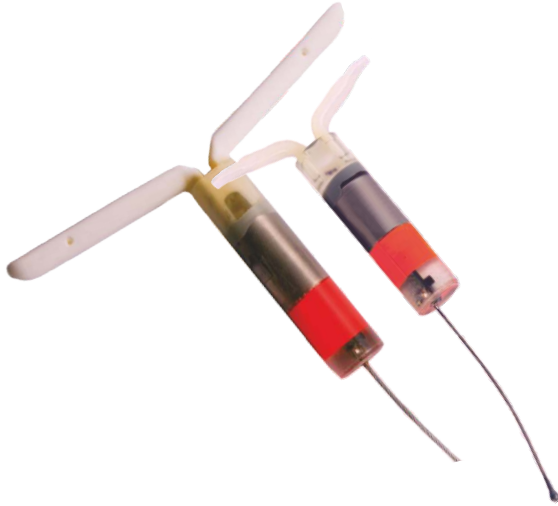


VERTEX Plus GPS Collars

VAGINAL IMPLANT TRANSMITTER (VIT)

The VIT is used to observe the pregnancy and the partition of a GPS collared female ungulate. The VIT informs the researcher about the date and location of the calving site and provides physiological data during the whole pregnancy.



VIT features

- available in 2 sizes
- measures body temperature (accuracy 0.1°C)
- detects ejection (using both parameters)
- transmits the data and status to the GPS collar
- programmable VHF beacon

The connected GPS collar

- listens for, stores and optionally transmits VIT data
- sends ejection alert notification (with unscheduled GPS fix)
- sends separation alert notification (VIT signal lost for 1h)

Measurements:

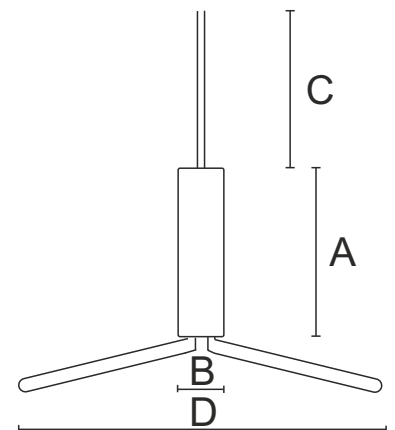
	VIT small	VIT big
Tubus length (A)	70 mm	80 mm
Tubus diameter (B)	17 mm	19 mm
Antenna length (C)	80 mm	200 mm
Wingspan (D)	70 mm	150 mm
weight	~ 30g	~ 48g
battery size	1/2 AA	2/3 A

Lifetime:

depending on configuration

VHF beacon:

VHF frequency	130 - 400 MHz (factory setting)
Output power	user definable for in-situ and ex-situ (up to 15 dBm)
Pulse length	user definable (default: 20 ms)
Repetition rate	user definable (default 5s in-situ / 1s ex-situ)
Programming	2 schedules definable (in-situ / ex-situ)
Interface	GPS Plus X with wireless VECTRONIC USB Remote Stick



Sample Life-Time calculation

Temperature recording and collar communication: every 5 seconds

VHF (ex-situ only): On 24h/day, Pulse length 20ms, Repetition rate 1s, Output power 15dBm

S-VIT 220 days in-situ + 30 days ex-situ B-VIT: 440 days in-situ + 60 days ex-situ

GPS Collars made in Germany since 2000

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