

GPS 8000 Series



Wildlife Collars with TWO Remote Communication Systems



LOTEK
WIRELESS

FISH & WILDLIFE MONITORING

Innovative solutions for a sustainable future.

- Receivers
- Dataloggers
- Radio transmitters

- Acoustic transmitters
- Archival tags
- GPS systems

- Hydrophones
- Wireless hydrophones
- Physiological transmitters

- Depth transmitters
- Accessories
- Consulting

GPS 8000

Specifications

	8000MAU	8000SAU	8000MGU	8000SGU
Backwards compatibility with 4400 family	Please contact Lotek for more details	Please contact Lotek for more details	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	120 x 86 x 126	69 x 49 x 74
The collar contains	Video Camera compatible (M size only) GPS receiver (16 channels) UHF radio modem VHF tracking beacon Argos transmitter Mortality Temperature 2 axis activity Hibernation feature Advanced scheduler Argos scheduler Virtual Fence		Video Camera compatible(M size only) GPS receiver (16 channels) UHF radio modem VHF tracking beacon GSM modem Mortality Temperature 2 axis activity Hibernation feature Advanced scheduler Virtual Fence	
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.			
GSM ground station	N/A		- Receives SMS messages containing GPS locations from the collars - Sends a new schedule to the collar by using the specialized software and a PC or laptop	
Total collar weight	Approx. 1,250g (dependent on belt type and size)	Approx. 450g (dependent on belt type and size)	Approx. 1 kg (dependent on belt type and size)	Approx. 450g (dependent on belt type and size)
Operational life/battery pack**				
1 year	GPS locations every 1 h Argos transmission 12h / 3 day	GPS locations every 3 h Argos transmission 6 h / 7 day	GPS locations every 30 min. ***	GPS locations every 2 hours***
2 years	GPS locations every 1 h Argos transmission 6 h / 7 day	(1.5 Years) GPS locations every 6 h	GPS locations every 1 hr. + 10 min.***	(1.5 years) GPS locations every 4 hours***
3 years	GPS locations every 2 h Argos transmission 6 h / 14 day	Argos transmission 6 h / 14 day	GPS locations every 2 hours***	
Data download speed via radio	Non-differential is 10 records/second (at 2400 baud rate)			
User replaceable battery pack	3B57	3B50	3B57	3B50
User programmable Via cable with download link	GPS & Beacon Schedule & Argos Schedule Mortality Delay Time		GPS & Beacon Schedule Mortality Delay Time	
Field upload via radio	GPS & Beacon Schedules Time			
Field upload via GSM Network	N/A		GPS & Beacon Schedules Mortality Delay	
Remote download via radio	Data & diagnostics			
Remote download via GSM Network	N/A		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			
Operating temperature range	-30°C to +50°C			
Software interface	Windows XP® or higher recommended			

* Please call Lotek for more information

** Battery life estimates are based on 60 second repetition rate, 0.5W output power, operating conditions including ambient temperature, landscape, etc.

*** Estimates based on 90 second average time to calculate a fix and 7 GPS locations/SMS

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