NORTH STAR
Science and Technology

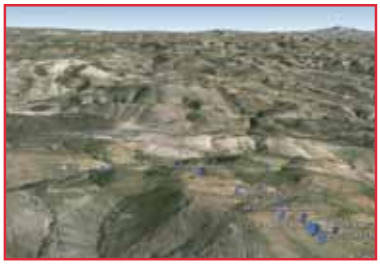
Turning Tracking and Monitoring into Knowledge

Model NSG-LD2

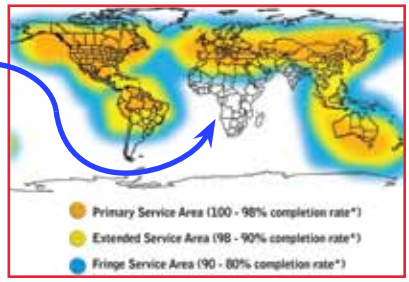
Base Price–$2600

Features

- **GPS Collar offers Real Time Tracking through Globalstar Satellite System**
- **Low Cost Satellite Air-Time; Real Time Data from the field to www**
- **GPS Logging, Capacity of 50,000+ locations**
- **Programmable Duty Cycles For GPS Logging and Transmit Functions**
- **Collars Can Be Equipped with Independent VHF Unit for Conventional Tracking and Recovery; Mortality Sensor Available**
- **Collars Can Be Equipped with Microprocessor Controlled Drop-Off Mechanism for easy recovery**
- **Web Based Data Secure and Password Protected**
- **Tracking Data and Mapping Functions available at www.sensorlink.biz**
- **Collars Custom Fit for your Applications, Various Sizes and Configurations Available, Including Internal Padding**
- **TXer Housings Available in Low Profile Configurations to Reduce Abrasion**
- **No External Antennas to get Chewed Off**
- **North Star's Secure Customer Web Page Provides Seamless Data Fusion and Display on Google Earth™**



- **Coverage Map for Globalstar Service with New Ground Stations coming soon in Africa**
- **Globalstar Tracking System Incudes a 'Non Moving' Alarm and Geo Fence Alarm**



Existing Collar Applications and Species: Desert Big Horn, Black Bear, Deer, Mt. Lion, Elk, Moose, Bison, Oryx, Wolf, Pronghorn, Jaguar, Snow leopard, Cow, and many others

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Model NSG-LD2~Specifications

NSG-LD2

Component Weights

- Housing and Hardware (with battery)
  855 grams (Standard GPS antenna)
  715 grams (Micro GPS antenna)
- Peripherals
  VHF 30-55 grams (smaller available)
  Drop-off Mechanism 78-114 grams
- Collar Average Weight Range
  900 grams (24" Collar) to 1200 grams (36" collar, no peripherals)
- D-Cell Battery (alone) 150 grams
- DD-Cell Enclosure plus Board (alone) 315 grams

Note: Includes GPS Receiver and Globalstar Transmitter

Battery Life Expectancy

- Drop-off Battery Life 3 years
- VHF Battery Life 3+ years
- Collect/Transmit 8 GPS loc. p/day 30–34 months
- Collect/Transmit 6 GPS loc. p/day 40–45 months
- Collect/Transmit 4 GPS loc. p/day 60–65 months
- Collect/Transmit 3 GPS loc. p/day 75–80 months

Note: Environmental conditions, such as wide variations in ambient temperatures, will reduce actual battery lives, particularly over extended deployments.

Antenna Weights (with Rexolite Cover)

- Transmit Antenna 60 grams
- MMIII GPS Antenna 110 grams
- Standard GPS Antenna 70 grams
- Micro Mouse GPS Antenna 40 grams

General Data

- Output Power 150mW
- Transmit Signal Length 1.5 Seconds
- Temp Range –40° to +50° C
- Frequency 1611.25 to 1618.75MHz
- Modulation BPSK-modulated PRN Code
- GPS Engine µBlox 16 Channel
- GPS Accuracy +/– 10m horz, +/– 25 vert
- GPS Antenna Active
- GPS Datum WGS84
- VHF Power Output 1–2mW, 30–45ppm
  VHF Mortality Available

- Specified accuracy is 2.5 meters CEP and 5 meters SEP. CEP is Circular Error Probability. It is the radius of a horizontal circle, centered at the true antenna position, containing 50% of the fixes. SEP is Spherical Error Probability. It is the radius of a sphere, centered at the true antenna position, containing 50% of the fixes.
- NOTE: We are turning off our GPS engine after 5 positions in a row (1 per second) are acquired with a horizontal accuracy of 5 meters or less.