



INFORMATION FOR USING INNOMAKE IN AIRPLANES



The InnoMake was developed to make the everyday life of visually impaired and blind people safer with intelligent obstacle detection and is a CE-certified class 1 medical device, tested according to international standards (RL 93/42/EEC - Medical Devices Directive, RL 2014/53/EU - RED Directive, RL 2011/65/EU - RoHS Directive).

A set consists of two encapsulated plastic housings that cannot be opened, each containing a **Bluetooth module, a vibration motor, two ultrasonic sensors, three circuit boards, a lithium polymer battery, LEDs, and a USB-charging interface (including an external charger)**. The InnoMake device can be switched on and off within 3 seconds with pushing the button. A **steel rail** for pugging in the attachment parts is installed in each shoe.

No cellular-, GPS- or WLAN-module is used!

The medical purpose of InnoMake is to partially compensate for the mobility impairment resulting from visual impairment.

In addition to an existing primary aid, such as a cane, the InnoMake can be used to detect obstacles in the walking direction at an early stage. The InnoMake is also suitable as a supplement to an existing residual sight if locomotion without primary aids is basically possible.

The InnoMake uses ultrasonic technology to detect obstacles. The calculation of the distance to objects is based on the reflection of ultrasonic waves and the measurement of their transit time.

During usage of the sensors in the attachments on the toes of the shoes continuously send and receive ultrasonic waves. The calculated distance to an object in walking direction is conveyed in the shoe by vibratory feedback, the frequency of which varies proportionally to the measured object distance, i.e., the closer an object is, the faster the feedback or the further away you are from an object, the slower the feedback.

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