

**Whatever you want to do,
do it now. There are only so
many tomorrows.**

Michael Lando

CEO's Note

Dear Reader,

What a great event. ESPROS Photonics received the award as the best supplier from CEDES for the year 2020. ESPROS has been the supplier of TOF and other photonic chips to CEDES since 2009. During this time period, more than 147 million parts of several types have been shipped to CEDES.

CEDES develops intelligent, safe sensor solutions. It has been a pioneer in elevator solutions for decades. Founded in 1986, CEDES has been developing innovative solutions for safety and information systems, automation, monitoring, industrial computers and controls. Beginning life as a two-person start-up in a kitchen, CEDES now employs around 400 peo-



From left to right: Urs Grimm, Beat De Coi, both ESPROS and Christian Erik Thoeny, CEO CEDES Group, during the Bison Award presentation

ple worldwide as a global leader in optical sensors utilizing active infrared technology and image processing. Millions of sensor devices leave the CEDES factories in Switzerland and China to their customers worldwide. CEDES combines pioneering spirit with Swiss quality and innovation around the globe.

As a sign of CEDES' appreciation for outstanding performance, they annually honor the best supplier with the BISON Award. On April 14, CEDES celebrated this award to supply partners who have long contributed to the success of CEDES and loyally stood by its side in the difficult year 2020, providing excellent support and unconventional solutions.

Beat De Coi

The new TOFcam-660

The new TOFcam-660 is gaining great momentum. Many R&D projects have been finalized by using this 3D TOF camera. The applications are manifold: from people counting to entrance surveillance over care room monitoring to robot control and safe.



TOFcam-660: A general purpose TOF camera for outdoor applications

Pedestrian crossing safety to delivery robots are also applications of the TOFcam-660. Almost all of these applications need long range, wide field of

view and reliable outdoor performance. Everything is fulfilled by the TOFcam-660 due to its high performance TOF imager epc660. It utilizes our unique CCD/CMOS technology which allows photon shot noise limited operation. In other words: higher sensitivity, less ambient light dependent, less illumination power required.

ESPROS recently received a major commitment from a global manufacturer of access control hardware for security access in North America. Advanced algorithms and machine learning were developed by the OEM to evaluate the TOFcam-660 point cloud and to take decisions. The TOFcam-660 was selected because of the 100k lux performance in outdoor installations.

Furthermore, the 320 x 240 pixel field was the right combination of point cloud density without risking privacy issues of facial recognition. Thus, applications with TOFcam-660 are fully GDPR compliant, according to Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation).

Stefan; Production planner semiconductor

What are your responsibilities at ESPROS?

It is my responsibility for on-time delivery to our semiconductor customers. This involves, coordinating with the sales department, planning production and procuring raw materials, it also requires close cooperation with the R&D of TOF camera prototypes and small scale production runs. Increasing camera sales required recently dedicated additional production lines which is managed by my colleague now. So I can focus on chip production planning, where sales volumes increase as well very nice.

Improving overall planning, monitoring and optimization with both production and process engineering are my other responsibilities. I have contributed to a more continuous flow of material. However, a lot of interesting work lies ahead due to company growth.

How long have you been working with ESPROS?

Almost exactly three years.

What do you most enjoy about working with ESPROS?

Working for a company that produces something special! I love the variety offered by my work and the uncomplicated way in which our teams interact.

Where in Switzerland do you live?

I have been living for the past 20 years in St. Gallen's Rhine valley. However, I grew up in the Berne area. On the other side of the country.



What do you like doing in your spare time?

I'm not big into hobbies, but I enjoy being in the garden and reading. I also take part in handcraft courses, and enjoy hiking and sometimes cut grass in a meadow with a scythe. I have made a pair of my own shoes and occasionally I bake cakes.

Interactive multi media show with TOF

The ESPROS DME 660 3D camera will be play a key role in the forthcoming [Light Ragaz](#) multimedia spectacle. The nightly transformation of the approximately 1 kilometer long tour through the breathtaking natural scenery of the Tamina Gorge offers visitors the world's largest natural screen for moving pictures. Light Ragaz takes place from 13 May to 16 October 2021. ESPROS Photonics products are to play an important role in

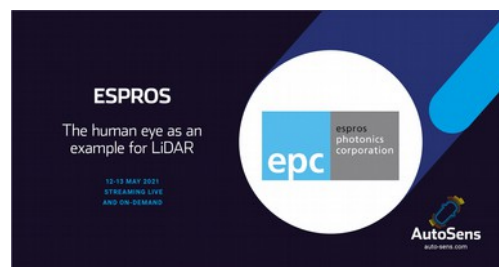


what will likely be one of the few large scale public events over this period. Some 30,000 visitors are expected to see and feel the show over the five months. Beat De Coi praised the company's product engineering team for its focused work on the project. The ESPROS station will enable the visitor to immortalize himself/herself with a face projection onto the imposing rockface. [Watch the trailer \(language German\)!](#)

«The human eye as an example for LiDAR»

The human eye is an incredible sensor. Why not to have a closer look how this natural sensor works which outperforms every manmade sensor in terms of spacial resolution, dynamic range, ranging capabilities by virtue of a very clever design. Beat De Coi, CEO of ESPROS Photonics provides an insight into the secrets of this fantastic part of the human body.

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