

Ornithology and Telemetry Applications

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OrniTrack-50 - solar powered GPS-GSM tracker

This transmitter is suitable for large birds weighing over 1,500 grams.

Key characteristics:

- Housing: backpack design, aerodynamic, strong and waterproof, can be made in one of four available colours: white, grey, black or brown
- No external antennas
- Size: weights 50 grams, dimensions 76×38×24 mm
- GPS receiver: high sensitivity 99 channel module
- GSM transceiver: quad-band 850/900/1800/1900 (2G module), or hexaband 800/850/900/1800/1900/2100 (3G module)
- Internal battery: Lithium-Polymer battery with under- and over-charge protection
- Fully charged battery is sufficient for logging 5,000 positions without additional recharge (under optimal GPS satellite view and not exceeding 50 GPRS data upload sessions in good network coverage)
- Solar charger: high efficiency 22%
- GPS logging intervals: from 1 second to 48 hours
- Data storage: 4 MB flash memory capable of storing over 60,000 records (2G model), or 128 MB capable of storing nearly 2,000,000 records (3G model)
- Data upload: via GSM/GPRS/3G network
- GSM/GPRS network connection interval: from 10 minutes to 96 hours
- SMS message with 10 GPS positions when GPRS/3G network is not available
- · Logged data are stored in memory if phone network is unavailable
- Geofences: 2 zones with separate sets of parameters. Zones defined by user by multiple rectangles (up to 10 per zone)
- High frequency (up to 50 Hz) sensor (accelerometer, magnetometer, temperature, light intensity) data collection on a separate schedule
- Day & night sensing
- Operational temperature: from -20 to +70 °C
- · Barometric pressure sensor (optional)
- Control: user remotely controls GPS & GSM schedules and geofence settings
- Main data record: UTC date & time, GPS position, GPS altitude, speed, direction, HDOP, battery voltage, battery charging current, instant acceleration (3 axes), ambient light intensity, temperature, magnetic field strength (3 axes)
- Transmitter firmware update over the air (OTA)

Pricing

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