

(1) Introduction

The ***IQ Sonic*** is an “audio only” vario. It has been especially designed for pilots who want to enjoy free flight with the minimum of technology, and also as a reliable back-up instrument for cross country and competition flying. It is also great for coastal soaring, where an altitude indication is of little importance.

(2) Acoustic Scale Indication

Although the ***IQ Sonic*** has no optical indication of climb rate, the critical point between 1 m/s and 1,5 m/s (200 ft/min and 300 ft/min) is indicated acoustically. Often it is not worth circling in a thermal at less than this climb rate (unless the conditions are really weak). This is why the timbre of the climb tone changes (this is the “Acoustic Scale Indication”) when a climb of 1,3 m/s (260 ft/min) is exceeded. This is in addition to the normal acoustic information which indicates your climb rate in the thermal and helps to make the correct decisions.

(3) Power Supply

The ***IQ Sonic*** is powered by a standard lithium battery of the kind used in cameras. This battery can be purchased in many photo or electronics shops. The battery capacity is approx. 200 hours of flying. A big advantage of lithium batteries is that they loose almost none of their performance in very cold conditions.

Lithium Battery CR2450 (3V, 500mAh)

The case must be opened to change the battery. Unscrew the two screws then pull off the front part of the case and carefully lift out the board. Pull the old battery from the clamp and insert the new one. Make sure the polarity is correct! The plus (+ on

battery) must touch the clamp arm, the negative must touch the metal ring (“neg”).

(4) Mounting

The ***IQ Sonic*** is mounted with Velcro. Stick the hook side of the self adhesive Velcro strip to the flat side of the case. You may have to trim the Velcro a little to make it fit. Stick the loop side of the Velcro wherever you want your vario to be, e.g. to your helmet. Special holes in the board and case allow the sound to be reflected to all sides. Choose a place on your helmet close to your ear so you can hear the sound of the vario easily.

Because of the small dimensions and the low weight of the ***IQ Sonic*** it is possible to mount the vario in many other positions, e.g. to your flying suit, or the shoulder straps of your harness, for instance Experiment to find the optimal mounting position!

(5) Switch Positions

The ***IQ Sonic*** is switched on with the main switch. This switch also turns on or off the sink tone of your vario.

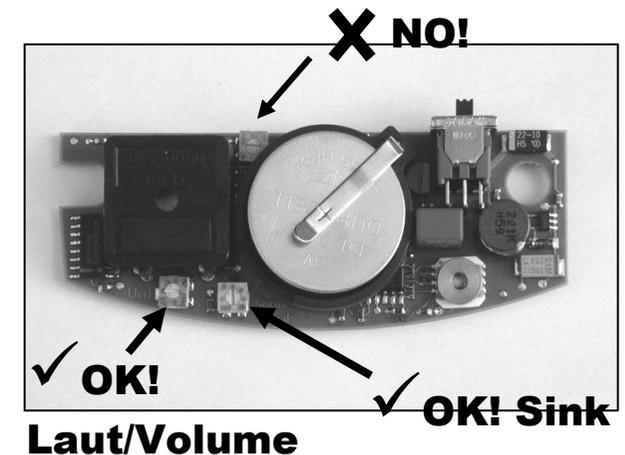
Switch pos: - I - Instrument ON, sink tone OFF
Switch pos: - 0 - Instrument OFF
Switch pos: - II - Instrument ON, sink tone ON

(6) Adjustment of Volume

You can adjust the volume of the ***IQ Sonic*** to adapt the sound to suit individual perception and positioning. To adjust the volume the case of the ***IQ Sonic*** must be opened. The volume can then be adjusted with a small screwdriver by carefully turning the potentiometer (see picture). The potentiometer is located on the board and designated “Vol”.

Turning clockwise: Volume UP
Turning counter clockwise: Volume DOWN

Warning! Never turn the potentiometer with no designation (see picture). If this potentiometer is altered then the calibration of the ***IQ Sonic*** will be changed which will make the instrument inoperable. It must then be re-calibrated at the factory for which there will be a charge!



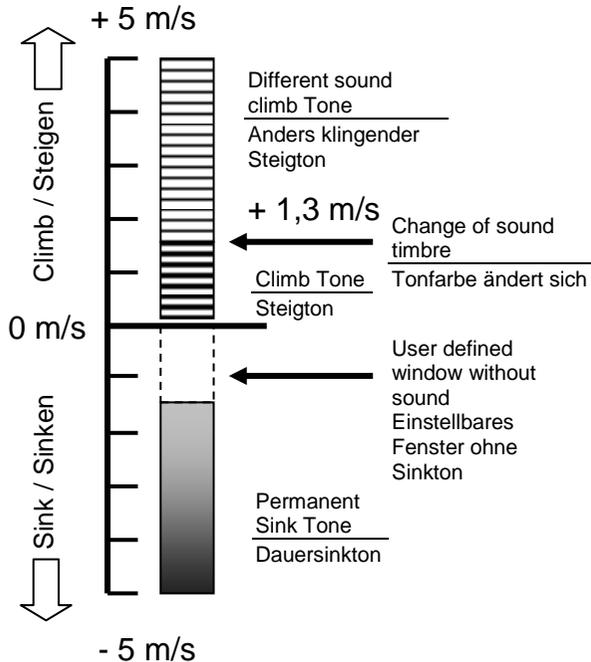
(7) Adjustment of Sink Tone

You can adjust the point (sink rate) when the sink tone will start to sound. Open the case and carefully turn the small potentiometer on the board designated “Sink”. The sink tone start point can be adjusted within a range of – 0,1 m/s to – 5,0 m/s (- 20 ft/min to –1000 ft/min)

Turn clockwise:
sink tone starts at higher sink rate

Turn counter clockwise:
sink tone starts at less sink rate

Warning! Never turn the potentiometer with no designation (see picture). If this potentiometer is altered the calibration of the **IQ Sonic** will be changed which will make the instrument inoperable. It must be recalibrated at the factor for which there will be a charge!



(8) Maintenance and Service

The **IQ Sonic** is totally maintenance free except for occasionally having to change the battery. If there is any sort of malfunction, send the instrument to **BRÄUNIGER** or to the distributor of your country for repair. Distributor addresses can be obtained from the web site at www.brauniger.com.

Landing in water:

If the instrument gets wet e.g. because of a landing in water landing, immediately switch it off, open the case and let it dry in moderate heat (max. 35 °C or 95 °F), e.g. in the sun. The instrument should not stay wet or moist under any circumstances as this will destroy the instrument beyond repair!

If it gets into contact with salt water, immediately switch instrument off, open case and flush it out with lots of fresh water. Then let dry as described above.

Important:

The instrument must be sent to **BRÄUNIGER** for checking/repair after every water landing!

(9) Warranty

BRÄUNIGER instruments are guaranteed for 12 months for materials and workmanship. Abuse (e.g. strong impact) or normal wear are excluded from warranty. Special warranty regulations may apply in your country.

IQ Sonic



Operating Manual

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