APTOS DESIGN LAB

Gtrackr
GPS & Wireless Locating System
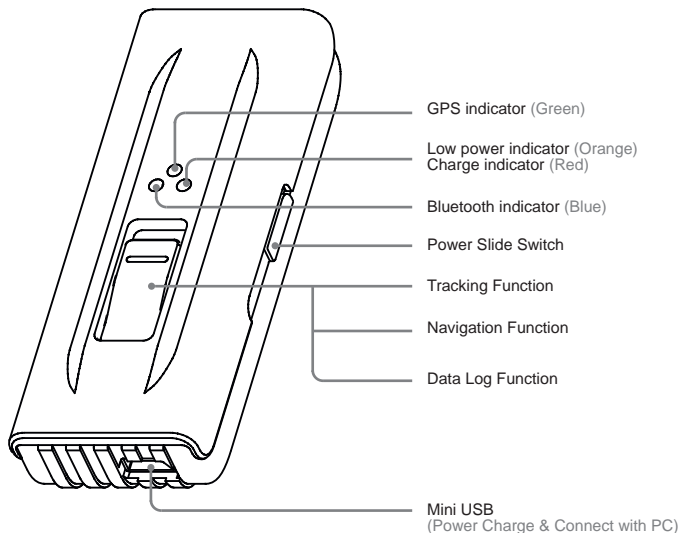ADSG001-0

User Guide

Index

01 Description & Feature

Gtrackr is a data logger device that can store more than 120 hours travelling routes. Through USB port, user can use our application to merge the inside data with his photos for map application. It also can be treated as a small Bluetooth-GPS receiver and combine with handheld devices for easily navigating. Furthermore, Gtrackr utilizes Bluetooth technology to connect with mobile phones for sending SMS messages, GPS longitude And Latitude, to a specific GIS server. Therefore, their relatives and friends can easily know the user's location through web application

- ► Multi–Function with all in one.
- ► Bluetooth GPS Receiver – working with navigation software
- ► Security Tracker – real time tracking on Web-based GIS server
- ► Travel Logger – built-in 64Mb Flash, supporting up to 450000 way points

02 Specification

Frequency	L1, 1575.42MHz
Accuracy	Position 2.5m CEP, Velocity 0.1m/sec, Timing 300ns
Acquisition	Cold start 35 seconds average
Open Sky	Warm start 30 seconds average
	Hot start 1 second average
Sensitivity	-161dBm
LED	Green – GPS status,
	Blue – BT status,
	Red – Charging indicator,
	Orange – Low power (two-step detector)
Operating Temperature	0˚C ~ +45˚C
Storage Temperature	-20˚C ~ +45˚C
Channels	51 Channel for Acquisitions, 14 Channel for Tracking
Power	Built-in 400mAh Li-Poly Rechargeable battery
	8 ~ 10 hours
Bluetooth	Bluetooth V2.0 Class II device
GPS	NMEA-0183 V3.01, GGA,GSA,GSV,RMC,VTG
Dimension	74mm × 26mm × 16mm
Weight	29.7 g with battery

03 Product Overview

GPS indicator (Green)

Low power indicator (Orange)
Charge indicator (Red)

Bluetooth indicator (Blue)

Power Slide Switch

Tracking Function

Navigation Function

Data Log Function

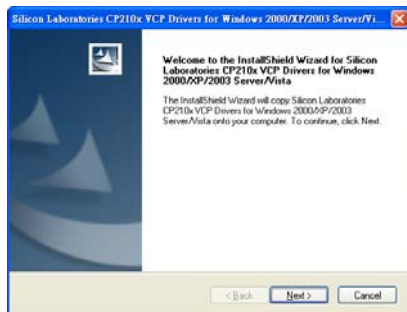Mini USB
(Power Charge & Connect with PC)

04 Getting Started

Driver Install

1. Insert the CD-ROM in your PC

2. The system will pop out the application for install

3. Select **Install USB Driver**

Please follow the steps to complete the setup.

Getting Started

Application Install

1. Insert the CD-ROM in your PC

2. The system will pop out the application for install

3. Select **Install Application**

Please follow the steps to complete the setup.

Getting Started

Bluetooth GPS Receiver for Navigation

1. Slide up the switch to power on the device

2. Slide the function switch to the middle

3. Check GPS status
   GPS indicator is **blinking**
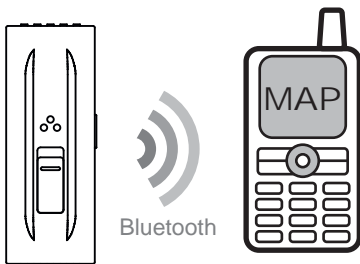   (When Gtrackr 3D fix)

4. Check Bluetooth status
   Bluetooth indicator is **blinking**
   (When Gtrackr link with mobile phone)

Slide to the Middle
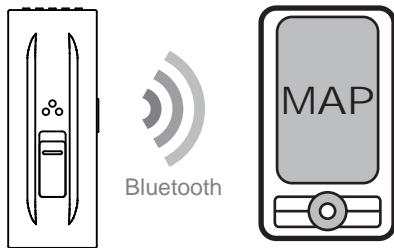
Connect with mobile phone

Bluetooth

1. When Bluetooth of Smart Phone is on, use Smart Phone to search Gtrackr
2. When you press accept the device, you need to input the pin number.

   Pin code : 8888

Getting Started

Connect with Smartphone

Check GPS and Bluetooth status:
1. The GPS & Bluetooth indicator is blinking

2. Gtrackr sends GPS Message for Smart Phone (with Map) to Navigation.
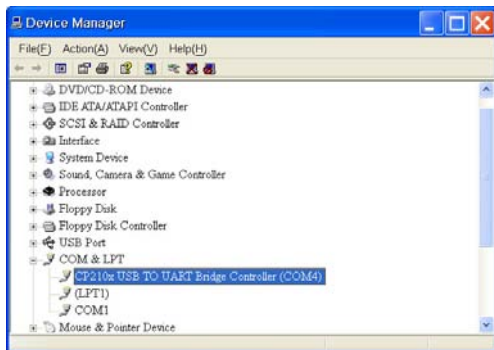
Security Tracker

STEP 1

STEP 2

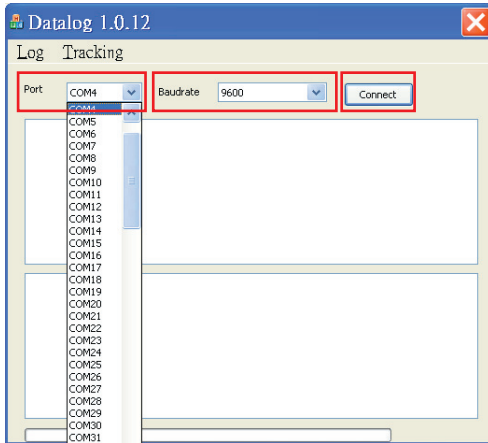Open the power and slide the
function switch to the middle.

Connect with PC by using USB cable

Getting Started

1. Please go to Device Manager to check the **COM number** of CP210x USB TO UART Bridge Controller

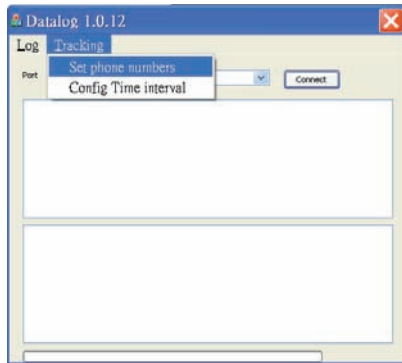2. Go to **Start → All Programs → Aptos → datalog** to open the application

1. Select the same COM number as privious step.

2. Before press Connect button, please make sure the Baudrate is **9600**
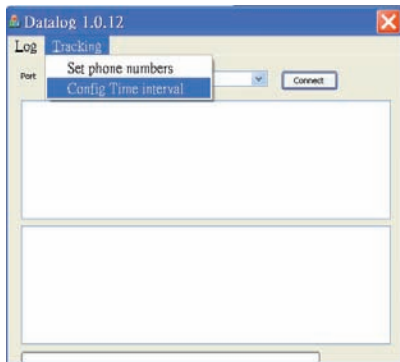
Getting Started

Phone Number Setup

Choose and press the "Set phone numbers" button to setup two cell phone number and then press the "Accept" button.
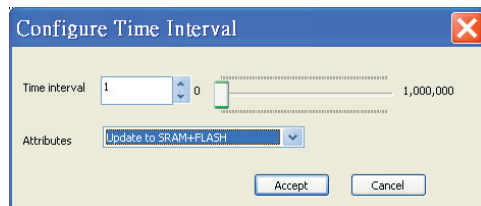

Note: These two phone numbers are for people, parents, who want to track the location of Gtrackr device.

Time Interval Setup

Choose and press the "**Configure Time interval**" button to setup time interval and then press the "Accept" button.

Time Unit: Second

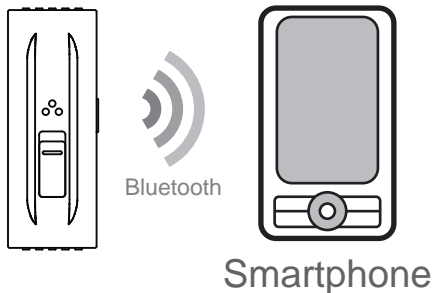## Getting Started

1. Slide up the switch to power on the device

2. Slide the function switch to the top

3. Check GPS status
   GPS indicator is blinking
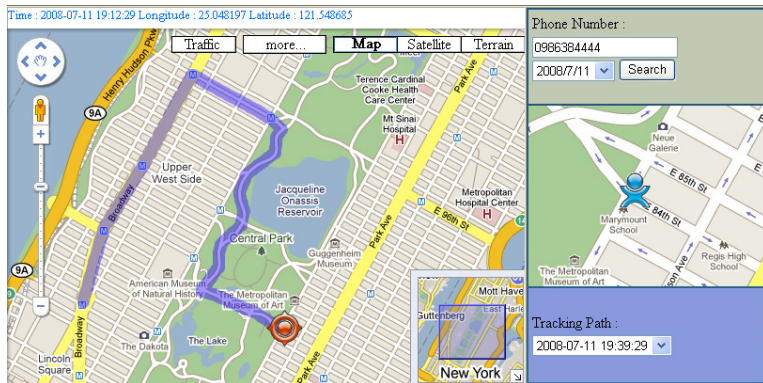   (When Gtrackr 3D fix)

Slide to the Top

Bluetooth

Smartphone

Connect Gtrackr with Smart Phone:

After previous setting and bluetooth Link with mobile phone/smart phone, mobile phone/smart phone sends message every time interval to Web Server and mobile phones of Parents or Friends as the two phone numbers you enter.

Getting Started

4. When the child go outside and bring Gtrackr with his mobile phone, parents can login our web service to check his/her route and location.

Travel Logger

1. Slide up the switch to power on the device

2. Slide the function switch to the bottom

3. Check GPS status
   GPS indicator is blinking
   (When Gtrackr 3D fix)

4. Gtrackr start recording the travel logger itself

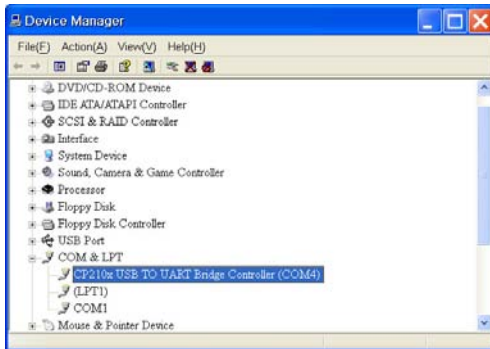Slide to the Bottom

Getting Started

STEP 1

STEP 2

When user finish the trip, open the power and slide the function switch to the middle.
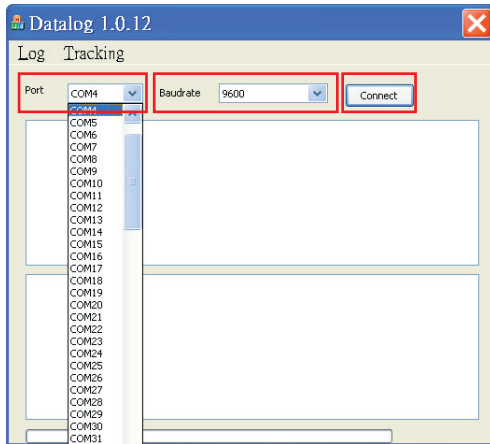
Connect with PC by using USB cable

1. Please go to Device Manager to check the **COM number** of CP210x USB TO UART Bridge Controller

2. Go to **Start → All Programs → Aptos → datalog** to open the application

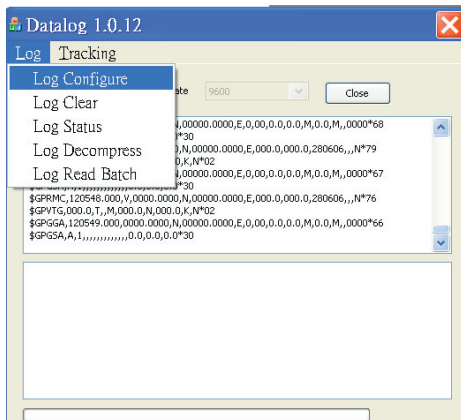## Getting Started

1. Select the same COM number as privious step.

2. Before press Connect button, please make sure the Baudrate is **9600**

Device Setup

Choose and press the "Log Configure" button to setup log interval mintime is for time setup min distance is for distance setup min speed is for maximum speed limit setup and then select the Data log "Enable" and press the "Setting" button.

Getting Started

Download files

1. Click **Log Read Batch** and select a folder that you want to save the Gtrackr's logger data.

2. Click **Log Decompress** and select the file from previous step.

3. The application will convert the file to **KML** format.

4. Use the KML file to show the travel path on Google Earth or Google Map
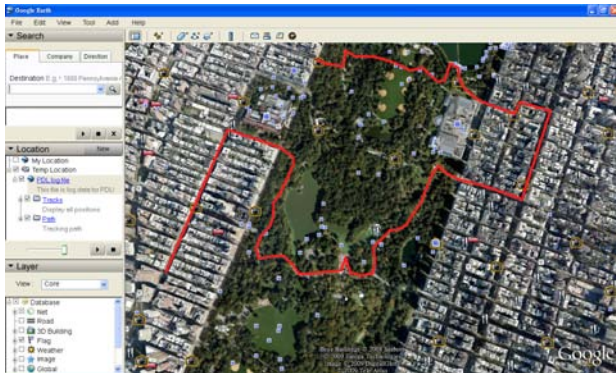
05 Package List

Gtrackr

Stand

CD-ROM

USB Cable

User Manual

06 Safety Precaution

Please follow the safety precautions carefully before you use the product. Make sure that you use the product correctly according to the procedures described in the guide.

1. Never place the product close to equipment generating strong electromagnetic fields.
* Exposure to strong magnetic fields may cause malfunctions.
2. Never plug or unplug the product if your hands are wet, otherwise it will may cause electrical shock.
3. Do not drop the product to the ground to avoid malfunction.
4. Do not attempt to disassemble or alter any part of the product that is not described in this guide.
5. Do not put heavy material on the product.
6. Do not use the product in a wet location.
* In the event that water or other liquids enter the interior, immediately unplug the product from the computer.
* When continuing usage of the product under above situation may cause fire or electric shock.
7. Do not place the product near a heat source or expose them to direct flame or heat.
8. Do not place the product in damp or dusty places.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

● Reorient or relocate the receiving antenna.
● Increase the separation between the equipment and receiver.
● Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
● Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

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