

GPS 7000 Series



Wildlife Collars with Remote Communication



- Receivers
- Dataloggers
- Radio transmitters

- Acoustic transmitters
- Archival tags
- GPS systems



- Hydrophones
- Wireless hydrophones
- Physiological transmitters

- Depth transmitters
- Accessories
- Consulting

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GPS 7000

Specifications

	7000MU	7000SU	7000SLU	7000MA	7000SA
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	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
Upper Housing			80 x 43 x 43		
Battery			85 x 38 x 48		
The collar contains	GPS receiver (16 channels) UHF radio modem VHF tracking beacon Mortality / Hibernation feature Temperature 2 axis activity GPS / VHF advanced scheduler Advanced differential correction Drop off compatibility			GPS receiver (16 channels) VHF tracking beacon Argos transmitter Mortality / Hibernation feature Temperature 2 axis activity GPS / VHF advanced scheduler Argos scheduler Advanced differential correction Drop off compatibility	
Handheld command unit	Function: To remotely command, control and interrogate GPS 7000 collars. Interfaces with PC; includes built-in GPS receiver and electronic compass and rechargeable battery.			N/A	N/A
Total collar weight	Approx. 950g (dependent on belt type and size)	Approx. 350-450g (dependent on belt type and size)	Approx. 300g (dependent on belt type and size)	Approx. 1,250g (dependent on belt type and size)	Approx. 450g (dependent on belt type and size)
Operational life/battery pack** 6 months			Every 2 hours (2,112 locations)		
1 year	Every 30 min (17,520 locations)	Every 90 min (5,840 locations)		GPS locations every 2 h Argos transmission 4 h/day	GPS locations every 3 h Argos transmission 6 h /5 day
2 years	Every 70 min (14,600 locations)	Every 6 h (3120 locations)		GPS locations every 2 h Argos transmission 10 h/7 day	GPS locations every 3 h Argos transmission 5 h /month
3 years	Every 2 h (13,140 locations)			GPS locations every 2 h Argos transmission 8 h/14 day	
Data download speed	Non differential is 10 records/second (at 2400 baud rate) Differential is 4 records/second (at 2400 baud rate)			N/A	N/A
User replaceable battery pack	3B57	3B50	3B59	3B57	3B50
User programmable Via cable with download link	GPS & Beacon Schedule Mortality Delay Time			GPS & Beacon Schedule Mortality Delay Time Argos scheduler	
Field upload by radio	GPS & Beacon Schedules Time			N/A	N/A
Remote download	Data & diagnostics				
Data link operating frequency	420-460 MHz				
Data modulation baud rate	2400 baud direct FM			N/A	N/A
Approximate UHF range	Up to 10 km ground to air, depending on the terrain		Up to 5 km ground to air, depending on the terrain	N/A	N/A
VHF beacon frequency	Customer specified 148-174 MHz 216-220 MHz				
Operating temperature range	-30°C to +50°C				
Software Interface	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, species, etc.



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