KYLOS Family

Portable Tracking Solution
for Locating Merchandise, Assets, People and Pets

Kylos

"the First Ruler of the Universe "
according to early Greek mythology

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The tracking device is available in four different models to perfectly meet different usage requirements:

1. Kylos

With a longer battery life, this device is suitable for longer periods of time, making it ideal for monitoring your commercial goods traveling long routes an ideal solution for tracking and monitoring your commercial goods whether they are being stored in a warehouse or traveling long routes.

Application examples:

Merchandise: Built-in light sensor will raise an alert if your carton carrying high-end merchandise is being broken into, reducing the risk of your business falling victim to a security breach. Built-in temperature sensor will proactively identify and react to a deviation from a pre-set temperature range, lessening the risk of delivering spoiled goods or medical supplies.

Assets: Built-in accelerometer will raise an alert if your parked bicycle is being moved, thus enabling you to always know if and when your personal valuables are being tampered with.

2. Kylos Compact

An ideal solution for tracking and tracing your priceless assets and for keeping you informed about the whereabouts of your family members and pets. With an integration of cellular communication abilities, GPS technology and innovative built-in sensors, Kylos Compact will display real time location and status information, delivering the utmost reliable and accurate data for your business and personal tracking needs.

The device itself, which can fit in the palm of your hand, can be attached to assets and worn by people or pets. It can be hidden in almost any item you have chosen to protect, making it totally adaptable to an extensive range of applications and applied to a diverse range of situations.

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Assets: Built-in accelerometer will raise an alert if your parked bicycle is being moved, thus enabling you to always know if and when your personal valuables are being tampered with.

People: Built-in accelerometer will raise an alert if your elderly parent falls and injures themselves, making it possible and convenient for you to take care of your aging relative from a distance. Built-in Panic Button will raise an alert to a pre-set number. For instance in a situation where a child is in distress, pressing the panic button would summon an emergency response from a parent and display location.

Pets: Geo-fencing capability will raise an alert if your pet wanders into or leaves a specific zone area that has been pre-set as safe or unsafe.

3. Kylos Forever

If you need a long lasting device to watch over your assets or equipment placed in remote areas for months at a time, if you need a "once-a-day" notification to ensure that your equipment is operating securely, we have the right asset tracking device for you. Kylos Forever will watch over your assets or equipment placed in remote areas for months at a time, with its battery that lasts up to 3 years This way, you can keep up with what's going in your most isolated sites, and reduce the risk of having your equipment stolen, lost or possibly forgotten Sure enough, while the device is in sleep mode, it will "wake up" and report in real time any situation which appears to be out of the ordinary or unexpected. Kylos Forever is a standalone unit, capable of operating without the need for any connection or external wiring- this makes it easily hidden if required, for example in a motorcycle.

Application examples:

Merchandise: With “once-a-day” notification you ensure that your equipment is operating securely- Monitor larger items such as dumpsters; Remotely monitor your beehive’s condition. Protect your mobile generators and construction equipment left on site Monitor your vehicle without the need for installation (an alternative to regular AVL systems).
Assets: Built-in accelerometer will raise an alert if your parked bicycle is being moved, thus enabling you to always know if and when your personal valuables are being tampered with.
*Available on units with rechargeable battery only.

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4. Kylos Air

The Monitoring Solution for ensuring Safe Delivery of cargo from Origin to Destination
The Kylos Air provides overall solution for ULD Palettes (standard aerial Unit Load Device) and ULD Containers. The solution offers easy installation and removal, high accuracy sensors and reliable performance. The product is based on SGS's Kylos Forever – a trusted and tested system which provides real time alerts and tracking through SGS's mobile & web applications. In a world of international commerce and growing volumes of valuable Cargo being shipped by air daily, knowing your cargo's exact location is a major advantage. Kylos Air is a sophisticated tracking system, designed for the purpose of monitoring and tracking air cargo.

The system triggers an alert with any irregular event. This includes any change of location, temperature, impacts, or light exposure. You'll receive a real time alert at each point in the shipping process, and know whether the product has left your facility, arrived at the airport or already delivered at its final destination.

The alerts allow you to solve problems in real time and address any issues that could affect the supply chain process. Records of historical sensor conditions and alerts can help investigate any incidents experienced during the cargo's shipping process.

The solution complies with the FAA Regulations: cellular modem is deactivated during take-off, and reactivated automatically upon landing using its internal Barometer and Accelerometer sensors.

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Application examples

Merchandise

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Assets

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People

- Built-in accelerometer will raise an alert if your elderly parent falls and injures themselves, making it possible and convenient for you to take care of your aging relative from a distance.
- Built-in Panic Button will raise an alert to a pre-set number. For instance in a situation where a child is in distress, pressing the panic button would summon an emergency response from a parent and display location.

Pets

- Geo-fencing capability will raise an alert if your pet wanders into or leaves a specific zone area that has been pre-set as safe or unsafe.

By using Kylos Products

You are in control
of almost all possible events and situations with its built-in sensors, automatic, remote operation, system stability and continuity.

You can save
by quickly locating and recovering your lost or stolen item. Since the unit is small and easily concealed from view, you can keep track confidentially while it remains unnoticed. With its embedded GPS system, you can follow the path of your stolen bicycle or merchandise and easily recover your items.

You can rely
on the system to provide essential information in real time so that you can make and execute effective decisions about your business and personal matters instantaneously. You can also be sure that you will be alerted to any irregularities or breaches, so that you can decide when your immediate attention is necessary.

You enjoy the convenience
of a mobile and web based application that operates in 32 languages and includes detailed maps. As the application is mobile and web based, it can easily be accessed from anywhere, and at any time.

You gain flexibility and mobility
due to its autonomic portable system and built-in battery that does not require an external power supply.

You enjoy a user friendly
application that enables defining customized alerts and reports, their destinations and frequencies, in only a few simple steps.

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The portable tracking solution for Guarding the things you Value and Protecting those you Love

- GPS technology for pinpointing precise location
- Real time alerts for notifying of predefined events that have occurred
- Real time reports for providing a history of stored events
- Geo-fence technology for perimeter based alerts
- Built-in light and temperature sensors for monitoring conditions
- Built-in accelerometer for informing about changes in movement or events of impact
- Built-in panic button for summoning emergency responses
- No wiring needed for an easy set up

Imagine yourself in any of these scenarios:

- Your business involves shipping merchandise all around the globe or even just across town, you would certainly need to keep track of your scattered shipments no matter where you are.
- You have left your bicycle parked up on the side of the street, you would certainly wish to know if it has been moved or stolen.
- You are a parent worried about keeping your child safe or are concerned about your wandering dog, you would certainly want to know if they've gone missing.
- When someone you love is old and lives alone, the risk of falling increases, how helpful would it be if you could be alerted to situations that warrant your immediate attention?

That is why, we at SGS distribute Kylos Compact; the portable tracking system which locates and alerts in real time.

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How does Kylos Compact work

With an integration of cellular communication abilities, GPS technology and innovative built-in sensors,
Kylos Compact will display real time location and status information, delivering the utmost in
reliable and accurate data for your business and personal tracking needs.
The device itself, which can fit in the palm of your hand, can be attached to assets and worn by
people or pets. It can be hidden in almost any item you have chosen to protect, making it totally
adaptable to an extensive range of applications and applied to a diverse range of situations.

Conclusion

Small in size but big in innovation!

Application examples:

Merchandise

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By using Kylos Compact

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You can rely on the system to provide essential information in real time so that you can make and execute effective decisions about your business and personal matters instantaneously. You can also be sure that you will be alerted to any irregularities or breaches, so that you can decide when your immediate attention is necessary.

You enjoy the convenience of a mobile and web based application that operates in 32 languages and includes detailed maps. As the application is mobile and web based, it can easily be accessed from anywhere, and at any time.

You gain flexibility and mobility due to its autonomic portable system and built-in battery that does not require an external power supply.

You enjoy a user friendly application that enables defining customized alerts and reports, their destinations and frequencies, in only a few simple steps.

The tracking device is available in two different models to perfectly meet different usage requirements: Kylos Compact; an ideal solution for tracking and tracing your priceless assets and for keeping you informed about the whereabouts of your family members and pets.

Kylos; with a longer battery life, this device is suitable for longer periods of time, making it ideal for monitoring your commercial goods traveling long routes

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General Specification

		Kylos	Kylos Compact	Kylos Forever/Air
Temperature	Operational Storage	-20°C to +60°C -40°C to +85°C		
Operating Humidity		Up to 90%	Up to 100%	
Measurement		75 x 62 x 31 mm, 75 grams	45 x 33 x 17 mm, 60 grams	165 x 35 x 40 mm, 200 grams
Cellular Communication	GSM/GPRS-default Optional Modems Antenna type Data channels Protocol	Quad Band (850, 900, 1800, 1900) UMTS/HSPA+, CDMA/1xRTT/EV-DO Built-in (concealed) SMS & TCP/IP Propriety – encrypted		
Network	Data	GSM, GPRS and SMS		
Messages	SMS GPRS	Encrypted Protocol TCP/IP over PPP		
GPS	Systems Receiver and Antenna Protocol Positioning accuracy Navigation Update Rate Navigation method Time to First Fix (TTFF)	GPS, GLONASS Internal NMEA (Binary format): 10m CEP (50%) Velocity: 0.2m/s (50%) 1 second (Default) All-In-View solution 2-Satellite solution, A-GPS Hot Start: 2 sec Warm Start: 10 sec Cold Start: 50 sec		
	Antenna	Built in		
CPU Capacity	Static RAM Nonvolatile Memory Flash Memory	128 Kb 34 Kb 2048 Kb		
Sensors Light Temperature Accelerometer Barometer	Accuracy / Sensitivity Accuracy / Range Type / Accuracy Resolution / Range	0.025 LUX / 0 - 104,448 LUX (Sunlight) ±1.0°C / −20°C to +60°C 3 Axis, 0.1g resolution ±1 hPa / 300 – 1100 hPa		
Access Port	Type	TTL (USB cable is available)		

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RoHS

Power Specification

		Kylos	Kylos Compact	Kylos Forever/Air Rechargeble	Kylos Forever Non Rechargeble
Battery	Type Power	Lithium-ion 3.7V, 1800 mAh	Lithium-ion 3.7V, 400 mAh	Lithium-ion 3.7V, 4500 mAh	Lithium Chloride 7.2V, 5000 mAh
Access Port	Type	TTL (USB cable is available)			
Power Consumption	Sleep/Idle GPS only GPRS only GPS and GPRS	0.05 mAh 75 mAh 100 mAh 165 mAh			
Battery Life	Transmissions	Every 10 min. Every 6 hours Every 24 hours	Every 10 min. Every 6 hours Every 24 hours	Every 10 min. Every 6 hours Every 24 hours	Every 24 hours
	Work time	30 hours 45 days 150 days	10 hours 13 days 45 days	60 hours 90 days 300 days	3 years

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RoHS

Key Features

Management

- **Programmable Events:** According to the user's needs and preferences. Fully customizable, the system can trigger email or text message alerts either by a single event (for example: if the merchandise falls, is damaged, or moves in any way), or a combination of events (such as a combination of light and area alert. For example: if the money bags were opened outside the bank's perimeter), without the limitation of choosing from a pre-set list of events.
- **Perimeter based alerts:** Geo-fencing alerts, in case the goods are entering/leaving a specified area at a specified time.
- Automated Tracking: Based on predefined and configurable intervals or parameters, without the need for the user to actively send an additional command.

Goods Protection

- **Accident and Movement:** Built-in accelerometer triggers a wide range of automated notifications for when the goods are moved or damaged in any way.

Communication

- **Cellular Connectivity:** Support for GSM networks (GPRS or optional 3G), while using both the SMS channel and the data channel. Supported bands are 850/900/1800/1900 MHz. Optional support for CDMA and HSDPA networks.
- **TCP Connectivity:** Support for the GPRS/1x TCP/ IP networks by either staying online at all times, or coming online when a transmission is initiated.
- **DNS Support:** Connection to a server by its host name.
- **Backup Server:** Backup host name support in case of main server has gone offline.
- **Encryption:** Protocol encryption to provide maximum security between the unit and the center.
- **Compact Protocol:** Less than 70 bytes per message enables very small bandwidth usage and saves communication costs.

Over-The-Air commands

- **Firmware Upgrade:** Over the air firmware upgrade to apply new features to units already in the field.
- **Tracking:** Option to remotely set periodic transmissions from the unit in intervals between 10 seconds to 5 days.

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Miscellaneous

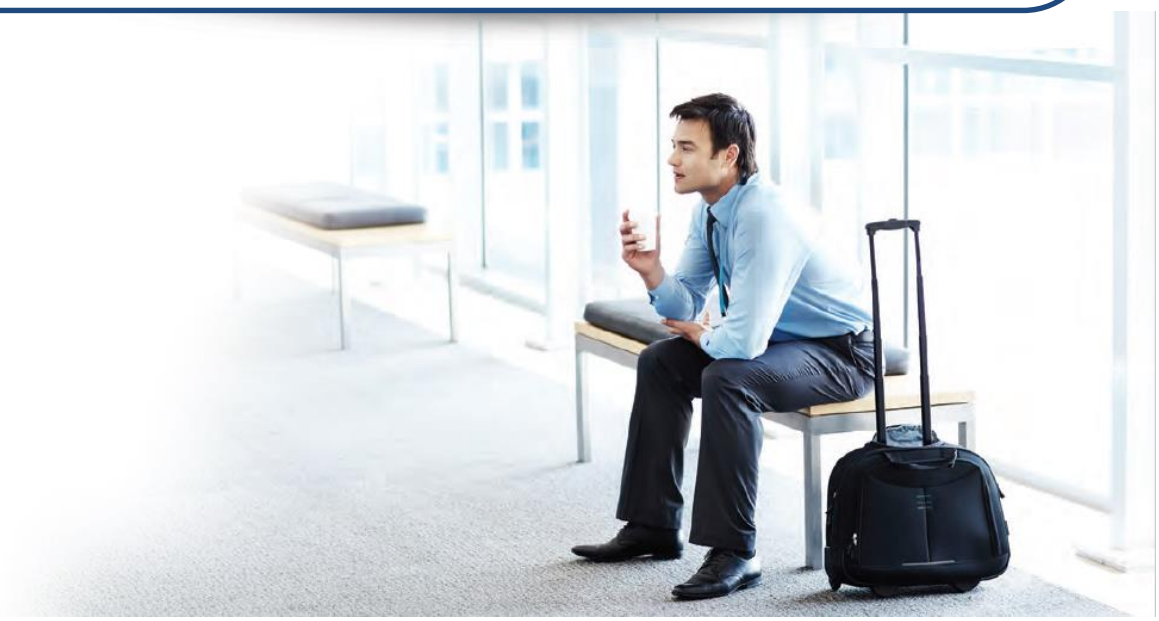
- Internal Logging: Whenever a transmission has failed to be sent, the entire message is saved to the memory for later transmission. Up to 15 thousands complete messages, including statuses, can be recorded this way.

Location

- GPS Receiver: Built-in GPS receiver, allows real-time tracking and on-board location-based analysis.
- Last Location Saving: Saving of the unit's last position, in case of lack of GPS coverage.

Kylos Compact also comes with:

- Values Monitoring: Monitoring of temperature and light conditions.
- Panic Button: Can be activated by the wearer in any emergency situation and will send an alert by SMS/email to a list of pre-set emergency contacts, indicating that immediate attention is needed (Kylos Compact only).
- Waterproof (IP65): A silicon case that gives protection from water and dust contamination is available (Kylos Compact only



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Starcom GPS Global Solutions

Established in 2013 as a global distributor of GPS/GSM/Iridium and Hybrid Tracking, Monitoring and Reporting Systems.

We supply, sell, maintain, rent, lease and monitor both hardware and software systems that included a very large range of tracking systems using GPS/GSM/Iridium and Hybrid technologies.

These systems are designed to protect the complete range of possible asset protection and monitoring scenarios that include security, logistics management, control of fleets of vehicles, train cars, high value and exclusive vehicles, all designs and sizes of land and sea containers, valuables of every size and description as well as people, pets and livestock.

We also specially prepare systems based on the needs of our clients. We do develop bespoke (custom made or designed) systems which combine GPS/GSM Iridium and Hybrid tracking, monitoring and alerting systems with motion detection, light detection, contact detection and allows people to be informed immediately to any modern platform of any changes within any confined space or area anywhere on the worldwide.

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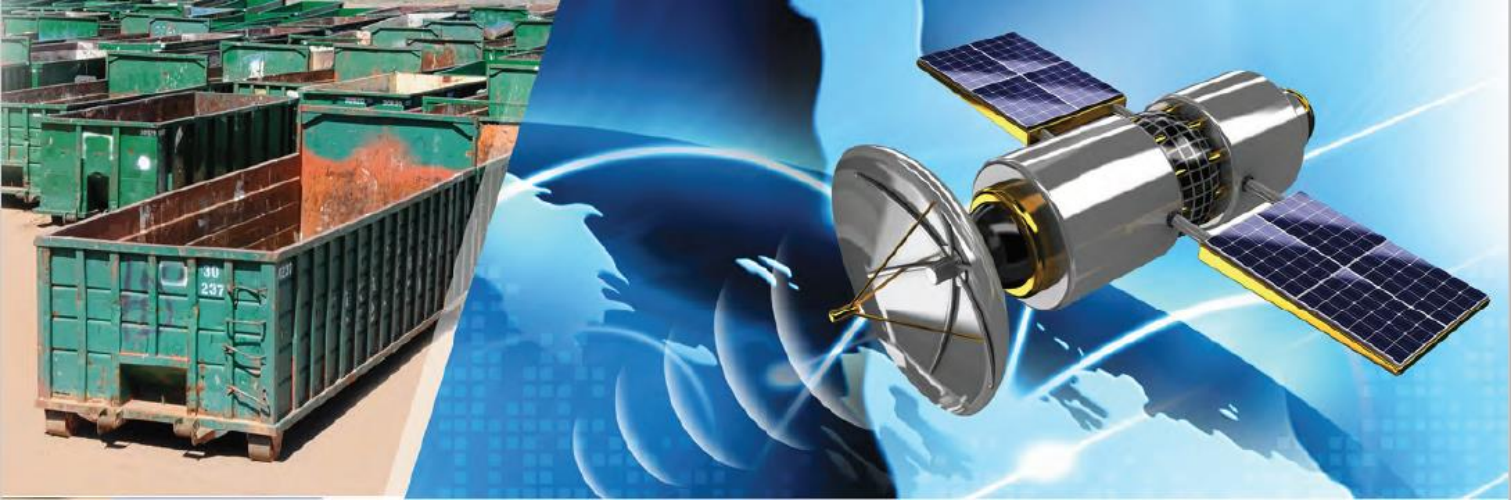

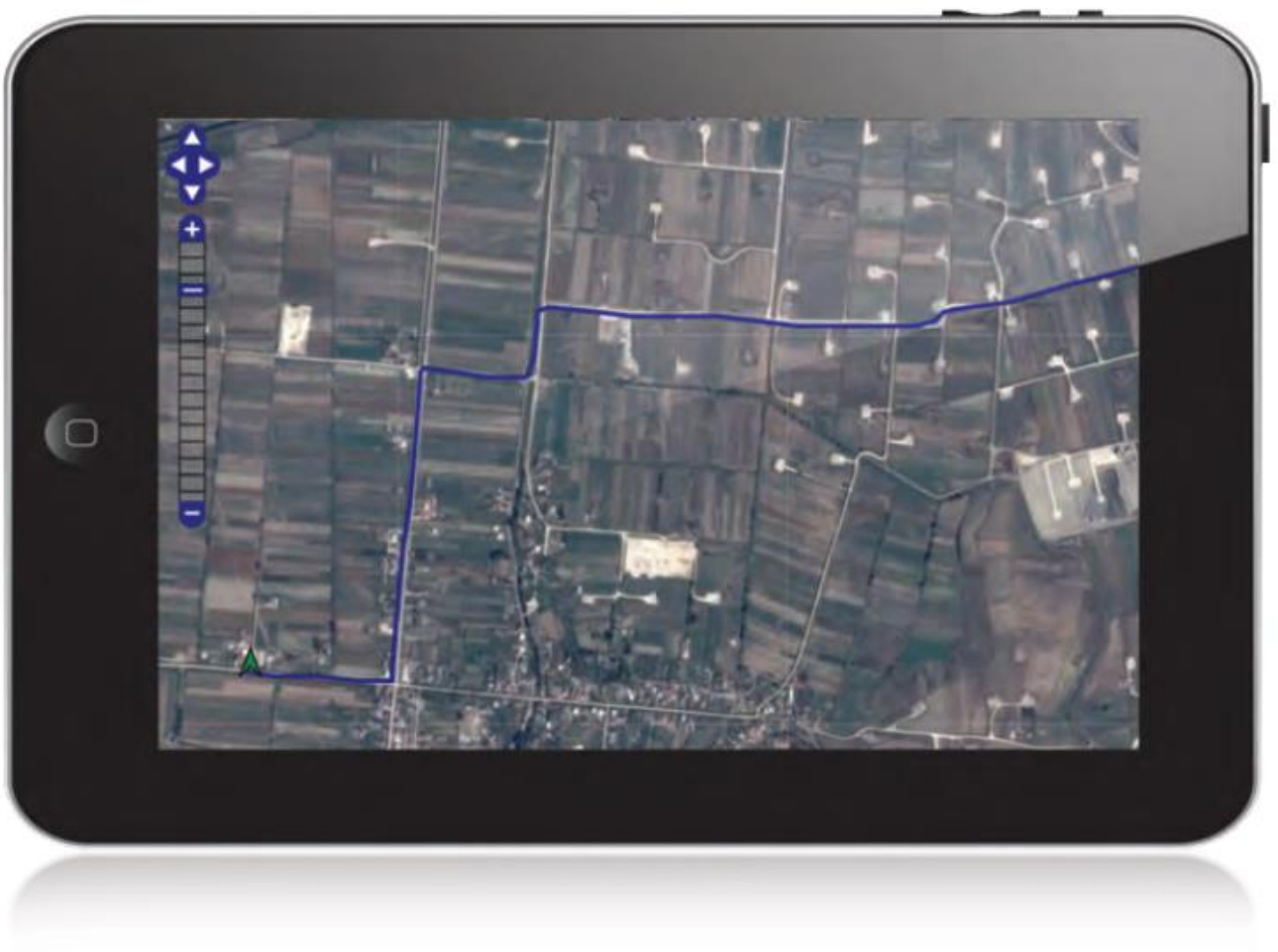

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