



## Medium GPS Collar

### Iridium-GPS Collars



An innovative, state-of-the-art tracking collar developed specifically for the requirements of wildlife researchers and managers.

### Specifications

General Information	
Weight	135-350 grams
Dimensions (main module including batteries)	(55 mm x 34 mm x 40 mm) to (65 mm x 50 mm x 47 mm)
Dimensions (antenna module)	65 mm x 35 mm. x 16 mm.
Color	Brown, Black, or Blue belt, black housings
Housing Construction	Conformal Coating
Reuse	Battery replacement and refurbishment available

Main Features	
User programmable GPS schedules (select interval length between GPS locations or specific times of day)	
274 different possible battery combinations for custom needs	
Lightweight conformal housing built for high temperature environments	
Temperature range of operation is -40° - +60° (Battery Dependent)	
2-Way satellite communication from collar to user and back again	
GPS positions transmitted by satellite to internet (protected database) and email	
GPS positions transmitted by UHF transceiver (standard but do not have to use)	
Ergonomic housings specifically designed for your study species	
Programmable VHF transmitter (for collar recovery after drop off & mortality detection)	
Detect, record and report mortality events	
Drop off mechanism (programmable or on-demand)	
Main battery pack and backup battery (for collar recovery)	
Configurable GPS on time for better precision	
3 ways to schedule Iridium transmission times, interval, specific time, multiple specific times each day	

Other Features	
GPS Module and Supported systems	32-Channel GPS receiver
Iridium antenna	Internal Active Patch
Temp Range / Operation	-40 - +60 C. (Battery technology dependent)
Power	Lithium Thionyl Chloride or Lithium Polymer
Backup data transmission method	UHF Radio (backup to Iridium for large data volumes)
Warranty	1-year parts and labor for manufacturing defects
Customer Support	365 days per year, included 08:00 – 21:00 (PST/PDT)
USB-C	Direct link for full data download upon recovery
Memory Size	500,000 lines of data (GPS positions, sensor output, etc.)
Default data transmission method	Iridium
VHF Frequency Range	164 - 178 MHz



**Figure 1- Screenshot showing Animal positions on map**

Data management	
Data uploads to	Telemetry Solutions Iridium web-based database
Auto email notifications	On new data uploads
Export data formats	KML, CSV, plot on Google Maps
Data displayed	ID, Date & Time, Latitude, Longitude, Altitude, Time to Fix, Maximum GPS signal strength received, Number of satellites used to obtain position, GPS battery Voltage, Iridium battery voltage, Temperature (C.°)

### Why Choose Telemetry Solutions...

- Custom configured to fit customer's specific requirements
- Total weight will outperform similar weight competition products
- Conformal Housings will provide for a small overall package under the neck and on top of the neck for better animal comfort and survival
- GPS additional time for better precision (customer controls)
- Drop off fits on a collar 2 cm. wide
- Collar adjustment in 10 mm. increments
- Servicing back to original condition
- Up to 20 unique, daily GPS positioning schedules
- Iridium scheduling by specific time in day, simple interval or multiple specific times in day, or any combination thereof
- 365 day per year direct from factory customer support 08:00 – 21:00 (PST/PDT)