

# ATS G2110E2 Iridium/GPS Location Collar

World's Most Reliable Transmitters and Tracking Systems



## Get your animal's data *anywhere* you have internet access.

The model G2110E2 uses the Iridium satellite to downlink GPS location data collected by the collar. An integrated VHF transmitter allows you to track the animal in the field. Also, the E2 series provides a radio-link with ATS' *Neolink* series of VIT's and Fawn Collars, in order to monitor a doe and its fawns.

Your collar's GPS location data is uploaded to ATS' managed Iridium website (ATSIDAQ.com) according to the schedule you choose. A Google Earth data file is included.

The G2110E2 collar is programmed wirelessly using the included Windows-based software. You can control how often fixes are collected and stored, how often data is uploaded to the ATS Iridium website (up to six per day), and how often the VHF beacon will transmit (this allows you to maximize battery life). You can also remotely command program changes to the fix rate and mortality schedule, fix duration time, and Iridium data transmission interval, using the website.

A nominal monthly subscription fee, as well as a per-location fee, is invoiced to you on a monthly basis.

- Weighs just 825 grams
- E2 Series includes *NeoLink* radio-link for doe and fawn monitoring
- Receive up to 24 location fixes per day, up to 6 downloads per day
- Long life:
  - 4 years @ 3 locations/day
  - 3 years @ 12 locations/day (VHF beacon on 8 hours/day)
- Remotely commanded release via website
- Remotely modified user selectable location and data transmission schedule
- Low battery "fail safe" collar release
- Collar is refurbishable to maximize investment

TRANSMITTERS  
RECEIVERS  
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ADVANCED TELEMETRY SYSTEMS

ANTENNA SYSTEMS  
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CONSULTING

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**ATS**  
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## ATS G2110E2 Iridium/GPS Collar

**Large Data Transmission Capacity** - Receive animal location data via website, up to 24 location fixes per day, up to 6 downloads per day. Data files include: latest location, aggregate location since deployment (both .txt), and Google map compatible (.kml).

**Collar Release** - Log on to the Iridium website, where you may relay the release command to the Iridium collar.

**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.

**Programmable GPS Sampling Rates** - User programs the number of fixes to collect per 24 hour period in one hour increments, and the calendar days of the year on which to collect fixes. Program may be remotely modified via website.

**Standard VHF Beacon Included** - VHF transmitter is user programmable on a daily on/off hourly schedule. The minimum on time is one hour per day.

Turning off the VHF transmitter during periods when it will not be monitored saves power, enabling longer battery life.

**Windows® Based Collar Communication Software Included** - Software is used to program the collar location fix rate, VHF beacon and duty cycle. Compatible with most MS Windows® OS's. Changes to program may also be remotely commanded on-the-fly via the ATS Iridium website.

**Activity Sensor Included** - Keeps cumulative count of tilt switch movements since the last GPS coordinate was recorded, or during 15 minute period prior.

**Mortality Sensor Included** - Allows the researcher to know when the animal has not moved within a 4, 6, 8, 10 or 12 hour time period. The mortality schedule may be changed via website command. Mortality notifications are sent via e-mail.

**Ambient Air Temperature Sensor Included** - Records external temperature each time a GPS location is acquired, accurate to ±2 degrees Celsius with resolution to one degree.

**GPS Engine** - GlobalTop Ivory Series MT3339 Engine.

## G2110E2 Iridium/GPS Collar Specifications

### BATTERY

2 "D" size

Typical life is variable; factors affecting life include number of GPS fixes per day, number of Iridium data transmissions per day, visibility of GPS and Iridium satellites, and VHF on-time per day.

**Typical Life with VHF beacon on 8 hours/day:**

- 4 years @ 3 locations/day, uploaded weekly
- 3 years @ 12 locations/day, uploaded daily

### MEMORY

- On board data storage
- Datum = WGS84
- 256K nonvolatile data storage memory (64,000 GPS locations)

### PHYSICAL

- **Weight:** 825 gram (1.8 lbs)
- **Electronics Box size:** 11.5 long x 8 wide x 6.5 cm high (4.5 x 3.1 x 2.6")
- **Electronics Box material:** Silicon reinforced polycarbonate plastic
- **Collar size:** 5 cm (2") wide Neoprene Belting  
Circumference made to customer specifications

### WARRANTY

New and first cycle refurbished GPS collars include a limited warranty 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.