



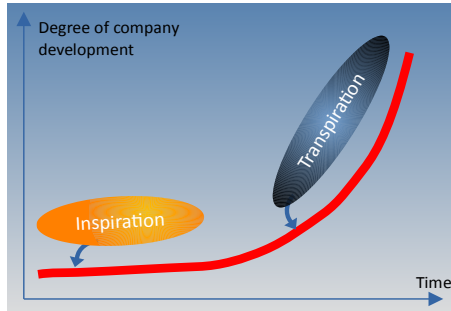
**Resistance is never the agent of change. You have to embrace the actions that are going to get you closer to your goal.**

*Ali Vincent*

**CEO's Note**

Dear Reader,

The life of a startup company is incredibly interesting. I have been fortunate in my life to experience this twice. I founded my first company 36 years ago. Then, I was young, naive and full of energy. The goal was to build a company that develops optoelectronic products (today it is called "Photonics"). A simple engineering company. Over the years, this has grown into an enterprise that employs now several hundred people and plays a global leading role in optical sensors in the elevator and escalator, door and gate industry. With everything included in the company: from development to production, service and worldwide sales. Interesting: The company's field of activity no longer corresponds to the original goal of being just a small and simple engineering company. Nevertheless, it was exciting to experience the transformation of the company from a start-up to a real industrial enterprise. This was the case about 7 years after the firm was founded. But it took a total of 15 years before we finally found our very successful market position.



16 years ago, I launched ESPROS with the clear goal of setting up a semiconductor technology that offers ideal conditions for TOF and LiDAR sensors. Today, 16 years later, we have gone through all the phases of a start-up: from technology research, to product development, process development, marketing, establishment of a sales network, and production, which this year has an output of around 20 million chips and 20,000 cameras. It's interesting to note that, compared to the first company, today we are doing exactly what the vision was. But it also took us almost 15 years

to emerge from startup mode.

And as I look back today, on both occasions the most difficult phase was the introduction of changes in people's minds during the industrialization process. That's a transpiring process. It's great that my colleagues have accepted the challenge of change and are actively involved in it. I am very grateful to everyone for that, because it cannot be taken for granted. But it opens the way to the future. It's the only way.

Beat De Coi

**Unrivaled Ambient Light Suppression Capability**

One of our unique specialties is how our TOF and LiDAR imagers handle full sunlight. This is the major issue for everyone building TOF and LiDAR imagers and sensors for outdoor applications. The imagers have a built-in ambient light suppression technology, which allows the operation of the cameras at full sunlight. Up to 8 million sunlight electrons can be accepted to measure distance with an SNR of more than 10 dB. This is the incredible ratio of 1 to 1,000 between light for distance measurement to ambient light.

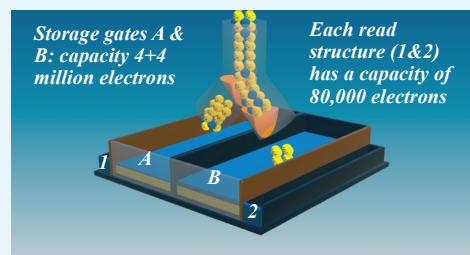
mance even in full sunlight. If you are looking for pure shot-noise-limited TOF and LiDAR imagers, ESPROS has the solution.



*ESPROS TOF imager chip family*

ESPROS' TOF chips feature storage gates with unrivaled storage capacity, which translates into incredibly reliable detection and monitoring perfor-

8 million electrons full well capacity of the storage gates. Even at a ratio of 1 to 1,000 between modulated and ambient light, accurate distance measurement is possible.



(All epc6xx chips share the same pixel)

*ESPROS ambient light suppression (ABS) technology*

If you are interested in more information, please visit this [link](#) and contact us. We would be pleased to introduce you to our technology and to have the opportunity to assist in ensuring that your infrared sensors reach their optimal potential in full sunlight.

### What is your job at ESPROS?

I am part of the sales team as a product manager for the Modules business unit. Together with our field service, I seek out applications that go well with our technology. I support our product development and field application teams on custom and new camera designs. The entire lifecycle of our time-of-flight cameras is my responsibility. I also take care of the paperwork, for example for changes, complaints, operating instructions and data sheets.

### How long have you been working at ESPROS?

I started my work at ESPROS in February 2019.

### What do you most enjoy about your job?

I can use superlatives here: applying outstanding technology, working in a fantastic team in a beautiful workplace, being involved in designing products of the future with great freedom of choice.

### Where are you from originally and where do you now live?

I grew up in the very small village of Untereggen near St. Gallen. As part of my studies at the NTB (university of applied sciences) I moved to Werdenberg. Currently I live in Sevelen but spend most of my time with my girlfriend "just around the corner" in Wangs.

### What do you like to do in your spare time?

My hobby is playing music. I play the trombone, tuba and alphorn in several bands. And I really enjoy spending time with my girlfriend, family or friends in

the mountains, on the shore of a lake or at my small winery in Hungary.



### What would you most like?

One day I would like to be fit enough to climb one of the magnificent four-thousanders in Switzerland. And then of course I want to actually do it too!

## ESPROS modules harness the full potential of the epc6xx range

Designed to harness the full potential of our epc6xx family of TOF chips, ESPROS also offers a comprehensive range of very compact and efficient TOF sensor modules, miniature 3D cameras, using the ESPROS proprietary Time-of-Flight technology featuring the optimum ESPROS chip for specific applications.

The TOFrage-611 is a range-finder, while the TOFcam-611 is a 3D TOF camera. They are both very small in size, and use the epc611 TOF chip and a small LED to illuminate the scenery. The TOFcam-635 and the TOFcam-660 are based on the epc635 chip (160 x 60 pixel) and the epc660 chip (320 x 240

pixel) respectively. These cameras control the illumination and the imager chip to obtain distance and grayscale images, allowing a variety of applications. Thanks to the unparalleled performance of the imager chips in terms of ambient light suppression, these modules can be used in outdoor applications, which need to operate in full sunlight.

The cameras create point clouds in an x/y/z coordinate system, including confidence data. And, there are ROS drivers available which allow an easy system integration.

Find more information under this [link](#).



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Check out on [Digi-Key](#) or get in touch with our [sales team](#).



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