



Tellus GPS collars

Brings you closer to wildlife




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Keep track of everything.

Followit GPS collars are designed to optimize research possibilities while ensuring animal welfare. With a team of specialists developing and manufacturing telemetry equipment since 1974, all collars are custom designed to meet customer specifications. Our innovative collar design minimizes weight without compromising performance, battery life or data collection.

Collar and data management is achieved through Followit GEO™, a web-based application, allowing for two-way communication with Iridium and GSM/GPRS collars. This program allows the user to view location data, adjust position and VHF schedules, create virtual fencing, trigger the remote drop-off and monitor battery performance. Followit GEO™ is accessible from all web-enabled devices including personal computers, tablets or smartphones.

Tellus GPS collars

The Tellus line of GPS collars incorporates the most recent technological advances resulting in reduced collar weight, operational flexibility, increased performance and improved reliability. These collars have an exceptional track record of providing accurate GPS positions and battery performance in harsh environments in over 10 years of production.

A highly flexible design allows for upgrades or additional options resulting in collars that are suitable for a number of different species, applications, and budgets. The most basic collar available is the Tellus Basic GPS collar which includes on-board data storage and UHF (radio) download capability.



Collar options include a built-in VHF transmitter which can be used for tracking/locating. This VHF beacon also has the functionality of switching to recovery mode when the battery power is low or if the collar has entered mortality mode. Additional information including temperature, mortality alerts, and activity data are stored on-board with the position data and can be downloaded upon

retrieval. A computer software package, Tellus Project Manager (TPM), is used by the customer to program collar functions as well as for downloading data from store-on-board collars.



The Tellus collar design

Tellus GPS products still have the best features of earlier designs but have also evolved to accommodate advances in technology, customer requests, and suggestions for improvements. Design highlights include:

- An option for stronger collar material for predators or large herbivores
- Variable belting width from as narrow as 28 mm up to 60 mm
- Strong yet light electronic and battery cases benefiting from aluminum / fiberglass construction
- Battery units with drop-off (built-in release mechanism) that are interchangeable on the same electronic housing and easily replaced by the customer resulting in time and money savings (Tellus Small and Tellus Medium collars only)
- Efficient design including protected USB port, numeric LED display and a magnetically operated On/Off switch

The Tellus Basic key features

- Remote download in the field via UHF download
- Upgrade of most Tellus Basic store-on-board collars with remote data download options
- User designated GPS and radio beacon (VHF) schedules provides flexibility
- High number of positions in relation to battery capacity
- Unique small and remote controlled drop-off
- Temperature, movement and mortality sensors
- Stable digital VHF frequency transmitter in a wide temperature range

Upgrades and download options

The GSM (SMS/GPRS) download option can be used in areas where sufficient GSM cellular network coverage exists. If the collar is outside GSM coverage area the positions will be stored in the unit until the collar returns to GSM coverage. Positioning data is sent by e-mail and is available through an web-based positioning portal, Followit GEO™. The GSM option is bi-directional allowing the user to reset the GPS positioning program, activate the drop-off or change configuration schedule while the collar is on the animal. This option increases Tellus Basic collar weight by only 3 grams. The GSM option requires a monthly subscription fee.

The satellite download option utilizes the Iridium satellite system. This system uses a two-way e-mail communication procedure between the GPS collar and the user via a secure computer server. Key features include worldwide data download coverage, data upload reliability, and fast transfer rates. The GPS positions are forwarded to the user via e-mail and GPS positions can be taken anywhere and be delivered in just a few minutes without the use of specialized equipment. GPS collars can be reprogrammed or drop-off activated to adapt to changes in the project. This download option is a cost effective solution that should be considered for projects in remote areas. The satellite option requires a monthly subscription fee.



Information received from the collars

Although the collars have remote download functions, every position will also be stored on board. The memory capacity is sufficient enough for each collar and all data is recoverable even if the collar batteries have been completely depleted. The stored data includes date, time, altitude, latitude, longitude, activity data, mortality, ambient temperature, the number of satellites used, position accuracy (2D/3D), HDOP value and time to fix (TTF).

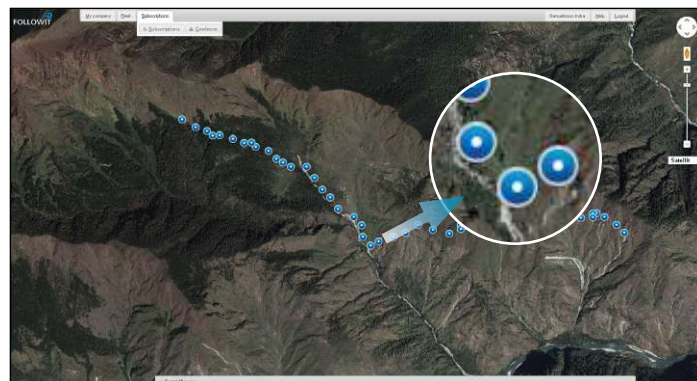
Getting started and technical support

When you receive your collar(s), it will need to be programmed ahead of deployment. The Tellus Project Manager (TPM) software is used to set parameters such as:

- Number of positions per day
- Drop-off
- VHF schedule
- Data upload schedule
- Mortality

A battery calculator can be requested and used to estimate expected collar life span based on user settings (e.g. number of positions and data uploads). The battery/drop-off unit can be replaced by the customer on all collars except for the Tellus Ultra Light / Light. The batteries for Tellus Small, Medium and Plus are interchangeable.

Our support and service center is available to answer questions, provide support and to receive feedback or suggestions.



**Used on more than 120 species in
over 75 countries!**



Product specifications

Output (all models)

	Tellus Micro	Ultra Light	Light	Small	Medium	Medium Plus	Large
GPS receiver 33 tracking + 99 acquisitions	✓	✓	✓	✓	✓	✓	✓
UHF download	✓	✓	✓	✓	✓	✓	✓
GSM/GPRS download	✓	✓	✓	✓	✓	✓	✓
IRIDIUM (satellite) download ¹	-	✓	✓	✓	✓	✓	✓
2-way communication ²	✓	✓	✓	✓	✓	✓	✓
Programmable by software TPM ³	✓	✓	✓	✓	✓	✓	✓
Virtual fence (geo-fence)	✓	✓	✓	✓	✓	✓	✓
Map projection WGS-84, RT90 or UTM	✓	✓	✓	✓	✓	✓	✓
VHF beacon (customer specified 138-230 MHz)	✓	✓	✓	✓	✓	✓	✓
Mortality sensor	✓	✓	✓	✓	✓	✓	✓
Activity sensor	✓	✓	✓	✓	✓	✓	✓
Recovery mode indicator	✓	✓	✓	✓	✓	✓	✓
Back-up battery	✓	✓	✓	✓	✓	✓	✓
Battery replaceable by customer ⁴	-	-	-	✓	✓	✓	✓
Temperature range of operation -30°C to +50°C	✓	✓	✓	✓	✓	✓	✓
Memory capacity > 80'000 positions	✓	✓	✓	✓	✓	✓	✓
Drop-off (optional) ⁵	✓	✓	✓	✓	✓	✓	✓
Reinforced belting included in the price	✓	✓	✓	✓	✓	✓	✓
Internal antennas	✓	✓	✓	✓	✓	✓	✓
Approximately number of positions-GSM/GPRS ⁶	<3'000	<7'500	<7'500	<17'000	<30'000	<45'000	<60'000
Approximately number of positions-Iridium ⁷	N/A	<5'000	<5'000	<12'000	<23'000	<35'000	<45'000
Collar weight (grams)	80-85	>215	>240	>600	>800	>980	>1000
Animal weight (kg) ⁸	>2.5	>6	>8	>24	>45	>50	>70
Belting width (mm)	20	28	30	40 / 50	50	50 / 60	50 / 60
Belting thickness (mm)	3	3.6	5	5 / 7.2	7.2	7.2 / 7.2	7.2 / 7.2
Belting length (mm)	150-250	250-500 ⁹	250-500 ⁹	350-850 ⁹	350-1350 ⁹	350-2000 ⁹	550-2200 ⁹
Unit dimensions (height, width, depth) (mm)	48x57x30	44x61x51	44x61x51	56x76x55	63x76x71	85x76x71	63x139x71

	Tellus Micro	Ultra Light	Light	Small	Medium	Medium Plus	Large
Date, Time, Latitude/Longitude or UTM, Altitude, 2D/3D, Number of satellites, H-DOP, TTF (time to fix), Activity, Temperature, Mortality notification, Battery voltage	✓	✓	✓	✓	✓	✓	✓

¹ Adds 3 g alt. 25 g depending on collar type.

² Flexible GPS-schedule changes and drop-off activation from website (Followit GEO™) on GSM/Iridium collars

³ TPM requires Microsoft Windows

⁴ Ultra Light/Light has to be sent to Followit for replacement

⁵ The drop-off can be activated remotely with the RCD-04, through website (Followit GEO™) or be pre-programmed

⁶ Max positions based on: Open land, one position every half hour, +20°C, one hour of VHF beacon/day and 7 positions/SMS (GSM download)

⁷ Max positions based on: Open land, one position every half hour, +20°C, one hour of VHF beacon/day and 11 positions/message

⁸ Depending on species

⁹ Adjustable by user ± 10%



Scan the QR-code to visit our website.

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