



AVIAN



TERRESTRIAL



MARINE



FRESHWATER

## LiteTrack Iridium Series

Technology:  Satellite  Radio

Product:  Collar

White-tailed deer (*Odocoileus virginianus*)



### 1/3 Lighter and up to 3X more GPS fixes

Lotek has introduced an innovative family of GPS products (LiteTrack) intended to reduce significantly the weight of the collar while increasing the data collected and send the data via the Iridium satellite system. While still NEW this product line is field proven. The collars come in a variety of sizes and can weigh from just below 130 grams up to 420 grams depending on battery configuration, belt type and size.

### Options

- Contact and close proximity
- Mortality indication
- SWIFT Fixes for many more locations
- Flexible scheduling of GPS + VHF + RF + Iridium communication, GEOFENCING alerts and schedule changes
- Sensors: temperature and activity, in raw, averaged or ODBA formats
- Deploy multiple collars on the same frequency and distinguish between them by means of embedded collar IDs in the VHF beacon signals
- LiteTrack Iridium 420 model can be equipped with an embedded drop off which is a part of the battery pack. It can be triggered by Iridium or VHF commands, main battery low voltage, or a user specified time delay.

#### Features:



#### FIELD PROVEN:

Launched mid 2016, LiteTrack Iridium collars have been used in deployments throughout the world and are already contributing large data sets to the research community.

#### LIGHTEST collars on the market without compromising the amount of data:

Reducing substantially the weight of the LiteTrack Iridium collars was a priority for the design of our new generation of collars.

### Product Applications

Home range analysis, Distribution and Habitat use, Survival, Inter/Intra Species interactions, Migration, Predator/prey interaction, wildlife crossings, Translocations and re-introductions, Human wildlife conflicts, Adaptive management,

Population dynamics, Judas operations, Identifying timing and peak of rut activity, Adaptive landscape management, Kill rates, Cause specific mortalities, Kill sites prediction, Invasive species management.



Model	Weight (g) Ungulate/ Carnivore	Life <sup>[1]</sup> (Standard / SWIFT fixes)				
		1y	2y	3y	4y	5y
LiteTrack Iridium 130	125 - 140	4 / 8	1 / 3	-	-	-
LiteTrack Iridium 150	145 - 190	12 / 18	4 / 8	-	-	-
LiteTrack Iridium 250	220 - 260	13 / 18	4 / 8	2 / 4	1 / 2	- / 1
LiteTrack Iridium 330	309 - 342	13 / 18	4 / 8	2 / 4	1 / 2	- / 1
LiteTrack Iridium 330TL	305 - 340	72 / 57	24 / 26	12 / 16	6 / 12	4 / 8
LiteTrack Iridium 360, PB, ED <sup>[2]</sup>	344 - 376	120 / 65	48 / 19	7 / 13	5 / 9	3 / 6
LiteTrack Iridium 420, PB, HD, ED	405 - 437	288 / 144	144 / 72	80 / 24	52 / 22	14 / 19
LiteTrack Iridium 500TL	500 - 580	96 / 72	36 / 39	18 / 24	12 / 18	7 / 13
LiteTrack Iridium 750, PB, ED	750 - 1100	720 / 288	360 / 144	200 / 82	144 / 64	96 / 48

1. Number of fixes per day to achieve desired operating life.

For LiteTrack Iridium 130 & 150: Life calculated with VHF beacon operating for 7h per week for standard fixes, 7h per week for SWIFT fixes. The collar transmits through Iridium after collecting 8 positions for standard fixes and 9 positions for SWIFT fixes.

For LiteTrack Iridium 250 - 420: Life calculated with VHF beacon operating for 28h per week on average. The collar transmits through Iridium after collecting 18 positions for standard fixes and 9 positions for SWIFT fixes.

2. LiteTrack Iridium 360 ED model battery life estimate is reflected by the LiteTrack Iridium 250 model.

**NOTE: HD model is built in aluminum housing. PB model features potted batteries. ED model features an embedded drop off. Please contact your Lotek representative for details.**

Features and specifications subject to change without notice.

### Technical specifications:

Frequency range: 148MHz to 174MHz

Operating temperature:

LiteTrack Iridium 130-150: -30 °C to +50 °C

LiteTrack Iridium 250-750: -40 °C to +50 °C

Standard adjustment (mm): ±30

Heavy duty packages: available for challenging species.

Timed Release Drop-Off:

Micro-TRD (10g) available for 130 and 150 models.

TRD-L (30g) available for all models.

TRD (40g) available for all models.

TRRD (121g) available for 330, 360 and 420 models.

Collars must be built drop off compatible

## Warranty

Contact one of our telemetry specialists for details about our warranty. For Warranty terms and conditions, please review our [Warranty Statement](#).

