

# GPS 8000 Series



## Wildlife Collars with TWO Remote Communication Systems



- 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 8000

## Specifications

	8000MAU	8000SAU
Backwards compatibility with 4400 family	Please contact Lotek for more details	Please contact Lotek for more details
Dimensions (L x W x H) (mm)	120 x 86 x 126	69 x 49 x 74
The collar contains	GPS receiver (16 channels) UHF radio modem VHF tracking beacon UHF tracking beacon Argos transmitter Mortality Temperature 2 axis activity Hibernation feature Default or advanced scheduler Argos scheduler	
Options	Basic or advanced differential correction Drop off compatibility	
Handheld command unit	Function: To remotely command, control and interrogate GPS 8000 collars. Interfaces with PC; includes built-in GPS receiver and electronic compass and rechargeable battery.	
Total collar weight	Approx. 1,250g (dependent on belt type and size)	Approx. 450g (dependent on belt type and size)
Operational life/battery pack**		
1 year	GPS locations every 2 h Argos transmission 12h / 3 day	GPS locations every 3 h Argos transmission 6 h / 7 day
2 years	GPS locations every 2 h Argos transmission 6 h / 7 day	(1.5 Years) GPS locations every 6 h Argos transmission 6 h / 14 day
3 years	GPS locations every 3 h Argos transmission 6 h / 14 day	
Data download speed	Non-differential is 10 records/second (at 2400 baud rate) Differential is 3 records/second (at 2400 baud rate)	
User replaceable battery pack	3B57	3B50
User programmable Via cable with download link	GPS & Beacon Schedule & Argos schedule Mortality Delay Time	
Field upload by radio	GPS & Beacon Schedules Time	
Remote download	Data & diagnostics	
Data link operating frequency	420-460 MHz	
Data modulation baud rate	2400 baud	
Approximate UHF range	Up to 10 km ground to air, depending on the terrain	
VHF beacon frequency	Customer specified 148-174 MHz, 216 -220 MHz	
UHF beacon frequency	420-460 MHz	
Operating temperature range	-30°C to +50°C	
Software Interface (includes host software)	Windows 2000® or higher recommended	

\* Please call Lotek for more information

\*\* Battery life estimates are based on 60 second repetition rate, 0.5W output power and may fluctuate due to variance in individual battery capacity as per manufacturer, as well as operating conditions including ambient temperature, landscape, etc.



Delivering innovative solutions for a sustainable future.

Tel: 905-836-6680  
Fax: 905-836-6455

Web: [www.lotek.com](http://www.lotek.com)  
Email: [biotelemetry@lotek.com](mailto:biotelemetry@lotek.com)

D2208-001