

Device Configuration Guide





KP1S Setup and Configuration

- 1. Download the KP1S configuration tool by <u>clicking here</u>
- 2. Launch the configuration tool then
 - 1. Click 'Initialize SD Card'
 - 2. Select the SD card from File Explorer
 - 3. Allow the card to initialize
- 3. Select 'Open' before selecting the SD card from File Explorer (the SD card will now be renamed 'HDREC2')
- 4. You can now set your desired device settings.

*SD cards can also be removed from the camera to review video and data. For this, the SmartWitness PC viewer software is required which you can download here





Installation guide can be downloaded here



Configuration Settings **Device Tab** Device Record Event Info. Connectivity Server Smart G-Sensor Sensitivity Camera Cam Title O Pre-set Camera Main Camera CAM1 Enable main and secondary camera. Sensitivity (1) 2nd Camera CAM2 2nd Camera Type NTSC X-Axis (Front - Rea *G-Sensor Sensitivity 750 Y-Axis (Left - Right) Select from 'Preset' settings or 'Custom'. Source Camera (GPS) **G-Sensor Sensitivity Settings. X**=Front/Rear Custom **Y**=Left/Right Power Connection **Z**= Up/Down High Impact Х KP1-INT1-S Type **Hz**= the amount of times in a row 950 mG (0~4000) (1) 950 Delayed Power Shutdown the G-Sensor level must be 0 Hours Hz (1~20) (1) 3 3 exceeded before trigger 15 Min Harsh Accel/Brake **Ecall** is a severe impact G-Sensor Х which can be configured to send mG (0~4000) 450 emergency notifications Hz (1~20) 10 Sound separately from lower level shock Audible Camera Chime SD Error Only events. Harsh Turn 350 **Sound -** Audible Camera Chime: turn audible alert mG (0~4000) @ eCall Trigger on or off (audible alarms can be individually 15 3500 Hz (1~20) X Value mG (2000~4000) turned on/off per event). 3500 Y Value mG (2000~4000) *Check this box to reduce false Auto adjust G-Sensor to Vehicle speed (1) 3500 Z Value mG (2000~4000) triggers at higher driving speeds Turn Z Axis on When this box is checked, only harsh G-sensor events will be recorded/transmitted. Trigger high impact events only 🚯

Hover over **p** icons to show more information

Settings



If left unchecked, then hard brake, turn, and acceleration events will also record/transmit

About

Initialize SD Card

2000

10

Eject SD Card

Save

Open

Record Tab

Resolution: chose from 720p, VGA, or QVGA Frame Rate: Choose from 30*, 15, 10, 5, 4, 3, 2, or 1 *30FPS not available when using 2 cameras Quality: Standard, High, or Super. (The lower the quality, the more compressed/lossy the video output).

Record Modes

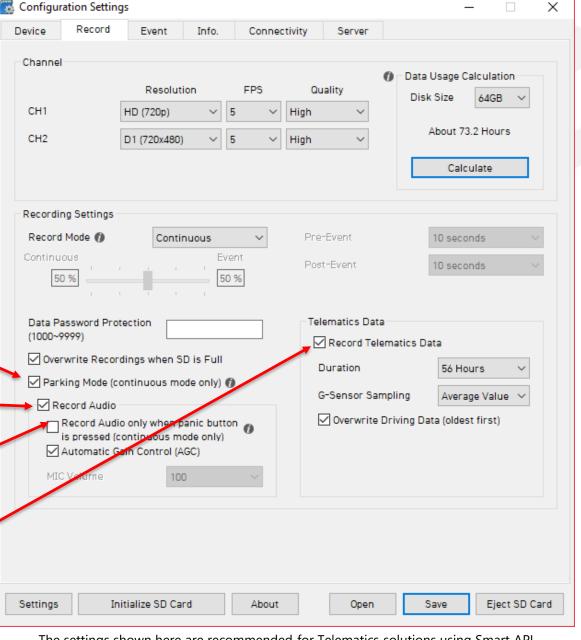
Event: Only events are recorded, event video duration determined by the pre & post event setting **Continuous**: Records video continuously, no events **Dual Mode**: Records continuous at 1FPS + events at the specified FPS (when using two SD cards, continuous records to SD1 and events to SD2. If using 1 SD card, use the % slider to allocate the storage accordingly.

Parking Mode: recording drops to 1 FPS when the vehicle is idle for 5 minutes (continuous mode only)

Audio recording can be turned on or off here

If this box is checked, then audio recording will be off always, unless the panic button is press. If the panic button is pressed, audio will be recorded on the video for 2 minutes.

Driving data is recorded and stored separately from video and events. Set the local storage retention here. Average Value sampling is recommended



The settings shown here are recommended for Telematics solutions using Smart API



Event Tab

The Event tab will allow you to specify which events will trigger a recording (Event record mode or Dual record mode only).

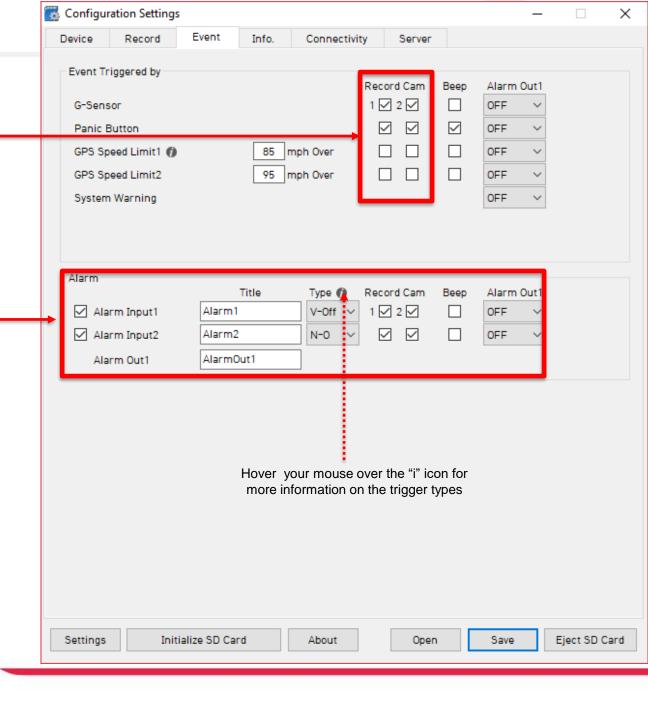
Check the boxes next to each evet you want triggered. The left column controls the road facing camera, the 2nd column controls the ch2 camera.

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

If using the optional alarm input triggers (Green and Orange wires on the INT1S power adaptor), then you need to check the box(es) 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)

Alarm Out, if selected, will send a 5V output from the Yellow wire to a 3rd party device for the duration selected in the dropdown.





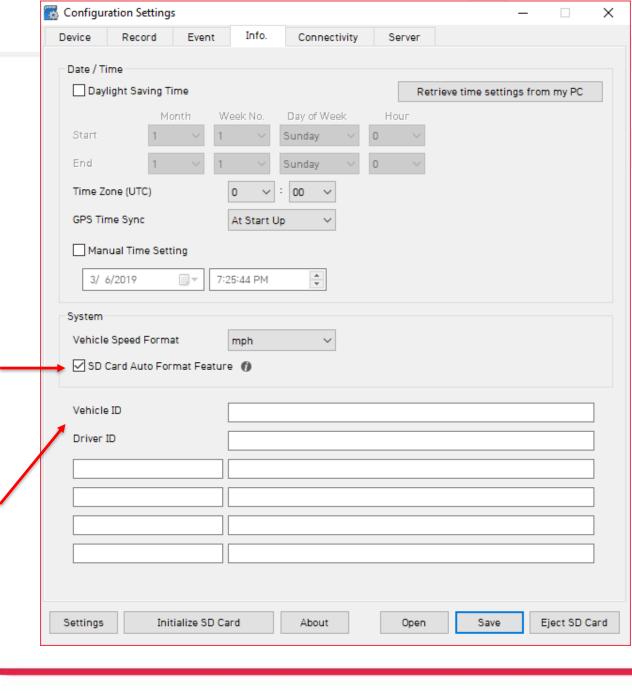
Info Tab

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

SD Card auto format feature enables the KP1/KP1S 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 AVI converted video using the PC software.





Connectivity Tab

When using KP1S as a connected device, "Enable" the connectivity here

"Server" should be selected as the service type

Add Mobile Network provider details here

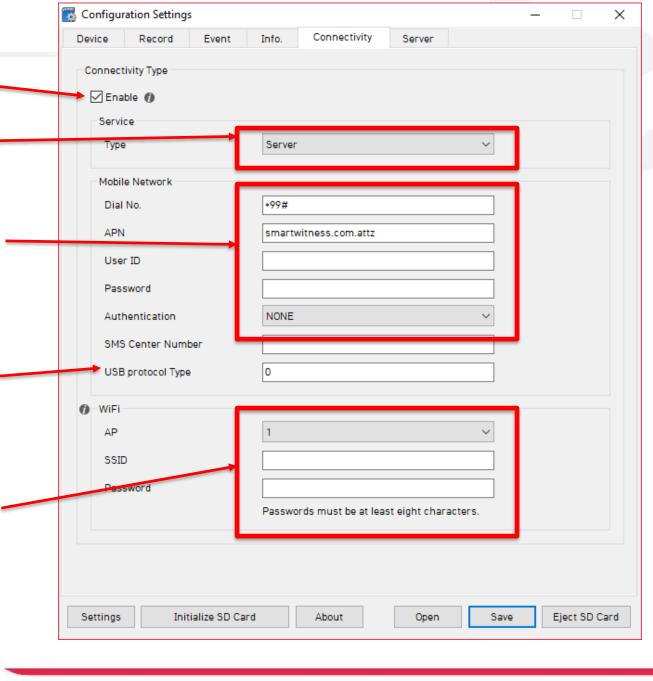
If using SmartWitness SIM (AT&T), the APN should be as shown

If using Huawei USB modem, set your APN accordingly and select "USB Protocol 2". All other modems, leave as "0"

With WiFi USB modem accessory from SmartWitness, you can connect to 802.11 b/g/n network in place of cellular network (cannot use both WiFi + cellular together)

Please make sure that your SSID is not hidden and is not an open network.

You can add up to 10 SSID password pairs for different locations/branches.





Server Tab

SmartWitness 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 KP1S to server. Livetrack2 contains GPS coordinates. LiveTrack3 does not.

Transmit Event Data: Check to enable KP1S posting event notification and images to the server "Include G-Sensor data" option will upload 100hz G-Sensor data along with the event and images.

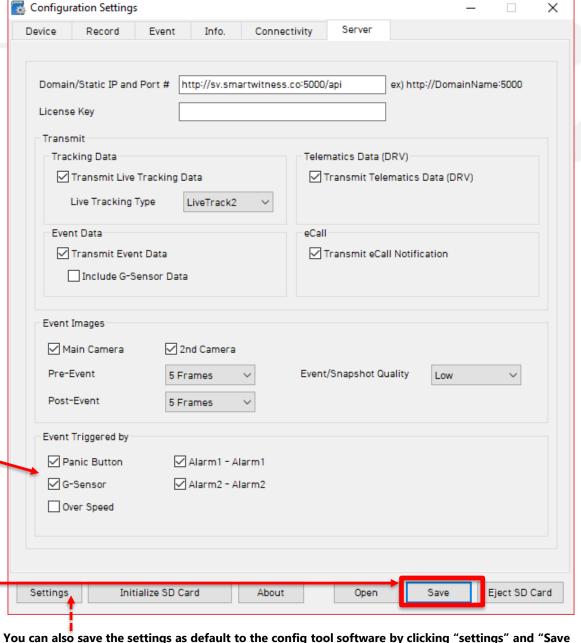
Transmit Telematics Data: Check to enable KP1S to send DRV data (static/compressed file containing drive data from every second the vehicle is in operation

NOTE: the frequency setting of the LiveTrack and DRV posting is controlled by the server.

Select the events here which the KP1S will transmit to the server in real-time. These events will transmit instantly even if KP1S is set as "Continuous" record mode

Click 'Save' and select the "HDREC2" 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 KP1S and power on. Or you can copy the contents of the setting.ini text file and copy to the Smart API workstation



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



G-Sensor Threshold Table

Low Speed Table

_	Axis	Severe		Front Rear		Left Right	
Level		(impact)		(accel/brake)		(turning)	
		G-level	Hz	G-level	Hz	G-level	Hz
1 (Heavy Duty Less Sensitive)	X	950	5	450	8	-	-
	Y	950	8	-	ı	350	15
	Z	1050	11	-	-	-	-
2	X	900	4	420	8	-	-
(Heavy Duty)	Y	900	7	-	-	340	15
	Z	1000	10	-	-	-	-
3	X	850	3	390	8	-	-
(Heavy Duty More Sensitive)	Y	850	6	-	-	320	15
	Z	950	9	-	-	-	-
4 (Medium Duty Less Sensitive)	X	800	5	360	8	-	-
	Y	800	8	-	-	310	15
	Z	900	11	-	-	-	-
5 (Medium Duty)	X	750	4	330	8	-	-
	Y	750	7	-	-	300	20
	Z	850	10	-	-	-	-
6 (Medium Duty More Sensitive)	X	700	3	310	8	-	-
	Y	700	6	-	-	280	20
	Z	800	9	-	-	-	-
7 (Light Duty Less Sensitive)	X	650	5	240	10	-	-
	Y	650	8		-	230	20
	Z	750	11	-	-	-	-
8 (Light Duty)	X	600	4	190	10	-	-
	Y	600	7	-	-	190	15
	Z	700	10	-	1	-	-
9 (Light Duty More Sensitive)	X	550	3	170	10	-	-
	Y	550	6	-	-	170	15
	Z	650	9	-	-	-	-

High Speed Table

Level	Axis	Severe (impact) G-level Hz		Front/ Rear (accel/brake) G-level Hz		Left/Right (turning) G-level Hz	
1 (Heavy Duty Less	X	1250	5	780	10	-	-
	Y	1250	8	-	-	620	15
Sensitive)	Z	1350	11	-	-	-	-
_	X	1200	4	750	10	-	-
2 (Heavy Duty)	Y	1200	7	-	-	610	15
(Heavy Duty)	Z	1300	10	-	-	-	-
3	X	1150	3	720	10	-	-
(Heavy Duty More	Y	1150	6	-	-	580	15
Sensitive)	Z	1250	9	-	-	-	-
4	X	1100	5	690	10	-	-
(Medium Duty Less	Y	1100	8	-	-	570	15
Sensitive)	Z	1200	11	-	-	-	-
5	X	1050	4	660	10	-	-
(Medium	Y	1050	7	-	-	540	20
Duty)	Z	1150	10	-	-	-	-
6	X	1000	3	640	10	-	-
(Medium Duty More	Y	1000	6	-	-	520	20
Sensitive)	Z	1100	9	-	-	-	-
7	X	950	5	570	10	-	-
(Light Duty Less Sensitive)	Y	950	8		-	470	20
	Z	1050	11	-	-	-	-
8 (Light Duty)	X	900	4	490	10	-	-
	Y	900	7	-	-	420	15
	Z	1000	10	-	-	-	1
9 (Light Duty More	X	800	3	470	10	-	-
	Y	800	6	-	-	400	15
Sensitive)	Z	950	9	-	-	-	-

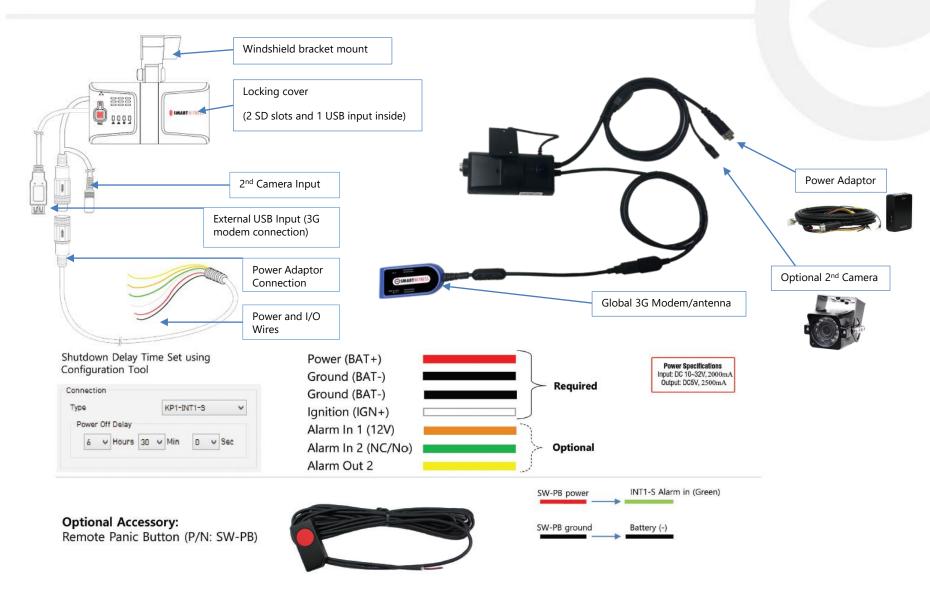
Speed Mode: When auto adjust G-Sensor to vehicle speed is checked, G-Sensor threshold will increase to levels specified in the right table when the vehicle reaches 20 KMh. The threshold will go back to settings in the left table when vehicle goes below 10 KMh.

Trigger High Impact Only: Only the "Severe (impact)" columns will trigger a G-Sensor event when this setting is enabled.

☑ Trigger high impact events only

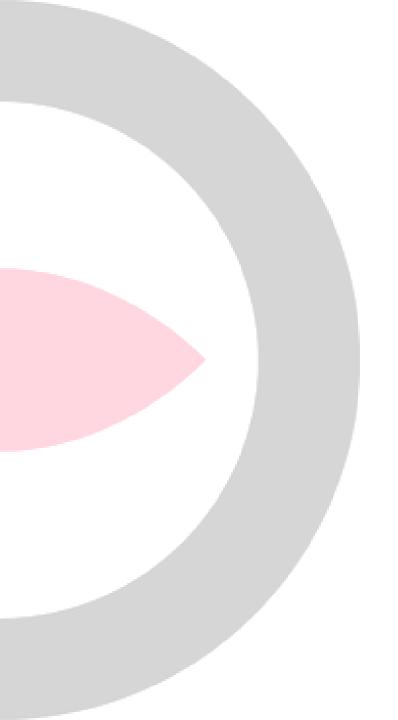


KP1S Hardware



Installation guide can be downloaded at http://install.smartwitness.com





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