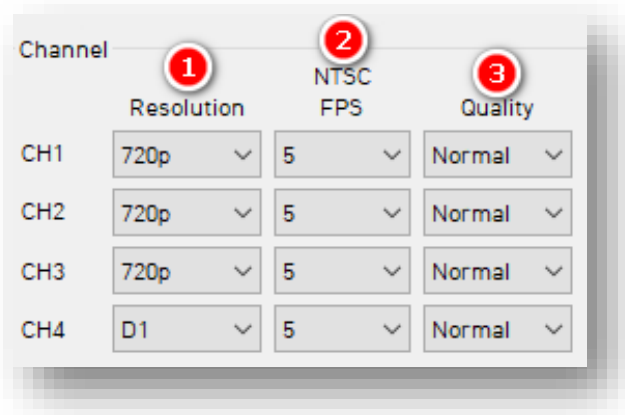
4.2 How to Configure Record Tab Record Tab Layout: At a Glance



Record

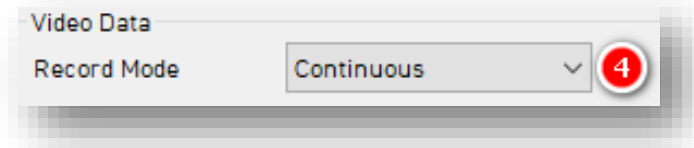
Channel

1. Select the **Resolution** for your enabled camera channels:
 - **D1** (720 x 480), **720p** (HD), **1080p** (FHD).
2. Select a **Frame Rate (FPS)**:
 - **30, 15, 10, 5, 4, 3, 2, 1** and **0**.
3. Choose your default video **Quality**:
 - **Normal, High** or **Super** Bitrate.
Higher-quality video contains more detail but consumes more storage space on the SD card.



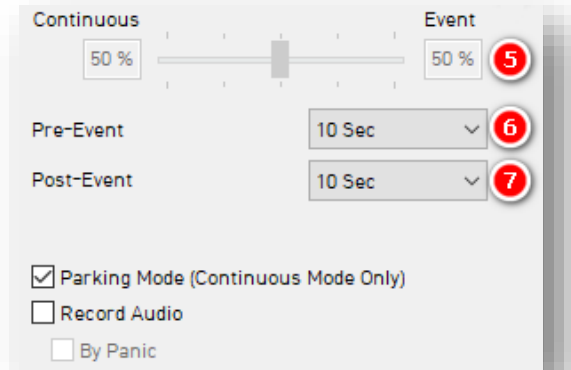
Video Data

4. Select your preferred **Record Mode**:
 - **Event**: Events only. Settings are determined by the pre & post-event setting.
 - **Continuous** (Default): Video continuously records, with no events recorded separately on the SD Card (Events are still sent to Smart API if configured in 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 specified FPS.



Record

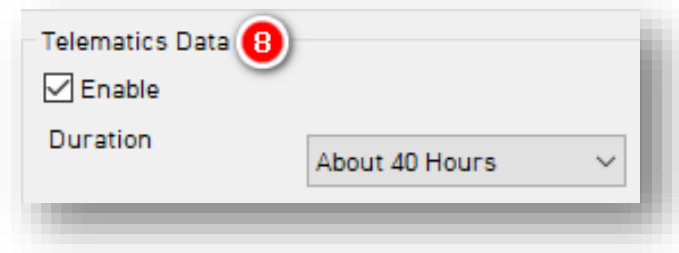
5. If you chose **Continuous+Event** mode, specify the SD card's ratio of video data recording.
6. To set the amount of time video records before an event, select your **Pre-Event Setting**.
7. To set the amount of time video records after an event, choose your **Post-Event Setting**.



Note: Pre/post-time settings do not apply to the “Continuous” record mode. **Parking Mode** reduces FPS to 1 when the vehicle idles for 5 min.

Telematics Data

8. Set the duration of your DRV Storage by clicking **Enable** and selecting **Duration**. DRV files record and are stored from video/event logs separately.



Record

8. To turn on your device's overwrite feature, click **Enable**. This automatically rewrites SD card video footage and telematics data.
- **Data Retention Period** determines how long video and telematics data remains on the SD card before being rewritten.
 - Select a list of **Exception event files** to remain on your SD card for longer periods.

Overwrite **9**

Enable

Data Retention Period 0 Days 2 Hours

Exception event file

Turn Panic Button Alarm 1

Accel Overspeed Alarm 2

Brake Geofence Alarm 3

Shock Alarm 4

Emergency Call

Overwrite **9**

Enable

Data Retention Period 0 Days 2 Hours

10. To protect SD card data from being easily accessible, enter an 8-digit **Encryption No.**

Encryption No. **10** 1000 ~ 99999999

Note: Use the **Data Usage Calculation** to estimate your SD card's storage capacity based on your applied recording settings.

Data Usage Calculation

Disk Size 64GB

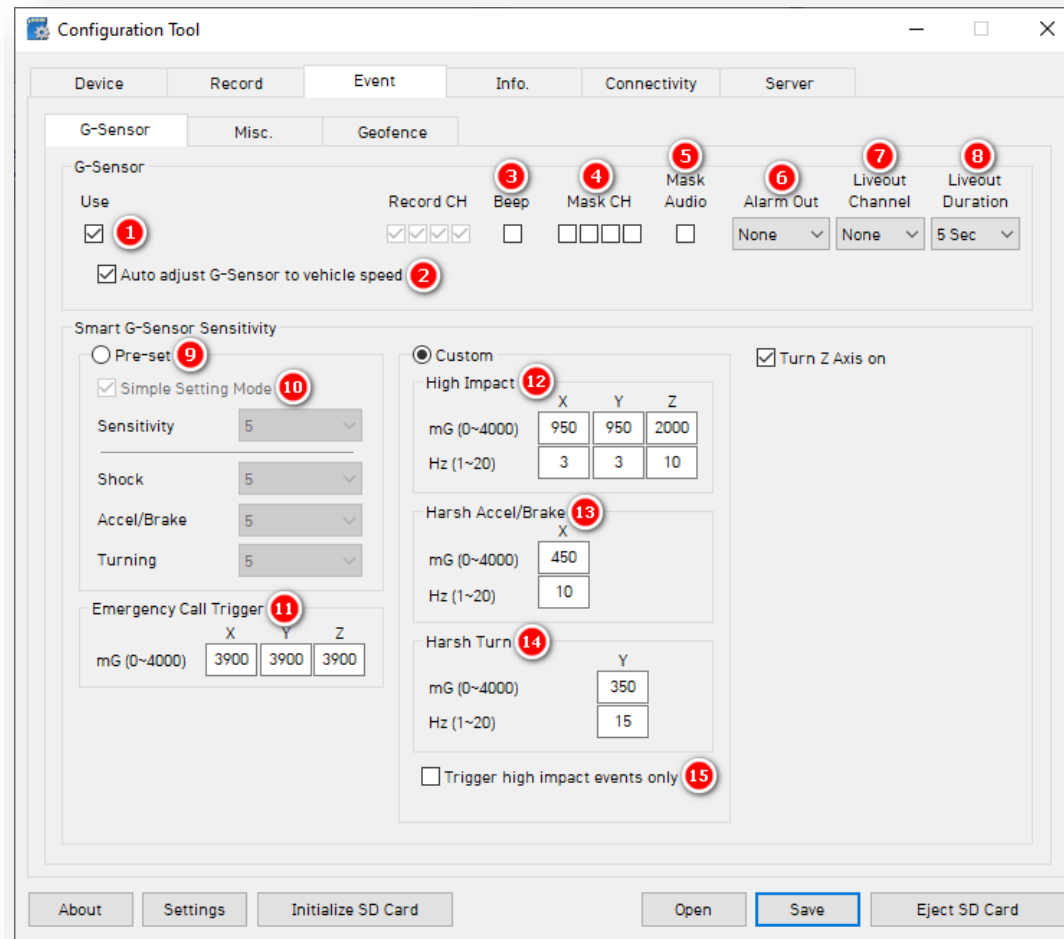
Calculate

Event

4.3 How to Configure Event Tab

4.3.1 G-Sensor Fields

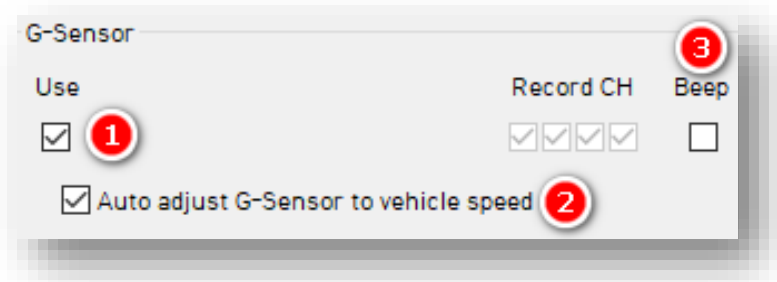
Event > G-Sensor Tab Layout: At A Glance



Event > G-Sensor

G-Sensor

1. To turn on the G-Sensor and configure its settings, check **Use**.
2. 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.
3. To turn on in-vehicle notifications for G-Sensor event triggers, check **Beep**.



Note: Individual selection of camera channels disables when your device is in “Continuous” mode.

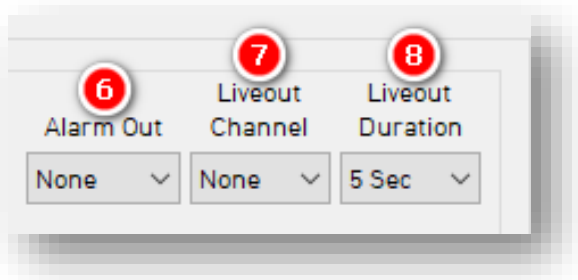
4. To prevent camera channel video recording, check **Mask CH**. Each checkbox corresponds to a channel (1-4, left to right).
5. Prevent device audio recordings by clicking **Mask Audio**.



Note: The masking of Video/Audio applies only during an event.

Event > G-Sensor

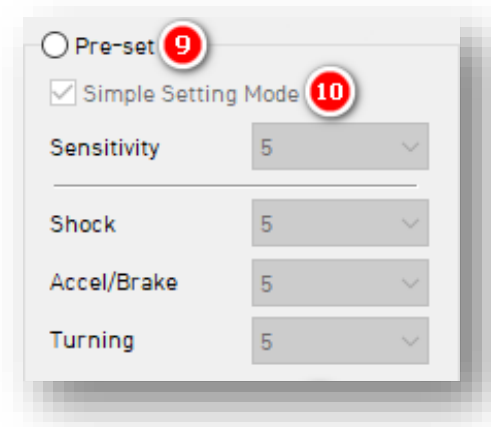
- To set the alarm's notification duration, select from the **Alarm Out** options.
 - This sends a 5V output through **Alarm Out** (Brown Wire).
- Decide which camera displays when your device's G-Sensor triggers by choosing from **Liveout Channel** options.
- Determine how long the selected camera channel stays on after a completed event by selecting a **Liveout Duration**.



Smart G-Sensor Sensitivity

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

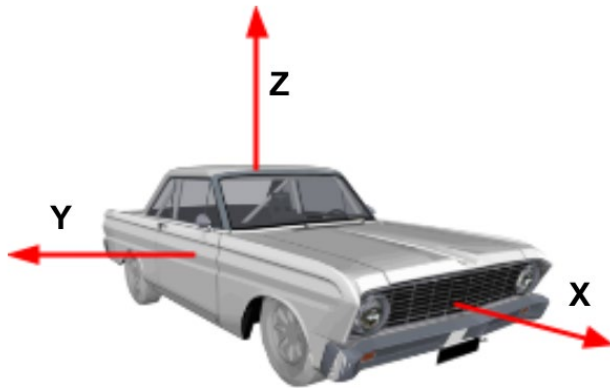
- To set general sensitivity settings, check **Pre-Set**. Lower sensitivities result in fewer G-Sensor-related events. Higher sensitivities result in more events.
 - Disable **Simple Setting Mode** to set **Shock, Accel/Brake** and **Turning** settings.
- To set an overall G-Sensor sensitivity, click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



Event > G-Sensor

11. 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 11			
	X	Y	Z
mG (0~4000)	3900	3900	3900



Custom

To set customized G-Sensor sensitivity settings, click **Custom**.

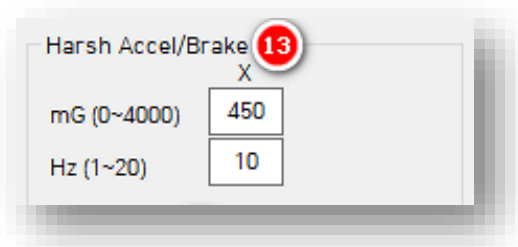
12. **High Impact** events occur if acceleration exceeds the X, Y or Z axis threshold (Activate the Z axis via **Turn Z Axis on**).

High Impact 12			
	X	Y	Z
mG (0~4000)	950	950	2000
Hz (1~20)	3	3	10

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. "Simple Setting Mode" is fixed at 1Hz. "Custom" is adjustable.

Event > G-Sensor

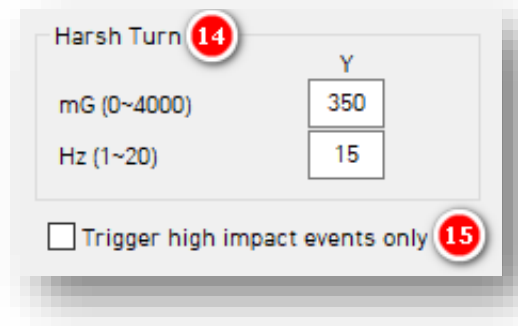
13. **Harsh Accel/Brake** events generate if acceleration exceeds the X axis threshold.



A screenshot of a settings window titled "Harsh Accel/Brake" with a red circle containing the number "13" next to the title. The window has a light gray background and a white border. It contains two input fields: "mG (0~4000)" with a value of "450" and "Hz (1~20)" with a value of "10". The text "X" is centered above the input fields.

Parameter	Value
mG (0~4000)	450
Hz (1~20)	10

14. **Harsh Turn** events occur if acceleration exceeds the Y axis threshold.
15. Check **High Impact Trigger** to limit alerts to high-impact events. This disables Accel/Brake and Turn events.



A screenshot of a settings window titled "Harsh Turn" with a red circle containing the number "14" next to the title. The window has a light gray background and a white border. It contains two input fields: "mG (0~4000)" with a value of "350" and "Hz (1~20)" with a value of "15". The text "Y" is centered above the input fields. At the bottom, there is a checkbox labeled "Trigger high impact events only" with a red circle containing the number "15" next to it.

Parameter	Value
mG (0~4000)	350
Hz (1~20)	15

Trigger high impact events only

Event > Misc.

4.3.2 Misc. Fields

Panic Button

1. To activate the Panic Button, check **Use**.
2. Turn on audible notifications when a driver presses the Panic Button by clicking **Beep**.
3. Set the duration of the alarm via the **Alarm Out** options.
 - This sends a 5V output through Alarm Out (Brown Wire).

Panic Button

Use	Record CH	Beep	Mask CH	Mask Audio	Alarm Out
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None

4. Decide which camera displays on the LCD when your device's Panic Button triggers via **Liveout Channel** options.
5. Determine how long your selected camera channel stays on after an event trigger by selecting a **Liveout Duration**.

Liveout Channel	Liveout Duration
None	5 Sec

Event > Misc.

Overspeed

- To configure Overspeed settings, click **Use**.
 - Enter your **Speed Limit** threshold for recording (gauges vehicle speed, not regional speed limits).
 - You should be familiar with the other settings featured in this image. Click [here](#) for a reference of each field's function. Apply the same logic to Overspeed settings.

Use	Speed Limit	Record CH	Beep	Mask CH	Mask Audio	Alarm Out	Liveout Channel	Liveout Duration
<input checked="" type="checkbox"/>	125 km/h Over	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None	None	5 Sec

Alarm-In

- To set your optional alarm input triggers, check **Use**. Under **Title**, label them according to the input type (e.g., doors).
 - Alarm 1** - White Wire
 - Alarm 2** - Purple Wire
 - Alarm 3** - Green Wire
 - Alarm 4** - Orange Wire
 - Input Types:**
 - V-On/Off** (12V)
 - N-C** (Normally Closed Circuit)
 - N-O** (Normally Open Circuit)

Note: Older CP4 hardware doesn't support Alarm 4. CP4/CP4S devices post-August 2018 support a 4th alarm input.

Use	Title	Type	Record CH	Beep	Mask CH	Mask Audio	Alarm Out	Liveout Channel	Liveout Duration
<input checked="" type="checkbox"/>	ALARM1	V-Off	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None	None	5 Sec
<input checked="" type="checkbox"/>	ALARM2	V-Off	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None	None	5 Sec
<input checked="" type="checkbox"/>	ALARM3	V-Off	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None	None	5 Sec
<input checked="" type="checkbox"/>	ALARM4	N-O	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None	None	5 Sec

Event > Misc.

EXT-Signal

8. Signal events are reserved for RS232 accessory devices with their own event triggers (like an ADAS or DMS camera). This allows CP4S to configure recording, masking and display rules for accessory devices. EXT-Signal serves no purpose beyond RS232 accessory devices.

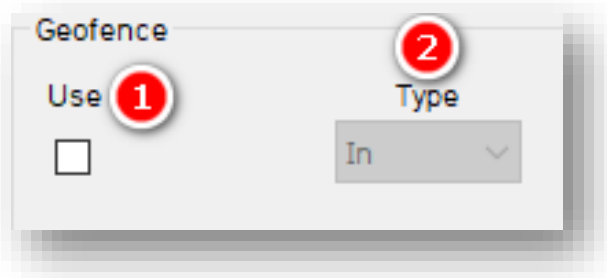
EXT-Signal								
Use	Title	Record CH	Beep	Mask CH	Mask Audio	Alarm Out	Liveout Channel	Liveout Duration
<input type="checkbox"/>	LEFT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None ▾	None ▾	5 Sec ▾
<input type="checkbox"/>	RIGHT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None ▾	None ▾	5 Sec ▾
<input type="checkbox"/>	BRAKE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None ▾	None ▾	5 Sec ▾
<input type="checkbox"/>	REVERSE	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None ▾	None ▾	5 Sec ▾

Event > Geofence

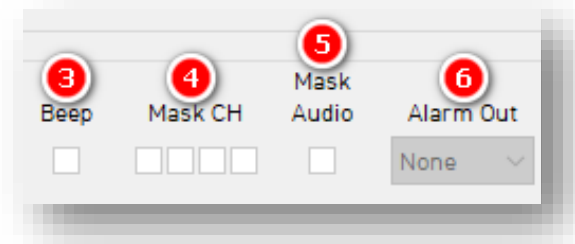
4.3.3 Geofence Fields

Set virtual boundaries for your device to record events. Optionally, obscure your camera's field of vision and audio recording.

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

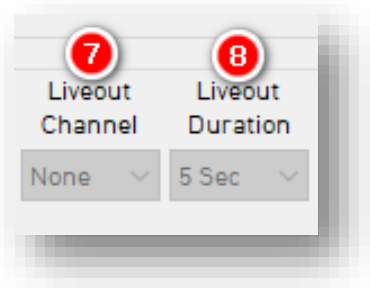


3. Audibly notify the driver when they have crossed the Geofence's boundary via **Beep**.
4. To obscure camera channels, check the relevant **Mask CH**.
5. Prevent device audio recording by clicking **Mask Audio**.
6. Set the duration of the alarm via **Alarm Out** (Brown Wire) dropdown.



Event > Geofence

7. Choose which camera displays on the LCD when your device's Geofence triggers via **Liveout Channels** (if using an LCD monitor).
8. Determine how long your selected camera channel stays on after a completed event by selecting a **Liveout Duration**.

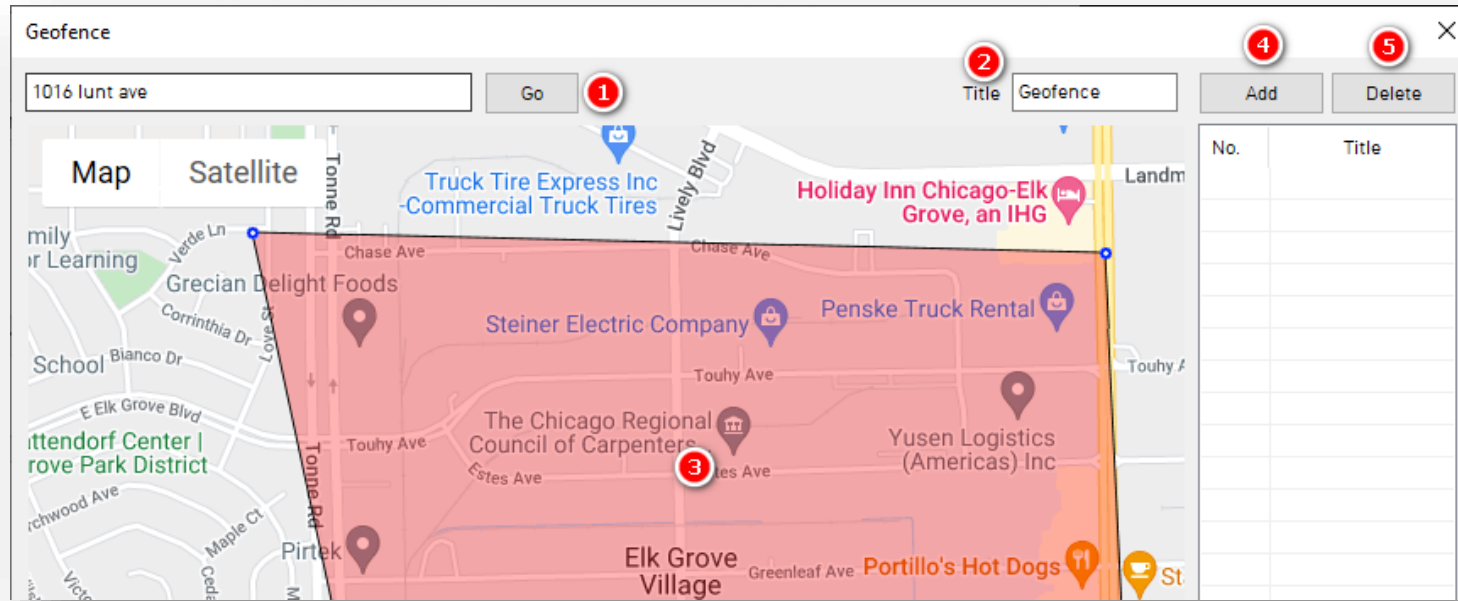


Event > Geofence

Zone Selection

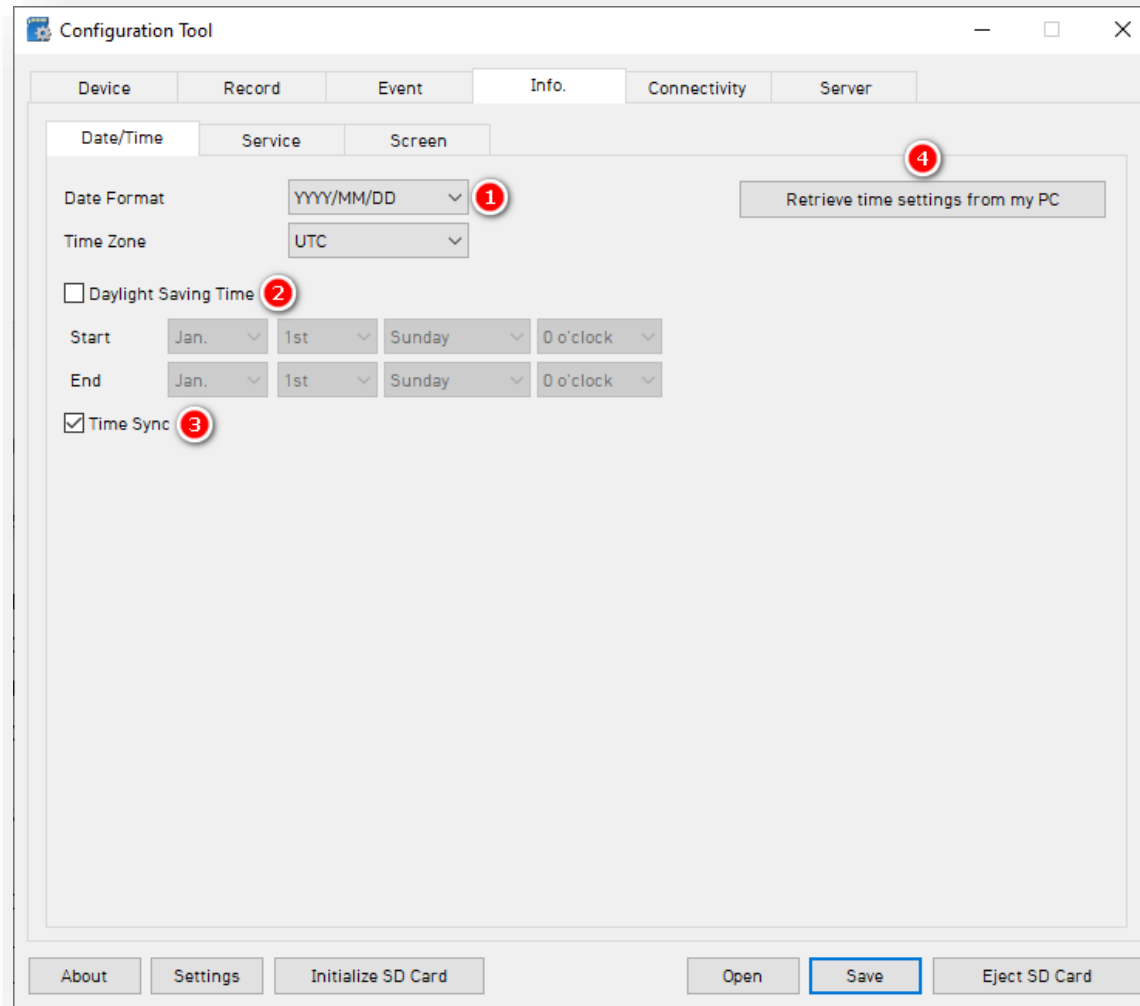
To set Geofence boundaries on Google Maps, click **Zone Selection**. Create up to 20 geofence zones.

1. To search for a location, enter an address into the text field and click **Go**.
2. Change the **Title** of your Geofence.
3. To set a perimeter, click on the map. The area in **Red** is your Geofence.
4. Activate your outlined Geofence by clicking **Add**.
5. To remove a Geofence, check the Geofence **No.** and click **Delete**.



Info

4.4 How to Configure Info Tab Info Tab Layout: At a Glance

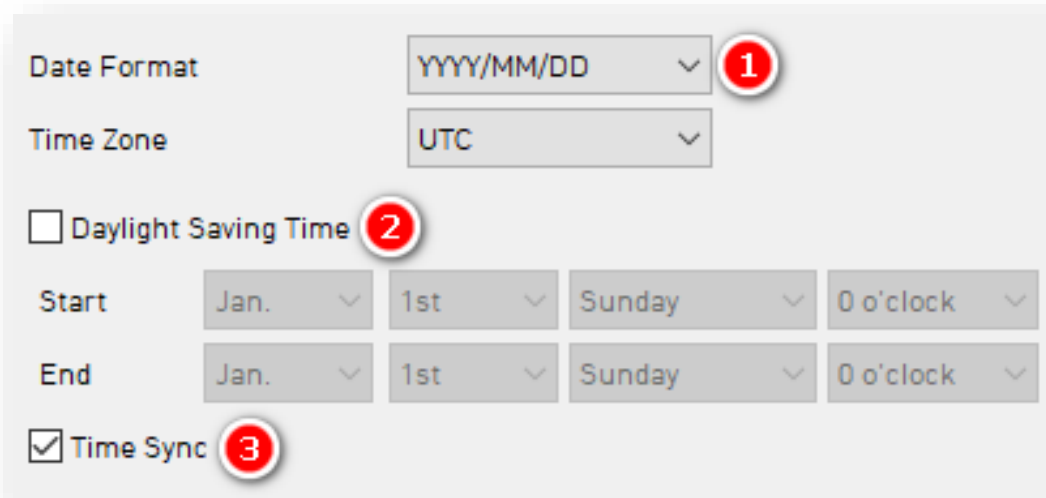


Info > Date/Time

4.4.1 Date/Time Fields

Setting time preferences on your CP4/CP4S is **not recommended**. PC Viewer software and Smart API automatically adjust UTC to your local time zone. **If you've connected your CP4/CP4S to Smart API, do not set time preferences.**

1. Set your preferred **Date Format**.
2. Set a customized date and time range for **Daylight Savings Time**.
3. Ensure GPS time syncs with device OS time by clicking **Time Sync**.



The screenshot shows a settings panel for Date/Time. It includes the following elements:

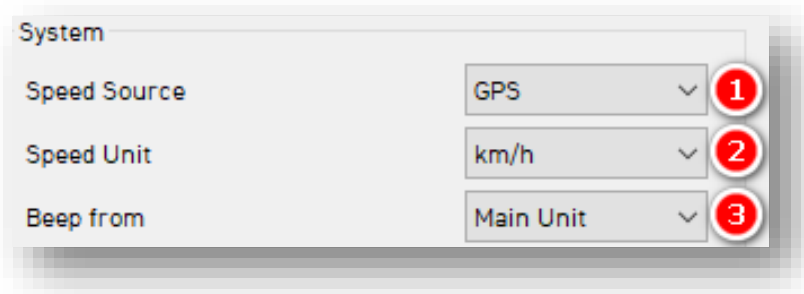
- Date Format:** A dropdown menu set to "YYYY/MM/DD" with a red circle containing the number "1" next to it.
- Time Zone:** A dropdown menu set to "UTC".
- Daylight Saving Time:** An unchecked checkbox with a red circle containing the number "2" next to it.
- Start:** A row of four dropdown menus set to "Jan.", "1st", "Sunday", and "0 o'clock".
- End:** A row of four dropdown menus set to "Jan.", "1st", "Sunday", and "0 o'clock".
- Time Sync:** A checked checkbox with a red circle containing the number "3" next to it.

Info > Service

4.4.2 Service Fields

System

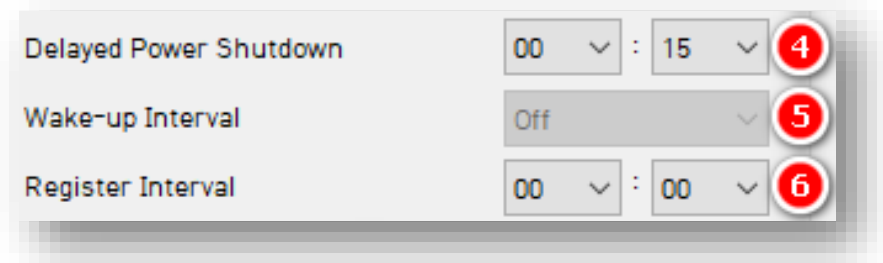
1. Determine how your device gauges vehicle speed by choosing a **Speed Source**.
2. Set a preferred **Speed Unit**.
3. Choose the source of your device's audible notifications with **Beep**.



System

Speed Source	GPS	1
Speed Unit	km/h	2
Beep from	Main Unit	3

4. Pick the time your CP4/CP4S stays on after ignition off from **Delayed Power Shutdown** options.
5. Select the time, or **Wake-up Interval**, when your device powers on after shutdown.
6. Select an amount of time, or **Register Interval**, your device stays on during its Wake-up.



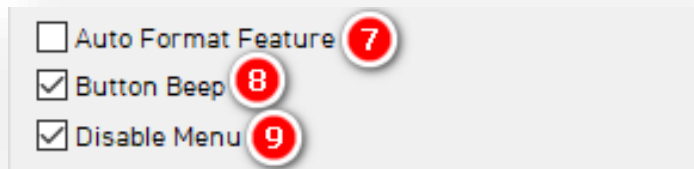
Delayed Power Shutdown 00 : 15 4

Wake-up Interval Off 5

Register Interval 00 : 00 6

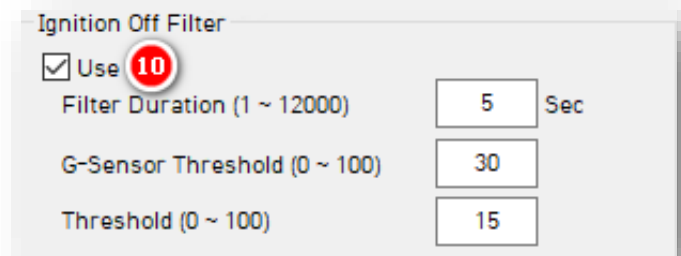
Info > Service

- CP4 automates necessary SD card maintenance when the **Auto Format Feature** is on.
 - This feature formats blank SD cards automatically.
 - It will not format corrupted SDs. Instead, the device sends a “Media Error” event to the server. The red LED and an optional audible alarm (See [System Warning](#)) will turn on.
- Allow audio responses from your device’s button by clicking **Button Beep**.
- Remove the user-facing menu from your LCD monitor with **Disable Menu**.



Ignition Off Filter

- Check **Use** to turn on Ignition Off Filter.
 - Set the time your device maintains ignition on operation with **Filter Duration**.
 - Set a value the **G-Sensor Threshold** must exceed to retain ignition on functions.
 - To prevent faulty ignition off events, set a **Threshold** value.

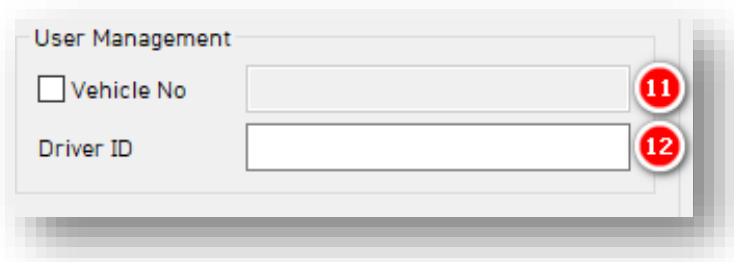


Info > Service

User Management

11. Check **Vehicle No** and assign a number to your vehicle.
12. Enter a unique **Driver ID** for different vehicles.

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



User Management

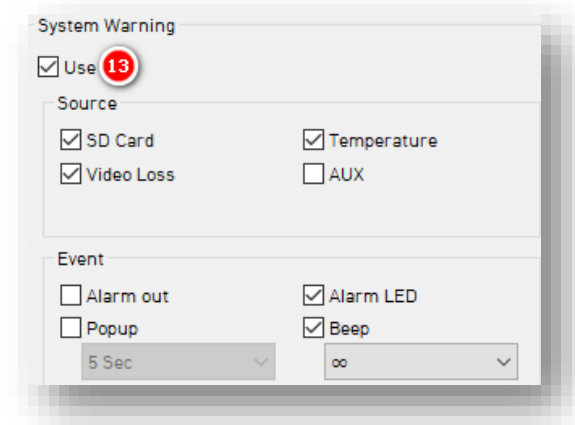
Vehicle No

Driver ID

System Warning

13. To provide notifications for system component corruption and/or failure, check **Use**.
 - Check any/all boxes to allow notifications.
 - Set your **Event** notification and sound duration settings for system warnings.

Note: If you have activated **System Warning** in **Source**, your device sends corresponding notifications to SmartAPI.



System Warning

Use **13**

Source

SD Card Temperature

Video Loss AUX

Event

Alarm out Alarm LED

Popup Beep

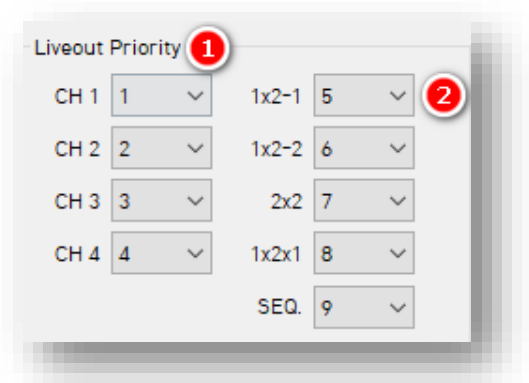
5 Sec ∞

Info > Screen

4.4.3 Screen Fields

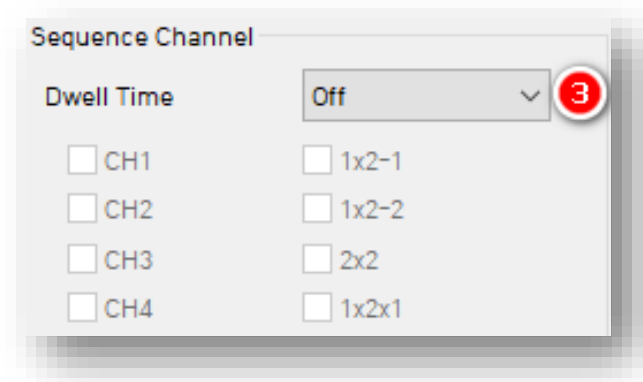
Liveout Priority

1. Select display preferences when your device's trigger activates from **Liveout Priority** options.
 - Camera prioritization ranges from 1 (highest priority) to 9 (lowest priority).
 - If **CH1** and **CH2** trigger simultaneously, the camera with higher priority is displayed.
2. Select individual camera channel aspect ratios.



Sequence Channel

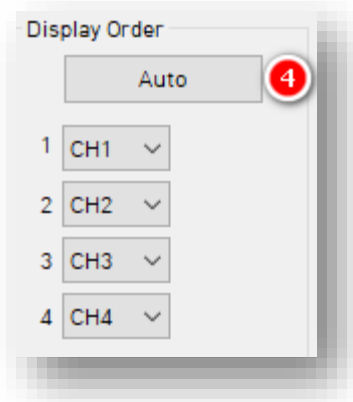
3. Select the display time per selected camera channels (**Off – 5 sec**) from the **Dwell Time** options.



Info > Screen

Display Order

- Automate the organization of your camera channel display by clicking **Auto**. If you prefer manual camera channel organization, select a display order.

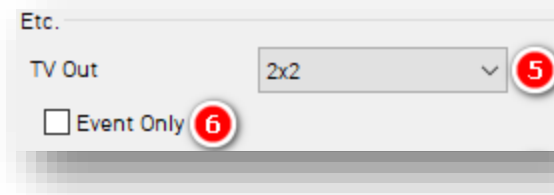


Etc.

- Choose a signal to provide to your monitor from the **TV Out** options.
 - 2x2**, or “quad view,” is the default display view.

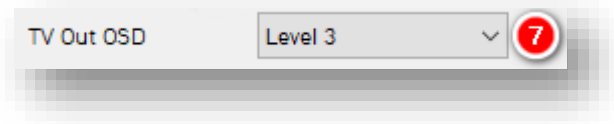


- Click **Event Only** to turn off the V/O (video output) signal unless there is an event and “Event Only” is configured in the [Event](#) tab.



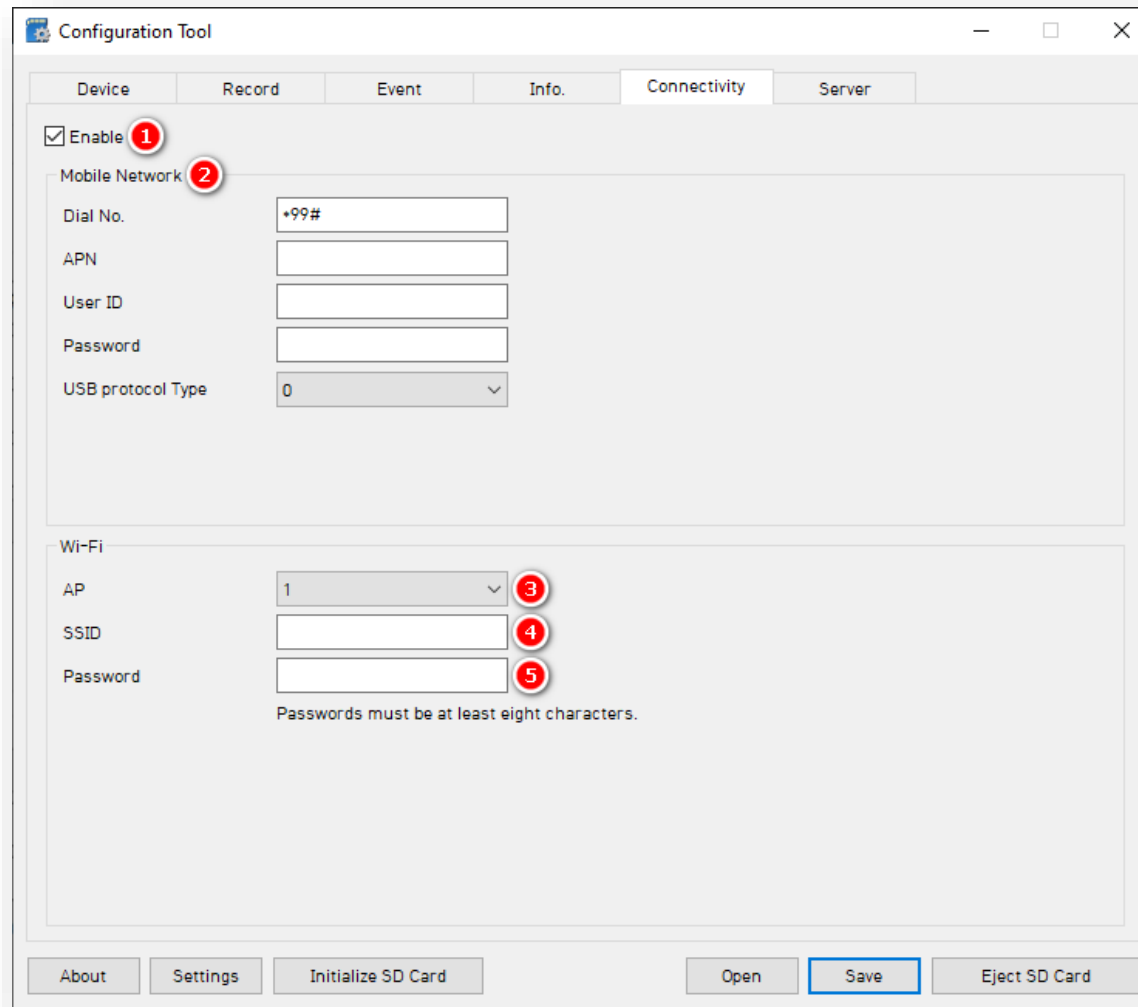
Info > Screen

7. Select which information appears on your LCD.
 - **Level 1** (Full): Time, Disk Space, Camera Title, Camera/Event Status.
 - **Level 2**: Time, Disk Space, Camera Title.
 - **Level 3**: Time, Disk Space.
 - **Level 4** (Off): No data overlay.



Connectivity

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

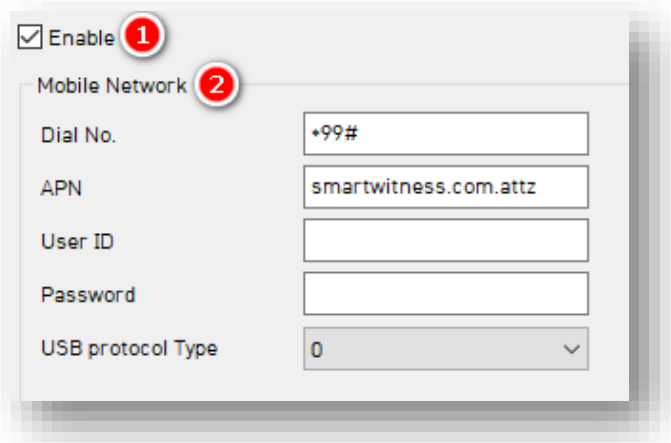


Connectivity

Mobile Network

1. To specify mobile and WIFI network settings, check **Enable**.
2. Add **Mobile Network** details to relevant fields. If you use an INSIGHTS AT&T SIM card, ensure the APN matches the image shown.

Note: CP4 and CP4S do not have Wi-Fi built-in as standard. Only the “CP4S-W” model supports Wi-Fi.

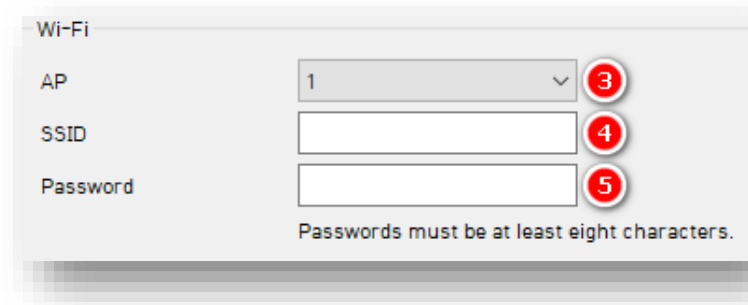


The screenshot shows the 'Mobile Network' settings interface. At the top, there is a checkbox labeled 'Enable' with a red circle containing the number '1' next to it. Below this is a section titled 'Mobile Network' with a red circle containing the number '2' next to it. This section contains five input fields: 'Dial No.' with the value '+99#', 'APN' with the value 'smartwitness.com.attz', 'User ID' (empty), 'Password' (empty), and 'USB protocol Type' with a dropdown menu showing '0'.

Wi-Fi

Use a Wi-Fi connection instead of cellular, with an approved Wi-Fi USB dongle.

3. Your CP4/CP4S has built-in Wi-Fi. Select your **AP**. Your **AP** must be secure and use WPA/WPA2 encryption.
4. Set up to 10 Wi-Fi **SSIDs**. Your CP4/CP4S will scan for as many networks as added to your settings.
5. Enter a **password**.



The screenshot shows the 'Wi-Fi' settings interface. It features three input fields: 'AP' with a dropdown menu showing '1' and a red circle containing the number '3' next to it; 'SSID' with an empty text box and a red circle containing the number '4' next to it; and 'Password' with an empty text box and a red circle containing the number '5' next to it. Below these fields is a note that reads 'Passwords must be at least eight characters.'

Server > Main

4.6 How to Configure Server Tab

4.6.1 Main Fields

Server > Main Tab Layout: At A Glance

The screenshot shows the 'Server' tab in the 'Configuration Tool' application. The interface includes a top navigation bar with tabs for 'Device', 'Record', 'Event', 'Info.', 'Connectivity', and 'Server'. Below this, there are sub-tabs for 'Main' and 'Triggered Event'. The 'Main' sub-tab is active, displaying various configuration fields. Eight red circles with white numbers (1-8) are overlaid on the interface to highlight specific fields:

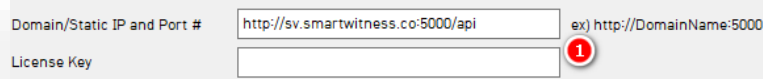
- 1: License Key
- 2: Transmit Live Tracking Data checkbox and Live Tracking Data Type dropdown
- 3: Transmit Event Data checkbox
- 4: Transmit Telematics Data (DRV) checkbox
- 5: Transmit Emergency Call checkbox
- 6: Event Images section header
- 7: Pre-Event and Post-Event duration dropdowns
- 8: Event FPS and Event/Snapshot Quality dropdowns

At the bottom of the window, there are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Eject SD Card'. The 'Save' button is highlighted with a blue border.

Server > Main

Server

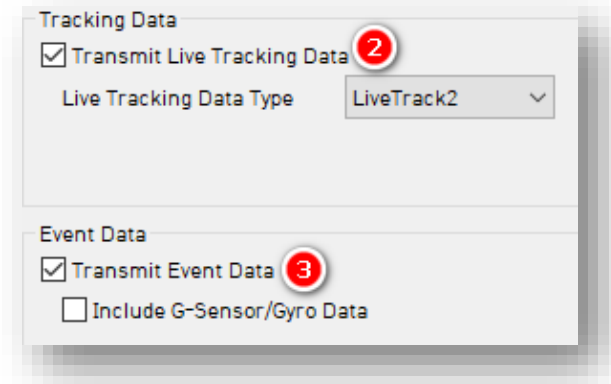
1. INSIGHTS, or your service provider, will give you the **Domain/Static IP and Port # URL** and **License Key** (if necessary) to enter here.



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

Transmit

2. Use HTTP posts from your CP4/CP4S to the server by checking **Transmit Live Tracking Data**. Livetrack2 contains GPS coordinates. LiveTrack3 does not.
3. To send event notifications and images to the server, check **Transmit Event Data**.



Tracking Data
 Transmit Live Tracking Data **2**
Live Tracking Data Type

Event Data
 Transmit Event Data **3**
 Include G-Sensor/Gyro Data

Server > Main

4. Send DRV data to the server by clicking **Transmit Telematics Data (DRV)**.
5. Send emergency notifications like Ecall and over-temperature warnings to the server.

Note: The frequency interval of LiveTrack and DRV uploads is server-controlled.

Telematics Data (DRV)

Transmit Telematics Data (DRV) 4

G-Sensor/Gyro Data None

Data Type Default

Emergency Call

Transmit Emergency Call 5

Transmit Temperature Warning

Event Images

6. Choose which camera channels will send event images to the server.
 - **CAM1, CAM2, CAM3, and CAM4**
7. Select from **Pre-Event** and **Post-Event** options to determine snapshot timing before and after an event.
8. Select image capture settings for **Event FPS** and **Snapshot Quality**.

Event Images 6

CAM1 CAM2 CAM3 CAM4

Pre-Event 5 Sec

Post-Event 5 Sec 7

Event FPS 1

Event/Snapshot Quality Normal 8

Server > Triggered Event

4.6.2 Triggered Event Fields

Event Triggered By

Select the events your device sends to the server. Events transmit instantly, even 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.

The screenshot shows a configuration panel titled "Event Triggered by" with two columns of checkboxes. The first column includes G-Sensor, Panic Button, Ignition, Alarm1, Alarm3, Signal1, and Signal3. The second column includes Emergency Call, Geofence, Overspeed, Alarm2, Alarm4, Signal2, and Signal4. Each event type has a "Transmit Image" checkbox below it. The "Transmit Image" checkboxes for G-Sensor, Panic Button, Ignition, Alarm1, Alarm3, Alarm2, and Alarm4 are checked, while the others are unchecked.

Event Type	Transmit Image
<input checked="" type="checkbox"/> G-Sensor	<input checked="" type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Panic Button	<input checked="" type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Ignition	<input type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Alarm1	<input checked="" type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Alarm3	<input checked="" type="checkbox"/> Transmit Image
<input type="checkbox"/> Signal1	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> Signal3	<input type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Emergency Call	<input checked="" type="checkbox"/> Transmit Image
<input type="checkbox"/> Geofence	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> Overspeed	<input checked="" type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Alarm2	<input checked="" type="checkbox"/> Transmit Image
<input checked="" type="checkbox"/> Alarm4	<input checked="" type="checkbox"/> Transmit Image
<input type="checkbox"/> Signal2	<input type="checkbox"/> Transmit Image
<input type="checkbox"/> Signal4	<input type="checkbox"/> Transmit Image

Complete Your Configuration

5 Finishing Up/Support

Goal: Completing your configuration

1. Click **Save** to set your finalized settings configuration.
2. Select **FHDRM** 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 your CP4/CP4S and power on the device.
5. You have completed your configuration.

Note: Apply device configurations over-the-air from the Smart API Workstation. See the instructions [here](#).

5.1 Support Information

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