

## GT-200 - 3G, GPS&GLONASS Portable Tracker with SOS Button, Loud Speaker, APP & Web Support

RoHS  
Compliant



helpYou24  
OpenGTS  
GpsGate

### Applications

- Personal care (GT-200M, GT-200H)
  - Elders, children
  - People exposed to potential dangers, such as social worker, standalone worker
- Anti-theft (GT-200A)
  - Assets (iMAX TV, machines, instruments etc.)
- Fleet Management (GT-200V)

### 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, GT-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

CE 0700

FCC VRQ-GT-200

CCAJ16Z10100T0



R 201-160228

GT-200 or make a phone call to talk to it.

Are your seniors **hearing impaired**? GT-200 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, GT-200 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

### Power extension via USB port

- In addition to the internal battery, it could be externally USB-powered by popular power banks.

- Working time could be multiple times extended easily if external power is connected.

### Smartphone APP Support

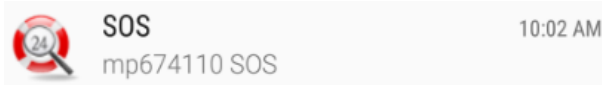
- An easy to use and powerful smartphone APP – **helpYou24** is ready for free download, for both **iOS** (8.1+) and **Android** (3.0+) devices.




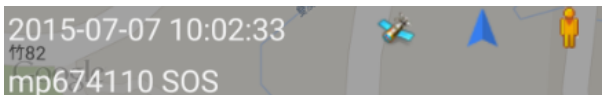
- Enjoy all useful APP functions after scan the tracker's **QR-code**. Live or history at your fingertips.
- Remember to enable the **cloud notification** function - Get informed right away in case an event occurs.

### Example Application Scenario - SOS

- A user presses the SOS button. Green and orange LEDs blink to indicate the help request is on-going.
- Preset phone numbers get phone calls from the user. Answer the call to talk to the user.
- APP informs an SOS coming on the smartphone.



- Tap the notification to see the position of the user. Plan a route to the user by tapping  etc. Locate the user by compass or augmented reality.<sup>3,4</sup>



- LEDs stop blinking as help requests are done.

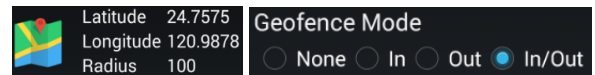
### Example Application Scenario – Calls<sup>4,5</sup>

- 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<sup>4,5</sup>

- Geo-fence notification informs you that your

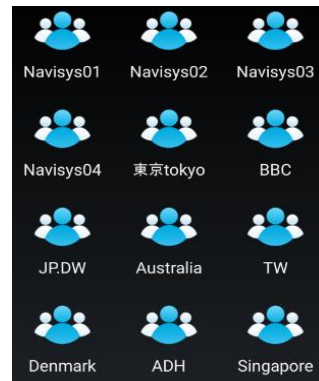
children/parents left/came home/school etc.



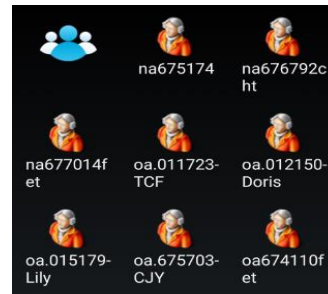
- Each login shows the current location of a tracker.
- Force a location update by awaking the tracker.
- If battery power goes low, one gets a battery low notification.

### Example Application Scenario – Groups<sup>4,5</sup>

- The helpYou24 APP allows creating unlimited number of groups (or fleets)



and unlimited number of members (vehicles) in one group.



- To reorganize groups and their members by simply tapping on icons. More than 100 useful icons are at your choice for different members.
- Cloud notification for all members in all groups, one won't miss any critical information, E.g. 1237 unread alerts in following snapshot.



- There are more functions all aim to help one having one's **peace of mind**.

## Example Application Scenario – Guard<sup>4,6</sup>

- It's inevitable that one has to leave her/his treasured asset (e.g. a car, a bike, motorcycles, etc.) outside. Can one get informed if someone else try to move your asset? Yes, the **Guard** function is the right answer.
- Enable the **Guard** function on smartphone by just a tap on this function before you leave the asset.



- Disable the **Guard** function on smartphone by just a tap on this function before you move it by yourself.

## Privacy Consideration

GT-200 provides different levels of privacy.

- GT-200**H** is for people with highest privacy demand. It's a dedicated help requester.
  - Nobody can check its location or call it.
  - Connect to internet (position could be checked) or accept calls only when Internet button or SOS button is pressed.
- GT-200**M** is for people with medium privacy demand. Phone call and position update is available for this sub-model. Different modes could be used.
  - Mode of getting 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 with GT-200,
  - 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 Anti-Theft Protection

- GT-200A silently saves power until one moves your asset. It informs you immediately by
  - Cloud notification with siren and/or
  - Voice call
- GT-200A is designed to be a very low-power device protecting your assets with very long standby time.
- It also reminds you if battery power goes low.

## Detective/Vehicle Tracking (GT-200V)

- Move alert by cloud notification with siren and/or voice call
- 12/24V adapter cable for vehicle use
- External power loss alert
- Voice communication with driver
- Incoming call option: ring, auto-answer, monitor

## Features

- Watertight
- Drop-safe
- 10~14 days long standby time<sup>1,2</sup>
- 19 hours continuous report once per minute<sup>1</sup>
- 1-year standby time for GT-200H sub-model
- 3-month standby time for GT-200A<sup>1,7</sup> 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.

<sup>1</sup> Fully charged new battery, 25 °C,

<sup>2</sup> Ready for anytime location request (once per day), no regular report, no geo-fence, good GPS and 3G signal.

<sup>3</sup> G-sensor, magnetometer support required

<sup>4</sup> Smartphone required with support of Apple Push Notification Service (iOS) or GCM Service (Android)

<sup>5</sup> non-GT-200H model

<sup>6</sup> GT-200V, GT-200A sub-models only

<sup>7</sup> No moving, no position report during standby, alert immediately then position report as it is moved. Alert if battery power is low during standby.

## 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 <sup>1,2</sup>
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°C ~ 60 °C

## Major Functions

SOS button	Emergency help; a pushing triggers <ul style="list-style-type: none"> <li>● SMS (if enabled)</li> <li>● voice call,</li> <li>● push notification to smartphone</li> </ul>
Internet button	Force connect to internet
On-demand report	Get latest location by a voice call
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
OTA	Firmware upgrade




(Over The Air)	Tracker setting/configuration
Position viewing	App, Web, SMS
Smart phone APP support	Android, iOS - Setup, live, history, event, etc. <ul style="list-style-type: none"> <li>● Push notification</li> <li>● AR; Augmented reality<sup>3</sup></li> <li>● Compass searching<sup>3</sup></li> <li>● Navigation</li> </ul>
Login account	<ul style="list-style-type: none"> <li>● 1 login account for each tracker</li> <li>● QR-code scan login support</li> <li>● Add your own login alias</li> <li>● Add other trackers under your account with their permission</li> <li>● No limit on number of trackers</li> <li>● Organize trackers in groups</li> <li>● No limit on number of groups</li> </ul>
Language	English, Japanese, Chinese etc.
History	30-day server log
Server Support	SDK for Windows/Linux OpenGTS



### Ordering Information (sub-model list)

H	High privacy, personal, SOS call only
M	Medium privacy, personal, tracking allowed
A	Static asset tracking
V	Vehicle tracking

### Optional Accessory

Adapter cable - 12/24, 35V tolerable Micro-USB (tracker), open wire (power)	
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### Certificates

- CE 0700
- FCC VRQ-GT-200
- NCC CCAJ16Z10100T0
- JRF No: 201-160228  
- JPA Contains Certified Module

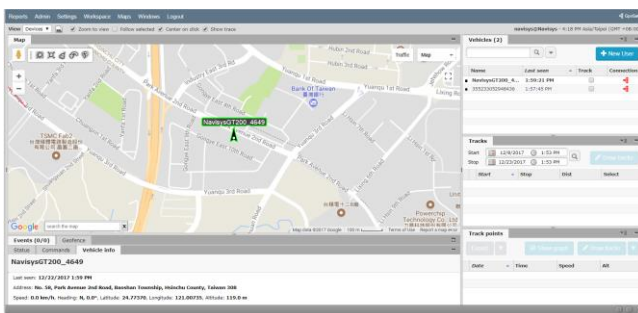
### 3G Module Certificates

- Australia Government, Optus, Telstra, Vodafone
- Brazil Government ANATEL
- Canada Government IC, Rogers, Telus, Bell
- Europe GCF/R&TTE (CE)
- France SFR (Vodafone)
- Germany Vodafone
- Ireland Vodafone
- Israel Government
- Italy Vodafone
- Jamaica Government
- Japan Business Law (JATE), Radio Law (TELEC), NTT Docomo
- Korea (South)
- Mexico COFETEL Government
- Netherland Vodafone
- New Zealand Government, Telecom New Zealand
- Russia Government
- South Africa ICASA Gov., MTN

### OpenGTS Support



### GpsGate Support





- Spain Telefonica, Vodafone
- Trinidad&Tobago Government
- Turkey Government
- UK Vodafone
- USA FCC/IC/PTCRB/UL Gov., AT&T

## Package

- GT-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.