

# ULTRAPoint

## DOGPS



## **USER MANUAL** **TRACKING DEVICE FOR HUNTING DOGS**

PLEASE READ THE USER MANUAL WELL BEFORE USING THE DEVICE!  
Keep the User Manual in a safe place, as it also contains the Warranty Certificate.

# 1. INTRODUCTION

The **ULTRAPPOINT DOGPS** tracking device comprises a dog collar and software to be installed into a mobile telephone. In order for the software to function, the GSM mobile telephone must support java applications. In order to obtain the hunter's own location, a Bluetooth/GPS module is required and the telephone should support Bluetooth data transfer. The collar requires its own telephone subscription (SIM card).

The tracking of the dog works by the hunter sending a location enquiry with the mobile telephone to the dog's GPS/GSM unit, i.e. the collar, using a text message. When receiving the location request, the dog's collar transmits the GPS location data to the hunter's phone by text message. The collar may also be set for automatic tracking, which instructs the collar to send the location data at regular intervals, eliminating the need for sending location data requests. About 30 seconds following the location request, the location of the dog will be visible on the hunter's phone on a colour map.



At the same time, the map also displays the following information:

1. Name of the dog
2. Bark alert (flashing HAU WOOF! text)
3. Basic version: cursor-controlled distance meter (distance to e.g. road, railway, etc.) Pro version: distance to tracked object, if the BT module is connected. Otherwise functions as the Basic version.
4. Dog's rate of travel
5. Time of the last positioning message
6. Own location (Pro version)
7. The route the dog has travelled for the past twenty minutes
8. Dog location and direction of travel

Further information available from the info menu.

Other hunters may also follow your dog's movements by installing the ULTRAPPOINT DOGPS tracking software to their own phones. The dog owner may restrict the tracking of the device by setting a password. A single phone may be used to track a number of collars.

## SAFETY GUIDELINES

- Use only safe and approved batteries for the device.
- Make sure the batteries are inserted correctly with respect to the + and - signs
- Do not use the device to restrain the dog, as the antenna cables are installed within the collar

## 2. USING THE DEVICES

### 2.1 Installing the tracking software to the GSM phone

First, please make sure the wap and internet settings are in order. These settings vary depending on service provider, and they may normally be ordered by text message.

Order the software using the SIM card you plan to use for tracking in the future, as the loading of maps and updating of software versions is set to the phone number first used to download the software.

Send the order code contained in the device packaging and User Manual (e.g. DoGps 12345) by text message to +358 40 5931478. After a few moments, you will receive a reply message to download the software. The downloading process varies according to mobile phone. Once the reply message has been received, do as follows:

example 1. Select View and then *Load*.

example 2. Select the UltraPoint DoGps service message from the *Message Inbox*, and then select *Menu* and *Get message*.

example 3. If your phone has a *Service Messages* menu, select the UltraPoint DoGps message from here, then load, retrieve or get message

The download will begin as instructed and during this time the phone will ask for installation approval. If you own a phone with a memory card, it is recommended you save the software on the memory card (the phone software will as for save destination during installation), as in the future the maps will be saved to the same memory device where the software was installed. Memory cards often have more free space, therefore enabling more map surface area. Once installation is complete, the ULTRAPPOINT DOGPS application may be found from the phone's menu and is ready for use.

### 2.2 Entering the collar to be tracked to the application's memory

Run the ULTRAPPOINT DOGPS application and add a new device.

*Menu->Devices->Add new* Enter the telephone number, password and select whether the device should be displayed on the map.

**Telephone** The dog collar has its own SIM card, and it is the phone number for this subscription that should be entered here. It is recommended you type the number in the international format. (e.g. 040 1234567 = +35840 1234567).

**Name** Here you can enter the name of the dog to be tracked. This enables the name of the dog to be displayed above the map.

**Password** By using the password, you may prevent any tracking data being sent to unauthorised recipients. The collar will not reply to location requests if the password entered is incorrect.

Based on telephone number, the main user of the device may be set with the first location request. The main user is the person who may change the password, and only the main user will be sent location data without using a password.

Only the main user can set functions for the collar, such as automatic tracking, alert limit and power save.

**Show on map** If you have saved a number of devices to be tracked with the application, here you can set which devices are shown on the map, according to your requirements.

**PLEASE NOTE!** Always remember to confirm the changes you make by selecting *Ok*, before selecting *Back*, otherwise the settings will not be saved to the memory. *Menu->Ok*

### 2.3 Using the dog's GPS/GSM unit

First of all, the pin code request for dog collar SIM card should be removed; this should be done using a GSM phone. After the request has been removed, put the SIM card in the collar. It is recommended that you keep the SIM card in the phone for a while, as the service provider sends service messages to new subscriptions, which may at first slow down the functioning of the collar. Remove these messages from the SIM card memory before placing the SIM card in the collar. If you plan to use a SIM card that has earlier normally been used in a phone, delete all the telephone numbers and text messages from this SIM card before installing to the collar.

When removing the collar from the package, the GSM antennae are straight, so bend the antennae so they are at a 45-degree angle from the collar.



*The GPS antenna should be placed as close as possible to the middle of the dog's neck, in order to ensure the best possible connection with the satellites. The collar may be shortened if necessary by cutting along the sewn marks. The collar may be adjusted between 41 cm – 54 cm.*



*Remove the battery cover and the protective casing under the cover. By pressing the yellow button, the tray for the SIM card will be made available for loading. Please make sure the SIM card is installed the correct way taking into consideration the cut corner of the card. Push the card with the tray until it clicks into place. Protect the SIM card slot with the cover provided. This cover is important waterproof protection.*

*Install 4 AA-sized 1.2 V batteries to the battery slots of the collar. Please make sure the batteries are installed correctly by observing the + and – signs. The manufacturer does not recommend using 1.5 V batteries due to their short life. Close the battery cover firmly by turning the knurled-head screw as far as it goes. Do not use pliers or other tools.*

The LED light will flash during device start-up, and after around 20 seconds, the LED will start to flash at one-second intervals. Double flashing means that the device is searching for satellites, and when it flashes at one-second intervals, a sufficient number of satellites have been located for tracking. It is worth waiting for the device to find the satellites before fastening the collar on the dog. Furthermore, it is a good idea to make a single location request before releasing the dog in order to ensure the battery level is sufficient and the device is functioning correctly.

After using, remove the batteries and allow the device to dry in room temperature.

When the collar is switched on in the car, the power consumption is greater, as the GPS device increases the power it needs to search for satellites.

The collar automatically sends info messages displayed on the phone as separate pop-up windows when the ULTRAPPOINT DOGPS application is running. Info messages are setting and exceeding alert levels, switching automatic tracking, setting the collar power save, as well as low battery warnings (when battery power is at 25 %). Please note that info messages are only sent to the main user.

### 3. ULTRAPPOINT DOGPS APPLICATION MENUS

Use the menu to select the following functions:

#### **Locate dog:**

When selecting this option, the application asks for permission to send a text message. By selecting YES, the phone will send a location request to the collar to be tracked. By selecting NO, the phone will return to the map screen. When the location request is sent, the time counter will start from zero and information on the map screen is displayed in italics. Once the reply has been received, the counter will reset and the updated information will be shown in regular type. Data is only shown on the top bar if the time from the last tracking is less than one hour. However, all the latest location data can be displayed in a separate window by selecting dog info from the *main menu*.

*If the application is closed on the phone and the collar transmits a message, the message may be displayed as a normal text message. The positioning software may no longer display the information on the map, and there is no certainty as to whether the text message is an alert or information message.*

#### **Dog info:**

This shows e.g. the dog's location, positioning time, battery level and collar settings.

#### **Maps:**

You can download the *maps* to the phone's memory in advance, or install them as the need arises. When opening the *Maps* menu, the phone will display all the saved maps. Select the map you require by activating it (circle turns black) and press *Back*, and the selected map will be displayed.

When opening the *Maps* menu and pressing *Menu* again, you can download a new map, specify the properties of the map to be downloaded, name the map by selecting *name selected*, and delete the saved map by selecting *Delete selected*.

By selecting *Load new*, the application asks for the desired scale of the map to be downloaded. Select the scale you would like and activate (circle turns black). Press *Menu* and *Load*. When the phone asks for authorisation for sending and receiving data, select *Yes*. The device may ask which connection you wish to use, choose *internet* (e.g. Sonera internet) not WAP or MMS. Once the connection has been selected, the download you requested will commence and during this time the top bar of the map will display the text "Loading (x %)".

It is recommended that you download the map of Finland as a base, after which you can move the cursor to the desired point on the map to display a map of the selected region with a smaller scale. When ordering a new map, the centre point of the map will be set as the point the cursor was placed when beginning the download. If the cursor is not moved after locating, the centre point of the map will be set as the dog's location.

Map scales used:

Finland: 1:4000000 • 1:1000000 • 1:500000 • 1:250000 • 1:100000 • 1:50000 • 1:20000

Please note that the maximum number of maps permitted by the application is ten. If the memory already has ten maps, and you start to download a new map, the application will automatically delete the oldest map. If the map has been given a name, it will not be removed, the application will only delete unnamed maps. If the memory already has ten named maps, the new map will not be stored in the memory. A map like this may be used as long as it is selected. Closing the application, changing maps on the memory or downloading a new map will discard the unsaved map.

The map screen shows the maps selected and all the GPS devices that have been authorised for display, the PRO version also displays the user's own location.

The display also shows a cursor that may be moved using the phone's arrow keys. By moving the cursor, the map may be moved. Using the cursor, the distance between two points may be measured by first selecting the origin and then moving the cursor to the desired point. Pressing button 5 makes selection. Using the cursor, you may also activate a region you wish displayed as a map. This is done by dragging the cursor over the region and selecting from the main menu:

*Menu -> Maps*

## Devices:

### Changing information on saved devices

*Menu->Devices->Menu->Edit* You can change the name of the device, telephone number, password and the display of the device location on the map.

### Deleting saved devices from the memory.

*Menu->Devices->* Select the device to be removed (circle turns black).

*Menu->Delete* The information on the device to be removed will be displayed.

*Select Menu-> Ok*, and the device data will be removed from the application.

**Settings:** The general settings for the application, the most important of which are:

**Password.** Do not change the password! (Supplied with the software and works as an ID code in connection with your phone number when updating the device and downloading new maps).

**Map width and height**, which specify the size of the map section to be downloaded. Default size is 200x200 and permitted values are between 100-1024. The larger the value entered, the larger area the map will cover. This function is dependent on the phone model, so it is recommended you gradually increase these values, thereby finding the optimal size of map for your mobile phone.

**Map quality**, zoom in, normal and zoom out. These settings affect how much the selected map is zoomed. A zoomed-in map shows a closer view of the map while a zoomed-out map shows a more distant view. This setting also affects the area of the map to be downloaded. A zoomed-in map shows a smaller area, and vice versa.

**Maps stored in phone max.**, a maximum of ten maps may be stored in the memory.

**Alert, ON/OFF**, when the alarm is on, the phone will ring when receiving location data.

**Barking limit**, max setting 60. The collar measures one-second long pulses at one-minute intervals. For instance, if this setting is set at 30 and more than 30 seconds of barking occurs during a sixty-second period, the barking will be displayed. The Dog Info always shows barking state and barks per minute whether or not the barking is displayed on-screen.

**BT update frequency** (sec.), (Pro version). User's own location update frequency operating with the BT module add-on. For use in hunting, it is recommended that you set the time at a larger interval (e.g. 180 s), because the BT connection will consume the phone's battery.

Automatic keypad lock delay (sec.). The default value is 0, which means the automatic keypad lock is off.

**BT On/Off** Establishes a connection with the BT module to display the user's own location. Bluetooth must be switched on in the phone's connection settings. When the application is searching for the BT module, the top bar displays the text "Searching...". When the device has been found, the phone asks for confirmation for connection and then starts to read the location data transmitted by the device. The status of the BT module is shown in the top bar (+ and ?). + means that connection has been made with the Bluetooth module, but there are insufficient satellites available to define the location. ? means that there are sufficient satellites for obtaining location data.

**BT reset** If, for some reason, you change your GPS/BT module, the application's memory has to be reset in order to remove all the details of the old module. When the settings menu is open, select Menu -> Reset BT, and the data will be removed and the connection with the new module may be formed.

**Alarm level** You can set the level for the collar, which when exceeded an alert is sent. The level should be set by radius and is measured from the current location of the collar. Send the data (e.g. 500 metres) to the collar to be tracked and after a while you will receive the reply "Alarm level set!". Following this, the collar to be tracked will send an alert text message (a pop-up window will be displayed on the map screen) if the limit is exceeded.

**Power save** When the collar's power is on, the default power save is set at Normal. You can set the collar's power save by selecting Gps off followed by Menu -> Send. The phone will send a command to the collar and the collar replies with a text message (a pop-up window will be displayed on the map screen).

If the collar receives a location data request while in power save mode, the GPS will automatically switch on and send the location data as soon as it has a fix on satellites. Once the message has been sent, the GPS will switch off.

**Automatic tracking** You can set the collar for automatic tracking, in which case no separate requests for location data need be sent as the position will be displayed on the map screen at set intervals.

*Automatic tracking->* Set the time e.g. 5 and press *menu->Send*.

The collar replies with the message (a pop-up window will be displayed on the map screen) automatic tracking switched on. After this, updated location data will be displayed on the map screen at around five-minute intervals. Automatic tracking may be switched off by sending the time value 0 to the collar.

*If the application is closed on the phone and the collar transmits a message, the message may be displayed as a normal text message. The positioning software may no longer display the information on the map, and there is no certainty as to whether the text message is an alert or information message.*

**Quit** Switches off the ULTRAPPOINT DOGPS application.

### Phone quick selection keys:

The following phone buttons work as quick selection keys when using the map screen.

Button 1: Moves the map selected so that the GPS device to be tracked is positioned in the centre of the screen according to the last received location data.

Buttons 2, 4, 6, 8: Moves the cursor on the map screen.

Button 3: Focuses on the centre of the selected map (basic version) or focuses on the BT/GPS device or the user's own location (PRO version).

Button 5: Activates the cursor for measuring distances between two points and/or activating a new map. If some area of the map displayed is selected (shaded), the application will fetch a smaller scale map from the map server, in order for the chosen area to be displayed in full

Button 7: Switch route plotting on/off (the route the dog has taken over the past 20 minutes)

By pressing ? followed by # within a period of two seconds, you will lock and unlock the keypad.

Additionally, if the phone has a navi button, this may also be used to activate the cursor and move the cursor on the map screen.

## 4. MAIN USER

The main user of the device is defined by the first telephone number used to send a location command to the collar. The collar will set this phone number as the main user. Only the main user may change the following collar settings: setting alert level, switching automatic tracking on/off, setting collar power save and changing password. Only the main user will be sent alarm and information messages.

If you want to change the main user, remove the DoGps data from the SIM card. In order to remove the application, the SIM card must be put in a GSM phone. After deleting the data, place the card back in the collar and send a location request to the collar using the SIM card you wish to set as the main user.

## 5. POSSIBLE PROBLEMS:

If you change your phone number, and the application fails to work (positioning and map downloading), please contact the manufacturer. Use of the application is dependent on the number to which the application was first installed. When changing your phone number, the data on the collar SIM card concerning the main user should be deleted by putting the collar SIM card into a phone and removing the DoGps number.

## 6. TECHNICAL SPECIFICATIONS

Type	ULTRAPPOINT DoGpsTX
Operating voltage	4 x 1.2V AA batteries
Operating temperature	-15 °C ... +55 °C
Collar weight	10 g excluding battery

The telephone number used for receiving the order code text message.

Order code – please make sure you leave a space between the DoGps text and serial number!

Norms: ETSI EN 301 511, EN 300 440-2, EN 301 489-1&7

All rights reserved. Ultracom Oy hereby warrants that the UltraPoint DoGpsTX is in full compliance with all essential requirements and other conditions of Directive 1999/5/EY.



This device has been manufactured after 13.08.2005. This device should be disposed of by taking to an appropriate collection point for electrical and electronic items.



## WARRANTY CONDITIONS AND CERTIFICATE

Dear Customer. Thank you for choosing the Ultrapoint Gps device, we hope you will be satisfied with the product. If, however, your Ultrapoint product requires servicing during the warranty period, please contact the product vendor. In order to avoid unnecessary inconvenience, we recommend you read the manual very carefully before contacting the vendor.

### Warranty granted by the manufacturer:

The warranty period for the Dog GPS/GSM unit is 2 (two) years from the date of purchase. The warranty period for the collar antenna unit is 1 (one) year from the date of purchase. The warranty does not cover the collar or batteries. If during the warranty period the device is found to be faulty due to poor workmanship or materials, a Manufacturer-authorized service point will fix the product without charge for work or parts.

This warranty is only valid when this warranty certificate or other purchase receipt (with mention of date of purchase, product serial number and vendor) is produced with the faulty device. The Manufacturer and/or authorized service agent reserve the right to refuse warranty service if the aforementioned are not produced or if the required information is incomplete or illegible.

This warranty does not cover the following cases:

1. Normal wear and tear
2. Faults occurring as a result of the modification or alteration of the product
3. Damage caused by improper use of the product
4. Rectifications made by an unauthorized service agent, vendor or customer him/herself
5. Accidents or any other similar reasons beyond the control of the Manufacturer.

This warranty does not affect civil rights of imperative legal provisions currently in force for consumers, or indeed consumer rights over the vendor based on purchase/trade agreements.

Vendor	Purchaser
Date of purchase	Product serial no.

**ULTRAPoint**  
www.ultrapoint.fi

Manufacturer

 **ULTRACOM OY**

PO Box 20, 90441 Kempele, Finland  
Tel. +358 (0) 8 563 5600  
Fax. +358 (0) 8 520 8717  
ultracom@ultracom.fi  
www.ultracom.fi