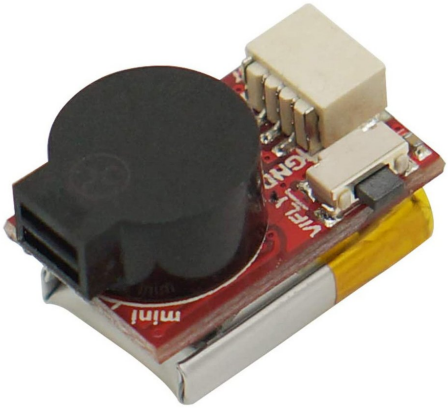
Finder Mini

VIFLY Finder Mini – buzzer with built-in battery
for FPV drones and RC models · User manual



Read the entire manual before installation and first use, and keep it for future reference.

Rotorama, s.r.o. · www.rotorama.com

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1. Safety instructions

1.1 General rules

- Always wire and install the buzzer **with the main battery of the model disconnected**.
- Only solder if you have suitable equipment and experience. Before connecting the battery for the first time, check that the wires are connected to the correct pads – swapped wires can damage the buzzer as well as the flight controller or receiver.
- The input voltage of the buzzer is **4.5–7.4 V**. Never connect the buzzer directly to the main battery voltage (VBAT) or to any other output with a higher voltage.
- The buzzer is **up to 100 dB** loud. Do not hold it close to your ears and do not trigger it right next to people or animals.
- This product is not a toy. Keep it out of the reach of children – it contains small parts and a battery.
- Protect the product from water, moisture and mechanical damage. Do not use a damaged product.

1.2 Built-in LiPo battery

The buzzer contains a built-in 40 mAh LiPo battery that powers the alarm after the main battery of the model has been disconnected.

- Do not puncture, deform or short-circuit the battery, and do not expose it to high temperatures, direct sunlight or fire.
- If the battery is swollen, damaged or overheating, stop using the product and hand it in for disposal (Chapter 8.3).
- The battery is permanently attached to the buzzer. Do not disassemble the product and do not separate the battery from it.
- The battery is charged only from the model via the connection wires (Chapter 5.5). Do not connect it to any other charger.
- Do not leave the model with the buzzer in a closed vehicle in the sun or near sources of heat.

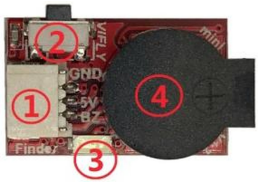
2. Product description

2.1 What it is for

The VIFLY Finder Mini is a very small and light buzzer with a built-in battery, designed for compact builds and small drones. It helps you find your model after a crash or an emergency landing.

With the main battery connected, it works as a standard but much louder flight controller buzzer that can be triggered from the radio. When the main battery is disconnected or loses power, it starts beeping automatically and flashes blue. It is compatible with FPV drones (connected to the flight controller) and with RC airplanes (connected to the receiver).

2.2 Parts



Parts (manufacturer's illustration)

① Control cable connector (GND, 5V, BZ) · ② Disarm button

③ LED · ④ Buzzer

2.3 Specifications

Size (L × W × H)	19 × 11 × 12 mm
Weight	2.7 g
Volume	up to 100 dB
Alarm working time	up to 7 hours
Charging time	1 h 30 min
Built-in battery	LiPo, 40 mAh
Input voltage	4.5–7.4 V
Light sensor	no

2.4 Package contents

1× VIFLY Finder Mini buzzer and the manufacturer's printed manual (English). Product designation: **VIFLY Finder Mini**.

Not included: the main battery of the model, a flight controller or receiver, and mounting material (double-sided tape, cable ties, heat shrink tubing).

3. Wiring and installation

3.1 Before wiring

The buzzer is connected to the model with three wires: **GND** (ground), **5V** (power) and **BZ** (control signal). The pin designations are printed on the board next to the connector. Disconnect the main battery before wiring and check the documentation of your flight controller or receiver for the location of the relevant pads or pins.



GND, 5V and BZ pins

3.2 Wire connections

On an FPV drone, connect the buzzer to the buzzer pads of the flight controller; on an RC airplane without a flight controller, connect it to a free receiver channel with a PWM output:

Buzzer	Flight controller (FC)	RC model receiver
GND	GND	GND (−)
5V	BZ+ (5V)	VCC (+)
BZ	BZ− (buzzer pad)	PWM (channel signal)

3.3 Mounting on the model

- Do not cover the buzzer opening with tape, heat shrink or the frame – a covered buzzer is considerably quieter. If possible, the LED should be visible from the outside after a crash.
- Mount the buzzer firmly (e.g. with double-sided tape or a cable tie away from the buzzer opening) so that it does not tear off in a crash. Route the wires away from the propellers and sharp frame edges.
- The disarm button does not need to be easily accessible – the alarm can also be disarmed by connecting the main battery (Chapter 5.4).

4. Control from the radio

4.1 Drone with a flight controller (Betaflight)

With the main battery connected, the buzzer behaves like a standard flight controller buzzer. It therefore beeps on all events configured on the flight controller (for example signal loss or low voltage) and can be triggered with a switch on the radio.

- In Betaflight Configurator, open the *Modes* tab and assign the *BEEPER* mode to a switch on your radio.
- Save the changes and test the function on the ground – **with the propellers removed** – by flipping the switch.
- Which events the buzzer signals is set in Betaflight in the buzzer settings (*Beeper*).

4.2 RC model with a PWM receiver

In your radio, assign the channel the buzzer is connected to to a free switch. The manufacturer does not specify the channel positions at which the buzzer is triggered – test the function on the ground by moving the switch between its end positions.

5. Operation

5.1 Activation

The buzzer is activated automatically as soon as you connect the main battery to the model.

5.2 Triggering the alarm manually

When the main battery is connected, the VIFLY Finder Mini works as a standard buzzer, only much louder. You trigger it from the radio (Chapter 4).

5.3 Automatic alarm

If the main battery is disconnected (for example ejected in a crash) or loses power, the buzzer starts an alarm powered by its own battery and flashes bright blue. Alarm pattern:

Time since start	Alarm behaviour
first 40 s	low volume
40 s to 0.5 h	full volume every 5 s
0.5 h to 1 h	full volume every 10 s
after 1 h	full volume every 20 s

The alarm lasts up to 7 hours.

5.4 Disarming the alarm

When you finish flying and disconnect the main battery, disarm the buzzer, otherwise it will keep beeping. Successful disarming is confirmed by **3 beeps**. There are two options:

① **With the button:** disconnect the main battery, hold the disarm button on the buzzer for 1–5 seconds, then release it.

② **With the main battery:** disconnect the main battery, connect it again for 3–6 seconds and disconnect it again.

※ A buzzer that has not been disarmed keeps beeping until its built-in battery is depleted.

5.5 Charging the built-in battery

The built-in battery charges automatically whenever the main battery is connected to the model. The charging time is 1 h 30 min. After a longer break from flying, keep in mind that the full alarm working time is only available once the battery has been charged.

6. Finding a lost model

- Start searching as soon as possible. The alarm beeps most often during the first hour; later the intervals between beeps get longer.
- Go to the spot where you last saw the model or where the FPV goggle recording ended, then stop and listen.
- For the first 40 seconds the buzzer beeps only quietly – full volume starts afterwards.
- At dusk and in the dark, look for the blue flashing LED.
- If the main battery stays connected and powered in the model, the automatic alarm does not start. The buzzer then beeps according to the flight controller settings (e.g. on signal loss), and you can trigger it from the radio (Chapter 4) if the model is within signal range.
- Disarm the buzzer after you have found the model (Chapter 5.4).

7. Maintenance and troubleshooting

7.1 Maintenance and storage

- **Charge the buzzer at least once every 3 months** to prevent over-discharge of the built-in battery. Simply connect the main battery of the model for the charging time (Chapter 5.5).
- Disarm the buzzer before storing the model.
- Store in a dry place, away from direct sunlight and sources of heat.
- After a crash, check the buzzer, connector, wires and battery for damage.

7.2 Troubleshooting

Problem	Possible cause and solution
The buzzer does not respond to the radio switch	Check the 5V and BZ wiring (Chapter 3) and the assignment of the *BEEPER* mode or channel to the switch (Chapter 4).
No beeping after the main battery is disconnected	The built-in battery is depleted. Connect the main battery and let it charge (1 h 30 min).
The alarm cannot be disarmed	Follow the procedure and timing in Chapter 5.4 – hold the button for 1–5 s, connect the battery for 3–6 s. The main battery must be disconnected at the start.
The buzzer beeps with the battery connected	The flight controller is signalling an event (e.g. signal loss or low voltage). Check the radio and the buzzer settings in Betaflight.
The alarm is quiet at first	The alarm is intentionally quiet for the first 40 s, then it beeps at full volume (Chapter 5.3).
The alarm is weak even at full volume	Check that the buzzer opening is not covered by tape, heat shrink or the frame.

8. Information for the EU and Czech Market

8.1 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

8.2 Product conformity

CE

- The product bears the **CE** marking and complies with the requirements of the applicable European Union harmonisation legislation.
- A copy of the **EU Declaration of Conformity** is available from the importer at the address stated above or at the e-mail address info@rotorama.cz.
- **Product identification:** the type designation (VIFLY Finder Mini) is given on the product packaging; the printed circuit board bears the VIFLY and mini markings.

8.3 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.

9. 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 8.1.
- 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.