



Vaginal Implant Transmitters – Designed to indicate when birthing has occurred

Lotek's Vaginal Implant Transmitters are designed to indicate when birthing has occurred in species such as deer, bison, elk, bighorn sheep and pronghorn. The transmitter is implanted into the vaginal tract during gestation and will be expelled when parturition occurs. VITs can be used on their own or part of a system with satellite birth alert capability. Operating life can vary depending on application and study needs and objectives. Please contact one of our Telemetry Specialists to discuss your study needs.

Options

- Activity and temperature sensor

Features:



Temperature



Activity

VHF VITs:

The transmitter measures temperature regularly. Once ejected the temperature of the transmitter will cool below the normal body temperature range. The VHF beacon switches the mode, allowing birthing event manual tracking while in the field and determining the location of birth sites.

Birth alert sent via satellite:

When combined with GPS collars, the collar & VIT system produces a birth alert that is sent via satellite communication by email and SMS.

Product Applications

Recruitment and population estimate analysis, reproductive rates, fawn survival rates

Model	Weight (g)	Life ^[1] (days)	Size (mm)		
			Length	Diameter	Wing span
V2V 149A	24	180	61	15	78
VIT-SHEEP-1/2AA	24	166	80	16	62
VIT-SW-2/3AA	31	227	90	16	67
VIT-LW-2/3AA	35	227	90	16	100
VIT-CATTLE	42	227	85	20	148
V2V 161A	91	480	74	20	150

1. Estimated life at 38 °C using battery manufacturer's information. Actual lives may vary at the extremes of the operating temperature range by up to 50%. Life calculations based on continuous operation at a pulse rate of 40ppm when implanted. When expelled transmits at 80ppm reducing life. Operating life can be extended by programming flexible schedules of VIT monitoring functions. Contact one of our telemetry specialists for details.

Features and specifications subject to change without notice.

Technical Specifications:

Operating temperature range: -30°C to +50°C

Temperature accuracy: +/- 0.5 °C

Pulse rate: 40ppm implanted, 80ppm expelled

VHF frequency range: 148 to 174 MHz

Moulded for a smooth, rounded shape with silicone-covered retention wings

Warranty

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