

# CP4/CP4S CONFIGURATION TOOL GUIDE v3.5.0

*A jumpstart to video  
telematics  
configuration*



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# Introduction

## 1.0 Welcome to your CP4/CP4S Configuration Guide

This guide aims to inform users of the appropriate processes involved in setting up your SmartWitness 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 3.0.

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

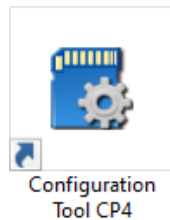
## CP4/CP4S Download & Installation

### 2.0 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 download, proceed to installation.
2. Open configuration tool, insert your SD Card\*.
3. Click **Initialize SD Card**.
4. Select **SD Card** from preferred internet browser.
5. Click **Start** to initialize.

**Note:** SD cards from SmartWitness (i.e., the SD card included with your CP4S) are already initialized.

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

## CP4/CP4S Configuration Tool Layout

### 3.0 Configuration Tool Layout & Settings

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

The screenshot displays the Configuration Tool interface with the following callouts:

- 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 text field.
- Some settings sub-fields use drop-down selection:** Points to the Port drop-down menu in the EXT-Device 2 section.
- Click 'About' to see configuration tool version information:** Points to the About button at the bottom.
- Click 'Settings' to change the language and model. At first use, change to "CP4S":** Points to the Settings button at the bottom.
- Click 'Initialize SD Card' to prepare SD card:** Points to the Initialize SD Card button at the bottom.
- Click 'Open' to load a previously saved configuration:** Points to the Open button at the bottom.
- Click 'Save' at the end of the configuration process:** Points to the Save button at the bottom.
- Click 'Close' to exit the configuration tool:** Points to the Eject SD Card button at the bottom.

The interface includes sections for Camera (CAM1-CAM4), Video Type (NTSC), Sensor (Axis X, Y, Z), Driver ID Device (SD Card), EXT-Device 1 and 2 (Port, Type, GPS, RPM, EXT-Signal, Record Text, Send Health Info, DSM Event), Signal (Car Pulse, Type, Standard), and Other Device (RF-Reader, Port, Authority Type, Type, Warning Time, Use USB Keypad & Keyboard).

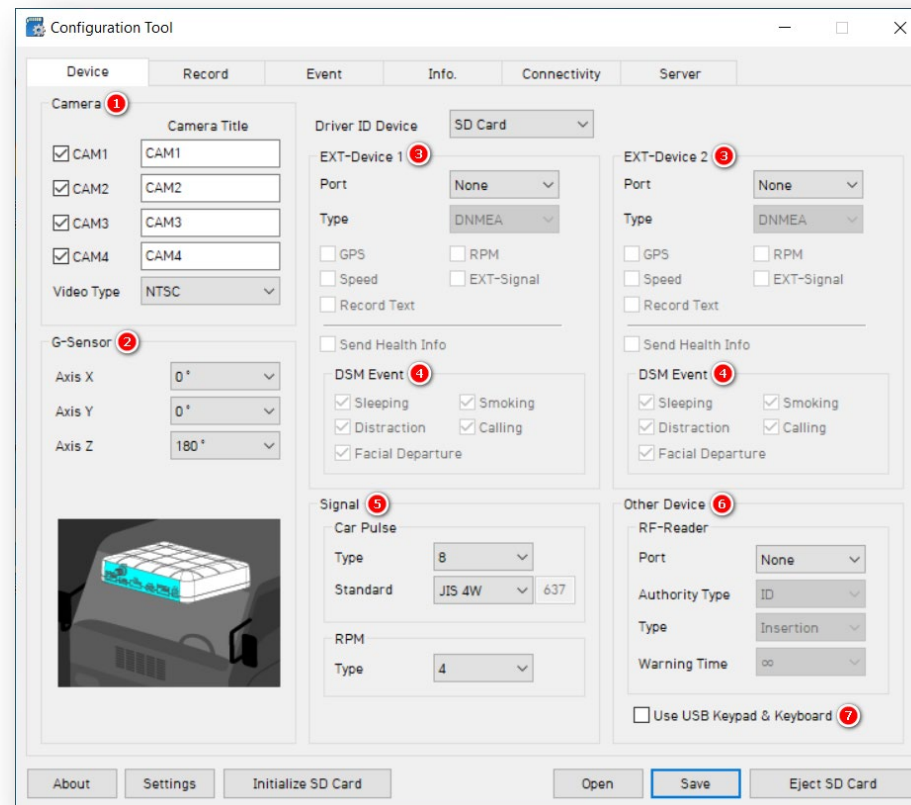
# Device

## 4.0 Configuring Your Device

**Goal:** Personalize and optimize your device's settings

### 4.1 How to Configure Device Tab

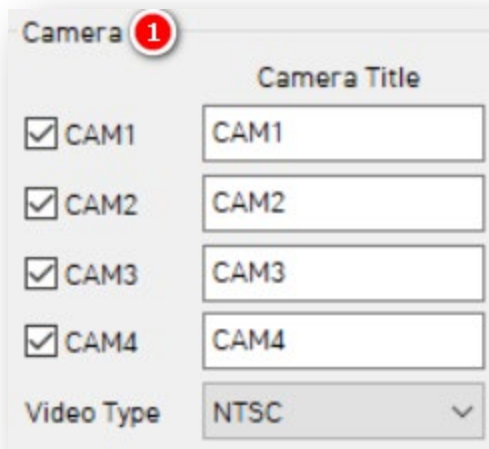
**Device Tab Layout: At a Glance**



## Device

### Camera

1. Activate your desired cameras, label them, and select your preferred type of video.

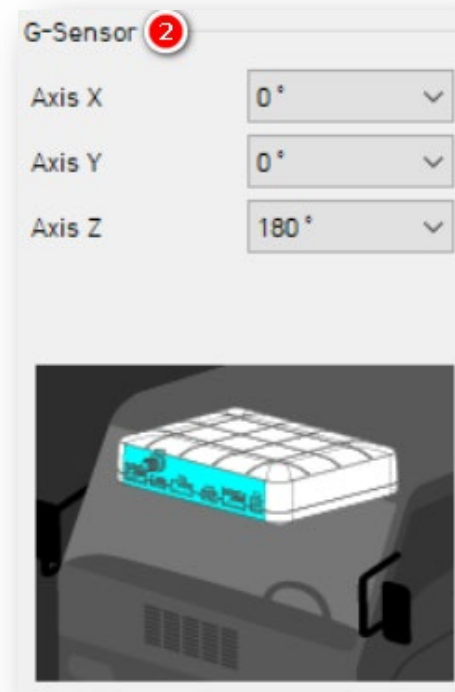


The screenshot shows a 'Camera' configuration window with a red circle and the number '1' in the top-left corner. The window has a title bar 'Camera' and a subtitle 'Camera Title'. It contains four rows of camera settings, each with a checked checkbox, a label (CAM1, CAM2, CAM3, CAM4), and a text input field containing the same label. Below these is a 'Video Type' dropdown menu set to 'NTSC'.

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

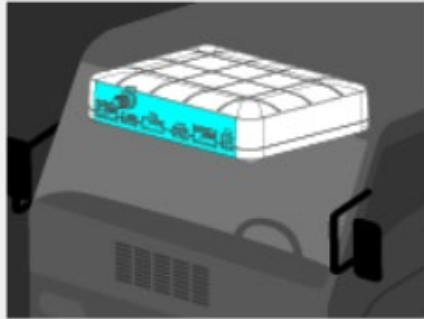
### G-Sensor

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](#).



The screenshot shows a 'G-Sensor' configuration window with a red circle and the number '2' in the top-left corner. It contains three rows of axis settings, each with a label (Axis X, Axis Y, Axis Z) and a dropdown menu. The values are 0°, 0°, and 180° respectively. Below the settings is a 3D illustration of a device with a grid on top, mounted on a surface.

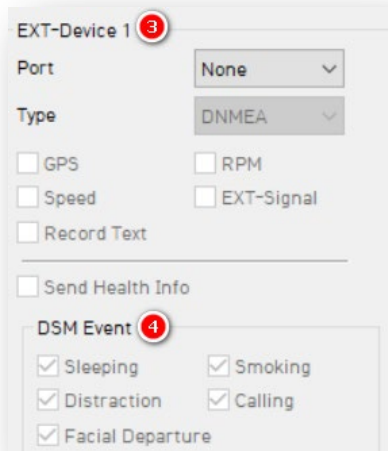
G-Sensor
Axis X 0°
Axis Y 0°
Axis Z 180°



## Device

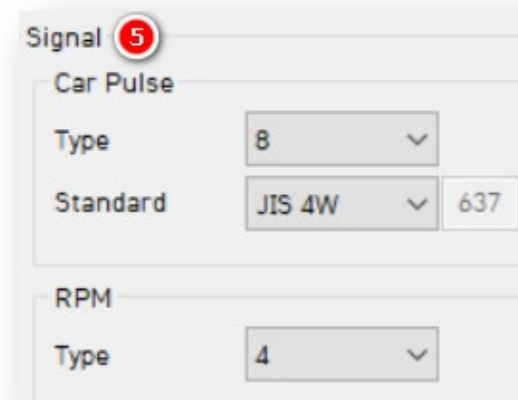
### EXT – Device 1 & 2

3. Allow exterior devices to work with your CP4/CP4S by selecting from **EXT – Device's** list of accessory devices or checkbox items.
  - Add-ons connect to the device's serial CP4/CP4S input once the 'S3' port is activated.
4. DSM accessory camera required. To use various DSM (Driver Status Monitoring) events, check **DSM Event**.



## 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.

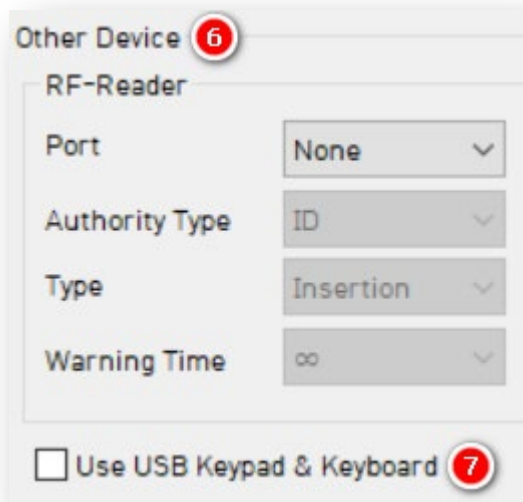




## Device

### Other Device

6. (Optional) To setup an accessory device connecting to the serial input, select from **RF-Reader's** options. You can designate the reader type and warning time.
7. Allow a connection for these devices by clicking **Use USB Keypad & Keyboard**.



Other Device **6**

RF-Reader

Port	None
Authority Type	ID
Type	Insertion
Warning Time	∞

☐ Use USB Keypad & Keyboard **7**

# Record

## 4.2 How to Configure Record Tab

### Record Tab Layout: At a Glance

The screenshot shows the 'Record' tab of a 'Configuration Tool' window. The interface includes several sections for configuring recording parameters, with numbered callouts (1-10) highlighting specific elements:

- Channel Settings:** A table with columns for Resolution (1), NTSC FPS (2), and Quality (3). It lists settings for CH1, CH2, CH3, and CH4.
- Data Usage Calculation:** A section on the right with a 'Disk Size' dropdown (set to 64GB) and a 'Calculate' button.
- Video Data:**
  - Record Mode:** A dropdown menu (4) set to 'Continuous'.
  - Continuous/Event Sliders:** Two sliders (5) for 'Continuous' and 'Event' recording, both set to 50%.
  - Pre-Event/Post-Event:** Dropdown menus (6, 7) for 'Pre-Event' and 'Post-Event' durations, both set to '10 Sec'.
  - Parking Mode:** A checked checkbox for 'Parking Mode (Continuous Mode Only)'.
  - Record Audio:** An unchecked checkbox.
  - By Panic:** An unchecked checkbox.
- Encryption No.:** A text field (10) containing '1000 ~ 9999'.
- Overwrite (9):** A checked checkbox for 'Overwrite'.
- Data Retention Period:** Two dropdown menus for 'Data Retention Period' (0 Days, 2 Hours).
- Exception event file:** A section with checkboxes for various events: Turn, Accel, Brake, Shock, Emergency Call, Panic Button, Overspeed, Geofence, Alarm 1, Alarm 2, Alarm 3, and Alarm 4.
- Telematics Data (8):**
  - Enable:** A checked checkbox.
  - Duration:** A dropdown menu set to 'About 40 Hours'.
  - Overwrite (9):** A checked checkbox.
  - Data Retention Period:** Two dropdown menus for 'Data Retention Period' (0 Days, 2 Hours).

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

## Record

### Channel

1. Select your **Resolution** for CH1:
  - **D1, 720p** (HD), **1080p** (FHD).
2. Select a **Frame Rate**:
  - **30fps, 15fps, 10fps, 5fps, 4fps, 3fps, 2fps, 1fps.**
3. Choose your default video **Quality** (Bitrate):
  - **Normal** (Most Compressed), **High**, or **Super** (Lossless).

The screenshot shows a table for channel settings. Red circles with numbers 1, 2, and 3 highlight the Resolution, FPS, and Quality columns respectively.

Channel	Resolution	NTSC FPS	Quality
CH1	720p	5	Normal
CH2	720p	5	Normal
CH3	720p	5	Normal
CH4	D1	5	Normal

### Video Data

4. Select your preferred **Record Mode**:
  - **Event**: Only records events. Settings determined by the pre & post-event setting.
  - **Continuous** (Default): Video continuously records, with no events documented on SD Card (Events are sent to Smart API if configured on the [Server](#) tab).
  - **Continuous+Event**: Video continuously records at 1 FPS. Events record at your specified FPS.

The screenshot shows a dropdown menu for 'Record Mode' with 'Continuous' selected. A red circle with the number 4 highlights the dropdown arrow.

## 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 triggers, select your **Pre-Event Setting**.
7. To set the amount of time video records after an event triggers, select your **Post-Event Setting**.



**Note:** The pre/post-time settings aren't applicable to Continuous record mode.

## Telematics Data

8. To log telematics data, check **Enable**.  
This sets the duration of your DRV Storage on the SD card. DRV files will be record and store separate from video/event logs.



## Record

9. To turn on your device's overwrite feature, click **Enable**. This automatically rewrites SD card video footage and telematics data when SD storage is full.
- Set the **Data Retention Period**.
  - Select a list of **Exception event files** to remain on your SD card for longer periods of time.

Overwrite <sup>9</sup>

☒ Enable

☐ Data Retention Period    0 Days    2 Hours

Exception event file

<input type="checkbox"/> Turn	<input type="checkbox"/> Panic Button	<input type="checkbox"/> Alarm 1
<input type="checkbox"/> Accel	<input type="checkbox"/> Overspeed	<input type="checkbox"/> Alarm 2
<input type="checkbox"/> Brake	<input type="checkbox"/> Geofence	<input type="checkbox"/> Alarm 3
<input type="checkbox"/> Shock		<input type="checkbox"/> Alarm 4
<input type="checkbox"/> Emergency Call		

Overwrite <sup>9</sup>

☒ Enable

☐ Data Retention Period    0 Days    2 Hours

10. To protect SD card data from being easily accessible, enter a 4-digit **Encryption No.**

Encryption No.    1000 ~ 9999    10

**Note:** Using your current configuration, apply different **Disk Sizes** in **Data Usage Calculation** to estimate storage capacity.

Data Usage Calculation

Disk Size    64GB    ▾

Calculate

# Event

## 4.3 How to Configure Event Tab

### Event Tab Layout: At a Glance

The screenshot shows the 'Event' tab of the 'Configuration Tool' window. The window has tabs for 'Device', 'Record', 'Event' (selected), 'Info.', 'Connectivity', and 'Server'. Below these are sub-tabs for 'G-Sensor', 'Misc.', and 'Geofence'. The 'G-Sensor' sub-tab is active. The interface includes various checkboxes, dropdown menus, and input fields for configuring event settings. Red numbered callouts (1-15) highlight specific elements: 1. 'Use' checkbox; 2. 'Auto adjust G-Sensor to vehicle speed' checkbox; 3. 'Record CH' dropdown; 4. 'Beep' checkbox; 5. 'Mask CH' dropdown; 6. 'Mask Audio' checkbox; 7. 'Alarm Out' dropdown; 8. 'Liveout Channel' dropdown; 9. 'Pre-set' radio button; 10. 'Simple Setting Mode' checkbox; 11. 'Emergency Call Trigger' section; 12. 'High Impact' section; 13. 'Harsh Accel/Brake' section; 14. 'Harsh Turn' section; 15. 'Trigger high impact events only' checkbox. The 'Save' button at the bottom is highlighted with a blue border.

Configuration Tool

Device Record **Event** Info. Connectivity Server

G-Sensor Misc. Geofence

G-Sensor

Use ☒ **1**

Record CH **3** ☒ ☒ ☒ ☒

Beep ☐ **4**

Mask CH ☐ ☐ ☐ ☐ **5**

Mask Audio ☐

Alarm Out **6** None

Liveout Channel **7** None

Liveout Duration **8** 5 Sec

☒ Auto adjust G-Sensor to vehicle speed **2**

Smart G-Sensor Sensitivity

☐ Pre-set **9**

☒ Simple Setting Mode **10**

Sensitivity 5

Shock 5

Accel/Brake 5

Turning 5

Emergency Call Trigger **11**

X Y Z

mG (0~4000) 3900 3900 3900

☒ Custom

High Impact **12**

X Y Z

mG (0~4000) 950 950 2000

Hz (1~20) 3 3 10

Harsh Accel/Brake **13**

X

mG (0~4000) 450

Hz (1~20) 10

Harsh Turn **14**

Y

mG (0~4000) 350

Hz (1~20) 15

☐ Trigger high impact events only **15**

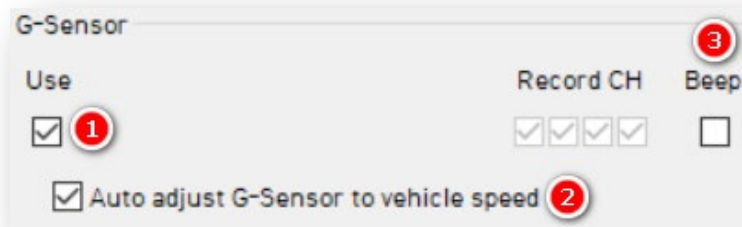
☒ Turn Z Axis on

About Settings Initialize SD Card Open **Save** Eject SD Card

## Event > G-Sensor

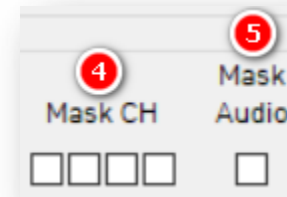
### 4.3.1 G-Sensor Fields

1. To turn on the G-Sensor and configure its settings, check **Use**.
2. To increase the G-Sensor speed threshold for high vehicle speeds, check **Auto Adjust G-Sensor to vehicle speed**.
3. To turn on in-vehicle noise notifications, check **Beep**.



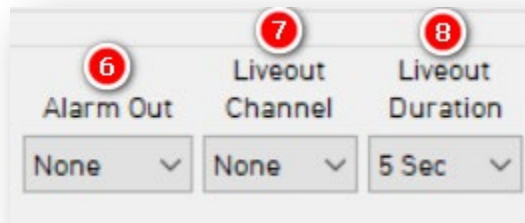
4. To prevent camera channel video recording, check **Mask CH**. Each checkbox corresponds to a channel (1-4, left to right).
5. Prevent device audio recordings by clicking **Mask Audio**.

**Note:** The masking of Video/Audio applies only during the event time.



## Event > G-Sensor

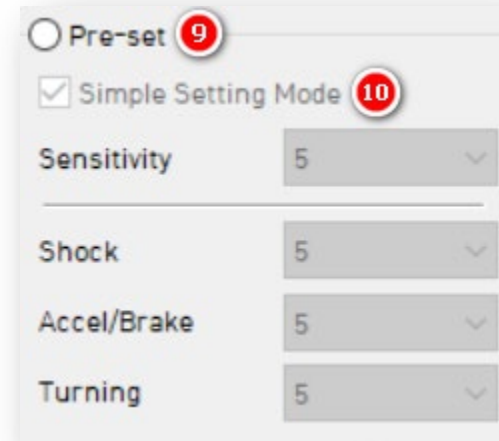
6. To set the alarm's notification duration, select from **Alarm Out** options.
  - This sends a 5V output through **Alarm Out** (Brown Wire).
7. Decide which camera displays when your device's G-Sensor triggers by choosing from **Liveout Channel** options.
8. Determine how long the selected camera channel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



The screenshot shows three dropdown menus in a row. The first is labeled 'Alarm Out' with a red circle '6' above it, and its value is 'None'. The second is labeled 'Liveout Channel' with a red circle '7' above it, and its value is 'None'. The third is labeled 'Liveout Duration' with a red circle '8' above it, and its value is '5 Sec'.

## Smart G-Sensor Sensitivity

9. Change your vehicle's responsiveness to different events by clicking **Pre-set** and choosing a sensitivity level (1-10).
10. To use the default G-Sensor sensitivity options, click **Simple Setting Mode**.

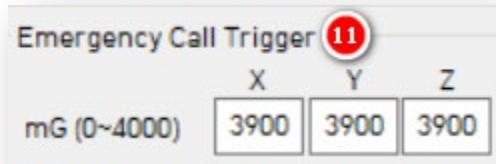


The screenshot shows a settings panel. At the top, there is a radio button for 'Pre-set' with a red circle '9' next to it. Below it is a checked checkbox for 'Simple Setting Mode' with a red circle '10' next to it. Underneath, there are four rows, each with a label and a dropdown menu showing the value '5': 'Sensitivity', 'Shock', 'Accel/Brake', and 'Turning'.



## Event > G-Sensor

11. Set a threshold for **Emergency Call Trigger's** ("eCall" or "SevereShock") X and Y axis event shock values.



The screenshot shows a dialog box titled "Emergency Call Trigger" with a red circle containing the number "11" next to the title. Below the title, there are three input fields for X, Y, and Z axes, each with a value of 3900. The unit "mG (0~4000)" is indicated on the left.

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

## Event > G-Sensor

### Custom

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

12. Set a **High Impact** event shock range for the X and Y axis.
13. Set a **Harsh Accel/Brake** event shock range for the X axis.

The screenshot shows two sections of the G-Sensor settings interface. The top section, labeled 'High Impact' with a red circle containing the number 12, contains three columns for X, Y, and Z axes. Each column has two input fields: 'mG (0~4000)' and 'Hz (1~20)'. The values are: X (950 mG, 3 Hz), Y (950 mG, 3 Hz), and Z (2000 mG, 10 Hz). The bottom section, labeled 'Harsh Accel/Brake' with a red circle containing the number 13, contains one column for the X axis with two input fields: 'mG (0~4000)' (450) and 'Hz (1~20)' (10).

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

X	
mG (0~4000)	450
Hz (1~20)	10

14. Determine a **Harsh Turn** event shock range for the Y axis.
15. To limit alerts to high-impact events, check **High Impact Trigger**.

The screenshot shows the 'Harsh Turn' settings section with a red circle containing the number 14. It has a column for the Y axis with two input fields: 'mG (0~4000)' (350) and 'Hz (1~20)' (15). Below this is a checkbox labeled 'Trigger high impact events only' with a red circle containing the number 15.

Y	
mG (0~4000)	350
Hz (1~20)	15

☐ Trigger high impact events only

**Note:** Hz refers to how many consecutive milliseconds the G-Sensor is above the set value.

- Use a lower Hz for the High Impact setting.
- Use a higher Hz for the Harsh Accel/Brake and Turn settings.

Simple setting mode is fixed to 1Hz.  
Custom mode is adjustable.

## 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 **Alarm Out** options.
  - This sends a 5V output through Alarm Out (Brown Wire).
4. Decide which camera displays when your device's Panic Button triggers via **Liveout Channel** options.
5. Determine how long your selected camera channel stays on after a completed event by selecting a **Liveout Duration**.

Panic Button

Use ☒ 1

Record CH ☒ ☒ ☒ ☒ Beep ☒ 2 Mask CH ☐ ☐ ☐ ☐ Mask Audio ☐ Alarm Out  3

Liveout Channel  4

Liveout Duration  5

## Event > Misc.

### Overspeed

6. To configure Overspeed settings, click **Use**.
- Enter your **Speed Limit** threshold for recording overspeed events (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"/> 6	125 km/h Over	<input checked="" type="checkbox"/> <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

7. To set your optional alarm input triggers, check **Use**. Under **Title**, label them according to your input type (i.e., doors, horn, lights, etc.).
- **Alarm 1** = White Wire
  - **Alarm 2** = Purple Wire
  - **Alarm 3** = Green Wire
  - **Alarm 4** = Orange Wire
  - **Input Types:** NC/NO, 12V On/Off

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

Use	Title	Type	Record CH	Beep	Mask CH	Mask Audio	Alarm Out	Liveout Channel	Liveout Duration
<input checked="" type="checkbox"/> 7	ALARM1	V-Off	<input checked="" type="checkbox"/> <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 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 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 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.

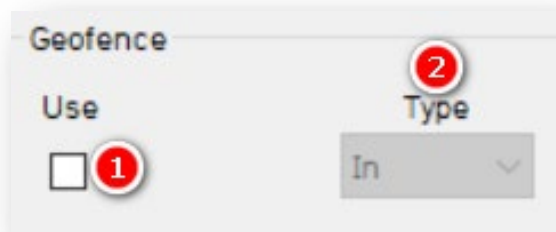
EXT-Signal								
Use	Title	Record CH	Beep	Mask CH	Mask Audio	Alarm Out	Liveout Channel	Liveout Duration
<input type="checkbox"/>	LEFT	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <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** - Geofence triggers when the vehicle enters the geographic boundary.
  - **Out** - Geofence triggers when the vehicle exits the geographic boundary.

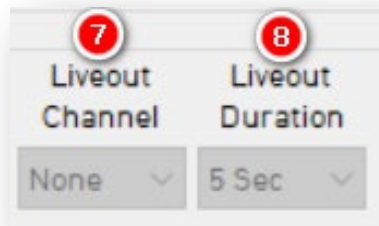


3. Audibly notify the driver when they've crossed the Geofence's boundary via **Beep**.
4. To obscure camera channels 1 & 2, check **Mask CH**.
5. Prevent device audio recording by clicking **Mask Audio**.
6. Set the duration of the alarm via **Alarm Out** (Brown Wire) dropdown.



## Event > Geofence

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

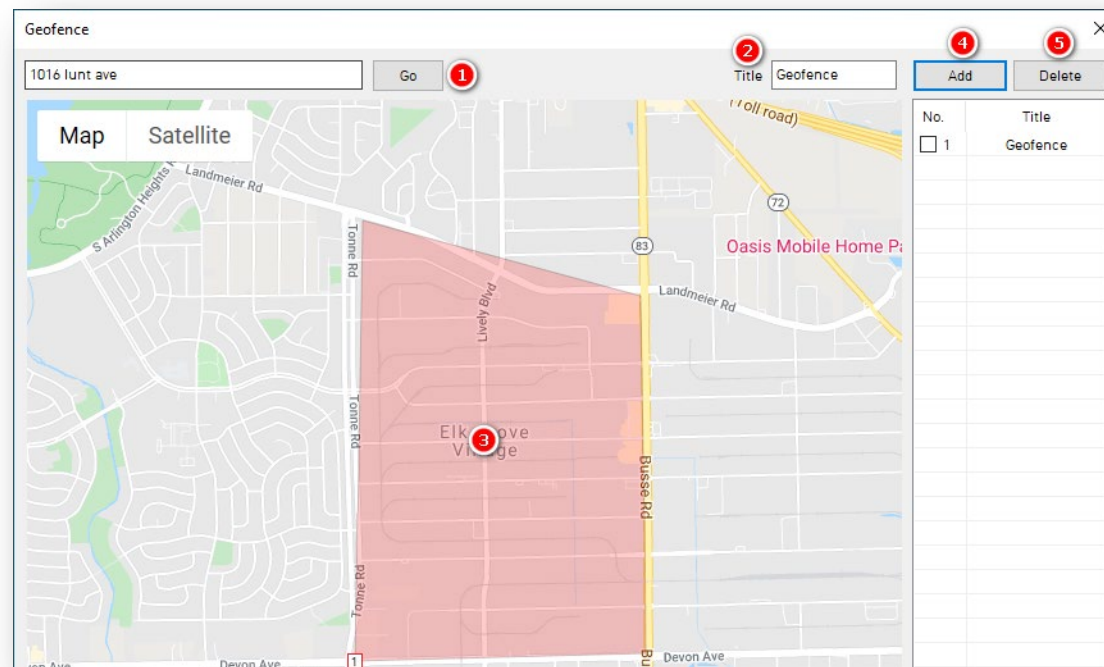


## Event > Geofence

### 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**.

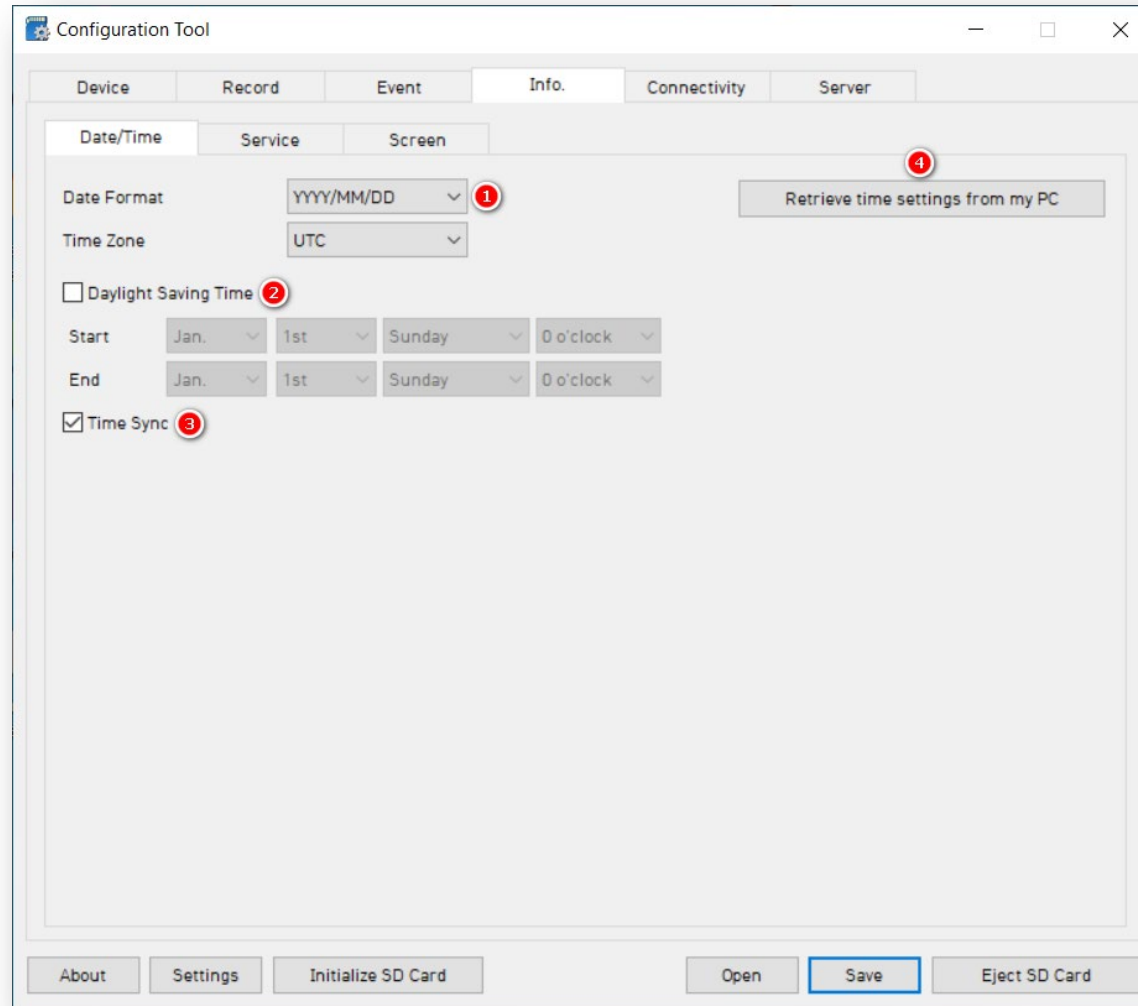




# Info

## 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 unnecessary. PC Viewer software and Smart API automatically adjust UTC to your local time zone.

1. Set your preferred **Date Format**.
2. (Optional) To adjust the time for **DST**, check **Daylight Saving Time**. Set a personalized **DST** schedule using **Start** and **End** options.
3. To ensure GPS time syncs with device OS time, check **Time Sync**.

**Important:** Aside from Time Sync, **do NOT** apply any changes to the date/time settings if CP4/CP4S is connected to a SIM card or SmartAPI.

The screenshot shows the 'Date/Time' settings menu. It has three tabs: 'Date/Time', 'Service', and 'Screen'. The 'Date/Time' tab is selected. The settings are as follows:

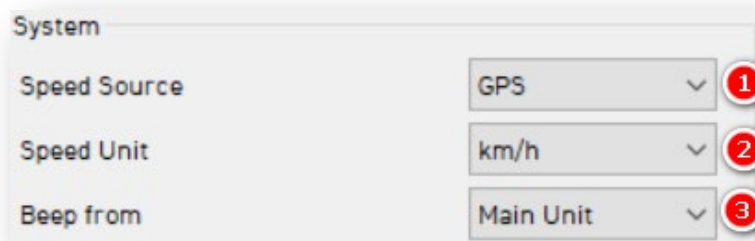
- Date Format:** A dropdown menu showing 'YYYY/MM/DD' with a red circle '1' next to it.
- Time Zone:** A dropdown menu showing 'UTC'.
- Daylight Saving Time:** An unchecked checkbox with a red circle '2' next to it.
- Start:** A row of four dropdown menus showing 'Jan.', '1st', 'Sunday', and '0 o'clock'.
- End:** A row of four dropdown menus showing 'Jan.', '1st', 'Sunday', and '0 o'clock'.
- Time Sync:** A checked checkbox with a red circle '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 your preferred **Speed Unit**.
3. Choose the source of your device's audible notifications with **Beep**.



The screenshot shows the 'System' settings panel. It contains three dropdown menus: 'Speed Source' set to 'GPS', 'Speed Unit' set to 'km/h', and 'Beep from' set to 'Main Unit'. Each dropdown menu has a red circle with a white number (1, 2, and 3 respectively) next to it, indicating the steps in the setup process.

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



The screenshot shows the settings for 'Delayed Power Shutdown', 'Wake-up Interval', and 'Register Interval'. 'Delayed Power Shutdown' is set to '00 : 15', 'Wake-up Interval' is set to 'Off', and 'Register Interval' is set to '00 : 00'. Each setting has a red circle with a white number (4, 5, and 6 respectively) next to it, indicating the steps in the setup process.

## Info > Service

7. To allow your CP4/CP4S to automate SD card maintenance, check **Auto Format Feature**. (Recommended) SD cards require re-formatting over periods of time.
8. Allow audio responses from your device's button by clicking **Button Beep**.
9. Remove the user-facing menu from your LCD with **Disable Menu**.



10. 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.

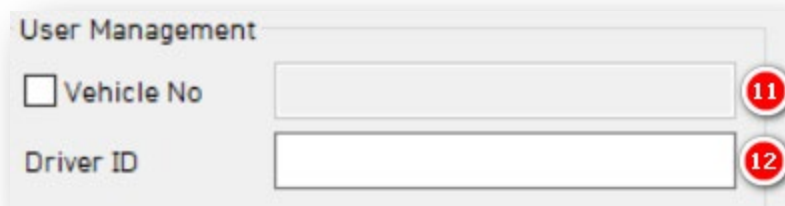


## Info > Service

### User Management

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

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

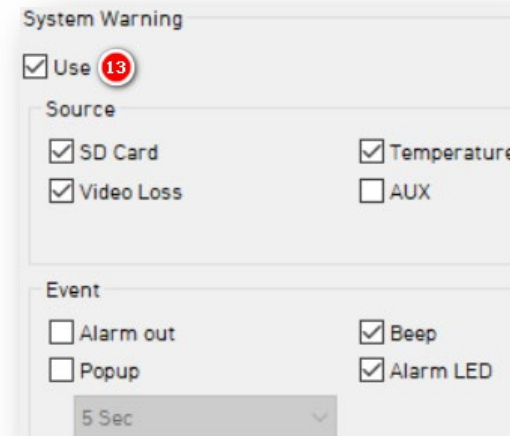


The 'User Management' dialog box contains two input fields. The first field is labeled 'Vehicle No' and is preceded by an unchecked checkbox; a red circle with the number '11' is positioned to its right. The second field is labeled 'Driver ID' and is preceded by an unchecked checkbox; a red circle with the number '12' is positioned to its right.

### 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 settings for system warnings.

**Note:** If you've activated system warning in **Source**, your device sends corresponding notifications to SmartAPI.



The 'System Warning' dialog box features a 'Use' checkbox with a red circle containing the number '13' next to it. Below this is a 'Source' section with four checkboxes: 'SD Card' and 'Video Loss' are checked, while 'Temperature' and 'AUX' are unchecked. An 'Event' section follows, with 'Alarm out' and 'Popup' unchecked, and 'Beep' and 'Alarm LED' checked. At the bottom, there is a dropdown menu currently set to '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 at the simultaneously, the camera with higher priority is displayed.
2. Select individual camera channel aspect ratios.

Liveout Priority			
CH 1	1	1x2-1	5
CH 2	2	1x2-2	6
CH 3	3	2x2	7
CH 4	4	1x2x1	8
		SEQ.	9

#### Sequence Channel

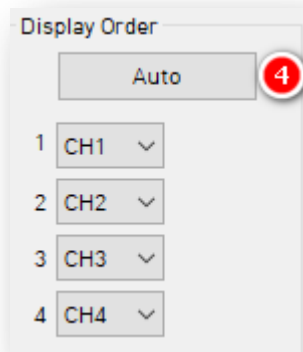
3. Select the display time per selected camera channels (Off – 5 sec), from **Dwell Time** options.

Sequence Channel	
Dwell Time	Off
<input type="checkbox"/> CH1	<input type="checkbox"/> 1x2-1
<input type="checkbox"/> CH2	<input type="checkbox"/> 1x2-2
<input type="checkbox"/> CH3	<input type="checkbox"/> 2x2
<input type="checkbox"/> CH4	<input type="checkbox"/> 1x2x1

## Info > Screen

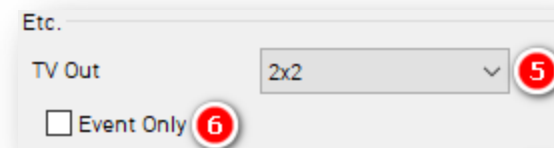
### Display Order

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



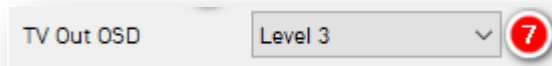
### Etc.

5. Choose a signal to provide to your monitor from **TV Out** options.
6. Turn off the V/O signal, unless configured in the [Event](#) tab, by clicking **Event Only**.



## 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 output.





# Connectivity

## 4.5 How to Configure Connectivity Tab

### Connectivity Tab Layout: At a Glance

The screenshot shows the 'Configuration Tool' window with the 'Connectivity' tab selected. The window has a title bar with standard minimize, maximize, and close buttons. Below the title bar are tabs for 'Device', 'Record', 'Event', 'Info.', 'Connectivity', and 'Server'. The 'Connectivity' tab contains two main sections: 'Mobile Network' and 'Wi-Fi'. In the 'Mobile Network' section, there is a checked 'Enable' checkbox (callout 1), a 'Dial No.' field with '+99#' (callout 2), and empty fields for 'APN', 'User ID', and 'Password'. A 'USB protocol Type' dropdown is set to '0'. The 'Wi-Fi' section has an 'AP' dropdown set to '1' (callout 3), and empty fields for 'SSID' (callout 4) and 'Password' (callout 5). A note below the password field states 'Passwords must be at least eight characters.' At the bottom of the window are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save' (highlighted with a blue border), and 'Eject SD Card'.

Configuration Tool

Device Record Event Info. Connectivity Server

☒ Enable 1

Mobile Network 2

Dial No. +99#

APN

User ID

Password

USB protocol Type 0

Wi-Fi

AP 1 3

SSID 4

Password 5

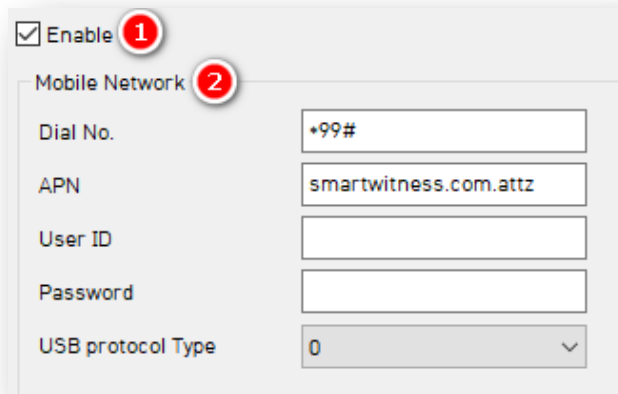
Passwords must be at least eight characters.

About Settings Initialize SD Card Open Save Eject SD Card

## Connectivity

### Mobile Network

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

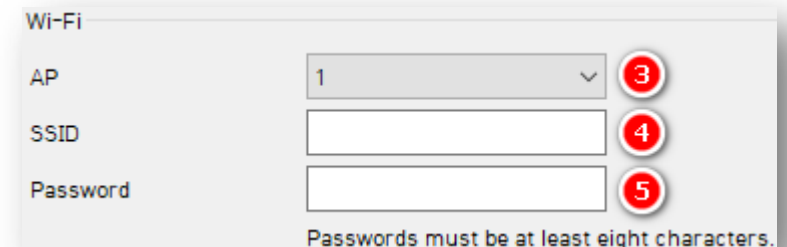


A screenshot of the Mobile Network settings form. At the top, there is a checkbox labeled 'Enable' with a red circle containing the number '1' next to it. Below this is a section titled 'Mobile Network' with a red circle containing the number '2' next to it. The form contains five input fields: 'Dial 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'.

### WiFi

Use WiFi connection instead of cellular, with an approved WiFi USB dongle.

3. Your CP4/CP4S has built-in WiFi. 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**.



A screenshot of the Wi-Fi settings form. It has 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 the fields, there is a note: 'Passwords must be at least eight characters.'

# Server

## 4.6 How to Configure Server Tab

### Server Tab Layout: At a Glance

The screenshot shows the 'Server' tab in the 'Configuration Tool' window. The window has tabs for 'Device', 'Record', 'Event', 'Info.', 'Connectivity', and 'Server'. The 'Server' tab is active. The interface includes several input fields and checkboxes, with red numbered callouts (1-8) highlighting specific areas:

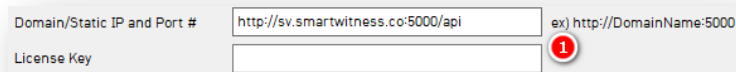
- 1**: Domain/Static IP and Port # field, showing 'http://sv.smartwitness.co:5000/api' and an example 'http://DomainName:5000'.
- 2**: 'Transmit Live Tracking Data' checkbox, which is checked.
- 3**: 'Transmit Event Data' checkbox, which is checked.
- 4**: 'Transmit Telematics Data (DRV)' checkbox, which is checked.
- 5**: 'Transmit Emergency Call Notification' checkbox, which is checked.
- 6**: 'CAM4' checkbox under 'Event Images', which is checked.
- 7**: 'Pre-Event' and 'Post-Event' duration dropdowns, both set to '5 Sec'.
- 8**: 'Event Triggered by' section, which contains multiple checkboxes for various triggers and their corresponding 'Transmit Image' options.

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

## Server

### Server

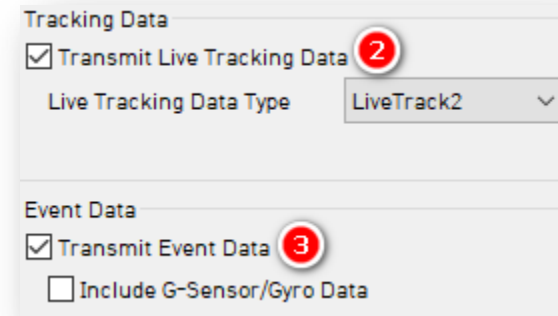
1. SmartWitness, or your service provider, will give you the **Domain/Static IP and Port #** URL and **License Key** (If necessary) to enter here.



A screenshot of a configuration form with two input fields. The first field is labeled 'Domain/Static IP and Port #' and contains the text 'http://sv.smartwitness.co:5000/api'. To its right is a smaller text 'ex) http://DomainName:5000'. The second field is labeled 'License Key' and is empty. A red circle with the number '1' is positioned to the right of the second field.

### 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**.

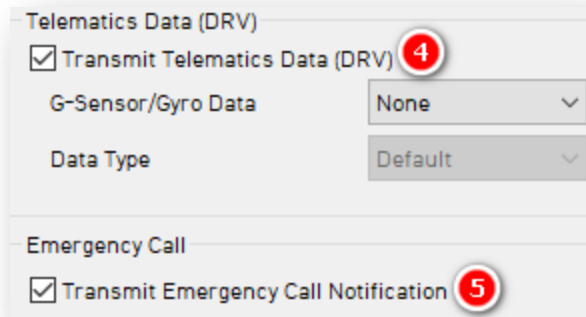


A screenshot of a configuration form with two sections. The first section is titled 'Tracking Data' and contains a checked checkbox labeled 'Transmit Live Tracking Data' with a red circle '2' next to it. Below this is a dropdown menu labeled 'Live Tracking Data Type' with 'LiveTrack2' selected. The second section is titled 'Event Data' and contains a checked checkbox labeled 'Transmit Event Data' with a red circle '3' next to it. Below this is an unchecked checkbox labeled 'Include G-Sensor/Gyro Data'.

## Server

4. Send DRV data to the server by clicking **Transmit Telematics Data (DRV)**.
5. To send e-Calls to the server, check **Transmit Emergency Call Notification**.

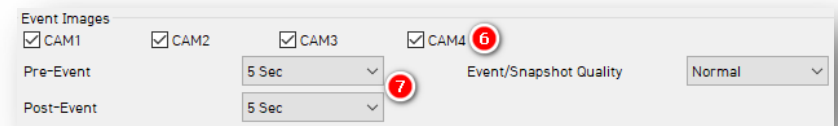
**Note:** The frequency interval of LiveTrack and DRV uploads are controlled by the server.



The screenshot shows two sections of a settings interface. The top section, titled 'Telematics Data (DRV)', contains a checked checkbox labeled 'Transmit Telematics Data (DRV)' with a red circle containing the number 4 next to it. Below this are two dropdown menus: 'G-Sensor/Gyro Data' set to 'None' and 'Data Type' set to 'Default'. The bottom section, titled 'Emergency Call', contains a checked checkbox labeled 'Transmit Emergency Call Notification' with a red circle containing the number 5 next to it.

## 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.



The screenshot shows the 'Event Images' settings interface. It features four checkboxes for camera channels: 'CAM1', 'CAM2', 'CAM3', and 'CAM4', all of which are checked. A red circle with the number 6 is next to the 'CAM4' checkbox. Below the checkboxes are two rows of settings. The 'Pre-Event' row has a dropdown menu set to '5 Sec' and a red circle with the number 7 next to it. The 'Post-Event' row also has a dropdown menu set to '5 Sec'. To the right of these rows is a label 'Event/Snapshot Quality' followed by a dropdown menu set to 'Normal'.

## Server

### Event Triggered By

8. To determine what events your device sends to the server, select from options like **G-Sensor** and **eCall**. Events transmit instantly, even if your device is in “Continuous” record mode.

Event Triggered by **8**

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

## Complete Your Configuration

### 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 into your CP4/CP4S and power on the device.
5. You've completed your configuration.

**Note:** You can apply device configurations can over-the-air from the Smart API Workstation. Read 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](mailto:support@smartwitness.com).

Feel free to call our support team:

**North America, South America, APAC**

- +1 (312) 981 8774

**EMEA**

- +44 (0) 1483 397005