

Terrestrial  
GPS

# GPS\_4400 Series

## Collars for Wildlife with 2-Way Communication



### Lotek's GPS\_4400 automatic tracking and monitoring system provides position and other sensor data ideally suited to wildlife behaviour and habitat utilization studies.

In addition, the GPS\_4400 Series of collars allows remote data download and collar reprogramming. This capability is invaluable when decisions must be made promptly and instant access to collected data is needed.

The GPS\_4400 Series collars are capable of tracking the fine-scale movements of individual animals through a variety of habitats. Using collars with differential correction, you can obtain highly accurate position readings with an error of less than five metres. Furthermore, by taking advantage of our flexible scheduling option, your study can be customized to your particular research needs.

As a result, you can determine a very accurate map of the travel paths and behaviour patterns of a variety of animals.

Based on the proven design of our other GPS systems, the GPS\_4400 Series of remote tracking collars with user replaceable batteries can collect 12,000 data records when taking 24 fixes per day. Using the high speed UHF modem and/or a GSM cellular modem, data records can be downloaded and schedules can be changed at the user's convenience. For migratory species, a collar can be equipped with an Argos transmitter so that GPS data can be transmitted via satellite and ultimately sent to you at your desk. This significantly improves the efficiency and cost-effectiveness of any wildlife study.

Lotek offers unlimited customer support and a full one year warranty on all of our equipment.



- Receivers
- Dataloggers
- Radio transmitters

- Acoustic transmitters
- Archival tags
- GPS systems

- Hydrophones
- Wireless hydrophones
- Physiological transmitters

- Depth transmitters
- Accessories
- Consulting

*Delivering innovative solutions for a sustainable future.*

# GPS\_4400

## Specifications

	4400M	4400S
Dimensions (L x W x H)	120 x 86 x 126	69 x 49 x 74
The collar contains	GPS receiver (16 channels) UHF radio modem GSM cellular modem (optional) VHF tracking beacon UHF tracking beacon Computer/memory module Argos transmitter (optional)	GPS receiver (16 channels) UHF radio modem N/A VHF tracking beacon UHF tracking beacon Computer/memory module N/A
Options	Mortality Temperature 2 axis activity Hibernation feature Drop off compatible Default or advanced scheduler Basic or advanced differential correction	
Handheld command unit	Function: To command, control and interrogate GPS4400 collars. Interfaces with PC; includes built-in GPS receiver and electronic compass and rechargeable battery.	
Total collar weight	Approx. 950g (dependent on belt type and size)	Approx. 450g (dependent on belt type and size)
Operational life/battery pack** 3hr fix schedule (8 fixes per day)	More than 2 years*	Approx. 14 months
1hr fix schedule (24 fixes per day)	500 days or approx. 12,000 fixes	Approx. 6 months 4,320 fixes
Data download speed	Non differential is 10 records/second Differential is 3 records/second	
User replaceable battery pack	Yes	
User programmable Via cable with download link	GPS & Beacon Schedule Mortality Delay Time	
Field upload by radio	GPS & Beacon Schedules Time	
Field download	Data & diagnostics	
Data link operating frequency	420-460 MHz	
Data modulation baud rate	2400 baud, direct FM	
Bandwidth	18 kHz	
Approximate UHF range	2 - 8 km ground to air, depending on the terrain	
VHF beacon frequency	Customer specified 148-174 MHz	
UHF beacon frequency	420-460 MHz	
Operating temperature range	-30°C to +50°C	
Software Interface (includes host software & training video)	Windows 98® or higher recommended	

\* Please call Lotek for more information

\*\* Battery life estimates are approximate and may vary due to variance in individual battery capacity as per manufacturer, as well as operating conditions including ambient temperature, landscape, species, etc.

