SPK-TRK-200 - 3G, GPS&GLONASSROHS

Portable Tracker with SOS Button, Loud Speaker, APP & Web Support



Overview

Every year, there are many senior people, small children go out and lose contact with their families. No matter it's elders with dementia/Alzheimer's or infant children, they are all our beloved family members. Losing any of them from contact is definitely not allowed to happen.

Inspired by intermittent news of people losing contact with their family, SPK-TRK-200 is designed to be a reliable device helping people keep close contact with their family.

People also find this small device an ideal gadget for protection of assets/valuables, vehicles etc.

Keep Close Contact with Parents/Children

Equipped with a rechargeable battery and a convenient SOS button, it's simple and easy for our family members to ask for helps by just pressing the **SOS button**.

Pressing the SOS button triggers up to 3 actions – 1). Make a two-way voice call to preset phone numbers, sending 2). SOS alert/ 3). SMS messages to phones etc. All 3 or only 1, 2 actions could be enabled at your option.

Other family members can also know the location of SPK-TRK-200 or make a phone call to talk to it.

Are your seniors **hearing impaired**? It is built with **loud speaking**. Two-way voice call is now a comfortable experience even for those elders with impaired hearing.

Use Modern Advanced Technologies

To meet the demand of a high performance, reliable tracker it is built with current advanced

technologies.

- 3G fast communications (HSPA+) with high performance antenna.
- In case 3G signal is unavailable, data would be saved and re-transmitted as 3G signal recovers.
- Sensitive GNSS receiver with AGPS capability allows fixing position even in very weak semi-indoor environment.
- In case GPS/GLONASS signal is fully obstructed, serving cellular tower position with accuracy estimate is another position reference.
- 3-axis gravity sensor is used for acceleration monitoring. Active power saving is thus feasible.
- 1430mAh Li-ion battery together with sophisticated power saving algorithm provides long working time.
- Micro-USB and Qi wireless charging option

Smartphone APP Support

- An easy to use and powerful smartphone APP –
 helpYou24 is ready for free download, for both iOS
 and Android devices.
- Enjoy all useful APP functions after scan the tracker's QR-code. Live or history at your fingertips.
- Remember to enable the cloud notification function
 Get informed right away in case an event occurs.

Example Application Scenario - SOS

- A user presses the SOS button. Green and orange
 LEDs blinks to indicate the help request is on-going.
- Family members get phone calls from the user,
 Answer the call to talk to the user.
- APP informs an SOS coming. Check the position of the user. Plan a route to the user etc. Locate the user by compass or augmented reality. ^{3,4}

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LEDs stop blinking as help requests are done.

Example Application Scenario - Calls^{4,5}

- Make a call to the user.
- If the white-list screen function is enabled and your phone number is not in the white list, the call would be discarded. Otherwise, the tracker rings.
- A user answers the call by pressing the SOS button.
- A user hangs up the call by pressing the SOS button again.

Example Application Scenario – Position^{4,5}

- Geo-fence notification informs you that your children/parents left/came home/school etc.
- Each login shows the current location of a tracker.
- Force a location update by awaking the tracker.
- If battery power goes low, one gets a battery low notification.

Example Application Scenario - Groups^{4,5}

- The helpYou24 APP allows creating multiple groups and multiple members/trackers in one group.
- To reorganize groups and their members are easy.
- Switching between members are easy.
- Cloud notification for all members in all groups, one won't miss any critical information.
- There are more functions all aim to help one having one's peace of mind.

Privacy Consideration

SPK-TRK-200 provides different levels of privacy.

- For people with highest privacy demand, SPK-TRK-200 is a pure help requester. Its sub-model name is SPK-TRK-200H.
 - Nobody can check its location or call it.
 - Position checking and phone call are available only when SOS button is pressed.
- For people with medium privacy demand, different modes of sub-model SPK-TRK-200M are provided.
 Phone

Reliable, 3G GPS&GLONASS Portable Tracker

call and position update is available for this model.

- Mode of get position by wakeup only No regular position update, no geo-fence.
- Mode of geo-fence monitoring No regular position update, geo-fence is enabled.
- Mode of live monitoring Regular position update, geo-fence could be enabled or not.
- The APP is password protected.
- Access (phone call etc.) of tracker is also regulated.

Help Lost Family Members Going Home

- When a third-party finds a wanderer,
 - One can press the SOS button to help the wanderer to contact family members.
 - In case there is no power, it could be easily charged via any popular micro-USB port.
 - The contact data of the tracker user is stored in cloud. People with authority (e.g. social workers) could use it to send the user home.
- In addition, we strongly suggest to leave the user's contact data using APP. It could be useful in case the user becomes a wanderer.

Assets/Valuables Protection

- SPK-TRK-200 is designed to be a low-power device. It could be used to protect your assets with very long standby time.
 - It is silent until one moves your asset. It informs you immediately.
 - Reminds you if battery goes low.

Detective/Vehicle Tracking

- Built with sensitive GNSS & 3G module,
 SPK-TRK-200 could be used for live tracking applications.
 - Move alert from static status
 - External power loss alert
 - Call customization: ring, auto-answer, monitor

Features

Watertight

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- Drop-safe
- 10~14 days long standby time^{1,2}
- 1-year standby time for T-200H sub-model
- Built-in charging circuit & rechargeable battery
- Micro-USB and/or Qi-compliant wireless charging
- Battery low notification
- Ultra-sensitive GPS/GLONASS/QZSS with AGPS
- Cell positioning as GNSS is not available
- High speed 3G communication
- SOS (panic) button for emergency help request
- Built-in microphone/speaker for 2-way voice calls
- Hands free loud speaking, good to hearing-impaired
- Secure and private, only authorized people can
 - check the tracker's location
 - call the tracker
- Geo-fence with in/out options
 - Setting is easy click & drag on map
- Regular live position update could be enabled or disabled. If enabled,
 - Default: one report every minute
 - Options from 1 min to 720 min available
 If disabled, update position by wakeup it...
- Latest location query
 - A voice call will trigger a location update.
 - APP can also send a SMS to get the location.
- Data buffering: If there is no cellular coverage, data is stored in local memory. Automatically re-transmit the stored data as cellular coverage is restored.
- Multi-language support English, Japanese,
 Chinese and more

Notes.

- ¹ Fully charged new battery, 25 °C,
- ² Ready for anytime location request (once per day), no regular report, no geo-fence, good GPS and 3G signal.
- ³ G-sensor, magnetometer support required
- ⁴ Smartphone required,
- ⁵ non-T-200H model

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Applications

- Elders, children, social worker, standalone worker
- People exposed to potential dangers
- Assets, valuables, vehicles

Specifications

Dimension (mm)	67 x 49 x 18
I/O	Panic (SOS) button x 1,
	Internet button x 1,
	LED (green, orange) x 2,
	Micro-USB x 1 (charging),
	Micro-SIM x 1,
	Microphone/Speaker (voice call)
Rechargeable Battery	Li-ion, 1430mAh;
Charging Time	2 hours (wireless charging)
	2.5 hours (USB charging, 1.5A)
Standby Time	10~14 days ^{1,2}
Positioning	GPS/GLONASS/QZSS w/ AGPS
	Cell-tower positioning
Cellular	UMTS/HSPA+: Five-band
	800/850/900/1900/2100MHz
	DL 14.4Mbps, UL 5.7Mbps
G-sensor	3-axis, ±2g~±16g
Power Consumption	Deeply hibernate: 42uA
	Hibernate: 170uA
	Sleep: 1.5 ~ 3.4 mA
	Regular working: 40 ~ 170 mA
Watertight	IP54
Weight	77g
Working Temperature	-20℃ ~ 60 ℃

Major Functions

SOS button	Emergency help; a pushing triggers	
	SMS (if enabled)	
	• voice call,	
	 push notification to smartphone 	
Internet button	Force connect to internet	
On-demand report	Get latest location by a voice call	

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Two-way voice call	For emergency communication –	
	Incoming/outgoing calls	
Geo-Fence alert	Circular x 10, IN and/or OUT	
Battery low alert	15% battery power	
Report interval	Time configurable when working in	
	live/regular position report state	
Data buffer size	16,384 records - 273 hours or 11	
	days if data is sent once per minute	
ОТА	Firmware upgrade	
(Over The Air)	Tracker setting/configuration	
Position viewing	App, Web, SMS	
Smart phone	Android, iOS -	
APP support	Setup, live, history, event, etc.	
	Push notification	
	 AR; Augmented reality³ 	
	 Compass searching³ 	
	Navigation	
Login account	1 login account for each tracker	
	QR-code scan login support	
	 Add your own login alias 	
	Add other trackers under your	
	account with their permission	
	No limit on number of trackers	
	Organize trackers in groups	
	No limit on number of groups	
Language	English, Japanese, Chinese etc.	
History	30-day server log	

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Adapter cable - 12/24, 35V tolerable Micro-USB (tracker), open wire (power)	
Wireless Charging Pad Micro-USB interface Qi-compatible	

Package

- SPK-TRK--200 body x 1
- Li-ion Battery x 1: 3.7V, 1430mAh
- Charging cable: USB to micro-USB, length 45cm
- Quick Start Guide
- Wireless Charging Pad (option): Qi-compatible
- *WEB customization support is welcome.
- *The final functions might be different for different customers. Please confirm your spec with our sales.
- *This document is subject to change without notice.

Ordering Information (sub-model list)

Н	High privacy, personal, SOS call only
М	Medium privacy, personal, tracking allowed
Α	Static asset tracking
V	Vehicle tracking

Optional Accessory

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