Sensata Technologies | SMARTWITNESS

AP1 FAQs

1. What does ADAS stand for?
ADAS stands for Advanced Driver Assistance Systems. ADAS is made up of electronic systems that assist drivers in the safe operation of their vehicles.

2. What circumstances trigger a speeding warning?
A speeding warning is triggered anytime the vehicle exceeds a configurable speed threshold. A threshold is set using the AP1 configuration app or the configuration tool.

3. What is FCW?
FCW stands for Forward Collision Warning, which is triggered when your vehicle is likely to collide with another object in front of the vehicle (when traveling at faster speed).

4. What is HMW?
HMW stands for Headway Monitoring Warning, which is triggered when you are not maintaining a safe distance to the vehicle ahead of you. Otherwise known as "tailgating."

5. What is LDW?
LDW stands for Lane Departure Warning, which is triggered when the vehicle crosses a solid lane line while traveling at or above the minimum speed.

6. Does the device alert the driver when an ADAS event occurs?
Yes. Users can choose between in-cabin audible chimes or natural language alerts. Alerts can be silenced. The associated chimes and voice alerts are configurable in the AP1 Mobile App.

7. Are the audible notifications the same for each event or different?
There's a unique chime or phrase associated with each ADAS function.

8. Do I need to do anything different to access the new ADAS event types from SmartAPI?
Possibly. It depends on how you did the integration initially with SmartAPI. AP1, with ADAS events enabled, will provide three new event types: FCW, HMW and LDW. Once the ADAS events are enabled for your tenant in SmartAPI, your "listener" app will receive a callback and the payload will indicate the new event type in the "MoreInfo" area.

You may need to account for the new event types inside your application. For example, if you're re-hosting the callbacks into your own database, change your database to allow tracking of the new event type(s).

9. Is the product self-installable?
Yes. AP1 was purpose-built as a self-installable product. The AP1 Quick Start Installation Guide and installation video on the AP1 Setup | SmartWitness page will help you.

10. Can I do a hard install if desired?
There are installation alternatives to OBDII, however it is the recommendation of our technical experts that you perform a self-installation as instructed with the provided OBDII cable.

11. Do I need to do any calibration or setup to use ADAS features?
Yes. You can find instructions for the Guided Setup in the AP1 Quick Start Installation Guide. Steps for the Advanced Setup are featured in the AP1 User Guide.

12. What is the field of view of the camera?
The AP1 has a 128° field of view.

13. Can I connect a driver-facing camera to the AP1?
No.

14. Can I connect the AP1 to a CP4S?
No.

15. What is A-GPS, and how does it work?
Assisted GPS (A-GPS) will automatically engage if a satellite GPS signal cannot be fixed with a minimum of three satellites. GPS data is drawn from local cell towers to enhance the data from the device's GPS receiver. This is especially beneficial when the GPS receiver is in a location that is not in "line of sight" of a satellite (e.g., surrounded by tall buildings, bad weather conditions). AP1 records the location data source, so customers are aware if the location is from A-GPS or GPS satellites.

16. If out of coverage, will the AP1 "store and forward" once it's back in cell coverage?
Yes.

17. Can the device be updated over the air (OTA)?
Yes. All our devices, including the AP1, can be updated over the air.

18. What is the maximum storage size of the microSD card? Can I upgrade to a larger size?
The AP1 supports up to a 128GB microSD card. Currently, the AP1 ships with a 64GB microSD card.

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19. Can the device record audio as well as video?
Yes. You can enable this option in the AP1 app under "Record."

20. What is EMS?
The engine management system (EMS) consists of a wide range of electronic and electrical components such as sensors, relays, actuators and an engine control unit. The components work together to provide the EMS with vital data parameters.

21. What is ECU?
An engine control unit (ECU), also commonly called an engine control module (ECM), is used in today's cars and trucks to control the engine and other components' functions. An ECU is a computer with internal preprogrammed and programmable computer chips that is not much different from a home computer or laptop. The vehicle's ECU operates the engine by using input sensors and output components to control all engine functions.

22. What is PID?
A parameter ID (PID) is a code used to interpret data from a vehicle.

23. Can the device read EMS data? If so, which ones?
Yes. AP1 will read power, ignition, speed, rpm and more. Additional data points will coincide with future firmware releases. Contact your integration team for the most up-to-date information.

Please note: Which PIDs come through is highly dependent on the manufacturer of the vehicle.

24. Will the device work with SmartView?
Yes. All our devices, including the AP1, will work with SmartView.

25. Does the AP1 work with *AIDE*?
Yes. Artificial Intelligence Driving Events (*AIDE*) on the AP1 leverages industry-best SmartAnalytics technology, taking into account a wider range of situational context to filter out and reduce false positives by as much as tenfold.

26. Can I transfer the AP1 to another vehicle?
Yes. Because the AP1 is a self-installable product, it is fairly easy to remove from one vehicle and install into another. Please ensure you can accommodate device moves from one vehicle to another in your web application and the SmartWitness SmartAPI cloud application.

27. Can I see events/recordings/notifications on the AP1 Mobile App?
The AP1 Mobile App is currently for calibration/configuration only. AP1 Viewer is now on the iOS App Store and Google Play Store. Download and play video directly from a Wi-Fi connected AP1 camera.

28. What is the video quality?
The video quality is up to 1080p at 15FPS.

29. If the device alerts me, how do I know which event is occurring?
You can preview, choose and set up a chime or voice notification for each event type in the app.

30. How much video can be stored on the microSD card before it is overwritten?
At 1080p, 15FPS and the 64GB microSD card included with AP1, the storage capacity is approximately 52 hours. The SD Card Storage Calculator can help you determine capacity.

31. How do I download the AP1 app?
Visit the iOS App Store or Google Play Store and search for "SmartWitness AP1," or visit the AP1 Setup page for links to download the app.

32. What's the use case for the AP1?
The use case is a commercial vehicle that requires a road-facing, commercial-grade, low-cost, self-installable, connected dash camera that provides telematics data and the most critical ADAS functionality.

33. Is there a price option to use the camera without ADAS — as only a forward-facing camera — so we can start using the AP1 now and upsell ADAS in the future?
The price for the camera is the same with or without ADAS capabilities. If fleet admins purchase the AP1 without ADAS and decide to upgrade later, there's no additional cost to the TSP, which provides partners an additional source of revenue if desired.

34. On what carriers is the AP1 certified? Will it work on others?
The AP1 is certified on AT&T and will also work on T-Mobile.

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35. Does the AP1 support JBUS applications, or is it OBD only?

At launch, the AP1 supported only OBDII. J1939 plug & play functionality is supported in the AP1 1.2.1 firmware release, pending adapter cable availability. Please note that release time frames are subject to change. Contact your integration team for the most up-to-date information.

36. Does the AP1 need to get data from the OBD/JBUS for ADAS functions to work?

If the AP1 is unable to receive data from the OBDII or JBUS, the AP1 device will default to GPS for speed data. The potential data latency could be problematic in the event of a driver warning. Using the AP1 when there is no OBDII or JBUS data *and* the driver is dependent on audible ADAS event warnings from the device is not recommended.

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