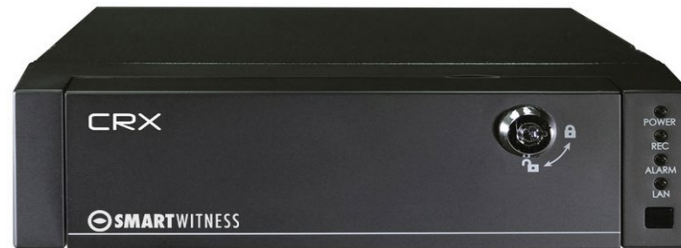


# Sensata INSIGHTS CRX

## Device Configuration Guide



## CRX Setup and Configuration



CRX Config

### [Download the CRX configuration tool](#)

1. Install and open the configuration tool:
2. Insert SD Card into your PC (Max 128GB SD card supported).
  1. Click 'Initialize SD Card'
  2. Select the SD card from File Explorer.
  3. Click "Start" to initialize.
  4. Apply your desired settings (or click "Open" to load existing settings).
5. Click "Save" to apply to SD card.
6. Eject Card safely from your PC.

\*SD cards can also be removed from the CRX to review video and data. For this, the INSIGHTS PC viewer software is required which you can [download here](#) or visit [Support.smartwitness.com](http://Support.smartwitness.com)



CRX Software  
Analysis

## Device Tab - Main

### Camera

- Enable the desired camera channels.
- Camera title holds up to 10 digits.
- Adjust brightness & contrast levels.
- Specify image transformation as desired (Flip, Mirror, or both).

### Misc.

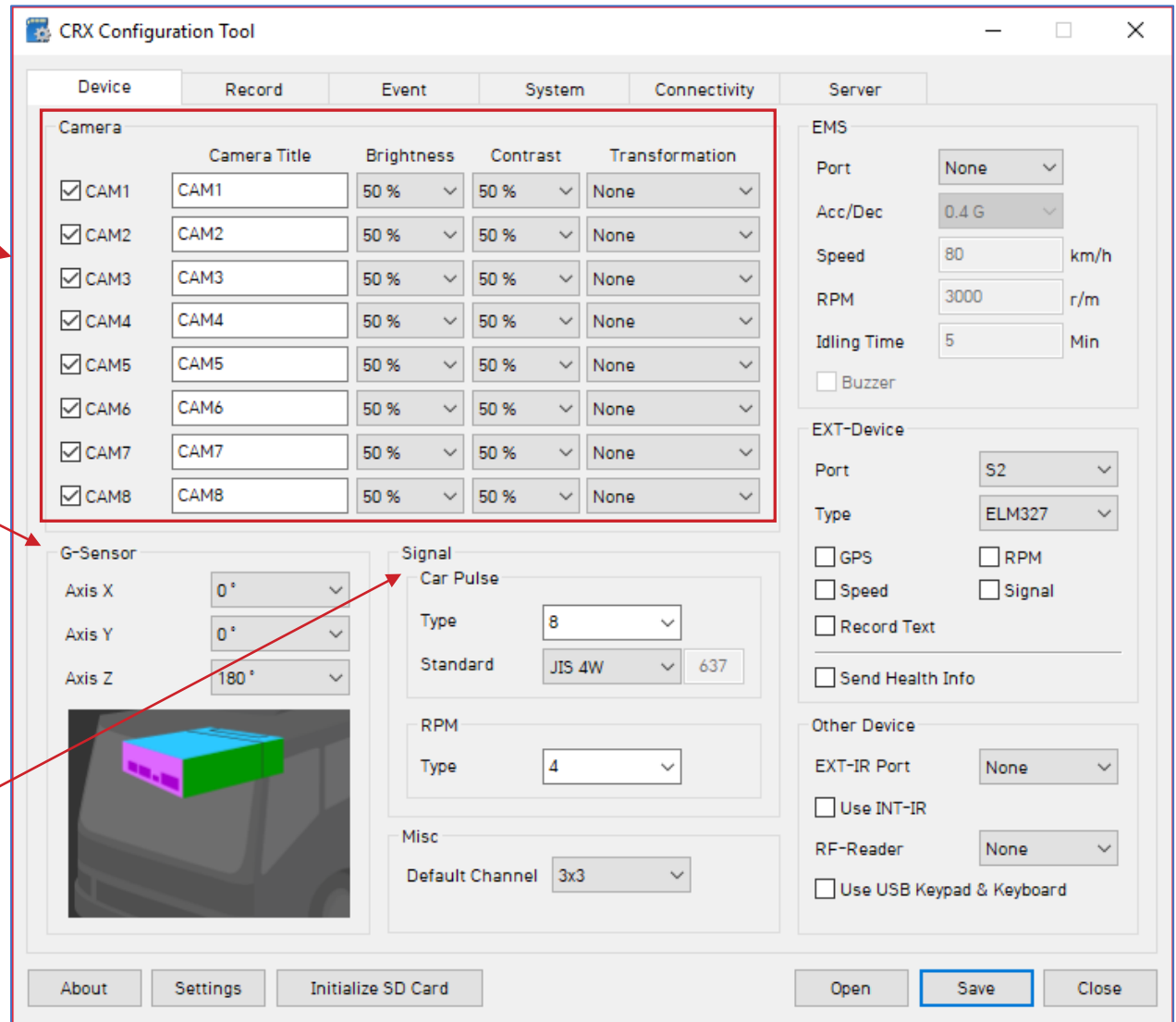
Default Channel: specifies default video output channel

### Signal & RPM(Optional)

These are optional input wires on the CRX I/O harness which can connect to tachometer's to receive the vehicle RPM and/or speed.

### G-Sensor Axis

Set the CRX's installed position. This is Important for proper G-Sensor calibration and accurate drive data reporting.



Device	Record	Event	System	Connectivity	Server
<b>Camera</b>					
Camera Title	Brightness	Contrast	Transformation		
<input checked="" type="checkbox"/> CAM1	CAM1	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM2	CAM2	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM3	CAM3	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM4	CAM4	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM5	CAM5	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM6	CAM6	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM7	CAM7	50 %	50 %	None	
<input checked="" type="checkbox"/> CAM8	CAM8	50 %	50 %	None	

**G-Sensor**

Axis X: 0°  
 Axis Y: 0°  
 Axis Z: 180°

**Signal**

Car Pulse  
 Type: 8  
 Standard: JIS 4W 637

RPM  
 Type: 4

**Misc**

Default Channel: 3x3

**Server**

EMS  
 Port: None  
 Acc/Dec: 0.4 G  
 Speed: 80 km/h  
 RPM: 3000 r/m  
 Idling Time: 5 Min  
 Buzzer

**EXT-Device**

Port: S2  
 Type: ELM327  
 GPS  
 RPM  
 Speed  
 Signal  
 Record Text  
 Send Health Info

**Other Device**

EXT-IR Port: None  
 Use INT-IR  
 RF-Reader: None  
 Use USB Keypad & Keyboard

Buttons: About, Settings, Initialize SD Card, Open, Save, Close

## Device Tab - External

### External Devices (Optional)

Used to enable the serial ports in order to connect an external device (such as Battery Backup device, RFID reader, and OBD reader).

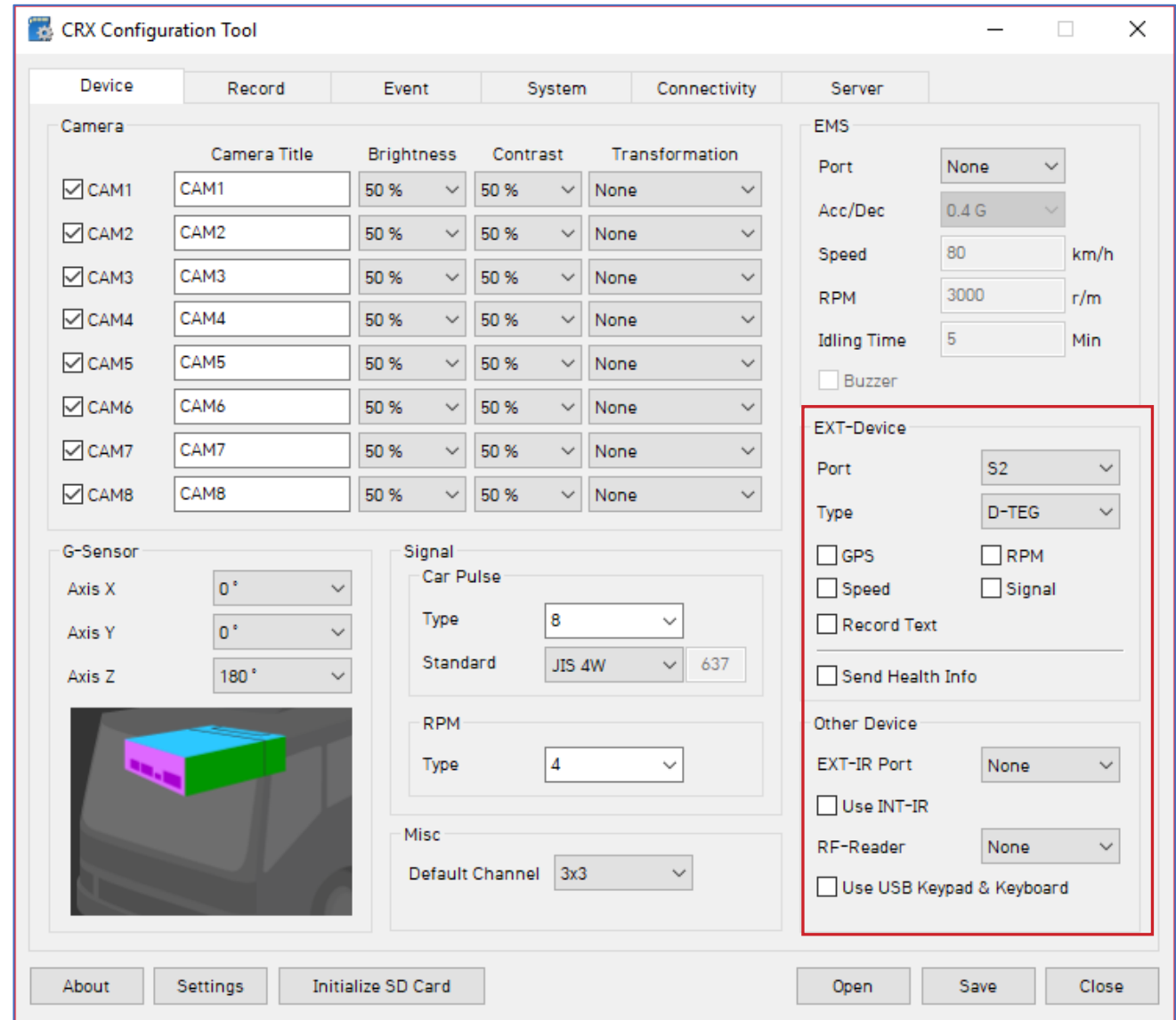
- Select from S1~S6
- Choose port type D-TEG/ATBS/ELM327 or OMNICOMM.

If using the BB900 backup battery device, you should set the S2 port as seen in the picture to the right (picture below of BB900 connected to CRX)



S2 port

DC IN port



CRX Configuration Tool

Device | Record | Event | System | Connectivity | Server

Camera

Camera Title	Brightness	Contrast	Transformation
CAM1	50 %	50 %	None
CAM2	50 %	50 %	None
CAM3	50 %	50 %	None
CAM4	50 %	50 %	None
CAM5	50 %	50 %	None
CAM6	50 %	50 %	None
CAM7	50 %	50 %	None
CAM8	50 %	50 %	None

G-Sensor

Axis X: 0°  
Axis Y: 0°  
Axis Z: 180°

Signal

Car Pulse  
Type: 8  
Standard: JIS 4W 637

RPM  
Type: 4

Misc  
Default Channel: 3x3

Server

EMS

Port: None  
Acc/Dec: 0.4 G  
Speed: 80 km/h  
RPM: 3000 r/m  
Idling Time: 5 Min  
 Buzzer

**EXT-Device**

Port: S2  
Type: D-TEG

GPS  
 RPM  
 Speed  
 Signal  
 Record Text  
 Send Health Info

Other Device

EXT-IR Port: None  
 Use INT-IR  
RF-Reader: None  
 Use USB Keypad & Keyboard

About | Settings | Initialize SD Card | Open | Save | Close

## Record Tab

### Channel

**Resolution:** Chose from CIF, HD1, D1, WD1, HD (720p) or FHD (1080p). If using 1080p camera, it will occupy two channels (i.e. 1080p in Ch1, then Ch2 is not usable)

**Frame Rate:** Choose from 30, 15, 10, 5, 4, 3, 2, or 1.

**Quality:** Standard, High, or Super. (The lower the quality, the more compressed/lossy the video output).

**Audio:** Enable for cameras with built in mic (Optional).

### Record Modes

**Event:** Only events are recorded, event video duration determined by the pre & post event setting.

**Continuous:** Records video continuously, no events (events can still be sent to SmartAPI server if configured on the Server tab).

**Dual Mode:** Records continuous at 1FPS + events at the specified FPS.

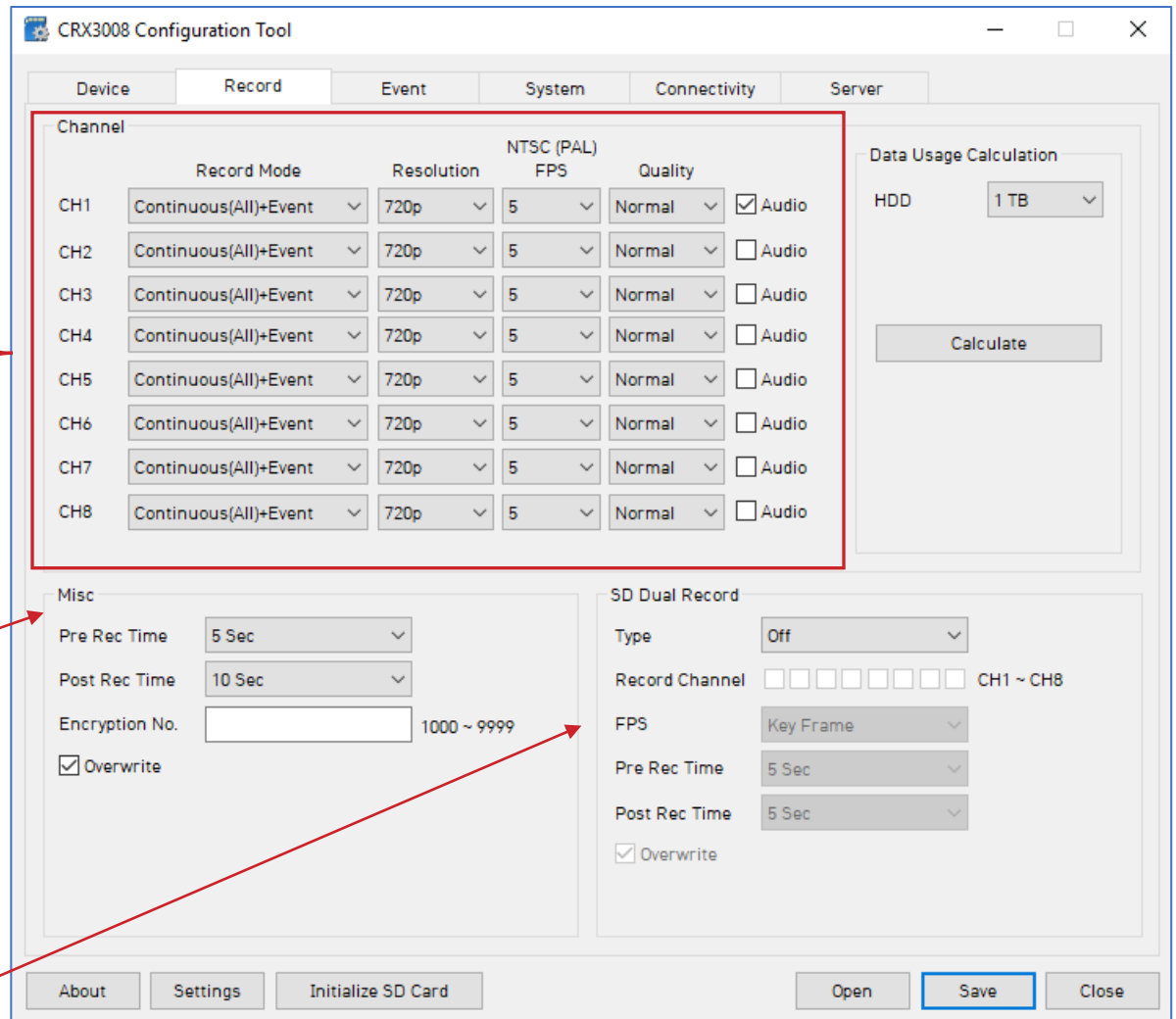
### Event Recording Duration Settings

**Pre Rec-Time:** To have a set of pre-recorded data for an event. Select from 0~5 seconds.

**Post Rec-Time:** To have a set of post-recorded data for an event. Select from 10~3600 seconds.

**SD Dual Record:** If SD card is connected to CRX, it can be used in the following ways:

- **Off:** No data is being recorded (set if no SD card if being used).
- **Driving:** Only driving data (DRV) is being recorded.
- **Event:** Only Event video is saved to the SD card.
- **Continuous:** 1FPS footage of continuous footage is saved to the SD.



CRX3008 Configuration Tool

Device | Record | Event | System | Connectivity | Server

Channel

Channel	Record Mode	Resolution	NTSC (PAL) FPS	Quality	Audio
CH1	Continuous(All)+Event	720p	5	Normal	<input checked="" type="checkbox"/>
CH2	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>
CH3	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>
CH4	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>
CH5	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>
CH6	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>
CH7	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>
CH8	Continuous(All)+Event	720p	5	Normal	<input type="checkbox"/>

Data Usage Calculation

HDD: 1 TB

Calculate

Misc

Pre Rec Time: 5 Sec

Post Rec Time: 10 Sec

Encryption No.: [ ] 1000 ~ 9999

Overwrite

SD Dual Record

Type: Off

Record Channel:         CH1 ~ CH8

FPS: Key Frame

Pre Rec Time: 5 Sec

Post Rec Time: 5 Sec

Overwrite

About | Settings | Initialize SD Card | Open | Save | Close

## Event Tab – Motion

### Motion

- **Use:** Enable the desired cameras to trigger motion.
- **Sensitivity:** Adjust sensitivity level (“1” less sensitive ~ “5” more sensitive).
- **Area:** Motion trigger area is set as the whole camera view by default, but it can be readjusted.
- **Record Channel:** Enable the camera(s) to record when the motion sensor is being triggered.
  - The record channel boxes are CH 1~8 from left to right.
  - Only channels that are selected from **Device** tab can be selected.
- Enable SD card record (Optional).
- **Stop/Enable:** The motion trigger.
- Alarm Out1& Alarm Out2 can be enabled if needed.
- Specify the Liveout Channel (In case of having an LCD monitor) & liveout duration.

CRX3008 Configuration Tool

Device Record **Event** System Connectivity Server

Motion Alarm In Signal Etc

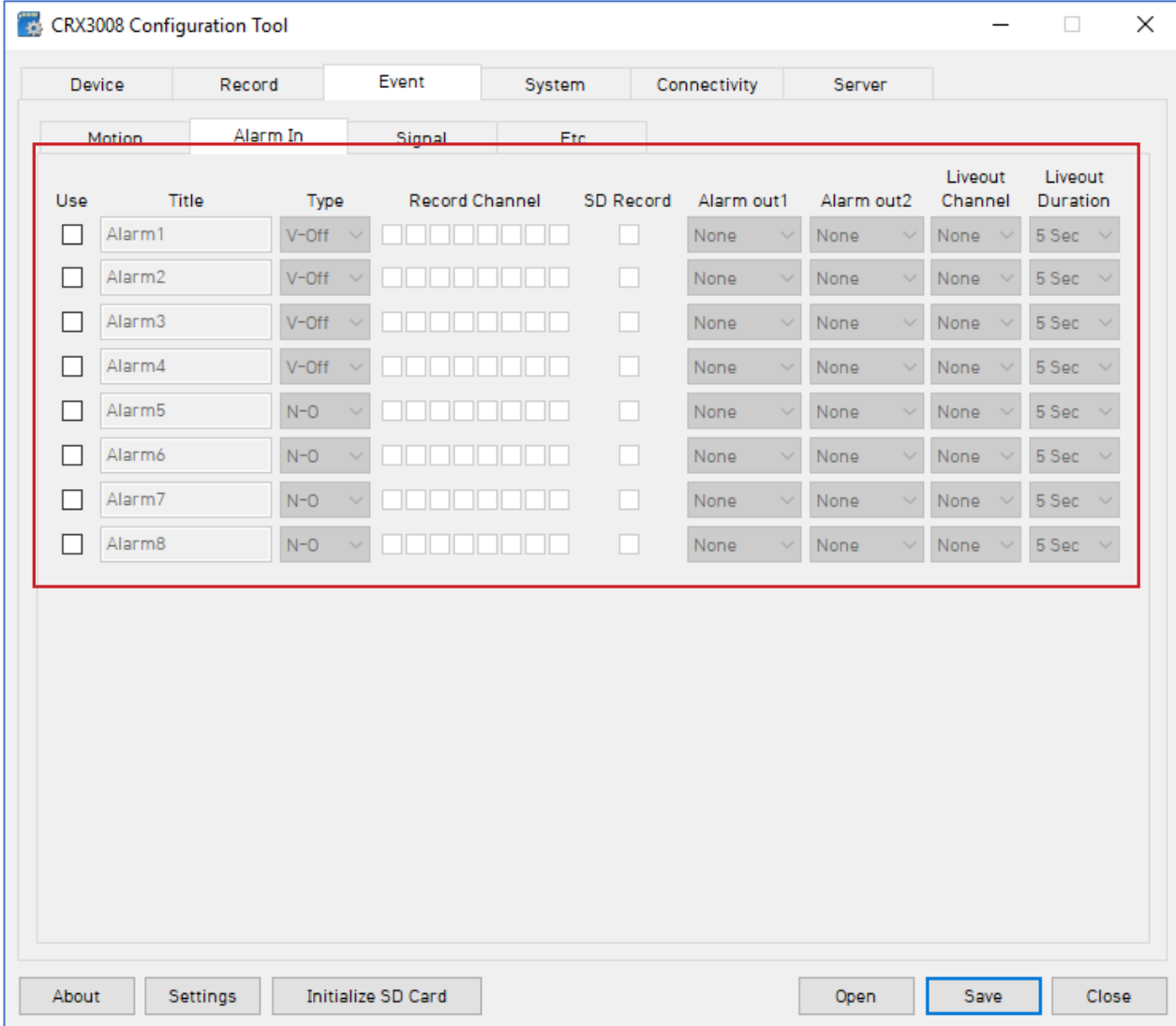
Use	Sensitivity	Area	Record Channel	SD Record	Stop Enable	Alarm out1	Alarm out2	Liveout Channel	Liveout Duration
<input type="checkbox"/> CAM1	3	Set	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM2	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM3	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM4	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM5	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM6	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM7	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/> CAM8	3	Set	<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"/>	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec

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

## Event Tab – Alarm In

### Alarm In

- **Use:** Enable the boxes for the alarms that will be used.
- **Title:** Provide a title up to 10 digits (Optional).
- **Type:** Specify the voltage type.
  - Alarms (1~4) can be set to trigger when (Voltage-Off/Voltage-On).
  - Alarms (5~7) can be set to trigger (N-Open/N-Close).
  - *Note:* Panic alarm trigger must be connected to alarm “5”.
- **Record Channel:** Enable the camera(s) to record when the alarm is being triggered.
  - The record channel boxes are CH 1~8 from left to right.
  - Only channels that are selected from **Device** tab can be selected.
- Enable SD card record (Optional).
- Alarm Out1 & Alarm Out2 can be enabled if needed.
- Specify the Liveout Channel (In case of having an LCD monitor) & liveout duration.

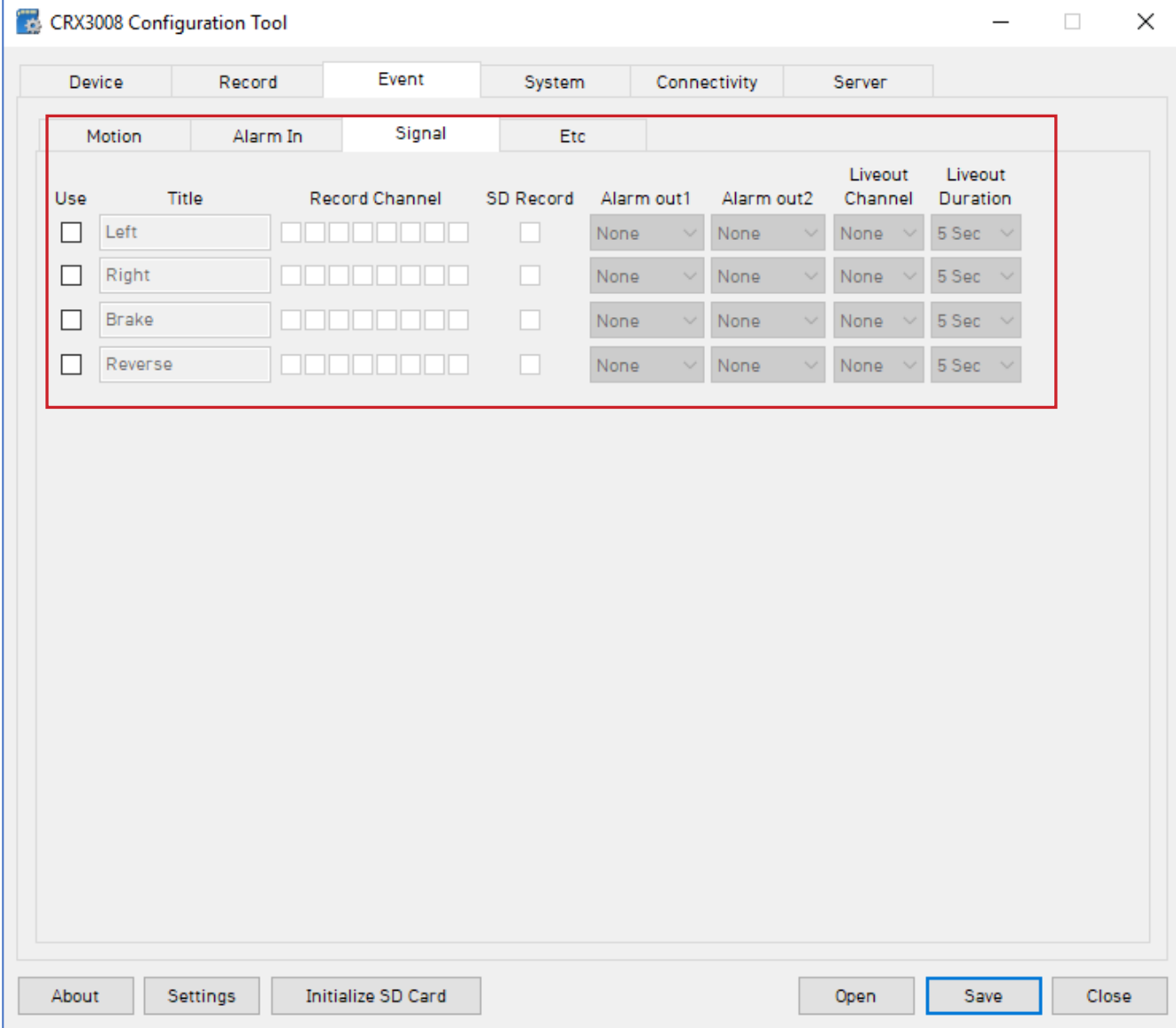


Use	Title	Type	Record Channel	SD Record	Alarm out1	Alarm out2	Liveout Channel	Liveout Duration
<input type="checkbox"/>	Alarm1	V-Off	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
<input type="checkbox"/>	Alarm2	V-Off	<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	None	5 Sec
<input type="checkbox"/>	Alarm3	V-Off	<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	None	5 Sec
<input type="checkbox"/>	Alarm4	V-Off	<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	None	5 Sec
<input type="checkbox"/>	Alarm5	N-O	<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	None	5 Sec
<input type="checkbox"/>	Alarm6	N-O	<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	None	5 Sec
<input type="checkbox"/>	Alarm7	N-O	<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	None	5 Sec
<input type="checkbox"/>	Alarm8	N-O	<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	None	5 Sec

## Event Tab – Signal

### Signal

- **Use:** Enable the boxes for the alarms that will be used.
- **Title:** Provide a title up to 10 digits (Optional).
- **Record Channel:** Enable the camera(s) to record when the alarm is being triggered.
  - The record channel boxes are CH 1~8 from left to right.
  - Only channels that are selected from **Device** tab can be selected.
- Enable SD card record (Optional).
- Alarm Out1 & Alarm Out2 can be enabled if needed.
- Specify the Liveout Channel (In case of having an LCD monitor) & liveout duration.



CRX3008 Configuration Tool

Device Record **Event** System Connectivity Server

Motion Alarm In **Signal** Etc

Use	Title	Record Channel	SD Record	Alarm out1	Alarm out2	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"/>	<input type="checkbox"/>	None	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"/>	<input type="checkbox"/>	None	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"/>	<input type="checkbox"/>	None	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"/>	<input type="checkbox"/>	None	None	None	5 Sec

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



## Event – Etc.

Check the boxes next to each event you want triggered.

You can also set speed thresholds here if you'd like to record over speed events. (This is raw vehicle speed and does not account for road/posted speed limits).

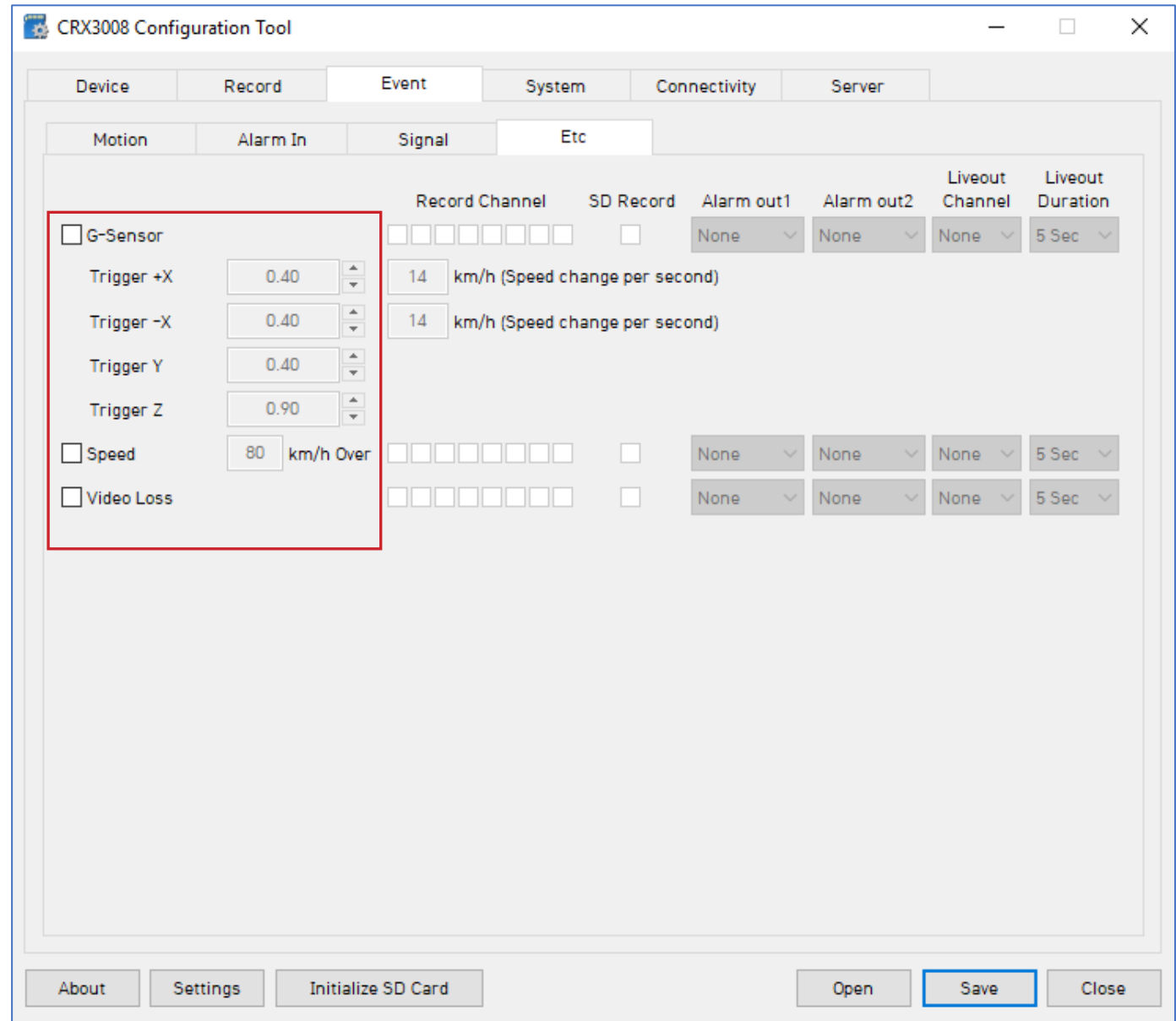
Check "Beep" if you'd like an audible chime to alert the driver when the event occurs.

Specify the G-Sensor values.

An event will be triggered when the g-sensor exceeds the pre-set values.

If using the optional alarm input triggers then you need to check the box(s) here and label them according to the input type (i.e. horn, door open, etc.)

Also the input type should be selected (NC/NO, or 12V ON/OFF).



CRX3008 Configuration Tool

Device Record **Event** System Connectivity Server

Motion Alarm In Signal **Etc**

	Record Channel	SD Record	Alarm out1	Alarm out2	Liveout Channel	Liveout Duration
<input type="checkbox"/> G-Sensor	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
Trigger +X	14 km/h (Speed change per second)					
Trigger -X	14 km/h (Speed change per second)					
Trigger Y						
Trigger Z						
<input type="checkbox"/> Speed	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec
80 km/h Over						
<input type="checkbox"/> Video Loss	<input type="checkbox"/>	<input type="checkbox"/>	None	None	None	5 Sec

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

## System Tab – Date/Time

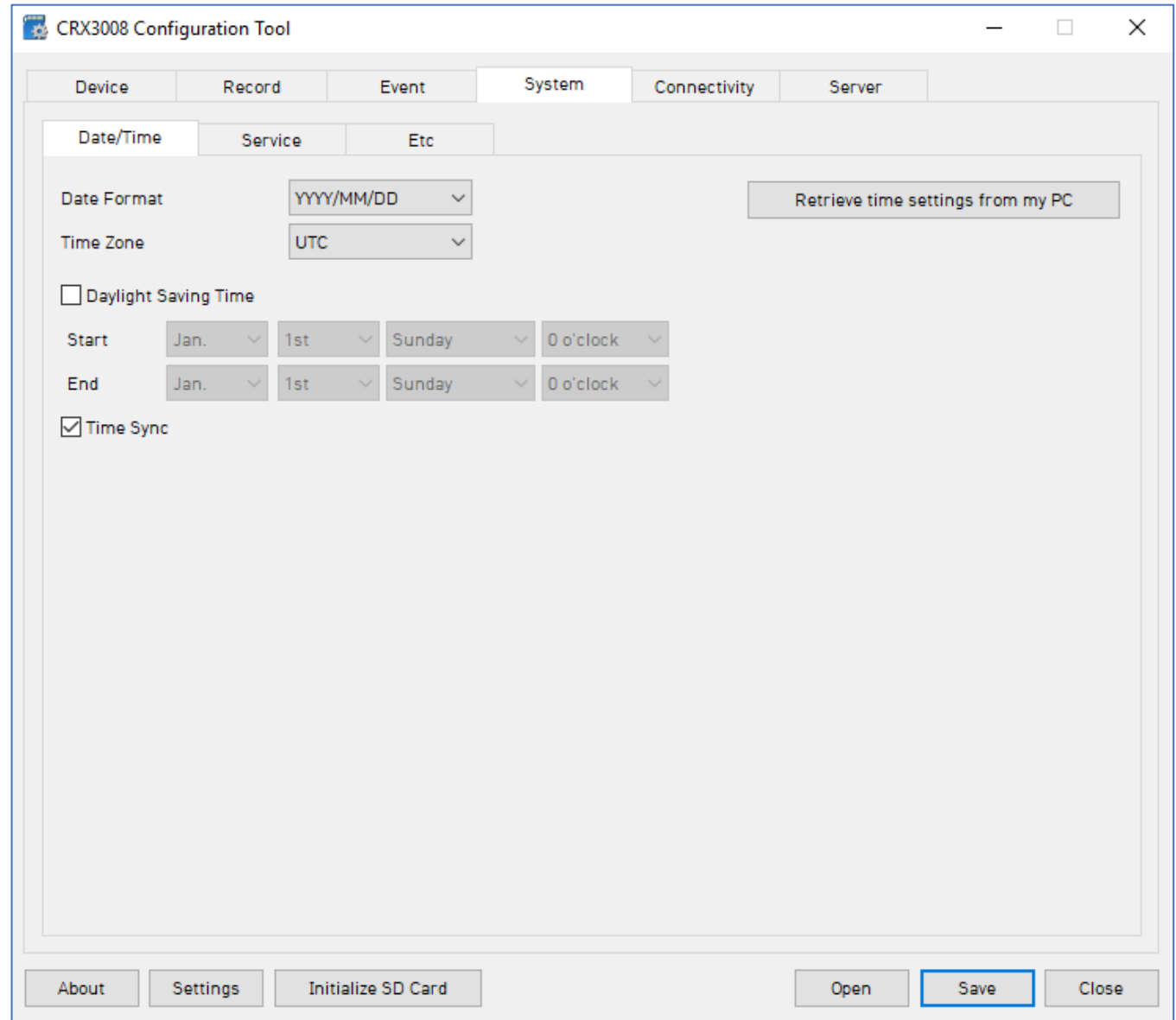
Time setting is not necessary as the PC Viewer software and SmartAPI both adjust the standard UTC time to local time automatically.

### DST (Optional)

Check the box to enable the daylight saving time.

Input the start & end date.

**\*DO NOT USE IF CRX IS CONNECTED TO SmartAPI**



The screenshot shows the 'CRX3008 Configuration Tool' window with the 'System' tab selected. The 'Date/Time' sub-tab is active, showing the following settings:

- Date Format: YYYY/MM/DD
- Time Zone: UTC
- Daylight Saving Time:  (unchecked)
- Start: Jan. 1st Sunday 0 o'clock
- End: Jan. 1st Sunday 0 o'clock
- Time Sync:  (checked)

A button labeled 'Retrieve time settings from my PC' is located in the top right corner of the settings area. At the bottom of the window, there are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Close'.

## System Tab – Service

### Service

- Default values are set as shown.
- Delay power shutdown can be adjusted as desired.

### Liveout Priority

- Display on CRX can be prioritized from “1” highest priority ~ “11” lowest priority.
  - Example Logic:  
If CH 2 & CH3 both triggered an event the same time, CH2 has the priority to display on the monitor.

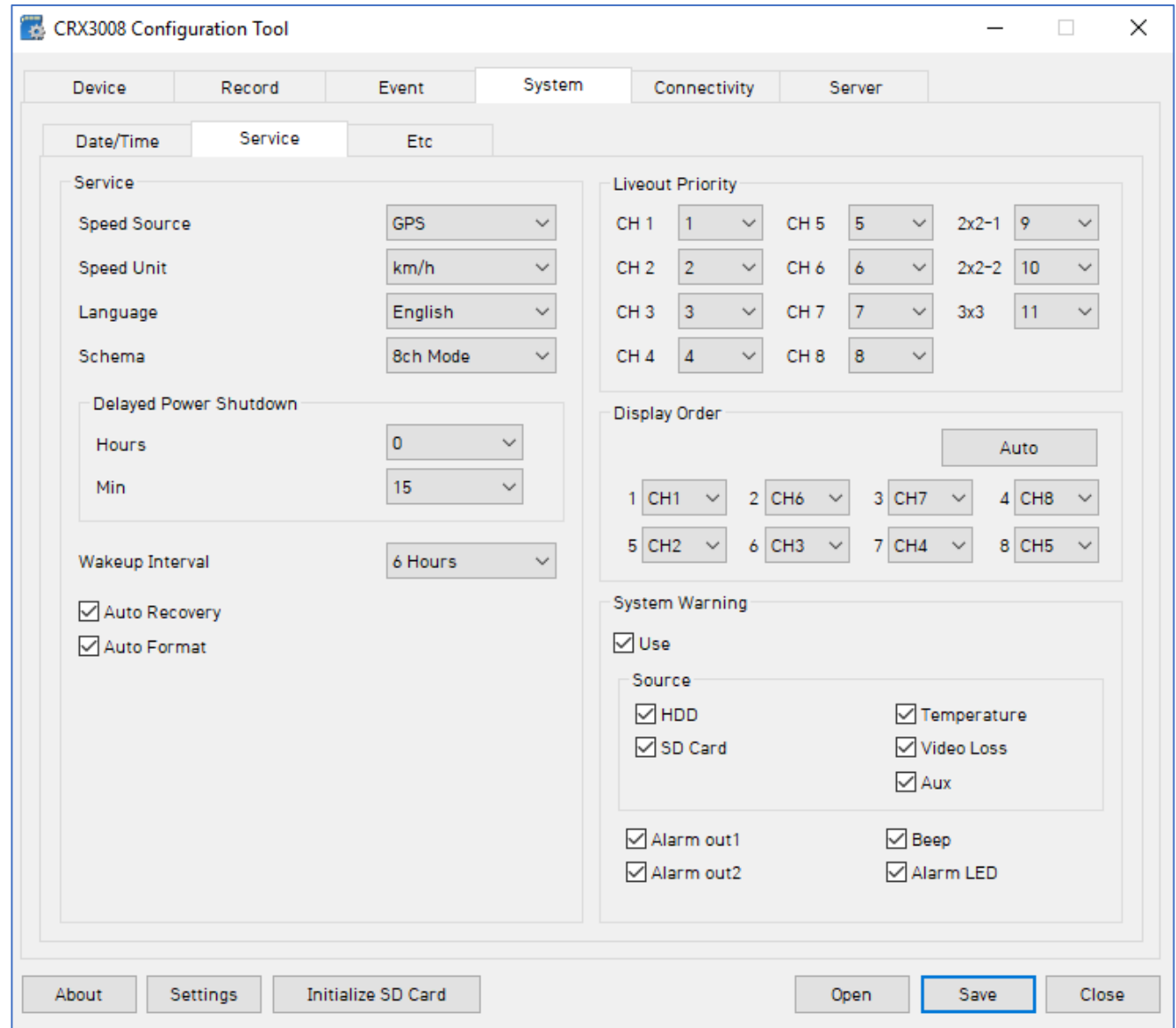
### System Warning

- Provides an alert for any of the selected sources in case of failure.

### Display Order

- The order of cameras as they are displayed on the LCD monitor

1	2	3
4	5	6
7	8	



The screenshot shows the 'CRX3008 Configuration Tool' window with the 'System' tab selected. The 'Service' sub-tab is active, showing various configuration options:

- Service:** Speed Source (GPS), Speed Unit (km/h), Language (English), Schema (8ch Mode).
- Delayed Power Shutdown:** Hours (0), Min (15).
- Wakeup Interval:** 6 Hours.
- Auto Recovery:**  Auto Recovery,  Auto Format.
- Liveout Priority:** A grid of dropdown menus for CH 1 through CH 8, with 2x2-1 (9), 2x2-2 (10), and 3x3 (11) also visible.
- Display Order:** A grid of dropdown menus for CH 1 through CH 8, with an 'Auto' button.
- System Warning:**  Use. Sources:  HDD,  SD Card,  Temperature,  Video Loss,  Aux. Alerts:  Alarm out1,  Alarm out2,  Beep,  Alarm LED.

Buttons at the bottom include: About, Settings, Initialize SD Card, Open, Save (highlighted), and Close.

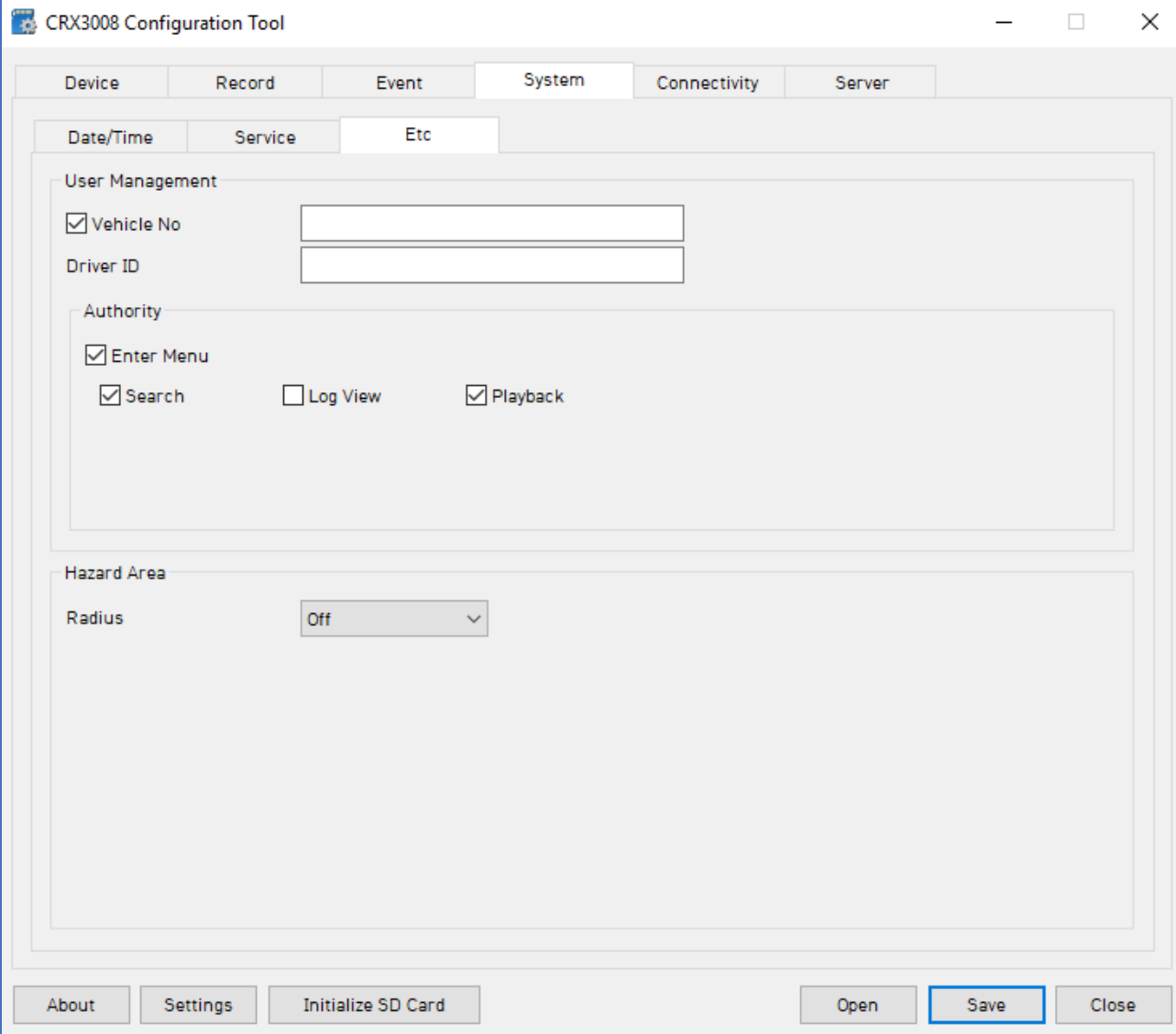
## System Tab – Etc.

SD Card auto format feature enables the CRX to perform automatic maintenance on the SD cards when there is an issue. SD cards need to be re-formatted occasionally over time.

This unique feature reduces the administrative burden of managing SD card formatting amongst your fleet.

Note: SD card data will be deleted when an auto-format occurs.

Vehicle No & Driver ID can be added here. These values will be able to be watermarked on the MP4 converted video using the PC software.



The screenshot displays the 'CRX3008 Configuration Tool' window. The 'System' tab is active, and the 'Etc' sub-tab is selected. The 'User Management' section contains a checked checkbox for 'Vehicle No' with an adjacent text input field, and a 'Driver ID' text input field. The 'Authority' section includes a checked checkbox for 'Enter Menu', and three other checkboxes: 'Search' (checked), 'Log View' (unchecked), and 'Playback' (checked). The 'Hazard Area' section features a 'Radius' dropdown menu currently set to 'Off'. At the bottom of the window, there are buttons for 'About', 'Settings', 'Initialize SD Card', 'Open', 'Save', and 'Close'.

## Connectivity Tab

When using CRX as a connected device, "Enable" the connectivity here, and specify the connectivity type (LAN, Mobile Network or Wi-Fi).

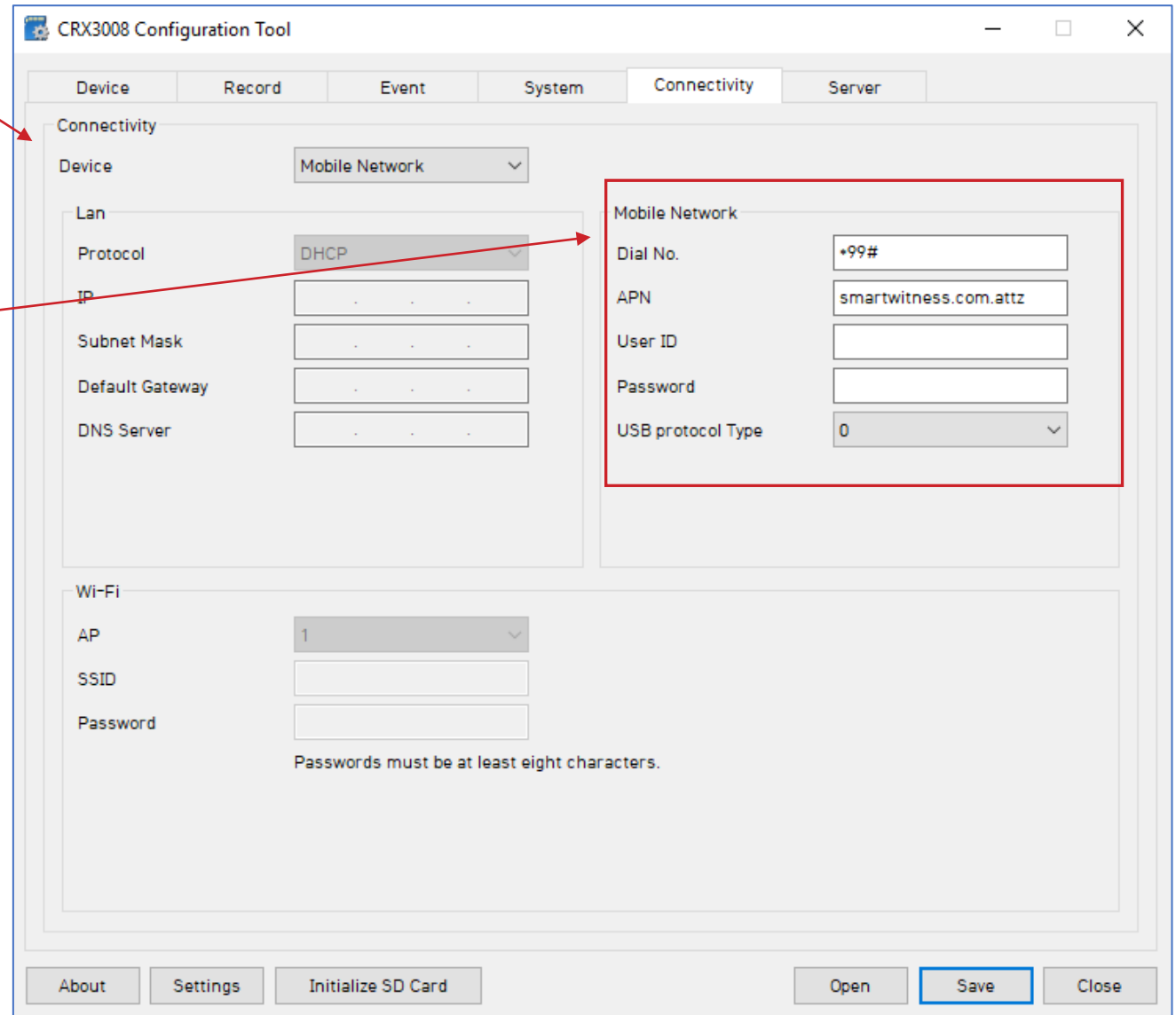
If using Mobile Network (USB modem connected to blue USB1 port), you must add Mobile Network provider details here



If using an INSIGHTS SIM (AT&T), the APN should be as shown

If using SW UK (O2 Arkessa) below

+99#
arkessa.com
arkessa
arkessa
None
0



CRX3008 Configuration Tool

Device Record Event System **Connectivity** Server

Connectivity

Device: Mobile Network

Lan:

Protocol: DHCP

IP: . . .

Subnet Mask: . . .

Default Gateway: . . .

DNS Server: . . .

Mobile Network

Dial No.: +99#

APN: smartwitness.com.attz

User ID:

Password:

USB protocol Type: 0

Wi-Fi

AP: 1

SSID:

Password:

Passwords must be at least eight characters.

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

## Server Tab

INSIGHTS or your service provider will provide you the URL and (if necessary) the License Key to enter here.

**Transmit Live Tracking Data:** Check to enable http posts from the CRX to server. Livetrack2 contains GPS coordinates. LiveTrack3 does not.

**Transmit Event Data:** Check to enable CRX posting event notification and images to the server.

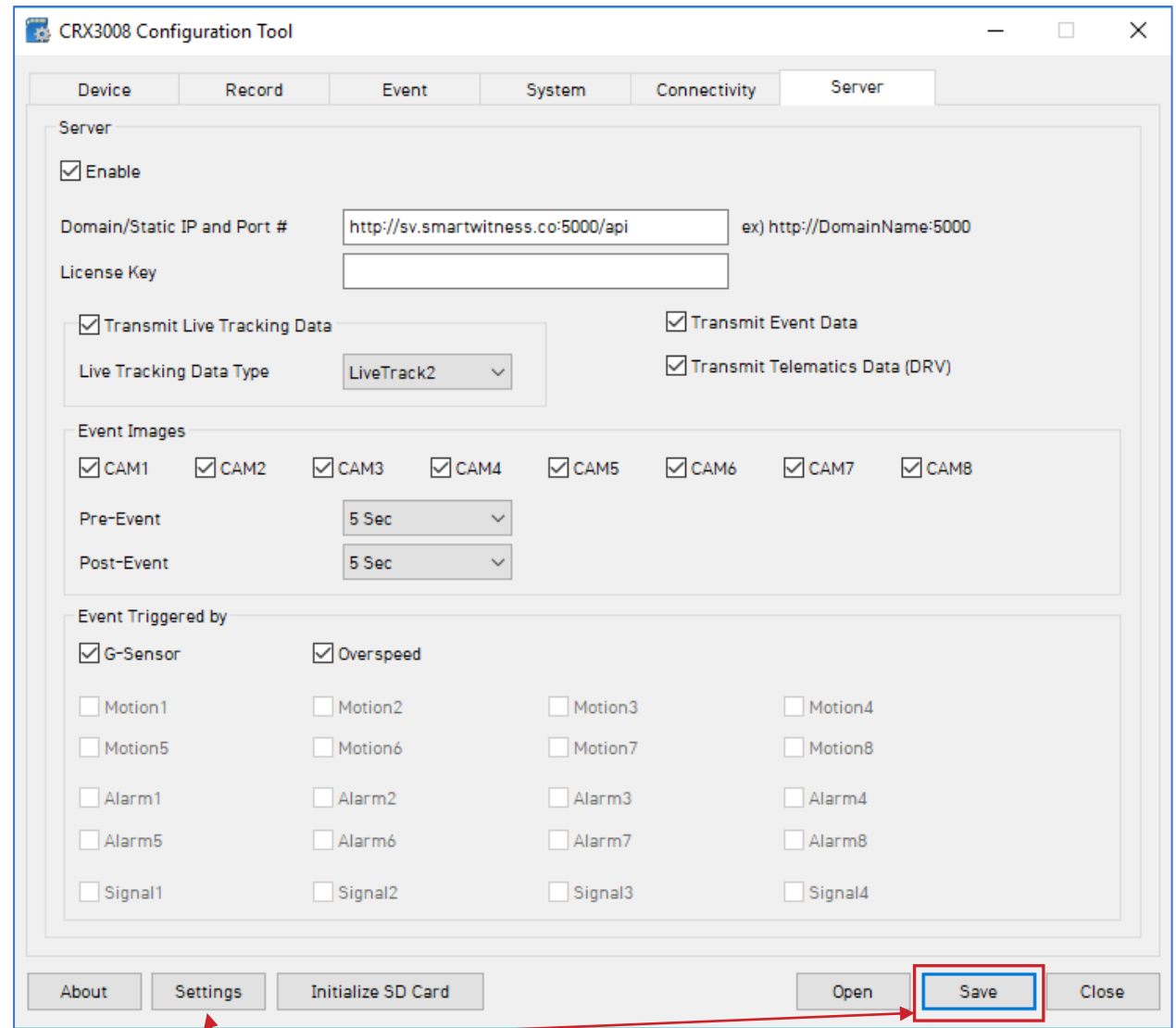
**Transmit Telematics Data:** Check to enable CRX to send DRV data (static/compressed file containing drive data from every second the vehicle is in operation.

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

Select the events here which the CRX will transmit to the server in real-time. These events will transmit instantly even if CRX is set as "Continuous" record mode

Click 'Save' and select the "AVFILE3" SD drive when prompted. This will save your configuration to the card. Wait for the software to confirm the settings have been applied to the SD Card.

You can now eject the SD from your PC and insert into CRX and power on



You can also save the settings as default to the config tool software by clicking "settings" and "Save current settings as default"

## CRX G-Sensor Threshold Table

### Low Speed Table

Level	axis	ACCSENX		ACCSENY				ACCSENZ	
		Impact		Sudden start/ sudden stop1		Sudden start/ sudden stop2		Quick Turn	
		G(mg)	Hz	G(mg)	Hz	G(mg)	Hz	G(mg)	Hz
1 (less sensitive)	X	950	1	450	8	500	5~7	-	-
	Y	950	1	-	-	-	-	350	15
	Z	1050	1	-	-	-	-	-	-
2	X	900	1	420	8	470	5~7	-	-
	Y	900	1	-	-	-	-	340	15
	Z	1000	1	-	-	-	-	-	-
3	X	850	1	390	8	440	5~7	-	-
	Y	850	1	-	-	-	-	320	15
	Z	950	1	-	-	-	-	-	-
4	X	800	1	360	8	410	5~7	-	-
	Y	800	1	-	-	-	-	310	15
	Z	900	1	-	-	-	-	-	-
5	X	750	1	330	8	380	5~7	-	-
	Y	750	1	-	-	-	-	300	20
	Z	850	1	-	-	-	-	-	-
6	X	700	1	310	8	360	5-7	-	-
	Y	700	1	-	-	-	-	280	20
	Z	800	1	-	-	-	-	-	-
7	X	650	1	240	10	-	-	-	-
	Y	650	1	-	-	-	-	230	20
	Z	750	1	-	-	-	-	-	-
8	X	600	1	190	10	-	-	-	-
	Y	600	1	-	-	-	-	190	15
	Z	700	1	-	-	-	-	-	-
9	X	550	1	170	10	-	-	-	-
	Y	550	1	-	-	-	-	170	15
	Z	650	1	-	-	-	-	-	-

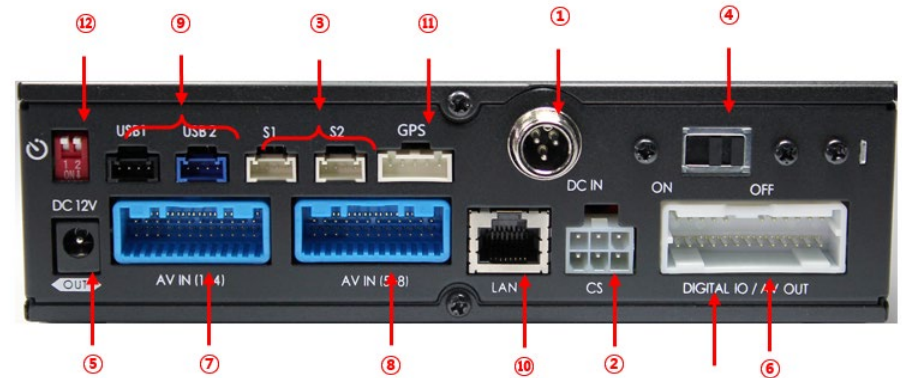
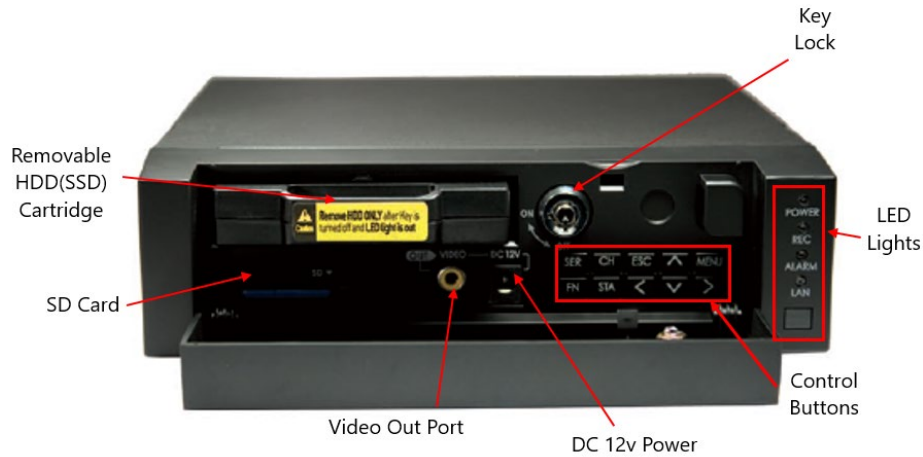
### High Speed Table

Level	axis	ACCSENX		ACCSENY				ACCSENZ	
		Impact		Sudden start/ sudden stop1		Sudden start/ sudden stop2		Quick Turn	
		G(mg)	Hz	G(mg)	Hz	G(mg)	Hz	G(mg)	Hz
1 (less sensitive)	X	1350	1	480	10	-	-	-	-
	Y	1350	1	-	-	-	-	420	15
	Z	1450	1	-	-	-	-	-	-
2	X	1300	1	450	10	-	-	-	-
	Y	1300	1	-	-	-	-	410	15
	Z	1400	1	-	-	-	-	-	-
3	X	1250	1	420	10	-	-	-	-
	Y	1250	1	-	-	-	-	380	15
	Z	1350	1	-	-	-	-	-	-
4	X	1200	1	390	10	-	-	-	-
	Y	1200	1	-	-	-	-	370	15
	Z	1300	1	-	-	-	-	-	-
5	X	1150	1	360	10	-	-	-	-
	Y	1150	1	-	-	-	-	340	20
	Z	1250	1	-	-	-	-	-	-
6	X	1100	1	340	10	-	-	-	-
	Y	1100	1	-	-	-	-	320	20
	Z	1200	1	-	-	-	-	-	-
7	X	1050	1	270	10	-	-	-	-
	Y	1050	1	-	-	-	-	270	20
	Z	1150	1	-	-	-	-	-	-
8	X	1000	1	190	10	-	-	-	-
	Y	1000	1	-	-	-	-	220	15
	Z	1100	1	-	-	-	-	-	-
9	X	950	1	170	10	-	-	-	-
	Y	950	1	-	-	-	-	200	15
	Z	1050	1	-	-	-	-	-	-

**Speed Mode:** When auto adjust G-Sensor to vehicle speed is checked, G-Sensor threshold will increase to levels specified in the right table when the vehicle reaches 20 KMH. The threshold will go back to settings in the left table when vehicle goes below 10 KMH.

Auto adjust G-Sensor to Vehicle speed

## CRX Hardware



- |                                 |                                |
|---------------------------------|--------------------------------|
| 1. Power Connector.             | 7. AV in (1~4) Connector.      |
| 2. Car Signal Connector.        | 8. AV in (5~8) Connector.      |
| 3. Serial Ports.                | 9. USB Connector.              |
| 4. Main Power Switch.           | 10. Ethernet Connector.        |
| 5. Power Output.                | 11. GPS Connector.             |
| 6. Digital IO/AV out Connector. | 12. Power On Delay Dip Switch. |



Installation guide can be downloaded at <http://install.smartops.com>



Alarm I/O Trigger Harness and A/V Output for connecting an LCD monitor





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