

SYSNAV TRACKING 3G

Next-gen tracking with or without GPS

Advanced car-tracking system offering real-time and data logger capabilities for sensitive actions, with the ability to operate at any time, even in case of GPS loss.



The high performance Sysnav beacon
to track at any time, even without GPS or in case of jamming.
An unprecedented concentration of technology for critical missions.

This is the first tracking system offering the groundbreaking capability to follow a vehicle trajectory in GPS-denied (and radio-denied) environments, thanks to the Sysnav SPS technology (Sysnav Positioning System, backed by 10 patents).

It allows to tackle the ever going and frequent risk of GPS-countermeasures. In particular , it detects jamming and is insensitive to it - without the use of any radio infrastructure. Sysnav **Tracking 3G** allows you to operate in covert area without GPS, or in critical and infrastructure-free environments. It immediately acquires the location information even in dense urban areas.

It also includes several features like an optimized energy consumption mode through the Sysnav Smart Power, based on Sysnav enhanced motion detection. Closely focused on the needs of specialized units, it also offers many possibilities for detection and alerts.

SYSNAV **Tracking 3G** has been designed to plug & play easily onto the main platforms.



MISSIONS

- Intelligence
- Intervention
- Protection

UNITS

- Special Forces
- Intelligence
- Police
- Security

APPLICATIONS

- Critical intelligence gathering.
- Terrorist activities.
- Organized crime.
- Trafficking, smuggling.
- Border surveillance.
- Urban security and major events.
- Staff, VIP and high value assets protection.
- Special ops.

SYSNAV BENEFITS IN A NUTSHELL

- Sysnav localization at all time: jamming situation, covert zones, infrastructure-free area, etc. Error of less than 1% of the travelled distance without GPS.
- Immediate information (no time needed to acquire satellites in view).
- Sysnav **Tracking 3G** also works in case of deep integration into the vehicle.
- Reliable information : insensitive to signal degradation, radio and GPS decoy and spoofing.
- Various beacon modes according to the type of mission (intervention, intelligence gathering, etc).
- Sysnav Smart Power: the Sysnav optimized energy consumption mode based on an enhanced vehicle kinetics analysis.
- Resistant to moisture, water sprays, shocks and heat.
- Up to 3 months autonomy - and more according to the vehicle motion.
- In-house advanced data encryption.
- Simple handling for complex actions.

ENVIRONNEMENTS

- Risk of countermeasures.
- Multiple geographic areas : dense/urban, rural, desert.
- Areas with a risk of infrastructure-free zones.
- Conflict zones.

FUNCTIONALITIES

- Set in motion by a special pin with immediate feedback to user.
- Various modes of location transmission:
 - tracking for 'intervention' (with customizable features).
 - smart tracking: automatic transmission of relevant location points according to the vehicle kinetics.
 - undetectable stealth mode, with customizable data download.
- Multiple alerts:
 - jamming detection.
 - loss of GSM network.
 - beacon removal.
 - geofencing for zone entry and exit (multiple customizable zones).
 - preset or technical alerts : low battery, motion, I/O triggering, temperature etc, through sms/email to one or several users.
- Simple and remote beacon (re)configuration.
- Input/output to use new data/options and triggers.
- Easy plug & play with major existing platforms.

TECHNOLOGY

- Sysnav SPS magneto-inertial technology developed for defence applications
- Adapted real-time fusion from GPS and Sysnav technologies.
- Consistency tests to ensure the information integrity.
- Insensitive to orientation inside the vehicle.
- Proprietary technology backed by more than 10 patents.

SPECIFICATIONS / HARDWARE

- Data transmission via SMS and 3G data.
(GSM/GPRS/UMTS/HSPA) worldwide. Iridium (on request).
- Highly sensitive GPS, up to 72 canals, -167dBm in tracking mode.
- Alimentation : 6 to 40V.
- Internal battery : 3/4 weeks autonomy with the standard mode
- and more according to the vehicle kinetics.
3 months autonomy and more with the external battery (see options).
- Internal battery with integrated charger allowing automatic reload with external battery.
- Internal memory: 8Mo.
- Temperatures : - 25°C/+ 55°C (-13°F / 131°F).
- Thermoformed sheath (IP67 rated housing on request, see options).
- Quick mounting on the vehicle.
- Operated by Sysnav web-interface (smartphone Android/iOS).
- easy plug & play onto major existing platforms.
- GPIO : input/output for triggering and actions on/from the vehicle.

DIMENSIONS

Unprecedented small size for this military technology:

- OEM dimensions : 9x135x35 mm.
- Housing dimensions : 38x136x37 mm.
- Weight: 320 g.

OPTIONS

- Iridium satellites communication on request.
- External battery pack - autonomy up to 3 months and more.
- Special battery pack for high temperatures.
- Supplementary input or output for new functionalities.
- On request:
 - OEM discreet version.
 - ruggedized black version, IP67 rated ABS plastic housing.



AND EVEN MORE WITH THE SYSNAB LAB

- Sysnav Lab technical assistance in case of emergency.
- Technological upgrade and benefits of ongoing research.
- Specific communication protocol integration on request.
Quick adaptation to existing platforms and web-service .
- End-to-end support on new application design or integration.
- 2 years warranty and maintenance.
- Firmware remote update.
- Sysnav Lab tailor-made developments to your needs.

DELIVERY CONTENT

- Sysnav Tracking 3G beacon
- Transportation box
- Integrated Li-Ion battery
- Battery charger

In addition

- User-guide manual
- Quick start video.