

# User Manual – Theft Tracker **Hivemind**

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## System components:

- **Satellite theft tracker** (see fig.1).
- Plastic mounting plate
- 4 AAA lithium or NiMH batteries (inside tracker)

## Getting Started

1. Before installing in the field, test your tracker at home to make sure location data gets to the website.

### 2. Tracker mounting:

- Locate the tracker underneath a **plastic hive lid** using the mounting plate (fig.1).  
**Do not mount under a metal lid as this will block the communication signals.**
- The **'Spot' logo must be facing the sky**. Even if mounted under a hive lid, it must still face the sky.

One way is to stick the mount plate underneath the hive lid using double-sided tape. The tracker can be snapped into the mount plate either way up, so ensure the logo faces the sky.

- If a **metal hive strap** is used, ensure that it does not cover the tracker.

3. **Turn on tracker:** Press and hold the power button (fig.2) until both lights alternately flash green several times. Now it is on. The device will try to connect to the GPS satellite for 20 minutes and the GPS light will blink green. If the GPS light blinks red it needs a better view of the sky.

(Note: if you later wish to save battery life and **turn off the tracker:** Press and hold the power button for 4 seconds until only the power button flashes. It will report one last location and then turn itself off and stop reporting.)



Fig. 1. Satellite tracker mounting plate



Fig. 2. Power button

4. **Login:** Now browse to [hivemind.co.nz/login](http://hivemind.co.nz/login) and log in (first time you will need to create a password). Click on "Location history" to see the location of your hive tracker. If your tracker is new you may need to click a large "Activate" button: this will activate it within one day.

## Maintenance

**Tracker batteries:** Remove the battery compartment cover (4 screws) and install four AAA **lithium or NiMH** batteries as shown here. Fully tighten screws to maintain waterproof seal. Only lithium or NiMH batteries are suitable: other batteries will not operate reliably.

## Specifications – Tracker

**Dimensions:** 68 x 51 x 24 mm

**Weather proofing:** IP67: waterproof up to a depth of 1m for 30 minutes

**Operating temperature:** -33 to 60 °C

**Battery life:** up to 1 a year depending on frequency of movement; replaceable with 4 x AAA 1.5V **Lithium or NiMH**.

**Location:** Location (via satellite) accurate to within 10m radius

**Report frequency:** every 10 to 30 minutes where sky is visible.

## Regulatory Compliance

The satellite transmitter complies assuming a minimum operating distance of 20cm:

- CE (Europe Aus/NZ): ETSI EN 301 441 V1.1.1, ETSI EN301 489-1 V1.8.1(2008-04), ETSI EN 301 489-20 V1.2.1(2002-11)
- US FCC CFR47 parts 2, 15, and 25, UL913 intrinsically safe for Class I Division 1 Groups A-D
- Canada ICES-003
- EN60950-1:2006 Part 1; 1.7.13 notice: "Caution! Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to their instructions."

FCC Notice: This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Device contains SM220 FCC ID: U90-SM220



## Warranty

1. Purchased product warranty is 12 months from the date of purchase, day / mth / year as follows. Repair or replacement will be made to any faulty product returned to the purchasing location within that time. Hivemind will bear the cost of repair unless the product has been mistreated or operated outside specification. Hivemind will pay transit costs for only the transit of the product between the purchasing location and the repair facility.
2. Leased products have a perpetual warranty as follows. Hivemind will cover repair and shipping costs for damage from ordinary wear and tear. If the product has been mistreated or operated outside specification then the customer is liable to pay for the cost of the product and return shipping.

Other details of warranty are specified in the Hivemind Terms and Conditions at <http://hivemind.co.nz/agreement>.