VIFLY Finder V2

Lost drone finder beeper
with built-in battery



Read this manual carefully before installation and use, in particular the safety instructions in Chapter 2.

www.rotorama.com

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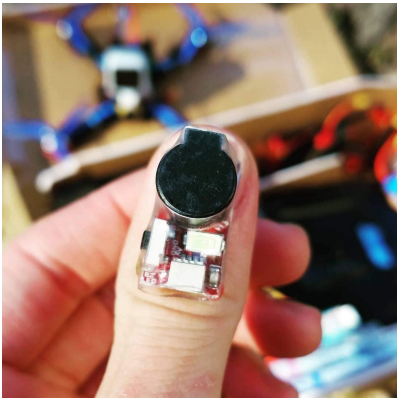
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1. Product description

1.1 What it is for

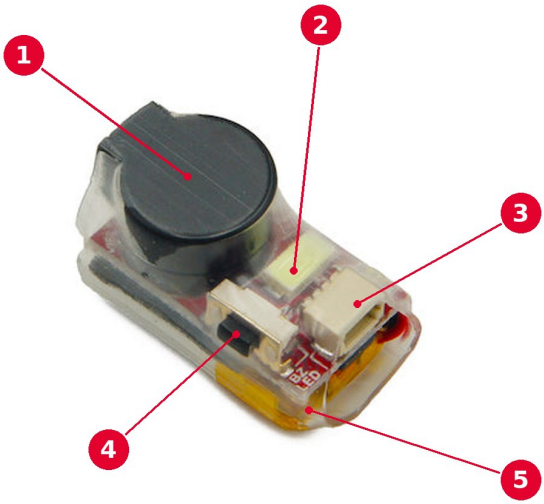
VIFLY Finder V2 is a stand-alone beeper (buzzer) with its own built-in battery, intended primarily for locating a crashed or lost FPV drone or RC model. It connects to the flight controller (FC) of the drone or to the receiver of an RC model and is recharged from them during flight. Thanks to its own battery, it can keep beeping even after the main battery has been disconnected or ejected in a crash.

The beeper can be activated by a switch on the radio transmitter (via the buzzer function of the flight controller), by a PWM channel from the receiver, or it starts by itself after the main battery is disconnected. The built-in light sensor controls the flashing of the LED – in the dark the beeper flashes as well as beeps. At night the beeper automatically enters sleep mode to save its battery and avoid disturbing the surroundings.



VIFLY Finder V2 – view of the beeper with LED and connector

1.2 Parts



Main parts of the beeper

① Beeper (buzzer)
② LED – flashes in the dark, controlled by the light sensor
③ Connector for the 3-wire connection cable
④ Button for silencing the beeper
⑤ Built-in Li-Po battery

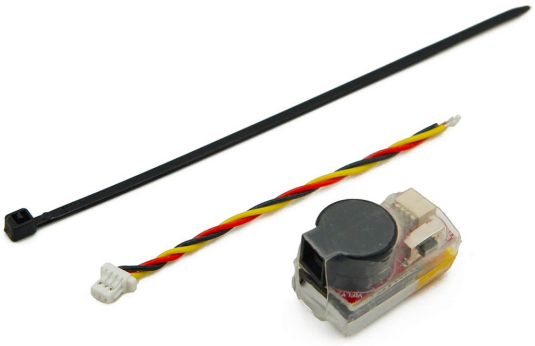
1.3 Specifications and package contents

Product designation	VIFLY Finder V2 (VIFLY Finder 2)
Manufacturer	VIFLY
Dimensions	22 × 13 × 16 mm
Weight	5 g
Volume	up to 110 dB
Beeping time on own battery	up to 30 hours
Built-in battery	Li-Po, 80 mAh, 0.3 Wh
Power supply and charging	from the 5 V pad of the flight controller or from the receiver
Connection	3 wires: GND, 5V, BZ
Activation	FC buzzer function (Betaflight) / receiver PWM channel / automatically after the main battery is disconnected
Silencing	by holding the button / by reconnecting the main battery

▶ Package contents (1 piece)

- 1× VIFLY Finder V2 beeper
- 1× 3-wire connection cable with connector
- 1× cable tie

Not included: flight controller, receiver, main battery, soldering material and tools. In the multi-piece variant, the package contains the corresponding number of sets.



Package contents

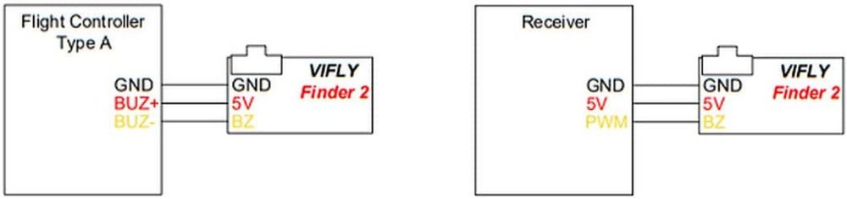
2. Safety instructions

- The beeper is very loud (up to 110 dB). **Do not hold it close to your ear** and do not let it beep near people or animals.
- The product contains a built-in **Li-Po** battery. Do not puncture, crush or heat it, do not throw it into fire, and protect it from water and moisture.
- If the battery is swollen or damaged, or becomes excessively hot during charging, stop using the beeper and dispose of it as described in Chapter 5.2.
- Always solder and connect **with the main battery of the drone disconnected**. Make sure the wires are in the correct order – swapping them may damage the beeper or the flight controller.
- Connect the beeper only to a 5 V supply as described in Chapter 3. Do not connect it directly to the main battery.
- This product is not a toy. Keep it out of the reach of children – small parts and the cable could be swallowed.
- When operating a drone, observe the regulations of the country in which you fly.

3. Wiring and installation

3.1 Connecting to the flight controller (FC)

The beeper is connected with the 3-wire cable from the package. Plug the connector into the beeper and solder the free wire ends to the pads of the flight controller according to the manufacturer's diagram:



Manufacturer's wiring diagram: left to the flight controller, right to the receiver

Beeper	Flight controller (FC)	Receiver (PWM)
GND	GND	GND
5V	BUZ+	5V
BZ	BUZ−	PWM (channel signal)

※ The buzzer pads on flight controllers are usually marked BUZ+ / BUZ− or BZ+ / BZ−. Before soldering, check their location in the documentation of your flight controller.

3.2 Connecting to a receiver (RC aircraft)

On models without a flight controller, connect the beeper directly to a free receiver channel with PWM output: GND to ground, 5V to power and the BZ wire to the channel signal. According to the manufacturer, the beeper recognises by itself whether it is connected to a flight controller or to a receiver and requires no configuration.

3.3 Mounting on the drone

- Fix the beeper with the cable tie from the package so that it cannot come loose in flight and does not touch the propellers.
- Do not block or cover the opening of the buzzer ① – this would considerably reduce the volume.
- If you want to use the flashing LED, place the beeper so that the LED ② is visible and the light sensor is not permanently covered.
- Keep the button ④ accessible, or plan to silence the beeper using the main battery (Chapter 4.3).

3.4 Charging the built-in battery

The built-in battery is charged whenever the beeper is connected to the 5 V supply from the flight controller or the receiver – i.e. normally during flight and when the drone is connected to a computer. The beeper therefore needs no separate charger and no maintenance. Before the first flight, leave the beeper connected to power for a longer time so that the battery is charged.

4. Operation

4.1 Activating the beeper

The beeper can be activated in three ways:

① **By a switch on the radio via the flight controller.** In Betaflight Configurator, on the *Modes* tab, assign the *BEEPER* function to a switch on your radio. The beeper then works like a standard flight controller buzzer (e.g. on signal loss or low voltage, depending on the FC settings).

② **By a PWM channel from the receiver.** Switching the corresponding channel on the radio turns the beeper and LED on. Always test the function on the bench; if the beeper does not respond, reverse the channel direction in the radio.

③ **Automatically after the main battery is disconnected.** As soon as the beeper loses power (e.g. the battery is ejected in a crash), it starts beeping from its own battery.

※ For a receiver, we recommend setting the failsafe so that on signal loss the beeper channel switches to the position in which the beeper sounds.

4.2 Locating the drone

- After power is disconnected, the beeper beeps from its own battery for up to 30 hours.
- The light sensor detects the ambient light intensity: in the dark the LED ② starts flashing in addition to beeping, so the drone can be seen.
- At night the beeper automatically enters sleep mode to save its battery and avoid disturbing the surroundings. You can therefore resume your search the next day.
- When searching, follow the sound and stop regularly to listen.

4.3 Silencing the beeper

The beeper can be silenced in one of two ways:

① **With the button:** disconnect the main battery, hold the button ④ on the beeper for 1–5 seconds and then release it.

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

The beeper confirms successful silencing with **three beeps**. Thanks to the second method, the beeper can be installed even where the button is hard to reach.

4.4 Maintenance and storage

- Keep the beeper clean and dry; carefully remove dirt from the buzzer opening with a dry brush.

- After a crash, check the cable, connector and solder joints and make sure the beeper sounds.
- If you do not use the drone for a longer period, connect it to power occasionally to recharge the built-in battery.
- Store in a dry place, away from direct sunlight and heat sources.

4.5 Troubleshooting

Problem	Possible cause and solution
The beeper does not respond to the switch on the radio	Check the wiring according to Chapter 3.1 and the assignment of the *BEEPER* function on the *Modes* tab.
The beeper does not respond to the PWM channel	Make sure it is connected to a PWM output and try reversing the channel direction in the radio.
The beeper does not sound after the battery is disconnected	The built-in battery is discharged – leave the beeper connected to the 5 V supply for a longer time.
The beeper does not stop beeping	Silence it as described in Chapter 4.3; always disconnect the main battery first.
The LED does not flash	It is light – the LED flashes only in the dark. You can test the function by covering the beeper with your hand.

5. Information for the EU and Czech Market

5.1 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

5.2 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.

6. 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 5.1.
- 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.