

Press release



BOSCH

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Bosch reveals how the world looks through the smart glasses of the future

- Bosch smartglasses make life easier in everything from navigation and sending messages to shopping and cooking
- The technology can be joined up with nearly any spectacles, and is compatible with curved and correction lenses
- The smart glasses system projects information to the wearer's eyes from a connected mobile device

In a new [video](#), Bosch reveals how the world looks through the smart glasses of the future. The company's newly-developed Smartglasses Light Drive system is an original, convenient and safe solution in everyday settings like car or bike navigation, shopping, and cooking.

In the video, we see how the smart glasses system connects to mobile devices to project information in front of the user's eyes. So when cycling or driving a car, the wearer sees the route in a streamlined, holographic form. If you come to a road closure, an alternative route appears within seconds, and you can even check the state of the bicycle or car battery as you go along. When shopping, you no longer have to worry about forgetting the ingredients for the evening meal, because the glasses put the shopping list in front of you and you can even check off the items as you put them in your trolley. At home, the ingredients for the dish appear before you as a recipe, saving the trouble of leaving the cooker to look up the cookbook as the glasses take you through everything step by step.

Compatible with any kind of specs

Bosch Smartglasses Light Drive, as we can see on the video, is not a kind of spectacles. Weighing only 10 grams, it is a tiny device that can change nearly any traditional spectacles into smart glasses. It allows the glasses to display practically any information from a connected mobile device. The system has both Bluetooth and Wi-Fi connections and can be synchronised with smart devices,

Robert Bosch Kft.
1103 Budapest,
Gyömrői út 104.
www.bosch.hu/en

Press information:
Dóra Domokos
PR Manager
Bosch Group in Hungary

E-mail: dora.domokos@hu.bosch.com
Phone: +36 20 779 1422
www.boschmediaservice.hu/en

allowing messages to be called up instantly without touching the device screen.

The Light Drive projects information into the field of view, relieving users of the need to glance down at the smartphone. To reroute your journey or read messages, you just press the sensor built into one leg of the glasses. It is a safer and more convenient solution when doing something like driving a car. The technology opens up lots of actions that until now have only been possible with screen-based devices like smartphones and smart watches.

Holographic effect

Bosch Sensortec launched its smart glasses technology in January at CES® in Las Vegas. A microelectromechanical system (MEMS) based light scanner in the Smartglasses Light Drive module scans the holographic element (HOE) embedded in the glass of the smart glasses. The HOE directs the light beam to the retina of the eye, so that the image it projects is always in focus. The high-resolution image is sharp and clear, with adaptive light intensity that keeps it clearly visible even in bright sunlight. Compatibility with curved and correction lenses is one of the technology's major benefits, making it attractive to spectacle-wearing users.

The Light Drive system is the smallest and thinnest device available for customers. The device is 47–75 millimetres long, 5–10 millimetres high and 8 millimetres wide (depending on customer integration), and it weighs less than 10 grams. The Light Drive solution will be available to high-volume manufacturers in 2021.

YouTube: the smart glasses technology in action:

<https://www.youtube.com/watch?v=yIGaEHuCuAs>

More information:

Dóra Domokos

Phone: +36 1 879-8928

Basic information:

Bosch Group in Hungary employs roughly 14,800 associates (as of December 31, 2018). In addition to its manufacturing, commercial and development business, Bosch has a network of sales and service operations that covers the entire country.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 403,000 associates worldwide (as of December 31, 2019). According to preliminary figures, the company generated sales of 77.9 billion euros in 2019. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 72,000 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-two percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust. The remaining shares are held by the Bosch family and by Robert Bosch GmbH.

Additional information is available online at www.bosch.com, www.iot.bosch.com, www.bosch-press.com, www.twitter.com/BoschPresse