



I don't know, if it will be better if it is different. But it has to be different to become better.

Georg Christoph Lichtenberg

CEO's Note

Dear Reader,

Sometimes it's better to tackle radical changes than to "tinker" with gradual improvements. Sure, the risk that the desired improvements will not occur is high. Higher than when you do nothing. Even higher if you only make minor adjustments. But if something has to get better, something has to be changed. Actually, an old wisdom that the German physicist, mathematician and aphorist Georg Christoph Lichtenberg (1742 - 1799) aptly formulated.

At the end of the twentieth year in the 21st century, we can start thinking about whether one thing or the other should be changed. For me it was like a shot across the bow what happened this year that is coming to an end. In particular, the supposedly limitless mobility may be questioned, I think. Is it really good for us humans, humanity and also the earth as the basis of our life to be stuck in traffic

every day? Spending more time in traffic than enjoying nature, for example. Or to spend time with family and friends. Or doing something for your health with exercise or sport. Or try something new. A good friend of mine decided to learn to play the trumpet a few months ago. His goal to play the trumpet in a big band. The result of his efforts are very promising and I think he will achieve his goal. Side note: he's not twenty anymore!

With these thoughts I would like to wish you, dear readers, a Merry Christmas and a Happy New Year in a hopefully more conciliatory 2021. Thank you for your loyalty and I look forward to counting you among our readers in 2021 as well.

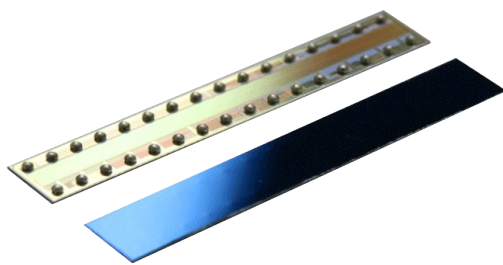
Beat De Coi

PS: LiDAR imaging beyond imagination becomes true. Spectacular news in the next CHIPS newsletter.

The successful epc901 line imager

Why is the epc901 such a successful product for industrial applications like triangulation, surface scan or the like? It's because there are basically two parameters which allow applications beyond imagination:

- A line rate of more than 40,000 lps
- Backside illumination for up to ten times higher sensitivity and less crosstalk



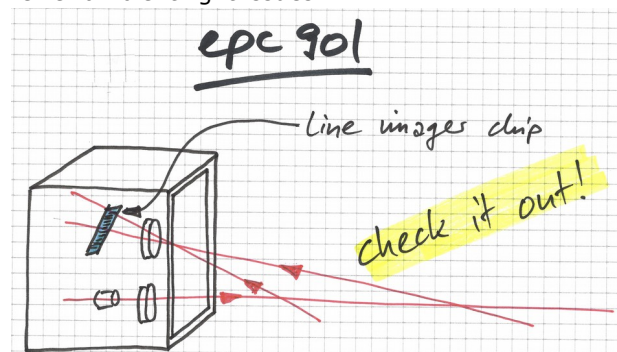
The epc901 is a very compact device with 1.3 x 8 x 0.23 mm

Several industry leading companies have chosen the epc901 line imager for their high end applications.

A line imager is quite a simple device: Just a bunch of very small photo diodes lined up in a row. However, the beauty is that the number of photo diodes is very high, they are very narrow, and have no gaps. This is made possible by the integration of the photo diodes onto one silicon chip which allows

the integration of more circuitry such as amplifiers or temperature sensors.

The result is a very versatile device with many applications. In addition, thanks to the features of our OHC15L CMOS/CCD technology, even more applications are feasible. Its 1024 pixel with a size of $7.5 \times 120\mu\text{m}$ is about ten times more sensitive in the near infrared NIR than competitor products. It allows applications to run on lower power and with fewer ambient light issues.



Triangulation with epc901 made easy

One powerful application with the epc901 is triangulation light barrier with the capability to accurately measure distance with μm resolution. This concept can also be used for proximity light barriers with background suppression.

What are your responsibilities at ESPROS?

I work in the marketing department based in Sargans, Switzerland. My main job is to create text, for a wide variety of marketing uses such as this newsletter and our website, flyers, brochures, and all public relations activities. I also proofread (check) all important documents that are in English for correctness and clarity. In addition I translate documents into English where necessary.

How long have you been working with ESPROS?

I have been with ESPROS since 2018.

What do you like about your job and working for ESPROS?

I like the challenge of clearly communicating technical issues as well as the huge potential offered by our TOF products. It's great to be part of a such a motivated team; a leader in advanced innovative technology, which itself offers so many benefits to society in general.

Where do you come from?

I'm an Irishman, but also a Swiss citizen, I have been living in Switzerland, for 16 years, I love it here and I appreciate the clean spectacular countryside and its picturesque villages. However, I miss the Atlantic ocean and the dark Irish humor and the pubs!

Can you tell us about your hobbies?

I like skiing, cycling, hiking, scuba diving, traveling, reading, current affairs, and I have been an avid fan of Formula 1 since the 80s, spending time with my family is very important to me, I have two young children who love skiing and football, so going to races and matches. is almost a full-time job in itself!



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