

Infineon and pmdtechnologies develop 3D depth-sensing technology for Magic Leap 2

Enabling advanced cutting-edge industrial and medical applications

pmdtechnologies ag
The SUMMIT
Martinshardt 19
57074 Siegen | Germany
+49 271 238 712 - 800

info@pmdtec.com
www.pmdtec.com

Offices:
Siegen | Dresden | Ulm
San José | Seoul | Shanghai

Executive Board
Prof. Dr. Bernd Buxbaum (CEO)
Dr. Thomas May
Jochen Penne

Supervisory Board
Martin Buck (Chairman)
Michael Marhofer (Co-Chairman)
Simon Evans
Michael Paintner
Stefan Schneider
Andreas Urschitz

Media Contact
Sabrina Buxbaum (Director)
Marketing & Corporate Strategy
s.buxbaum@pmdtec.com

Social Media



Munich, Germany – 30 May 2022 – Augmented reality (AR) applications are about to fundamentally change the way we live and work. Later this year, AR pioneer Magic Leap is expected to introduce its newest AR device, the Magic Leap 2. Designed specifically for enterprise use, Magic Leap 2 will be among the most immersive enterprise AR headsets in the market. With industry-leading optics and powerful computing in an ergonomic design, Magic Leap 2 will enable operators to work more efficiently, help companies optimize complex processes, and allow staff to seamlessly collaborate. One of the key features of Magic Leap 2 is the 3D indirect-Time-of-Flight (iToF) depth sensing technology that was co-developed by Infineon Technologies AG (FSE: IFX / OTCQX: IFNNY) and pmdtechnologies ag (pmd).

Magic Leap 2 demonstrates the potential of the REAL3™ 3D Image Sensor. The new and improved IRS2877C Time-of-Flight imager captures the physical environment around the user and helps the device to understand and finally interact with it. Thanks to the 3D imager's VGA resolution, many different objects can be detected in detail.

The Time-of-Flight technology developed by Infineon and pmd creates an accurate 3D mapping of the environment as well as 3D image of faces, hand details, or objects in real-time. This advancement helps to enable accurate environmental interaction with the Magic Leap 2. In addition, the sensor enables enhanced gesture controls on Magic Leap 2. Infineon and pmd optimized the 3D sensor to bring the power consumption down to a minimum, reducing heat and increasing battery life of Magic Leap 2.

"Sensing the environment precisely and in real-time is key for augmented reality applications," says Magic Leap CTO, Julie Green. "Magic Leap 2 will provide an even more immersive user experience. These superior functionalities will help to connect the physical and digital world even more seamlessly."

"We have introduced our 3D imager technology in a professional environment, where precision and reliability are life-saving features," says Andreas Urschitz, Division President Power & Sensor Systems and designated CMO at Infineon.

Pioneers from the very beginning.

"The latest 3D time-of-flight technology is going to enable new augmented and mixed reality applications for healthcare and industry. It's about to change the way we live and work fundamentally."

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"Our technology helps Magic Leap 2 to detect precisely to the millimeter the location of objects in a physical environment. Virtual objects can be placed in the real world, and stay in place when the user walks around a room and would be obscured, as other real objects appear in front of them," says Bernd Buxbaum, CEO of pmd. "It also works reliably in bright sunlight or complete darkness, where other depth-sensing solutions quickly reach their limits."

More and more AR will be applied in industrial and medical environments that make use of these technological advancements. For example Brainlab, a Munich based digital medical technology company, combines their patient-specific, AI-driven anatomical segmentation visualization software with spatial computing from Magic Leap, to provide surgeons an increased understanding of the patient's anatomy.

Visitors of Hannover Messe 2022 can experience a live demo of Magic Leap 2 in Hall 9, Booth D36 (ifm electronics).

About pmd

pmd is the worldwide leading 3D Time-of-Flight CMOS-based digital imaging technology supplier, headquartered in Siegen, Germany with subsidiaries in the USA, China, and Korea. Started up in 2002, the company owns over 450 worldwide patents concerning Time-of-Flight based applications, the PMD measurement principle, and its realization. Addressed markets for 3D sensors systems and software from pmd are industrial automation, automotive, and a wide field of consumer applications, including augmented reality, smartphones, drones, and cleaning robots.

Additional information is available at www.pmdtec.com

About Infineon

Infineon Technologies AG is a world leader in semiconductor solutions that make life easier, safer and greener. Microelectronics from Infineon are the key to a better future. With around 50,280 employees worldwide, Infineon generated revenue of about €11.1 billion in the 2021 fiscal year (ending 30 September).

Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY). Further information is available at www.infineon.com
This press release is available online at www.infineon.com/press.