

Further information

Battery and battery life

The PowerUnit has a **3.7V 5AH LiPo rechargeable battery**.

• **Low battery indicator:**

When the battery is low, the PWR led flashes red.

• **Recharging the battery:**

- Connect the USB port of the power cable (supplied) to a USB socket. Unscrew the sealing cap from CHG port and connect the power cable to the CHG port.
- It is recommended to make complete charges (charging time: 10h).
- When the battery is fully charged, the device has a battery life of 50h.
- The PowerUnit has an automatic shutdown function (after 12h), to save the battery.

Technical sheet

- Weight: 700 g
- Dimensions PowerUnit: 75 x 140 x 25 mm
- Dimensions SpaceUnit: Diameter 65 cm
- Compatibility: FxChip / FxChip BLE
- Transmitter with 2 modes: Tx / Mic
- Transmitter with 3 codes: START / LAP / FINISH
- Detection field: 6 m
- Minimum time between 2 transmitters: 0,7 s
- Accuracy: 2/100 of a second
- Battery: 3.7V 5AH LiPo rechargeable battery
- Battery life: 50 h
- Water resistance: IP67
- Operating temperatures: -20°C to +50°C

Technical support

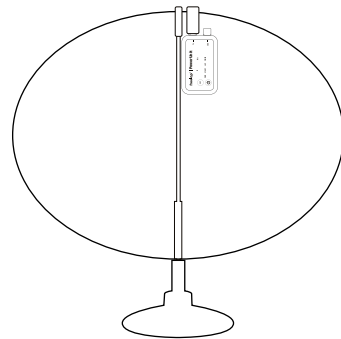
Find our FAQ (Frequently Asked Questions), as well as other manuals and user guides, on our website at: www.freelap.com/support

If you cannot find the answers to your questions, please contact your Freelap dealer. Find the list of Freelap dealers at: www.freelap.com/freelap-contact

After-sales service & warranty

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freedom of timing

PowerUnit & SpaceUnit



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About the PowerUnit & SpaceUnit

PowerUnit is a versatile transmitter of Freelap timing system. It can be quickly set as START, LAP or FINISH transmitter. It emits a magnetic field automatically detected by your transponder during its passage. PowerUnit is associated with an antenna flag, the SpaceUnit, which provides a wider detection zone (6m).

Use of the PowerUnit & SpaceUnit

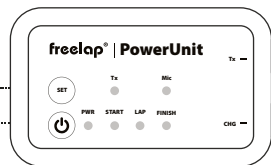
1. Prerequisites

The PowerUnit & SpaceUnit transmitter is a part of the Freelap timing system. To get your timing data, you must **attach the transponder to the elastic band of the rider's mask** and **use the MyFreelap app** (cf corresponding user manuals).

2. Get to know the PowerUnit

Set button: To select Tx mode

Tx / Mic Leds : Indicate on which mode the transmitter is set



Tx: To connect the PowerUnit to the Tx Flag

CHG port: To charge the device

Power button: To turn on/off the transmitter, and to select the desired code

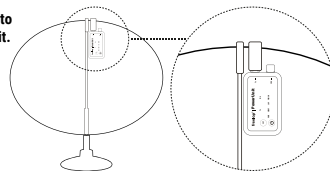
PWR led: Indicates if the device is on (green) or if the battery is low (red)

START / LAP / FINISH leds: Indicate on which code the transmitter is set

3. Install the PowerUnit & SpaceUnit

- Take the SpaceUnit out of its packaging, the ellipse will take shape itself.
- **Join the 2 central axes**, fitting them together to stiffen the structure.

- **Connect the SpaceUnit to the Tx port of the PowerUnit.**



- Insert the SpaceUnit into its base or Mx Pic (and plant the Mx Pic in the ground).

4. Turn on and set the PowerUnit

- **Press 2s on the Power button to turn on the transmitter.**

- **Press on the Set button to select the Tx mode.** Each press of the Set button switches you to the next mode. The LED of the Tx mode must flash.

- Then, **make short presses on the Power button to select the desired code** (START = start transmitter / LAP = intermediate transmitter / FINISH = finish transmitter). Each short press of the Power button switches you to the next code. The led of the selected code flashes.

5. Place the PowerUnit & SpaceUnit on the track

- Place the transmitter on the ground **on the side and parallel to the track**. The **Freelap logo must face the track**.
- It must be placed **at max. 6m of the rider's passage** (so that the transponder of the rider crosses the detection field of the transmitter)

⚠ Placing the transmitter at any other location or position may result in inaccuracies or non-detection.

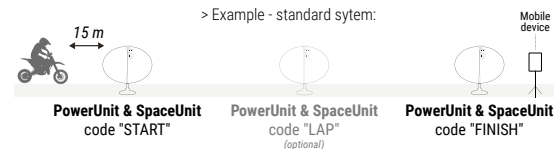
6. Associate it with other Freelap transmitters

To make Freelap timing system work, **you must have a transmitter set with the code FINISH on your track.**

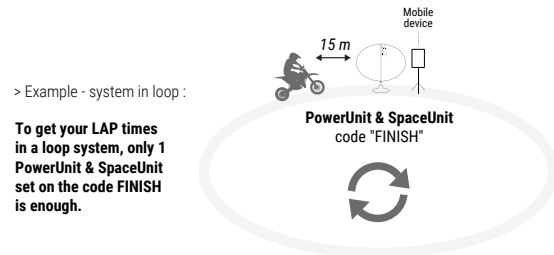
PowerUnit is a versatile transmitter. So, **you can use several PowerUnit transmitters on your track** (set as START, LAP or FINISH transmitter).

You can also use it in combination with other Freelap transmitters (e.g. you can use a Mx Start as START transmitter).

- ⚠ **The transmitters must be minimum 0.7 second apart.**
- **Your track must contain a maximum of 11 transmitters.**
- **For an optimal accuracy, take the start 15m before the 1st transmitter.**



> Example - standard system:



> Example - system in loop :

To get your LAP times in a loop system, only 1 PowerUnit & SpaceUnit set on the code FINISH is enough.