

ATS G2110E Iridium/GPS Location Collar

World's Most Reliable Transmitters and Tracking Systems



Get your animal's data *anywhere* you get your e-mail.

Our Iridium Collar is part of ATS's NextGen line of new, more capable GPS Loggers and Collars. The model G2110E uses the Iridium satellite system to send location data collected by the collar's on-board GPS receiver. An integrated VHF transmitter allows you to track the animal in the field and a collar release mechanism allows for reuse of the collar after retrieval.

Location data stored in the collar's non-volatile memory is sent periodically to an Iridium satellite, where it is down-linked to Iridium Corporation's ground based reception and processing center, thence sent via the web to ATS's Hosting Computer. The data is then automatically e-mailed to you according to the schedule you chose.

You can easily program the G2110E collar using the supplied Windows-based software. You can control how often fixes are collected and stored, how often e-mails are sent to you (up to six per day, each holding up to 22 locations), and how often the VHF beacon will transmit (this allows you to maximize battery life). You can even remotely command "on-the-fly" changes via email to these parameters.

A remotely commanded collar release is accomplished by simply e-mailing the ATS Host Computer, which will then relay the release command to the Iridium satellite system.

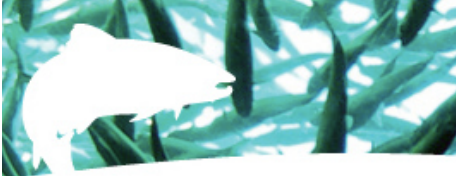
- Weighs just 825 grams
- Receive up to 96 locations fixes per day, up to 6 e-mails a day
- Long life:
 - 4 years @ 3 locations/day
 - 2.3 years @ 12 locations/day (VHF beacon on 8 hours/day)
- Remotely commanded release via e-mail
- Remotely modified user selectable location and data transmission schedule
- Low battery "fail safe" collar release
- Collar is refurbishable to maximize investment

TRANSMITTERS
RECEIVERS
GPS SYSTEMS


ADVANCED TELEMETRY SYSTEMS

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

ATS G2110E Iridium/GPS Collar

Large Data Transmission Capacity - Receive animal location data via e-mail, up to 96 location fixes per day, up to 6 e-mails per day. E-mailed data files include: latest location, aggregate location since deployment (both .txt), and Google map compatible (.kml).

Collar Release - E-mail the ATS Host Computer, which will then 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 15 minute increments and the calendar days of the year on which to collect fixes. Program may be remotely modified via e-mail request.

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, e-mail schedule, and VHF beacon and duty cycle. Compatible with Windows® NT, 2000, XP, Vista and 7. Changes to program may also be remotely commanded on-the-fly via e-mail.

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 e-mail command.

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 - Trimble's 12-channel Lassen™ IQ with FirstGPS™ architecture for high quality coordinates.

G2110E Iridium/GPS Collar Specifications

BATTERY

2 "D" size, 1/2 "AA" back up battery

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, e-mailed weekly

2.3 years @ 12 locations/day, e-mailed 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.