

FD1 BEACON - R1+ RECEIVER

Lost crash-resistant drone tracker / locator

NAUTASIGNALS

tinyLOC

UAVs are increasing their range everyday, not only the fixed-wing but also hobby drones. There is always the risk to lose your drone in an **emergency landing or a crash**.

The main goal for a drone tracker is to find it in any situation, even if **it has been stolen** by an opportunist rescuer.

KEY FEATURES

Tinyloc offers the best professional lost drone and UAV emergency location systems. The tracker transmits a distress signal in the form of a beacon, allowing a drone to be found up to few km **even with no GPS, no mobile coverage** or in **indoor hidden places**. Aircraft aluminium enclosure **crash resistance tested**.



Don't rely on GPS

Stolen drones



Work out of mobile coverage

Where other locators fail, our technology guarantees recovery.

Approved by the greatest manufacturers in the world.

UAVs also crash, BE READY !!!

Lightweight radio location beacon compatible with the R1+ receiver.

- No monthly fee
- Rugged aircraft aluminium enclosure, crash resistance tested
- Independent battery included that does not rely on the UAV battery in hard crash situations
- Low battery detector will warn us 2 days before the battery is fully drained, with a double tone
- 20 days continuous battery lifetime. If you stop it with the magnetic switch after each flight, the lifetime is significantly extended
- The transmitter has a LED light that lets you know when it is operating. This system can be useful in night searches
- Most powerful legal transmitter currently existing on the market
- Low frequency signal that does not affect drone communications
- Magnetic switch included for turning on/off the beacon without opening the battery cover

Crash resistant



In order to prevent your UAV from being stolen, you can fit and hide the tracker inside the drone, placing it near the enclosure, and then switch it on/off with the magnet from outside the drone.



FD1 Tracker Technical data	
Power output (ERP)	10 mW
Frequency range	433.050 - 434.790 MHz. Regulatory compliance
T. Operating	-15°C a 50°C
T. Storage	-20°C a 70°C
Protection Index	IP 67 (Waterproof)
Life time	20 days, 2 last days with low battery mode
Tracking Range	5 to 25 km – tracking from ground. 25 to 40 km – tracking from 3-4 m high 40 to 80 km – tracking from higher
Power supply	3 V / 1 Battery 1/3N
Weight battery included	8.3 g
Body dimensions	23mm long / 13,5mm diameter
Antenna length	26 cm Could be shortened assuming range decrease
Magnetic switch	Magnet included to switch on/off

RECEIVER R1+ UAV

Powerful receiver with **2,790 channels and 100 memories**, so you can use one receiver to locate **several drones**.

This is an affordable receiver with great features and portability.

- High performance, easy to deal with, intuitive. The tracking receiver turns the electromagnetic signal from the tracker into an acoustic sound and digital bar on the screen, to be used to identify the direction of the signal where the object carrying the tracker is located. It makes the search for your drone accurate and fast
- EASY TO USE in any field
- Internal powerful foldable antenna that provides the highest sensitivity and accuracy
- Automatic display LIGHTING (with outdoor sensor light)
- DDC: It has an effective system for detecting the right direction (DDC), through numeric values which help find the precise direction
- AUTOMATIC CALIBRATION: The receiver automatically calibrates the tracker, detecting any small variation in its frequency and increasing its performance



Receiver R1+ Technical data

Power source	6 volts (4x 1,5 V "AA") Do not use rechargeable batteries
Receiver sensitivity	-146 dBm
Frequency range	430.000 - 439.999 MHz. Regulatory compliance
Channels and memories	2790 channels / 100 memories
Life time	25-50 Hours. Infinite when connected to car lighter
Operating temperature	-15° to 50°C (-5° to 122°F)
Storage temperature	-20° to 70°C (-4° to 158°F)
Index of protection	IP 20
Weight batteries included	520 g
Dimensions	245x66.5x40 mm
Connectors	Mini-USB, earphones 3.5mm, SMA external antenna
Accuracy	5 cm maximum accuracy