



**You cannot solve the problems
the way you created them.**

Albert Einstein

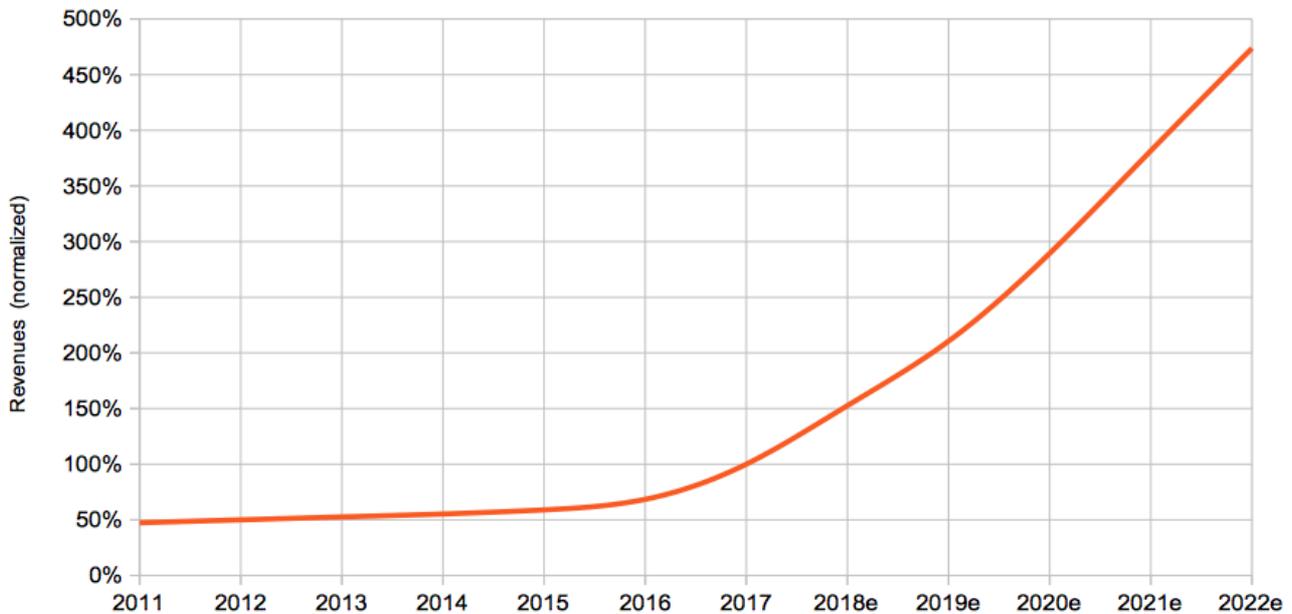
CEO's Note

Dear Readers,

ESPROS is growing and growing fast. Its growth is timed perfectly with global demand for 3D imaging applications. The Compound Annual Rate Growth (CAGR) for 3D imaging is expected to some 40%, starting at some \$2 billion in 2017. We clearly see the hockey stick coming. Many companies dream of such potential being within their grasp. Not ESPROS. For us, we aim to exceed the market growth! It's a bold statement but I believe fully justified. After years of hard work, research and development, building and constructing, producing, testing and refining, we have the right technology and products at the right time.

Regular readers already know we have heavily invested in further laying the foundations to a career in the world of Time of Flight technology with our recent TOF Academy. This is a vital tool in creating awareness and expanding knowledge on the part of potential customers and employees alike. After all, supporting a customer is just as important as supplying him. That is why we build partnerships. These are essential as the technology we offer is so ground-breaking and packed with incredible potential – so we are there to accompany our partners on a journey of discovery for both sides. Regionally, we are centrally located and close to many of our customers to provide that support.

3D Imaging Forecast



Getting the big picture: Potential revenues for 3D imaging, compiled by ESPROS, based on a number of key sources

That's also because we have the right people. We have the best here in Sargans, Switzerland and in Shanghai, China. But we need more of them. **Chip architects, design engineers, project managers, product managers** - that is just some of the many opportunities on offer with our dynamic company. Indeed, the immediate challenge we face is not so much generating sales but rather ensuring we handle to massive growing number of customer projects.

Every week sees the horizon of opportunity expand and we are expanding with it. ESPROS is the leading light in photonics (pun intended). We want that light to shine from every mountain top that surrounds us here in the Alps. Our enthusiasm is as unbounded as the potential of our technology.

Our feet are on the ground but we are growing and reaching for the stars.

Beat De Coi

epc901 – powering Leica Geosystem's new BLK360 3D imaging scanner

Leica Geosystems' latest 3D panoramic scanner, the BLK360, is the smallest and lightest of its kind in the world. And it is powered by several ESPROS epc901 linear imager chips.

This, together with the chip scale package and low power consumption, helped enable its very compact design and resulting in a very portable device.



The new BLK360 of Leica Geosystems is powered by several epc901 line imagers to ensure the highest accuracy of the point cloud in space (Source: Leica Geosystems)

The BLK360 captures the world around you with full-colour panoramic images overlaid on a high-accuracy point cloud. With a focus on simplicity and interaction, its single button design, iPad Pro user interface and custom-machined, quick-release tripod fitting offer an intuitive user experience.

One of its key components is the epc901 IC, a high-performance CCD line sensor with an incredible dynamic range and speed with up to 500k lines per second using the CCD frame store buffer for ultra high-speed image acquisition. This chip has very high sensitivity due to its 100% fill factor and ESPROS' unique OHC15L process technology.

ESPROS' unique bare-die chip scale package opens many possibilities, offering improved accuracy by a factor of 3 to 5 compared to conventional FSI line imagers. This, because of the minimized cross-talk and stray-light effects due to the closer distance of the scale to chip. As a result, the epc901 is very suitable for mobile applications.

To find out more go about the chip click here: http://www.espros.com/downloads/01_Chips/Datasheet_epc901-V6.1.pdf

For more information about the new BLK360 click here: <https://lasers.leica-geosystems.com/global/blk360-contact-form>

TOF>cam 635 makes debut at RoboBusiness Expo

The ESPROS TOF>cam 635 made its debut at the 2018 RoboBusiness Expo, held recently in Santa Clara, California. The miniaturized, cost-optimized 3D camera drew great interest from the many robotic-community visitors to the ESPROS booth. □

They were very impressed by its ability to work under full sunlight conditions. There was praise too for its wide-range application potential, thanks to its output of depth and grayscale images. These applications include gesture recognition, in-cabin monitoring, humanoid and household robots, doors and gates, people-counting and industrial automated guided vehicles.

Visitor feedback was also extremely positive on the TOF>frame 611 and TOF>range 611 modules.



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