

# LEDESMA G.P.S. SATELLITE LIVE TRACKER USER MANUAL

Thank you for purchasing the LEDESMA GPS LIVE TRACKER, the world's most advanced lighter, weightless and powerful tracking system. Our system is a true G.P.S. system, using Global Positioning Satellites to get the bird's position in the map. Please read this instruction manual carefully and place close attention to the operating instructions.

This device is a quickly way to find your lost bird while you are using in normal GPS function. If you are using GPR-S option the battery time will be reduced and the GSM coverage must to be assured where you are flying. In any case we strongly recommend a radio emitter in the leg or tail as backup.

At [www.pigeongps.com](http://www.pigeongps.com) you can find all information you need and contact: [info@todopalomas.com](mailto:info@todopalomas.com)

## LEDESMA GPS BIRD TRACKER

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EAN bar code approved

## 1. INTRODUCTION

Because battery life and weight are the primary concerns from a Racing Pigeon / falconry point of view!

Lightweight and aerodynamic without any sharp edges, small and battery life!

With the ability to mount it comfortably & securely to a back-pack, would be the key ingredients.

You can dial in to see where the bird is. Low cost!

A system that quickly is an option by the whole Falconry & Racing Pigeon community.

With our many years of experience in racing pigeon sport and falconry, we have worked hard to develop an ultimate bird tracker.

With the powerful new LEDESMA GPS BIRD TRACKER, falconers can use REAL TIME GPS to track their birds.

## 2. Main Features:

- Made to the FALCONRY / RACING PIGEON community.
- With Altimeter Alert included. You can get an ALERT when the bird exceeded the altitude you want.
- Ultra small: 47 mm x 21 mm x 10 mm.
- Ultra light: 15 gr - 19 gr depend of the model.
- Without external Charger connector. We charge the unit from our new patent pending SIM-CHARGER!

- Compact and with 3 layers encapsulated against knocks and shakes.
- Versatile and ready to the back mount and tail mount.
- Enhanced leds.
- Locating and tracking via SMS, GPRS or missing call.
- +30 days under HACKING/SLEEP mode battery
- Locating and tracking via SMS or GPRS. Ready to "GPS-Trace Orange" traced each 20 sec.
- Battery low alert.
- Movement speeding alert.
- Listen in function. Ready APP for IPHONE, Android, etc.



### 3. Specifications

- Back or tail mount ready
- Dimension 47 mm x 21 mm x 10 mm
- Weight 15g – 19g
- Red GSM/GPRS GPS SATÉLITE REAL
- Sensitivity -159dBm
- GPS accuracy 3 m
- Operation temp -20°C to +55°C
- Charged by SIM CHARGER

### 4. Applications

- Falconry
- Racing pigeon sport
- Homer pigeons
- Small and big birds

## 5. Start up

### VERY IMPORTANT TUTORIAL: Search on YOUTUBE for “ledesma gps 4.1”

The battery can be charged fully in 1 hour. In order to protect the device please use only the charger provided by the manufacturer. The battery level 85% to 90% is a full charge indicator.



**SIM CARD:** Please be sure that there is call display but no call transfer, and PIN code is off.

Take care:



1. SIM card pin code must be deactivated.
2. SIM card type is “Standard Size”
3. SIM card must have SMS credit. SIM card must to be only 3 tracks (See figure)
4. Check the SIM card in your own mobile first. You must assure it is able to send a SMS text to other telephone.
5. Insert the SIM card until you heard a “click” sound.

**Switch on:** Take the unit outdoors. The device will be switched on after inserting the SIM card. After 15 seconds the orange LED will flash every 5 seconds. This indicates a normal operation.



**FIRST USE:** Go to an open sky place and switch ON the device. Leave the device far away from buildings and obstacles. Wait about 10 or 15 minutes until the BLUE LED starts flashing every 5 seconds. Next time you need wait only 1 minute or less to get the satellite signals.



**Switch off:** The device will be switched off after taking out the SIM card.

## 6. Mounting the unit over the bird

FALCONS: Back mount harness please. (To learn to fit a harness please look for a youtube movie named "Marshall trackpack")

EAGLES: Tail clip.

**ATTENTION: with iPhone deactivate "iMessage" option**

Once the device is orange-led flashing every 5 seconds we must follow this steps:

## 7. LEDESMA BirdTracker App

Download "Birdtracker" from AppStore(iphone) or Google Play Store(Android) and follow the steps:

**Switch On:** The device will be switched on after inserting the SIM card.



1. Enter the APP



2. Enter your tracker name or create a new one



3. Enter the name and telephone number of the SIM card into the device!! **DO NOT MAKE A MISTAKE HERE!**



4. In the main menu click "CONFIGURATION"



5. Click "Authorized Number"



6. Enter your own handy number and others optional.



7. Click + and the international prefix. In the example Ireland +353..... After that, click SETUP. **You must get back a SMS from the device with confirmation.** If you do not receive it, there a mistake in something and you are no able to follow the configuration: Check the SIM telephone number at "MODIFY" section and check the SIM card credit by using in other handy phone.



8. Click "Alerts" in the main menu



9. Select “Speed Alert”, “Low Battery Alert” or “Altitude Alert”



10. Enter the speed limit value and activate or deactivate



11. Battery alert value



12. Enter the altitude value and activate or deactivate



13. In the CONFIGURATION menu we can change Local Time and GPRS options



14. Time Zone



15. GPRS options to track in real time from home and for our handy phone.



16. GPRS Settings IP: 193.193.165.166. Port: 20696. The APN You can check at <http://wiki.apnchanger.org>



17. GPRS ID configurations. You can check params at <http://wiki.apnchanger.org>



18. Tracking GPRS interval. Minimum is 20 seconds. Recommend max 2 min and min 20 sec.

## 8. Locate the bird (ZOOM)

Alternatively, you can make a free missing call to the device in order to get the bird position or sending a "000000Z" SMS text. When we get the text with the bird position, we will get other useful information just before the link with the map:

By example: DATE: 13/08/26, TIME: 11/39/16, Speed: 120.1 , 1 , 7 , 2.3 , 100.2 , 50 — 15, [A LINK](#)

120.1    SPEED  
 ,1        (Future use)  
 7,        SATELLITE FIXED  
 2.3,     CALCULATION QUALITY (1=VERY GOOD, 4 = POOR)  
 100.2,   ALTITUDE IN METERS  
 50-      % BATTERY LIFE  
 15        GSP SIGNAL QUALITY  
[A LINK](#)    The link to google maps with bird position

## 9. Listen in function

If authorized numbers calls the tracker and wait to the tracker pick it up. You can hear the sounds around the tracker. **ATTENTION:** This function least much battery. Don't use this function when you are looking for your lost bird and you have no enough battery charge.

## 10. Tracking live your bird with GPS-Trace-Orange (GPRS)

How to register and set up the Orange GPS-Trace account

Go to the page <http://gps-trace.com> and follow the link “Registration” in the right upper corner of the page.

Become familiar with the terms of agreement and press “I agree” if you want to proceed.

Fill in the registration form indicating your login, e-mail and password. Press “Create account”

Next you will see a message informing you about successful account activation. Now you can log in and start using your GPS-Trace Orange account.

Enter your user name and password and press “Enter” to proceed. You will see the main window of GPS-Trace system.

Open the “Settings” menu and choose the correct time zone, and daylight saving time, than press “Ok”.

Open the “Settings” menu and select “Google Maps” option.

To bind your device to the service you need to press “Activate” in the left upper corner of the page.

In the new window you should fill in the following fields:

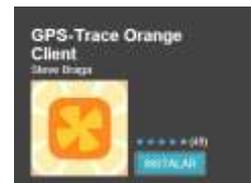
1. Device name (FALCON NAME)
2. Device type (choose “Ledesma”)
3. Unique ID (the device IMEI code. Something as 3589450401711111. You can find it by click “**Query IMEI**” in BIRDTRACKER app). After that, you should to receive a SMS back with this big number.
4. The phone number of the SIM-card installed into your device. You should leave the field “Device access password” blank.

Press “Ok” to finish the device registration.

Your device is already registered in the GPS-Trace service and ready for use.

To use to track from your mobile phone (All models): [m.gps-trace.com](http://m.gps-trace.com)

To use to track from (Only Androids) mobile phone you can use a free app: “GPS-Trace orange client”



### Connecting to the server by GPRS:

1. Open BIRDTRACKER.
2. Set “ACTIVATE GPRS”
3. After system connects to the server the “Yellow Light” will flash twice every 5 seconds interval.



## 11. SLEEP/HACKING mode

From LEDESMA LIVE TRACKER 4.3 vers we are able to set the SLEEP/HACKING mode. The device can be settled to switch ON/OFF each selected time interval. It will save battery, by example, in the night times. Take care you need BIRDTRACKER update to 1.3.3(16) or above. If you put out the SIM card by about 5 seconds, the Hacking/Sleep mode will be shut OFF. **WARNING: If you activate the hacking mode, the device will switch OFF during the selected time interval and, during this time, the unit will be completely off. In this moment, we cannot turn ON or set off the hacking mode until finish the selected period of time! USE IT WITH CAUTION!**



## 12. Tips and tricks

### Finding your hiding hawks in a forest at short distances



1. Dial to the tracker and wait to response.
2. Talk in your phone. You are going to hear yourself with a 1 second delayed. You will hear yourself more loud when you face is in the Bird direction!

### Forcing the blue light



In some situations you can lose the blue light (Satellite). In normal operation mode the system get satellite position each 4 minutes if the tracker is GPRS deactivated. If you like to assure the device is getting the satellite position you can send a LOCATE command or missing call. It will force the device to try the satellite information immediately.

### Exporting the path information to GOOGLE EARTH:



1. Open gps-trace.com website. Logon and click on "MESSAGES". In the left bottom side click "Export Messages"
2. Select OziExplorer or Google Earth format.

### Maximize the battery working time:



1. If you are using the device as backup system in order to not lose your bird you should to NOT activate GPRS option. GPRS get lost much battery life. In normal operation (Standby time) with GPRS DEACTIVATED you can get more battery operation.

### What the colored lights mean:

<b>ORANGE LED</b> <small>(RIGHT SIDE LIGHT)</small> 	<b>Flashing every 0.1 seconds</b> 	The device gets started 
<b>BLUE LED</b> <small>(LEFT SIDE LIGHT)</small> 	<b>Constant lighth</b>	
<b>ORANGE LED</b> <small>(RIGHT SIDE LIGHT)</small> 	<b>Flashing every 4 seconds</b> 	Working normal operation 
<b>ORANGE LED</b> <small>(RIGHT SIDE LIGHT)</small> 	<b>Flashing like:</b> 	Connecting GPRS ...
<b>ORANGE LED</b> <small>(RIGHT SIDE LIGHT)</small> 	<b>Flashing twice every 4 seconds</b> 	Have GPRS connected 
<b>BLUE LED</b> <small>(LEFT SIDE LIGHT)</small> 	<b>Flashing every 4 seconds</b> 	Got GPS satellite signal 

## 13. Recommendations

1. Don't dismount the unit because it will turn useless.
2. If the weather is bad, ie. heavy rain make sure the unit is covered from dampness, I suggest to safe guard yourself to cover the SIM card with the supplied rubber cap.
3. To maintain the battery life never leaving the device in a hot car, especially if exposed to the sun. When not in use, store the device in a cool place. For long-term storage, we recommend a 40 percent charge. Do not worry too much about the state-of-charge; a cool and dry place is the most important.
4. Do no discharge the battery completely. Try to maintain over 40 percent charge.

### LEDESMA BIRD TRACKER QUICK START SET UP GUIDE:

**A.** Put unit on charge (takes 1 hour to fully charge) and inset SIM card. The unit takes a standard SIM card not a micro one and make sure that if you use a pay as you go, that the tariff you are using supports text messaging and data and also make sure your new SIM is not password locked. Try inserting it in an unlocked phone and checking. Try sending a text with this SIM card to say, your phone or the wife's just to make sure it's working. ( I use a GIFFGAFF SIM as it operates off the O2 network, which is best coverage for me in my area and for £10 a month gives unlimited texts and 1gb of data).

**B.** Go to the apple App Store on your phone (iPhone users) and download the Ledesma bird tracker app (type in bird tracker in the app site search box, looks like a magnifying glass, because if you just type in Ledesma it won't find it)

**C.** When downloaded it's time to set up your unit:

1. Switch ON the unit and go to add bird.
2. Enter name of your bird or whatever you like in the name box.
3. Enter phone number remembering to drop the '0' and add +44 instead. This is the SIM card number you are using in the unit NOT your mobile phone number. ( Make sure you put the + sign in front of the 44)...e.g. for example 07774 561567 will become +447774 561567.
4. Now tap on your birds name and it will go to the main menu.
5. Tap on configuration.
6. Tap on assign phone number 1.
7. Enter your mobile phone number, remembering once again to drop the '0' and add +44.
8. Make sure your unit is outside (so as to get a signal) and your mobile has a signal.
9. Tap on set up (This will now send a text to your unit and update it with all your settings).If all is ok within a couple of minutes you will get a text back confirming updates.
10. Go back and tap 'Locate bird' and press send. If all is well you will get a text back with the position of your tracker.Just tap on the Blue part of the text and your phone will go to Google maps and hey presto there's your bird.
- 11.You can now play around with the other settings in the configuration and alerts menu eg time zone,low battery warning, height/speed warning etc etc, just remember to tap set up when finished and this will send another text to your unit so updating it.

### SETTING UP FOR TRACE ORANGE:

- A. On your computer go to <http://gps-trace.com>
- B. Go to registration.
- C. Read terms of agreement and tick 'I agree'.
- D. Fill in the registration form, creating a log in name, password and email address.
- E. Press 'create account'.(You should now see a message saying successful account activation).
- F. Either stay logged in on or re-log in on the main trace-orange home page with your user name and password.

- G. You should now be in the main trace-orange home page.
- H. Open settings (top of page), choose time zone and daylight saving time, amend, and press ok.
- I. In settings menu, open up maps tab, next to general settings tab and change to Microsoft virtual earth (there is no option for "Google maps" here).

BEFORE YOU GO ANY FURTHER YOU NEED TO FIND OUT WHAT THE IMEI NUMBER IS OF YOUR UNIT.

- A. Making sure your SIM card is installed, your unit is on, it's outside and your mobile has a signal, go to the Ledesma app on your phone tap on your bird's name, tap on configuration, tap on query IMEI and press send. You will get a message back with a long number on it...WRITE IT DOWN.
- B. Go back to trace-orange on your computer and in top left hand corner of the page it says 'ACTIVATE', click on this.
- C. Device name (I use my bird's name, same as on the iPhone app or it can be your name of your device e.g. my Ledesma).
- D. Device type (you must choose Ledesma)
- E. Unique ID (this is the long number you just wrote down from your mobile phone)
- F. Enter The phone number of the SIM card installed in your unit, you must do the same as on your phone...DROP THE '0' AND ADD +44.
- G. Leave the "Device access password" blank
- H. Press ok to finish the device registration. You are good to go!!!

For the GPRS side of your unit to work you must go onto your ledesma app on your phone, click on name, click on configuration, click on GPRS settings and click on activate.....you should then see your device on trace-orange.....

Also remember at the end of the day, follow the above steps and de-activate the GPRS before removing the SIM card.