A Belgian startup is seeking a robust Bluetooth button for hands-free mobile interactions in manufacturing industries

Summary

Profile type	Company's country	POD reference
Business request	**Belgium**	**BRBE20230607013**

Profile status	Type of partnership	Targeted countries
PUBLISHED	**Supplier agreement**	**• World**

Contact Person	Term of validity	Last update
Rita Elste - Tomsone	**7 Jun 2023** **6 Jun 2024**	**7 Jun 2023**

General Information

Short summary

A Belgian startup seeks a robust, 3-5 keys Bluetooth button compliant with GATT Bluetooth norms, preferably battery-operated.
The button is used for hands-free interaction with mobile devices during manual operations in manufacturing industries. It aims to control all interactions with the button, including when the smartphone screen is off.
The company is open to partnering with a finished product provider, a device manufacturer/distributor, or a co-development partner.

Full description

The company is an innovative Belgian startup specializing in connected wearable technologies aimed at enhancing the safety, comfort, and efficiency of employees within businesses.
The startup has developed a cutting-edge wearable device in the form of connected glasses. These glasses are specifically designed to deliver relevant information to users in their peripheral field of vision, thereby ensuring that their primary attention remains on their main task.

The technology underpinning the device is assisted reality (aR), a subset of augmented reality that focuses on aiding operators without significantly distracting them from their main activities. The device comes with a Bluetooth API that allows easy and rapid communication with a range of devices, such as computers, smartphones, or portable keypads.

The device consists of an optical module that's worn in the peripheral field of vision, projecting textual or visual data depending on the specific application. The device is worn with a headband and can accommodate different users, whether they wear glasses or not. It consists of an optical prism for image projection, a removable battery, and a casing that controls all the electronic components.

The Bluetooth button the company seeks to integrate with the device is a pivotal component in ensuring the solution's efficacy and usability. This button will function as a user interface for users to interact with the software without having to physically engage with a secondary device, such as a smartphone or a portable keypad. This hands-free operation is crucial in many manufacturing processes where manual operations are repetitive and require both hands. By allowing users to send commands or validate operations with a simple button press, this Bluetooth button will further enhance the ease of use and convenience that the device provides. The button will interact with the smartphone even when its screen is off, contributing to practical and efficient use.

The Bluetooth remote will act as a bridge between the user and the glasses, reinforcing the user's control over the data flow and enhancing their overall experience. For example, it is used to advance through a slide show presentation or to navigate through a list of operations stored on a smartphone. This coalescence of simplicity, convenience, and technological advancement is at the heart of what makes the company's solution unique and promising.

The company is keen on partnering with an entity that can provide a finished Bluetooth button product or collaborate on its development. Emphasizing on European manufacturing or assembly, the company foresees a demand for hundreds of devices annually, further underlining the pressing need for this innovative solution.

In a nutshell, the company blends innovation with practicality, delivering a solution that genuinely improves the user experience and efficiency in the workplace.

Advantages and innovations

Advantages:

Enhanced Efficiency: The connected glasses streamline the flow of information, reducing the time wasted on consulting external data sources and improving overall productivity.

Improved Safety: The hands-free design of the Bluetooth button promotes safety by allowing users to remain focused on their tasks.

Flexibility: With the Bluetooth API, the glasses can interface with various devices, making it adaptable to different use cases and operational environments.

User Comfort: Weighing only 50g and designed to be non-intrusive, the aRdent glasses can be worn comfortably throughout the day.

Customization: The offloading of computational power and software functionalities onto an external device allows for a more tailored user experience, according to the specific software or application used.

Scalability: the company's approach to device development and partnerships suggests scalability for larger production quantities as demand grows.

Disadvantages:

Limited Features: In striving for simplicity, some features available in high-end smart glasses have been eliminated, which might limit some potential applications.

Technical specification or expertise sought

The company is seeking expertise or a technical solution that can provide a robust Bluetooth button compliant with GATT Bluetooth norms. The desired device should have 3 to 5 keys and should ideally operate on battery rather than cells to ensure sustainability and operational longevity.

The primary technical specifications required are as follows:

Compatibility: The Bluetooth button should be compatible with a wide array of devices including but not limited to smartphones, computers, and portable keypads.

Robustness: Given the manufacturing environment where the button will be used, it needs to be robust and durable, capable of withstanding regular use under potentially harsh conditions.

Button Functionality: We require full control over the interactions with the button, which means that pressing the button should not cause unintended actions such as altering the volume on the connected device.

Standby Functionality: The button should function even when the screen of the connected device is off, ensuring seamless operations without the need for regular device interactions.

Battery Operation: A battery-operated button is preferred for longer operational time and ease of recharging.

Compliance: The button should be fully compliant with GATT Bluetooth norms to ensure reliable and seamless communication with other devices.

Ideally, the companyseeks to partner with a company that can either provide a finished product that meets these specifications or has the necessary expertise to co-develop such a product. The collaboration would be in the spirit of developing a solution that significantly enhances the efficiency and usability of company's glasses in various manufacturing and industrial applications. Given the European orientation of the startup, particular consideration will be given to partners offering manufacturing or assembly in Europe.

Stage of development

Already on the market

IPR Status

Sustainable Development goals

• **Goal 4: Quality Education**

• **Goal 3: Good Health and Well-being**

• **Goal 8: Decent Work and Economic Growth**

Partner Sought

Expected role of the partner

Type : Manufacturer, wholesaler or retailer
Role : Delivery of Bluetooth buttons according to specs, quantities and planning

Type of partnership

Type and size of the partner

Supplier agreement

- **University**

- **SME <=10**

- **SME 11-49**

- **SME 50 - 249**

- **Other**

- **R&D Institution**

- **Big company**

Dissemination

Technology keywords

Market keywords

- **02005006 - Data I/O devices**

- **08003001 - Machine tools, other metal working equipment (excl. numeric control)**

- **02005003 - Portable terminals**

Targeted countries

Sector groups involved

- **World**