

# ATS G2110D GPS Collar

Finding Solutions. Delivering Results.



## Increased battery capacity gives you more location data and greater field longevity.

Now there is a smaller, full-featured GPS collar for medium to small animals, with the renowned reliability that has made ATS a leader in radio telemetry. The G2110D GPS collar features a built-in timed drop-off function which allows for a smaller, lighter collar design. The "D" model features a larger battery, which increases collar longevity by 100% over the G2110B. Timed drop-off is user-programmable to count down a desired length of time. By starting the count-down on the day of deployment, you will know exactly when the collar will be dropped off.

The collar will also automatically drop off when it reaches the end of its battery life to ensure data retrieval. Up to 8,190 locations, as well as data on animal activity, ambient temperature, mortality, etc. can be stored onboard the unit until the data are off-loaded using Windows® based collar communication software.

The G2110D permits multiple sampling rates and a VHF duty cycle to maximize battery life and data. Included battery life calculation software allows you to conduct "what if" scenarios to maximize your number of location fixes. Its built-in VHF transmitter signals location, the status of the last GPS attempt, mortality, and battery condition.

For a GPS collar with reliability you can depend on, choose the G2110D from ATS.

- Receive Up To 8,190 Animal Locations With One Capture
- User-Programmed Timed Drop Off For Assured Collar Retrieval Without Recapturing The Animal
- Optimized For Superior Performance Under Forest Canopy
- User Defined Sampling Rates Allow You To Collect The Data You Want, When You Want It
- Gather Activity, Mortality, And Ambient Temperature Information
- Lighter Weight/Smaller Size For Medium-Size Animal Applications

TRANSMITTERS  
RECEIVERS  
GPS SYSTEMS

  
ADVANCED TELEMETRY SYSTEMS

ANTENNA SYSTEMS  
CODED ID SYSTEMS  
CONSULTING

## About ATS

Founded in 1981, ATS' mission is to provide researchers and managers in ecology and biology with animal monitoring products and services of the highest quality and reliability.

Our industry-leading expertise and customer service is delivered by customer service representatives who are fisheries and wildlife biologists with extensive field experience in radio tracking and engineers who regularly spend time in the field.

ATS developed the first microprocessor controlled transmitter, we were the first to supply GPS collars to monitor gray wolves, and we set new standards of high sensitivity in receivers.

ATS is proud of our international reputation for quality, service, integrity and an unwavering dedication to our mission and customers.

## Custom Systems

ATS designs and manufactures complete systems to meet the unique circumstances and special requirements of most any research project. From our innovative transmitters to custom-engineered receivers, an ATS custom system gets results.

## Other ATS Products

ATS telemetry products include: a full line of implantable and attachable transmitters, state-of-the-art receivers and dataloggers, GPS collars, and antennas. Plus, ATS biologists and engineers routinely provide "concept-to-completion" consulting services to assist customers with every aspect of their telemetry-based research.



ADVANCED TELEMETRY SYSTEMS

470 FIRST AVE N • BOX 398 • ISANTI, MN 55040  
(763)-444-9267 ■ (763)-444-9384 FAX  
SALES@ATSTRACK.COM • WWW.ATSTRACK.COM

## ATS G2110D GPS Collar

**Large Data Storage Capacity** - Stores up to 8,190 locations for later retrieval. Up to one year life depending on sampling rates. Data will remain retrievable even after power is lost.

**Timed Collar Release** - An onboard timer accurately counts down the number of days until release. The timed release feature is programmable by the user. The timer can be initiated on the day of deployment to ensure an accurate release date.

**Low Battery Release** - Collar will automatically drop off when the battery reaches the end of its life. The VHF transmitter operates for at least 30 days after the collar is dropped.  
*This feature will override the timed release.*

**Multiple GPS Sampling Rates Available** - Up to three different intervals may be used. Helpful in extending battery life.

**Standard VHF Beacon Included** - VHF transmitter beeps at different rates or patterns to indicate status information to the user (i.e., status of last GPS attempt, mortality, low battery, activity, etc.).

**Windows® Based Collar Communication Software Included** - Software is used to off-load the collar's stored GPS locations (either Lat/Lon or UTM coordinates) and to access its programmable features. Compatible with Windows® 98, NT, 2000, XP and Vista.

**Activity Sensor Included** - Keeps cumulative count of tilt switch movements since the last GPS coordinate was recorded.

**Mortality Sensor Included** - Allows the researcher to know when the animal has not moved within a user-defined time period.

**Ambient Air Temperature Sensor Included** - Records external temperature each time a GPS location is acquired, accurate to  $\pm 2$  degrees Celsius with resolution to a sixteenth of a degree.

**VHF Transmitter Duty Cycles Available** - Turning off the VHF transmitter during periods when it will not be monitored saves power, enabling longer GPS battery life and more data.

**GPS Engine** - Trimble's 12-channel Lassen™ SQ with FirstGPS™ architecture for high quality coordinates.

## G2110D GPS Collar Specifications

### BATTERY

Battery life is dependent on cover conditions, topography and collar programming. Below are four typical life estimates, programmed with and without duty cycle, and no auxiliary GPS schedule.

#### Battery Life @GPS schedule with VHF on continuously:

- 280 days - 1 fix every hour
- 490 days - 1 fix every 8 hours

#### Battery Life @ GPS schedule with VHF on 12 hours and off 12 hours:

- 350 days - 1 fix every hour
- 760 days - 1 fix every 8 hours

### MEMORY

- On board data storage
- Datum = WGS84
- 256K nonvolatile data storage memory (8190 GPS locations)

### PHYSICAL

- Weight: 410 g (0.91 lbs)
- Electronics Box size: 9.4 long x 3.8 wide x 5.3 cm high (3.7 x 1.5 x 1.8")
- Electronics Box material: Polycarbonate
- Collar size: 3.8 cm (1.5") wide Neoprene Belting  
Circumference made to customer specifications.

### WARRANTY

New and initial cycle refurbished GPS collars are warrantied for one year from the time of shipment, or up to the calculated minimum battery life, whichever occurs first. GPS collars may be refurbished up to three times.