



**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**



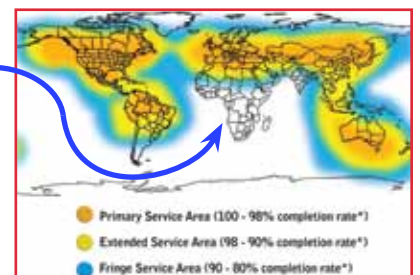
**M. Blake Henke
410-961-6692 Cell
540-775-4698 Office
blake@northstarst.com**

Model NSG-D2

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 Includes a 'Non Moving' Alarm and Geo Fence Alarm**





Turning Tracking and Monitoring into Knowledge



Model NSG-D2~Specifications

NSG-D2

Component Weights

- Housing and Hardware (with battery)
 - 910 grams (Standard GPS antenna)
 - 770 grams (Micro GPS antenna)
- Peripherals
 - VHF 30-55 grams (smaller available)
 - Drop-off Mechanism 78-114 grams
- Collar Average Weight Range
 - 940 grams (24" Collar) to 1230 grams (36" collar, no peripherals)
- D-Cell Battery (alone) 150 grams
- DD-Cell Enclosure plus Board (alone) 370 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.

