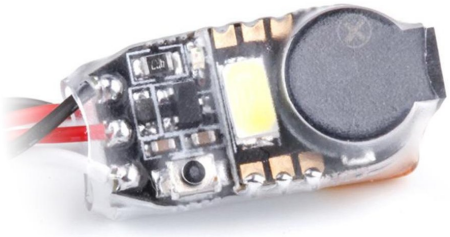
Finder V1.0

Buzzer with LED and built-in battery
Flywoo · User manual



Read the entire manual before installation. The product contains a built-in battery and emits a loud 100 dB sound.

www.rotorama.com

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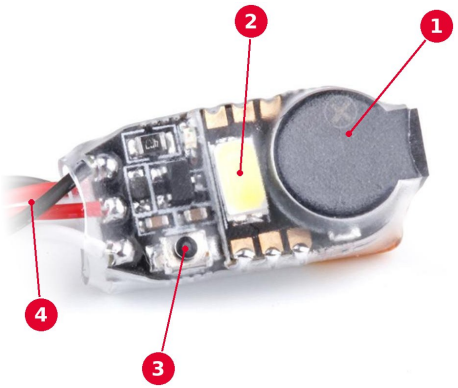
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1. Product description

1.1 What it is for

Flywoo Finder V1.0 is a small buzzer (beeper) with an LED and its own built-in battery, designed for FPV drones with a flight controller (FC) running Betaflight or Cleanflight firmware. In normal operation it works as a conventional active buzzer – it beeps in sync with the flight controller, so it can be controlled through Betaflight and switched on from your radio transmitter.

Its main advantage is that it **keeps working even after the flight battery is disconnected**. If power is lost (typically when the drone's battery is ejected in a crash), the Finder automatically sounds a loud 100 dB alarm after 30 seconds and lights up a white LED. This makes it much easier to find the drone in tall grass, in bushes or in the dark. The built-in battery is charged from the flight controller during operation, so the Finder requires no maintenance.



Flywoo Finder V1.0 – top view

1.2 Specifications and package contents

Product designation	Flywoo Finder V1.0 (manufacturer code FINBU01)
Volume	100 dB
Input voltage	5 V (from the flight controller)
Dimensions	21 × 11 × 9.5 mm
Weight	2.7 g
Cable length	10 cm
Compatibility	flight controllers running Betaflight (BF) and Cleanflight (CF) firmware
Package contents	1× Finder V1.0 with 10 cm cable

Not included	flight controller, drone, flight battery, soldering supplies, mounting material

1.3 Parts description

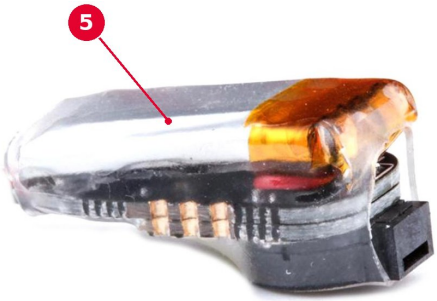
① **Buzzer** – source of the 100 dB acoustic signal.

② **White LED** – lights up during the alarm after power loss.

③ **Button** – hold for more than 2 seconds to silence the alarm.

④ **10 cm cable** with three wires (red, black, white) for connection to the flight controller.

⑤ **Built-in battery** on the underside – powers the Finder after power from the flight controller is lost.



Underside with the built-in battery ⑤

The board also carries a **red LED** that indicates charging of the built-in battery and the countdown after power loss (see chapter 2.4).

2. Connection and use

2.1 Safety instructions

- The buzzer emits a sound of **100 dB**. Do not hold it close to your ear and do not put it to your ear, not even when testing – this may damage your hearing.
- The Finder contains a **built-in battery**. Do not puncture, crush or disassemble it, do not short-circuit its terminals and do not expose it to high temperatures, fire or moisture. If the battery pouch is swollen or damaged, stop using the Finder.
- Solder only with the drone's **flight battery disconnected**. Improper soldering may damage both the Finder and the flight controller.
- The Finder is not a toy. Keep it out of the reach of children – small parts and the battery present a choking and swallowing hazard.
- After a crash and before any handling of the drone, disconnect the flight battery first – the propellers may start spinning unexpectedly.

2.2 Mounting and connecting to the flight controller

The Finder connects to the **buzzer interface of the flight controller** (pads marked BZ+ and BZ−) and is compatible with all flight controllers running Betaflight and Cleanflight firmware. The flight controller powers the Finder and charges its built-in battery (5 V) through the same connection.

The cable has three wires – **red, black and white**. The manufacturer does not explicitly state their assignment in the available documentation. The following wiring is used in practice:

Wire	Pad on the flight controller
white	BZ− (buzzer signal)
black	GND (ground)
red	BZ+ or another 5 V pad

※ Before soldering, check the pad markings in the wiring diagram of your flight controller. If you are not sure about the wiring, contact your retailer.

① Disconnect the flight battery and the USB cable, if connected.

② Solder the wires to the corresponding pads of the flight controller. The joints must be clean and must not touch neighbouring pads.

③ Position the Finder so that the **buzzer opening is not covered**, the white LED is visible from outside and the **button remains accessible**. Secure it with double-sided tape or a cable tie so that it cannot come loose in flight and the cable cannot reach the propellers.

④ Connect the flight battery and check that the red LED has lit up (charging in progress).

2.3 Betaflight settings

In conventional buzzer mode the Finder behaves like any active buzzer connected to the flight controller. It is configured in Betaflight Configurator:

- On the *Modes* tab, assign the *BEEPER* mode to a switch on your radio – you can then turn the Finder on from the radio at any time, e.g. when searching for the drone, as long as the drone is still powered.
- On the *Configuration* tab, in the *Beeper Configuration* section, select the events at which the buzzer should beep (e.g. Arm (motors enabled), Disarm (motors disabled), RX signal loss, low battery voltage).
- The procedure in Cleanflight is similar.

2.4 Operating modes and LED indication

The Finder has two operating modes:

Mode 1 – conventional buzzer. While the flight controller is powered, the Finder works as a conventional active buzzer synchronised with the flight controller.

Mode 2 – alarm after power loss. If the Finder is correctly connected to the flight controller and the flight battery is disconnected in flight, the Finder automatically sounds a 100 dB alarm **30 seconds** after the power loss and lights up the **white LED**.

LED status	Meaning
red on	the built-in battery is being charged from the flight controller
red off (while powered)	the built-in battery is charged
red flashing	power from the flight controller has been interrupted, the 30-second waiting time is running
white on + sound	alarm after power loss (mode 2)

2.5 Silencing the alarm and everyday use

To silence the alarm, **hold button ③ for more than 2 seconds**.

- The Finder cannot tell a crash from a normal battery disconnection. **After every flight**, therefore, switch the Finder off with the button after disconnecting the flight battery – otherwise the alarm will start after 30 seconds.
- When searching for a crashed drone, follow the sound and, in low light, also the white LED. As long as the drone is powered, you can also turn the buzzer on with the *BEEPER* switch on your radio.
- Once you have found the drone, disconnect the flight battery (if it is still connected) and silence the alarm with the button.

2.6 Care, storage and troubleshooting

- The built-in battery is charged automatically every time the drone is powered up. If the drone is not used for a longer period, power it up occasionally so that the Finder's battery is recharged.
- Protect the Finder from moisture, dust and impacts. After a crash, check the cable, the solder joints and the battery pouch.
- Store in a dry place at room temperature.

Problem	Possible cause and solution
After connecting the battery, the red LED does not light and there is no beep	Check the wiring and solder joints according to chapter 2.2.
The buzzer does not beep on Arm / Disarm or from the switch	Check the settings on the *Modes* and *Configuration* tabs (chapter 2.3) and the connection to the BZ+ / BZ− pads.
The alarm does not start after the battery is disconnected	The built-in battery is not charged – leave the drone powered for a longer time until the red LED goes out. Make sure the alarm has not been silenced with the button.
The alarm starts after every flight	This is normal behaviour – after disconnecting the battery, switch the Finder off with the button (chapter 2.5).

3. Information for the EU and Czech Market

3.1 Importer and responsible person in the EU

The product is placed on the European Union market by the importer stated below, who is at the same time the responsible person within the meaning of Article 16 of Regulation (EU) 2023/988 of the European Parliament and of the Council on general product safety (GPSR).

Importer / responsible person in the EU	Rotorama, s.r.o.
Company ID (IČO)	051 57 692
VAT ID (DIČ)	CZ05157692
Registered office	Okrajová 1351, 674 01 Třebíč, Czech Republic
E-mail	info@rotorama.cz
Phone	+420 252 252 098
Website	www.rotorama.com

3.2 Disposal of electrical equipment and batteries



- The crossed-out wheeled bin symbol on the product, its packaging or in the documentation means that at the end of its service life the product **must not be disposed of together with mixed municipal waste**.
- Hand it over at a take-back point for electrical equipment – at a collection yard, at a take-back point of a collective system, or at the retailer when purchasing a new equivalent product. Take-back is free of charge for the end user.
- The product contains a built-in rechargeable battery. Where possible, hand it over together with the device – do not dispose of the battery in mixed waste or in fire.
- The obligations under Act No. 542/2020 Coll., on end-of-life products, are fulfilled by the importer through a collective take-back system.
- Proper disposal helps prevent negative impacts on the environment and human health and contributes to the reuse of secondary raw materials.

Through its contractual partner **ASEKOL a.s.**, the company ensures the take-back of waste electrical equipment from households and the separate collection of waste electrical equipment, batteries and accumulators in accordance with the applicable legislation. The customer is entitled to hand over old electrical equipment or a battery or accumulator at any collection point of the above contractual partner. The addresses of these take-back points are listed at www.asekol.cz, www.ecobat.cz and also https://visoh2.mzp.cz/RegistrMistZO/RegistrMistZOPublic/MapaMistZpetOdberu.

4. Warranty and rights arising from defective performance

The rights and obligations of the contracting parties are governed by Czech law, in particular by Act No. 89/2012 Coll., the Civil Code, and Act No. 634/1992 Coll., on consumer protection.

- The seller is liable to the buyer for the product being free of defects on receipt. If the buyer is a consumer, a defect may be notified **within two years of receipt** of the product (Section 2165 of the Civil Code).
- If a defect appears within **one year** of receipt, the product is deemed to have been defective already at the time of receipt (Section 2161(5) of the Civil Code).
- When purchasing online, a consumer has the right to **withdraw from the contract within 14 days** of receiving the goods without giving a reason (Section 1829 of the Civil Code).
- Claims should be made with the retailer from whom you purchased the product. The importer's contact details are given in Chapter 3.1.
- The competent body for out-of-court settlement of consumer disputes is the **Czech Trade Inspection Authority**, Štěpánská 796/44, 110 00 Prague 1, www.coi.cz.