



Don't listen to good sense when you want to make a dream come true.

Henry Ford

CEO's Note

Dear Reader,

It's incredible. I recently discussed the possibilities of our OHC15L semiconductor technology with a colleague and asked ourselves: "Where are the limits?" We were not concerned with the question of how high the packing density on a chip should be. Or how many transistors can be put on a chip. The questions that concern us are, for example, how many images per second can be taken with our imagers. We've already designed a mega-pixel imager chip that records 20 million images per second (fps). That's not possible in a continuous stream, of course. But at least 180 images in a row

every 50 ns. What makes this achievement possible? It is the CCD technology that can be used as an analog memory on-chip. This allows many complete images to be stored within one pixel and then read out at slower speed.

How about having a line sensor that can capture 1 million lines per second? Or even 100 million lines per second in a burst of 1000 frames? Not everything is possible. But this is a valid possibility with our OHC15L technology. The limits are only set by physics and not by imagination. Let's start dreaming.

Beat De Coi

TOFrance-611 the mini range-finder

The [TOFrance-611](#) is a miniaturized and cost optimized range-finder. It is based on the ESPROS time-of-flight technology using the epc611 TOF chip and a small LED to illuminate the scenery. The range-finder controls the illumination and the imager chip to obtain distance and confidence information. Due to the high performance of the imager chip with its unique ambient light suppression, the range-finder can be used in outdoor applications at full sunlight. This allows a wide variety of new applications, e.g. for mobile robotics. This very small module is easy to use because it delivers fully calibrated and compensated distance values. All the complex engineering and time consuming design tasks regarding optics, illumination and signal processing are already solved.

revolving door monitoring and safeguarding, level measurement, object classification and people counting.

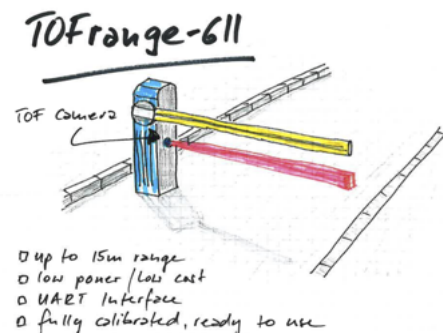
Key features are

- Up to 15m distance measurement range on white target
- Measurement rates of more than 500 measurements per second possible
- Customer specific versions and functionality available upon request
- Very light weight
- Low power consumption (5V, 500 mW)
- Very robust and stable
- Ambient-light compensated up to 100 kLux
- Temperature compensated
- High speed serial interface
- Small detection spot 3x3 mm @ 1m



ESPROS' range-finder: TOFrance-611

The robust, light weight and cost effective design of TOFrance-611, together with its excellent full sunlight performance allows it to be used in many industrial in- and outdoor applications. Among the potential application areas are: gesture recognition, in-car monitoring, rotating scanners for scenery mapping (SLAM) such as for household robots,



Parking gate operated with TOFrance-611

For further information please get in touch with us at sales@espros.com or purchase it on [Digi-Key](#).

What is your job at ESPROS?

I improve the throughput and yield of our wafer production in my position as Senior Process Engineer for backend processes. Maintaining close contact with the suppliers of our production equipment helps us to optimize. Daily conversations with our operators let me understand their needs and to find a way to make their life easier and increase their efficiency in one go. Part of this is the creation or improvement of working instructions. Regular contact with my colleagues from other departments enables me to fix problems more quickly through teamwork. I also search for useful production tools and clarify specifications before we order it and handle complaints if a tool doesn't work as expected. Organizing meetings with suppliers and scheduling on site support is also part of my job.

What do you most enjoy about your job?

I love taking on new challenges each day in the production area and I believe it is essential to prevent boring routines when a job is very technical.

Where are you from and where do you now live?

I am from Germany and live in a village near Pforzheim at the northern border of the Black Forest. My 2nd home in Switzerland is on Lake Zurich near Rapperswil.

What do you like to do in your spare time?

I like motorcycling together with my wife as pillion passenger in Switzerland, Austria and northern Italy. We plan tours sometimes by ourselves or join guided tours of our bike club.

My favorite vacation in summertime is on a beach, swimming in the sea and doing (almost) nothing under the sun.

Going to concerts, working in the garden and relaxing with a BBQ when it's done is also nice on weekends. Last but not least, I love to play with my grandchild who lives with his parents near Stuttgart.



Uwe on tour at lake Moiry, Kanton Wallis

Mainly in the winter season I prefer 'non-activities' such as relaxing in a spa. Sometimes I go skiing, which I learned here in Switzerland, but I still have to improve this "process".

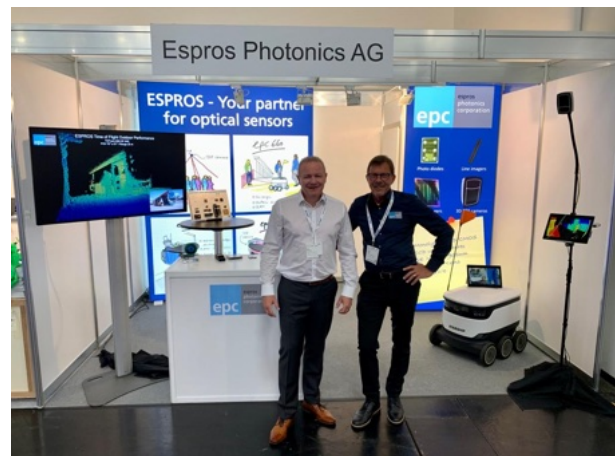
Thank you for visiting us at Automatica in Munich

Over 600 exhibitors and 41'169 visitors took part at the Automatica trade fair in Munich, end of June. We exhibited for the first time and presented our product portfolio with line imagers and time-of-flight sensors.

The show proved to be successful since we were able to generate a lot of leads with promising applications, thanks to our outstanding technology.

Many thanks to all the visitors to our booth. And we look forward to seeing you at one of our upcoming trade fairs.

Contact us, if you have any questions: sales@espros.com.



Sales people like trade shows. It enables them to talk to customers and exchange ideas.

You want to purchase our products? Check out on [Digi-Key](#) or get in touch with our [sales team](#).



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