

Quick Guide EN



Switch on

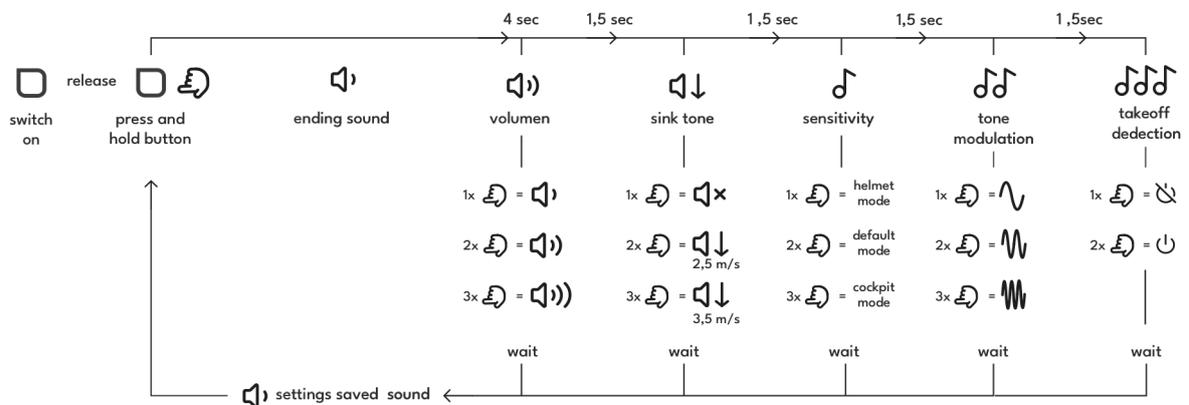
1. press 1 second
2. Starting sound

Switch off

1. press 1 seconds
2. Ending sound

Settings

- 1.
2. Hold the button down until you hear the melody for the desired menu item.



Mounting locations

For maximum performance we recommend following sensitivity settings for different mounting locations:

location: cockpit / frontcontainer /

sensitivity setting: cockpit Mode / default mode



For best helmet performance:

← Mount the vario on the center back of your helmet and choose helmet mode in sensitivity settings. !

location: helmet / shoulder strap - area where the Vario is in a turbulent wind stream

sensitivity setting: helmet mode

User manual EN – NanoVario UL

Model: NanoVario UL

As of January 2026

1. Introduction

Congratulations on your purchase of the NanoVario UL! At just 23 x 23 x 10 mm and 9 grams, it is one of the lightest and most compact variometers in the world. It was designed to give you precise audible feedback while paragliding.

Please read these instructions carefully.

2. Safety instructions

2.1 Intended Use

The NanoVario UL is an acoustic flight instrument for displaying climb and sink rates for paraglider and hang glider pilots. It is intended solely for recreational use and must not be used as a primary flight instrument for flight control under instrument flight rules (IFR).

2.2 Warnings

- **Personal responsibility:** Never rely solely on the variometer when flying. Always observe the airspace and fly by visual reference.
- **Hearing protection:** The device can be set to a very loud volume. To avoid hearing damage, do not hold it directly to your ear during testing.
- **Choking hazard:** The device is extremely small (about the size of a 1-euro coin). Keep it away from small children (risk of choking).
- **Battery:** Contains one CR2032 button cell.
 - **WARNING:** Do not swallow batteries! Risk of chemical burns.
 - Do not short-circuit, recharge, or throw the battery into a fire.

3. Technical Data

Feature	Value
Dimensions	23 x 23 x 11 mm
Weight	9.3 grams (including battery)
Housing material	Anodized aluminum (AW-7019)
Battery type	1x CR2032 (3V Lithium)
Operating time	Up to 600 hours (depending on volume)
Sensors	Highly sensitive pressure sensor
operation	Single Button Interface
Operating temperature	-20°C to +60°C

4. Scope of delivery

- 1x NanoVario
- 1x CR2032 battery (pre-installed)
- 1x Phillips screwdriver
- 2x Self-adhesive Velcro tape
- 1x Quick Guide
- 1x Sticker

5. Commissioning & Assembly

5.1 Insert/activate battery

The NanoVario is delivered ready for use.

5.2 Assembly

The NanoVario can be flexibly mounted (e.g., helmet, carrying strap, cockpit):

1. Clean the adhesive area on the helmet or cockpit (grease-free and dry).
2. Stick the included hook and loop fastener (fluffy part) onto the desired spot.
3. Press the NanoVario UL firmly in place using the Velcro backing.

Tip: Secure the vario to a safety eyelet/helmet to prevent loss during flight.

6. Operation and settings

The NanoVario is controlled entirely via a **single button** . You can use it to adjust sensitivity, volume, sink tone, start detection, and pitch.

For easy, individual configuration of your vario, please refer to our graphically illustrated menu navigation as shown at the beginning of the user manual.

6.1 Switching on

Hold the button down for **1 second** until the power-on tone sounds.

6.2 Switching off

Hold the button down for **1 second** until the power-off tone is heard.

6.3 Setup Mode

To open the setup menu, the Vario must already be switched on. Then, hold the button down until the different menu items are announced audibly one after the other.

Here's how to adjust a setting:

- 1 Release the button precisely when the desired menu item is audibly announced.

- 2 Select the option by **pressing the key 1 to 3 times briefly** .
- 3 Wait a moment after making your selection: The vario will confirm the saving with a beep and automatically return to normal flight operation.

Menu items at a glance:

1. Volume (Menu tone: 3 short tones in succession)

Press once: Quiet

Press twice: Medium (default)

Press 3 times: Loud

2. Sink tone (Menu tone: Low tone)

Press once: No sink tone (default)

Press twice: Sink tone from -2.5 m/s

Press 3 times: Sink tone from -3.0 m/s

3. Sensitivity (Menu tone: 1 beep)

Press once: Low (Recommended for helmet mounting)

Press twice: Medium (default)

Press 3 times: Up (Recommended for cockpit mounting)

4. Tone modulation (Menu tone: 2 beeps).

The tone modulation determines how clearly changes in climb or descent rate are displayed.

High tone modulation means: Even small changes in climb rate result in clearly audible and rapid tone changes.

Low tone modulation means: The tone changes more smoothly and sounds calmer. Small changes are less noticeable.

Important: This setting does not affect how quickly the variometer detects thermals or how quickly the tone starts or stops. It only changes how audibly the changes are displayed.

Press once: Low

Press twice: Medium (default)

Press 3 times: High

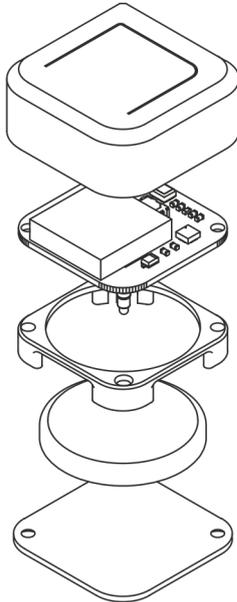
5. Start detection (menu tone: ascending tone sequence) - With this function, the beeping only starts after the start (detected altitude change).

Press once: On (Vario remains silent on the ground)

Press twice: Off (Vario beeps immediately upon movement – (Standard))

Safety note: If the button is held down continuously, an alarm will sound. This indicates a possible operating error (e.g., pressure from equipment in the pack) and prevents unnecessary battery drain.

7. Maintenance and battery replacement



Thanks to the efficient hardware, the battery lasts up to 600 hours. If an additional tone is played along with the power-on tone, the battery is running low.

Step-by-step battery replacement:

1. Use the supplied Phillips screwdriver.
2. Loosen the **2 screws** on the back.
3. Carefully remove the back panel.
4. Remove the empty CR2032 battery and insert a new one.
5. Replace the backplate and tighten the screws carefully.

Care:

- Clean the aluminum casing only with a soft cloth.
- Protect the slot around the button from water, sand, and dust.

8. Waste disposal and environmental protection

8.1 Packaging

The packaging is made from sustainably produced cardboard. Please recycle it.

8.2 Device and battery

The device must **not be disposed of with household waste** .

- **Old devices:** If you no longer have need for it, pass it on to another pilot! If it must be disposed of, please do so at an official collection point for electronic waste.
- **Batteries:** The CR2032 battery must be disposed of separately in the battery collection containers (in stores or recycling centers).

9. Warranty and Contact

The NanoVario was designed and assembled in Austria. We provide the statutory warranty.

Manufacturer / Contact:

NanoVario OG,
Bittsollweg 19a,
5023 Salzburg,
Austria
www.nanovario.at