GPS PLUS Handheld Terminal



The GPS Plus Handheld Terminal provides the wireless radio interface between a PC and the GPS-Plus collar.

It is used to

- download GPS data sets from the GPS PLUS collar.
- download high resolution activity and temperature data sets from the GPS PLUS collar.
- download mortality data sets from the GPS PLUS collar.
- download proximity or additional sensor data from the GPS PLUS collar,
- download telemetry (status) information from the GPS PLUS collar,
- upload UTC time and date to the GPS PLUS collar,
- upload new GPS schedule to the GPS PLUS collar,
- upload new VHF beacon schedule to the GPS PLUS collar,
- upload virtual fence data and proximity schedule to the GPS PLUS collar,

in the field.

A built in GPS receiver gives you important information about your position in the field. With the assistance of an integrated electronic compass and the internal GPS receiver it is now very easy to find the tracked animal. The "Range Checker Mode" opens unbeatable support in finding the direction and distance to the collar. The GPS and compass information will be used to calculate and display azimuth and elevation (direction) and the distance with an accuracy of some meters to your collar.

The communication range is dependent on the receiver antenna gain, the humidity, the kind and density of the vegetation, the height above the ground of both the transmitter and the receiving system, the topography and the configuration between transmitting and receiving antenna. For that reasons the range can vary from several hundred meter to several kilometer. Under normal conditions, the range is several kilometer with a small handheld yagi antenna for the UHF version and some hundred meter for the VHF version.

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Specifications

Size 204 x 110 x 41 mm³ without antenna connector

Weight 550 g

Keyboard 21 keys membrane keypad

Display 128 x 64 Pixel Matrix display with LED background illumination

Memory capacity 512 MByte (data storage for up to 512 collars),

Up to 8 GByte with extended memory

315520 Temperature and activity data sets per collar

131072 GPS data sets

2 Mbyte additional sensor memory per collar, e.g. for proximity data

Battery Internal rechargeable Li-Ion battery 3.6 Volt / 6000 Ah

Charging time less than 8 hours typ.

Operating time with Dependent on operation mode

charged battery (70 hours GPS mode, 75 hour receive mode)

External power supply Only needed for charging the battery 12 Volt, 800 mA max.

Interface Serial Interface 115200 baud 8N1 (to be connected to LM1 Link

Manager), USB up to 8 MBit/s

Ingress protection IP65

GPS Receiver Internal GPS receiver

UHF frequency 420 - 460 MHz or 800 - 950 MHz (factory setting), UHF Version only

VHF frequency 130 - 300 MHz (factory setting), VHF Version only

Output power UHF Version: 0.1 - 1 W (factory setting)

VHF Version: 1 - 10 mW (factory setting)

Modulation DFM

Antenna impedance 50 Ohm

Compass module Built in electronic compass with tilt compensation,

resolution 1 mgauss, range 1 gauss

Operating temperature: 0°C...+50°C (charging), -20°C...+60°C (non charging)

Storage temperature: -40°C...+80°C

