

Press release



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Smart home counts the people inside it

- Cloud-based Bosch solution to support building services and building management
- Microscanner creates virtual interface and integrates our smart devices into our daily business
- Complete Bosch Smart Home System to have voice control by spring 2018

Bosch introduced that connected smart home of the future is already possible now. Innovative solutions and services for smart homes and smart buildings aim to use the latest technologies to make our lives easier, more comfortable and more energy-efficient.

Cloud-based Bosch solution to support building services and building management

The Connected Building Platform is Bosch's cloud-based system for smart homes. By analysing the data it collects from building services and sensors, it works out such things as air quality and the number of occupants of individual rooms. The platform serves as a basis for more efficient building management through support for predictive maintenance and increased productivity, and it also provides information on the utilisation of rooms and the occupancy of workstations. In offices laid out with flexible workstations, it will help workers find the nearest free position more quickly and streamline cleaning and some maintenance jobs. Sensing human presence and tracing the location of equipment could also help to optimise the process of work and life in ever-smarter buildings.

Bosch sensor uses ten times less energy

The new, ultra-energy-saving MEMS sensor, the BMA400, will be the ideal choice for wearables and internet-of-things (IoT) applications. Small but effective, this sensor uses nearly ten times less electricity than equivalents in current use,

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greatly extending battery life in all kinds of devices. The new acceleration sensor will be crucial for smart-home applications like security systems (alarms, cameras, motion sensors and the like). The integrated and energy-saving pedometer makes it possible to add activity-detection functions to electronic wearables (such as watches) without major development costs.

Interactive user interface to make contact with our smart devices

With the constantly-increasing diversity of electronic devices of all sizes, like wearables and smart home support devices, making human interaction with these technologies more effective is an area that is attracting considerable development effort. The Bosch microscanner is a crucial contribution to progress in this field. It creates a flexible and intuitive virtual user interface and projects it in high resolution on to any surface. The tiny sensor enables customisable, precise user interfaces to be created in the IoT network for such things as household appliances, tablets and robots. That will make devices work in a user-friendly way, harmoniously integrated into our daily lives.

Prize-winning smart cameras for safer homes

Already available as standalone smart solutions, the 360-degree indoor camera and the Eyes outdoor camera (both winners of the 2017 RED DOT AWARD), starting in 2018, will also be optionally integrated into Bosch Smart Home system solutions. With built-in motion sensor, intercom function, and smartphone connection facility, the cameras will also add functionality to our home alarm systems, providing images to help assess the situation when the alarm is tripped.

Robot vacuum cleaner with artificial intelligence will map out our homes

Over the last year, Bosch has added connected technologies to every category of its product portfolio in its network kitchen solutions. There is more to its smart home equipment than this, however. This year, Bosch will be launching the Roxxter, the first networked robot vacuum cleaner to have artificial intelligence. It will bring us one step nearer to the fully smart home.

The Roxxter is a high-performance, efficient home helper. It uses specially-developed sensors to scan its surroundings and make an interactive map. Through the RoomSelect function, we can give it special tasks and specify no-go areas so that it does not accidentally stray into places it should keep out of. Connected with the Amazon Alexa, the Roxxter can even be controlled by voice. For example, "Alexa, get the Home Connect robot to vacuum the living room". Control with the Amazon Alexa has been an option for Bosch smart home cameras since autumn last year (the first camera solution of this kind), and in spring, the full Bosch Smart Home System will have voice-control capability.

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Basic information:

The Bosch Group is a leading global supplier of technology and services. It employs roughly 400,500 associates worldwide (as of December 31, 2017). According to preliminary figures, the company generated sales of 78 billion euros in 2017. 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 industry. 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 create solutions for a connected life, and to improve 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 subsidiaries 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 62,500 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 up-front 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.

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