



BT200 BICYCLE GPS TRACKER



Included;

- 1 x Rear red LED light with built-in GPS tracker
 - 1 x Fitting bracket
 - 1 x mains/USB charger
 - This manual
 - Free APP download for your mobile phone or tablet - Android or IOS.
 - Free website access on your computer
- Required;
- Activated sim card (Vodafone ONLY!)

IMPORTANT

Record your IMEI number
(Shown on the tracker label)

Record your trackers SIM
phone number

BT200 GPS TRACKER

Thank you for choosing Mongoose as your GPS tracking provider.

The BT200 is a battery operated GPS tracker for both safety and security. Apart from tracking GPS satellites, it also contains LBS (land based system) for search and rescue assistance and gives approximate location based on mobile phone cell sites. This can be used if, for some reason, there is no satellite GPS reception. LBS will show which cell tower area the tracker is within – not an actual accurate location.

It contains a rechargeable battery with a standby life of up to 14 days. The mobile APP displays the current battery condition.

The tracker also contains a mounting bracket suitable for attaching a bicycles saddle stem or other tubular frame.

The bracket allows for quick detachment should you wish to use the tracker off the bicycle.

The tracker allows free access to a 3rd party mobile APP and online PC website.

The APP is a powerful tool and is used for tracker location, historical travel as well as issuing commands that control how the tracker operates.

Location data is stored on the website for a continuing 6 month period. More detailed travel history and reporting functions can be found on the website.

How GPS tracking works:

The tracker uses fixed orbit GPS satellites to find its location on the earth. The tracker therefore needs to be able to 'see' the sky in order to receive satellite information. It cannot receive satellite information when inside buildings or in locations where the view of the sky is interrupted.

The tracker requires its own mobile 2G GSM SIM card so it can send GPS location data to the website and the mobile APP. It also allows for text communications.

Locations are automatically uploaded to the website using inexpensive mobile data.

The mobile APP is used to display the information stored on the website.

The APP and the website are also used to control and change tracker settings.

The tracker, APP and website work seamlessly together with virtually no delay in operation.

The trackers SIM card must have the ability and credit for VOICE, TEXT and DATA.

Vodafone is the only 2G PROVIDER, NO OTHER CARDS WILL WORK.

Due to the nature of this product, a PrePay SIM card is usually sufficient, but ensure 'auto top-up' is selected when registering the SIM phone number with the service provider.

Quick guide:

1. Fully charge the battery before using
2. Insert the 2G GSM SIM card and turn on outdoors.
Small LEDs flash when GSM and GPS signals are located
The main red LED will light for a short period during boot-up
3. Configure the tracker with the 5 text messages detailed on page 5
4. Download the mobile APP and logon to see your tracker.

Battery & charger

Fully charge the battery for about 8 hours or until small red LED goes out.
Subsequent charging should take approximately 4~6 hours depending on battery state.
Please use the 240v to 5v charger supplied.

NOTE: Do not use the USB lead connected to a computer to charge - charging time will be considerably extended.

The mobile APP shows the battery charge on the opening screen.

SIM card installation



Open the rubber cover

Insert the
microSIM card

Close the dust/rain cover

SIM card type:- **Vodafone is the only 2G PROVIDER, NO OTHER CARDS WILL WORK.**
The SIM card must have the ability and credit for VOICE, TEXT and DATA.

Mounting bracket

Usually attached to the saddle stem or other suitable tubular mounting point with the light facing backwards.

The quickly detachable thumb screws can be replaced with more permanent locking nuts (not supplied) if you prefer this method for better security.

The tracker thumb screw allows easy detachment of the tracker itself to make battery recharging more convenient.



IMPORTANT: THESE 5 TEXT COMMANDS MUST BE SENT FROM YOUR MOBILE PHONE TO THE TRACKERS PHONE NUMBER FOR THIS PRODUCT TO OPERATE CORRECTLY.

1. Pair your mobile phone to the tracker

The tracker needs to know your mobile phone number so it can communicate with you. Send this text message from your phone to the trackers SIM phone number;

admin123456 XXXXXXXXXXXX



space here

123456 is the password - XXXXXXXXXXXX is your mobile number

Reply: **admin okay**

2. Set the time zone (for accurate reporting times)

Send this text message **timezone123456 13** (13 hours ahead of GMT for NZ daylight saving)



space here

Reply: **Time ok**

3. Set how often to upload location to APP & website (10~300sec's)

Send this text message **upload123456 20** (upload location to website every 30 sec's)



space here

Reply: **Upload ok**

4. Set the APN Access Point Name – your SIM cards data connection

apn123456 warehouse (The Warehouse SIM)
or **apn123456 internet** (2 Degrees SIM)



space here

Reply: **APN ok**

5. START GPRS DATA LOCATION REPORTING

gprs123456

Reply: **GPRS ok**

To cancel data uploading, send:- **nogprs123456**

NoGPRS ok

IP ADDRESS OF RECEIVING COMPUTER

Open and login into the mobile APP. If there is a message at the top of the screen '**not enabled**', this means that the website has not received any tracker data. One reason may be the IP address needs to be re-set. (Other reasons can be the SIM card not activated, wrong APN, or no data allowance on SIM)

Send this text message to the tracker: **adminip123456 47.88.85.196 7700**

You should get a reply: **adminip okay**

DOWNLOAD THE MOBILE APP

Android or IOS APP :- **TKSTAR GPS**



LOGON TO THE APP

If you own just one GPS tracker, select '**Log in by IMEI**'
Owners of multiple trackers select '**Log in by username**'

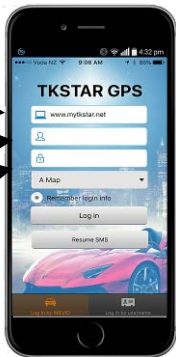


Enter server '**www.mytkstar.net**'

Enter the '**IMEI**' number which is printed on tracker
or

Enter '**Username**' for multiple tracker users

Enter password '**123456**'
(Can be changed later)



Multiple trackers

Please contact Mongoose for a username
and password to be allocated

The mobile APP gives you full control of the trackers features as well as showing real time location and historical travel. The APP can be used on smartphones and tablets.
Please explore the features.

APP ICONS

- 'Real time tracking' – shows current / last reported position
- 'Historical route' – shows the locations/route for a particular day
- 'Geofence' – allows you to set defined boundaries
- 'Issue command' – sets tracker parameters & commands
- 'Device info' – Details about the tracker, SIM number etc
- 'Device message' – record of texts sent from device
- 'Alarm setting' – define which alerts are required



HOW TO TRACK WITH THE MOBILE APP

Open the app and logon.

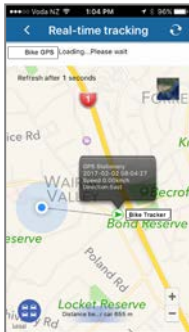
Complete all details to 'Device Info' – some features will not operate if not completed

Click on 'real time' to show current location.

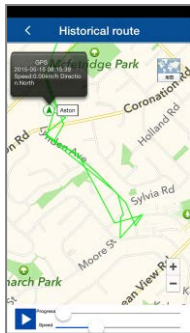
Click on 'historical route' to show where the tracker has been.



APP menu



Real time location



Historical travel replay

LOG ONTO THE WEBSITE

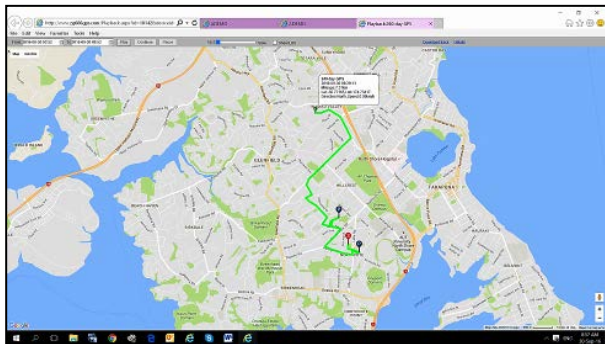
Go to:- www.mytkstar.net

The international website may open in Chinese. Select your chosen language by clicking on the corresponding flag.

The next time you go to the website, it will default to your chosen language.

This website is operated by a third party and is free to use. No fees are payable apart from your trackers SIM charges.





Log onto to the website as you would for the mobile APP.

The website stores all the location data which the APP accesses.

Travel is more detailed compared to the mobile APP. History replay is shown above.

Travel reports can be saved and printed.

MULTIPLE TRACKERS – USERNAME LOGON

If you have more than one tracker, call Mongoose to request an account. You can choose your own username and password that allows you to monitor all devices with just one logon.

TEXT (SMS) LOCATION REQUEST

If not using the APP, send this text from any smart mobile phone to the trackers mobile number:-

G123456#



- **Google link:** tap the link, it opens opens the phones map to show location.
- **v:A** = GPS signal ok. **v:V** = no GPS signal
- **2013-08-30 20:54:15:** the last reported date and time of GPS information.
- **Spd:000km/h:** the speed of tracker.
- **Bat:6** state of battery back-up charge
- **ID:4102000759:** Unique IMEI code of device
- **S19G04 ; plmn : 46001** GSM operator data
Lac:9516, cellid:23596 LBS data

LED's – WHAT THEY MEAN

Yellow LED — Mobile GSM signal state

Unlit off or in discrete mode

Lit solid searching

Flashing once every 3 sec's connected to network

Blue LED — GPS signal state

Unlit off or in discrete mode

Lit solid searching

Flashing once every 3 sec's receiving GPS

Red LED — battery

Lit solid charging

Off fully charged or not connected to charger

SOS NUMBERS

Apart from your paired mobile phone, you can add 2 other SOS numbers that also receive alerts. The numbers can be set within the APP under 'issue command'

CONTROLLING THE TRACKER

The tracker can be controlled via the mobile APP or by text messages from your phone.

APP: Use 'issue command' in the mobile APP.

The APP gives you the choice of controlling by data (GPRS) or by SMS (text).

The following are explanations of commands that can be sent by text or by the APP.

TIME-ZONE

GPS tracking time is based on GMT (Greenwich Mean Time). To get accurate reporting times, a text command to the tracker must be sent to set the correct time zone.

timezone123456 12 – when no daylight saving

timezone123456 13 – with daylight saving

FREQUENCY OF LOCATION REPORTING Range:- 10~300 seconds

To maximize the battery life, the tracker only reports when moving. It should be set to report its location at reasonable time intervals to give an accurate map plot of travel. 20 to 30 seconds is typical.

When stationary for more than 10 minutes, it enters sleep mode – turns off GPS reception and stops reporting locations to preserve battery life. Mobile reception and alert functions are still on.

Send this text message **upload123456 20** (upload every 20 seconds when moving)

GPRS

This stands for 'Global Packet Radio System'. Commonly called 'data'.

It is the method of sending computer data over the mobile phone network.

It should not be confused with the letters GPS.

RED LED LIGHT – how to control

The bright red rear light can be controlled from within the APP or by these text messages;

- | | |
|------------------------|--|
| led123456 on | The light will flash until it is turned off |
| led123456 off | Turns the flashing light off |
| led123456 shock | The LED light will start to flash when the tracker receives a shock or vibration. It automatically turns off if no shock or vibration is detected for 5 seconds. |

The LED light will naturally shorten battery life, so check the APP for battery condition and recharge as necessary.

GEO-FENCE ANTI-THEFT ALERT

A geo-fence is an invisible boundary around a fixed location.

This boundary can have a minimum radius of 100m to a maximum of 5000m. Geo-fences can be added and deleted.

If the tracker moves out of or into a geo-fenced area, it will send a text alert to the authorised numbers confirming it is either 'IN' or 'OUT' of the geo-fenced area.

You can set multiple geo-fence areas.

NOTE: In normal use this can become an unnecessary text, together with associated text cost, and will shorten battery life. Only use the feature when required.

To stop it sending texts, either delete the geo-fence or turn off in 'alarm settings' on the mobile APP.



SHOCK ANTI-THEFT ALERT

When the tracker has been stationary for 5 minutes and it then receives a heavy shock, it will send a text alert.

You can activate shock alert by APP command or text message: **shock123456**

You can cancel shock alert by APP command or text message: **noshock123456**

MOVE ANTI-THEFT ALERT

Once the tracker has remained stationary for more than 5 minutes, you can set a move alert.

move123456

reply: **move ok**

If the tracker moves more than 500m (factory setting), it will send a text alert to the paired mobile phones.

To cancel this mode, send

nomove123456

reply: **nomove ok**

SPEED ALERT

You can set a speed limit for the tracker and receive a text alert if this speed is exceeded every 5 minutes.

speed123456 60

reply: **speed ok**

To cancel this alert, send

nospeed123456

reply: **nospeed ok**

Do not set speeds lower than 50km/h as GPS will be inaccurate at low speeds.

LOW BATTERY ALERT

When battery voltage is too low, it will send a text alert

Battery condition is shown on the mobile APP.

Alert can be programmed on or off. See chart at rear of this manual.

MONITOR MODE – Covert Listening

This mode allows you dial in and listen to what is happening around your tracker.

In monitor mode,

Send this text: **monitor123456**

Now make a phone call to the trackers SIM number, allow it to ring and it will answer. You can now listen – you cannot talk. Hang up when finished.

GPS tracking is not possible in monitor mode.

Once you have finished with this feature, switch it back to tracking mode,

TRACKER MODE

Send this text: **tracker123456**

Switches the tracker from monitor mode to tracking mode

LBS

LBS stands for 'Land based System'. It is a basic location method based on the closest mobile cell tower. It is mainly used for search and rescue when a GPS satellite fix cannot be obtained. It will not provide an accurate location, just which search area it is within.

When using the APP or website to see current or historical locations, uncheck 'LBS' to prevent spurious locations from appearing – usually signified by straight lines.

TEXT COMMAND CHART

Instruction	Text to send to trackers SIM #	Reply
Cell phone pairing (master user #1)	admin123456 xxxxxxxxx (xxxxxxx = your mobile phone number)	admin ok
Cancel pairing	noadmin123456 xxxxxxxxx	noadmin ok
SOS – Tamper alert	sos123456 xxxxxxxxx mobile no' sossms123456 Text alert soscall123456 Call alert To cancel, insert 'no' in front of text eg; nososcall123456	ok
Set time zone	timezone123456 13 (EG: NZ Daylight saving - 13 hours ahead of GMT)	time ok
Set how often to upload location to APP & website	upload123456 20 (range 10~300 sec's)	upload ok
Start sending location data to website	gprs123456	gprs ok
Stop sending location data to website	nogprs123456	nogprs ok
Tracker mode	tracker123456	tracker ok
Monitor mode	monitor123456	monitor ok
Move alert	move123456 nomove123456	move ok nomove ok
Speeding alert	speed123456 105 nospeed123456	speed ok nospeed ok

Shock alert	shock123456 noshock123456	shock ok noshock ok
Request location by text reply	g123456	Tap blue to see on your phones map
Set mobile APN	apn123456 xxxxxxxx (xxxxxxx = APN name)	APN ok
Set IP address	adminip123456 47.88.85.196	adminip ok
Change password	password123456 XXXXXX Must be numbers - 6 digit	password ok
Check setting	Param1 or Param2	Shows settings
Language	LAG1 (English) LAG2 (Chinese)	Switched to English Switched to Chinese
Check IP address	(S42,1234)	Tracker status, IMEI, IP address etc
Turn red LED on	led123456 on	LED on ok
Turn red LED off	led123456 off	LED off ok
Auto LED turn on by shock	led123456 shock	LED shock ok
Turn shock off	led123456 off	LED off ok
Low battery alert	LOWBATSMS123456 on LOWBATSMS123456 off	lowbatsms ok
Parameters	check123456	sends all tracker parameters
Reset	format or begin123456	Re-sets all settings to default

Caution:

This product contains a Li-ion battery which has harmful chemicals.

Do not dismantle, drop, bump, puncture or treat it violently.

Do not get wet – tracker is water resistant, not water proof.

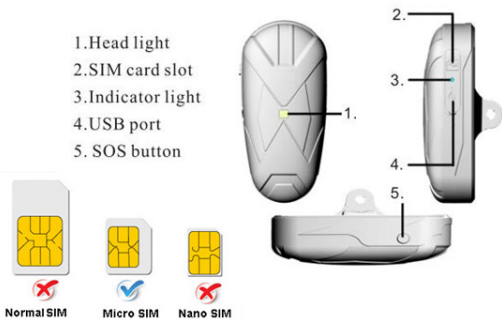
Never incinerate.

Never submerge.

Do not leave the battery discharged as this will affect its recharge ability.

This GPS tracking device uses the 2G GSM mobile network for sending data and texts. Mongoose is not responsible or liable if the mobile network becomes unavailable for any reason.

The purchase of this product provides free access to an international mobile APP and website. These are operated by a 3rd party and Mongoose has no control over the design or operation. Mongoose accepts no liability or responsibility if the APP or website become unavailable or access terms change.



INDICATOR LIGHT STATUS	MEANING
Yellow light -Solid	No GPRS signal
Yellow light -Flash	GPRS connection
Blue light -Solid	No GPS signal
Blue light -Flash	GPS connection

Note: GSM SIM CARD INSTALLATION GUIDE: **Only GSM SIM** card works in this model



Specification

GSM module	2G GSM Quad Band 850/900/1800/1900Mhz
Network	2G GSM/GPRS/LBS
SIM card	Micro SIM
GPS sensitivity	-159dBm
GPS chipset	UBLOX
GPS Position Accuracy	5m (outdoors)
Time Accuracy	Synchronized to GPS time & GMT
Cold start	45~80 sec
Hot start	1 sec., average
Warm start	35 sec., average
Battery	Re-chargeable Li-ion – 3.7v 1800mAh
Charger	110v~220v input 5v output
Battery standby	Up to 14 days. Operating life is subject to usage & environmental effects. Using flashing LED light will shorten life considerably
Operating temperature	-20°C to +55°C
Dimensions	40 x 85 x 28mm 80g
Humidity	5% to 95% Non-condensing
Dust / Water resistance	IP67
USB input	For charging – use charger supplied

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