



## Press Release

**Lenovo Tech World '16**

**Sensing the world the way we do – the world's first Project Tango Smartphone:**

**Lenovo and Google redefine the mobile device category using pmd's unique 3D technology.**

**June 9<sup>th</sup>, 2016** – Siegen/Germany and San Francisco/CA/USA –

We already know Project Tango for a while, but now it is getting really interesting!

The world's first mobile device product using Google's Project Tango technology, the Lenovo™ PHAB2 Pro, has been announced today at Lenovo's Tech World'16 in San Francisco. A special IR camera, enabling depth sensing based on pmd's ToF (Time-of-Flight) 3D technology, is integrated into this new Smartphone. The camera measures a real-time 3D point cloud of the environment and thus gives the phone a human-scale understanding of its environment and motion. pmd has already been nominated as a Project Tango partner in 2014 and has meanwhile succeeded to miniaturize ToF depth sensing cameras for the first time to a level where integration into mobile devices now is possible and successfully proven with launch of the Lenovo PHAB2 Pro. While the core technology is a CMOS-based imager, which has been jointly developed by pmdtechnologies ag and Infineon Technologies AG, pmd has contributed the camera reference design as well as the production Know-How to the joint effort of Google and Lenovo. Infineon is offering the respective REAL3™ product family based on pmd intelligence™ with different specifications for a variety of applications.

The result is the first Tango compliant mobile device, enabling motion tracking, depth perception and area learning for completely new app categories on mobile devices, like Virtual and Augmented Reality, Casual Gaming, Social Media, Object and Room Scanning as well as Indoor Navigation.



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“Through the Tango-enabled PHAB2 Pro, we are opening a complete new era of mobile applications”, says Hua Zhang, Vice President, Lenovo Android and Chrome Computing Business Group.

“This is just the beginning of a journey and we are really proud to contributing our unique technology to Project Tango and this great new Lenovo product. We believe that with the miniaturization of depth sensing for mobile device integration, while staying extremely robust and efficient, we have broken a barrier, which will make our 3D ToF cameras as common as conventional cameras in the next years,” says Dr. Bernd Buxbaum, CEO of pmd. “It was a long journey, and this remarkable success became possible due to the very intense cooperation between pmd and Infineon technically as well as businesswise,” adds Jochen Penne, Director Business Development at pmd.

### **About pmdtechnologies ag**

pmdtechnologies ag, a fabless IC company based in Siegen/Germany and San Jose/USA, is the worldwide leading 3D Time-of-Flight CMOS-based digital imaging technology supplier. Started up in 2002, the company owns over 150 worldwide patents concerning pmd-based applications, the pmd measurement principle and its realization. Addressed markets for pmd's 3D sensors are industrial automation, automotive and the wide field of consumer applications like AR/VR. pmd is offering HW reference designs as well as SW integration support to mobile device OEMs to enable an easy integration of its ToF technology. pmd gained world-wide attention when President Barack Obama used a CardBoard virtual reality device, which was augmented by pmd depth sensing for touchless interaction in VR, at the Hannover Fair earlier this year.

Further information is available at [www.pmdtec.com](http://www.pmdtec.com).



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