

Do not believe, just because wise men say so. Do not believe, just it has always been that way. Do not believe, just because others may believe so. Examine and experience yourself!

Kalama Sutta, the Buddha

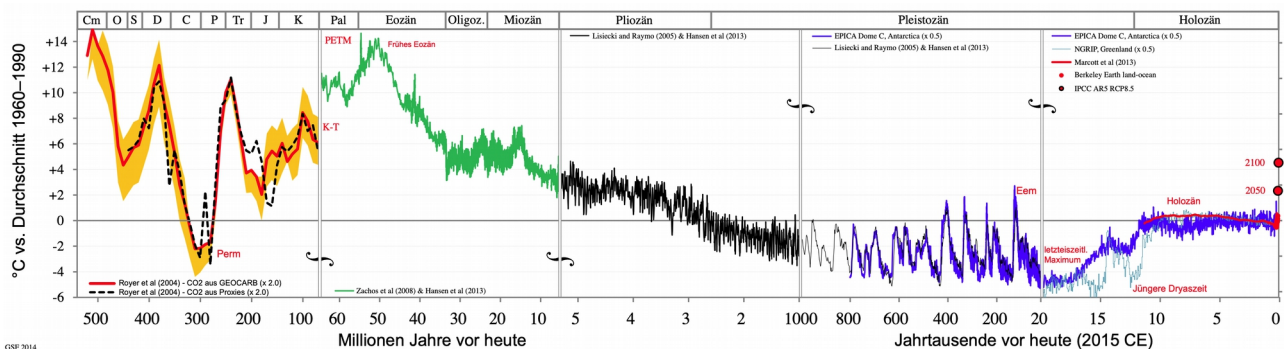
CEO's Note

Dear Readers,

We are living in a great time. on average, people on earth became extremely wealthy. At least compared to let's say, 50 years ago. At that time, Portugal was the poorhouse of Europe. China was in the midst of the Cultural Revolution, after the Great Leap Forward which had an estimated cost of roughly 45 million deaths. The most of earth's populations still suffered inexpressible poverty. The oil crisis in the seventies led to massive unemployment all over the world.

temperature on earth was lower. In the seventies, the next ice age was predicted by climate experts!

Today, the life expectancy in Switzerland is 83 years! A tremendous development in health care, air, water and other supply cleanliness, safer roads etc. made this possible. But what happened with earth's temperature? Instead of getting lower, it is increasing, at least in a short term. However, is it really because of the humans? A view to the temperature statistics (refer to the diagram) does not allow in my eyes a prediction, of what the tempera-



Source: Wikipedia, <https://de.wikipedia.org/wiki/Klimageschichte>

I grew up in a world of poverty and nonexistent environmental protection. Even then, in Switzerland, there were waste dumps in the forests in my neighborhood. It was great because I found replacement parts for my bicycle. Most of the towns did not have any waste water treatment but, dumped it to the creeks and rivers. Typically, the skies were gray because of smoke in the air because of wooden or oil fires in the houses for heating. Cars did not have any exhaust filters never mind about catalytic converters. The life expectancy in Switzerland was 73 years only. And, the average

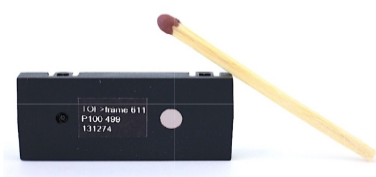
ture in 2050 would be or even 2100. What we see is simply some noise. I would be very happy as an engineer, if I could do signal noise analysis like the climate research community is doing. Such a precise extrapolation of something out of noise. And, in addition, to identify the root cause of the problem in such a complex environment like earth's climate.

I know that this critical questioning is not opportune, not to say politically incorrect. Because the mainstream meaning defines such (loud) thinking as climate lying! I'm with Buddha!

Beat De Cui

TOF>frame 611 – small module, full power

TOF>frame 611 is a miniaturized and cost optimized 3D TOF camera, just 5mm thick but up to 3m in operating range. It is based on the ESPROS proprietary time-of-flight technology using the epc611 TOF chip, a tiny LED and a 20 cent MCU. Due to the high performance of the imager chip with its unique ambient light suppression capability, TOF>frame 611 can be used outdoor 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 3D images. All the complex engineering and time consuming design tasks regarding optics, illumination and signal processing are already solved.

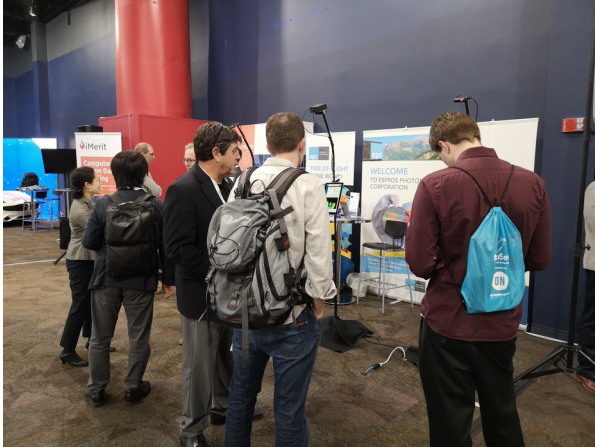
TOF>frame 611 is perfect for such applications as basic gesture control, people counting, proximity sensing up to 2m, background suppression sensing, door openers, door protection, etc. It has ideal properties with its FOV of 12° (h,v) and ambient-light tolerance of 100klux.

ESPROS Photonics at AutoSens Detroit

ESPROS had its debut at AutoSens Detroit, held last week at the Michigan Science Center Detroit. We showed our modules to the US Automotive industry.

- TOF>cam 635
- TOF>cam 660
- TOF>range 611
- TOF>frame 611

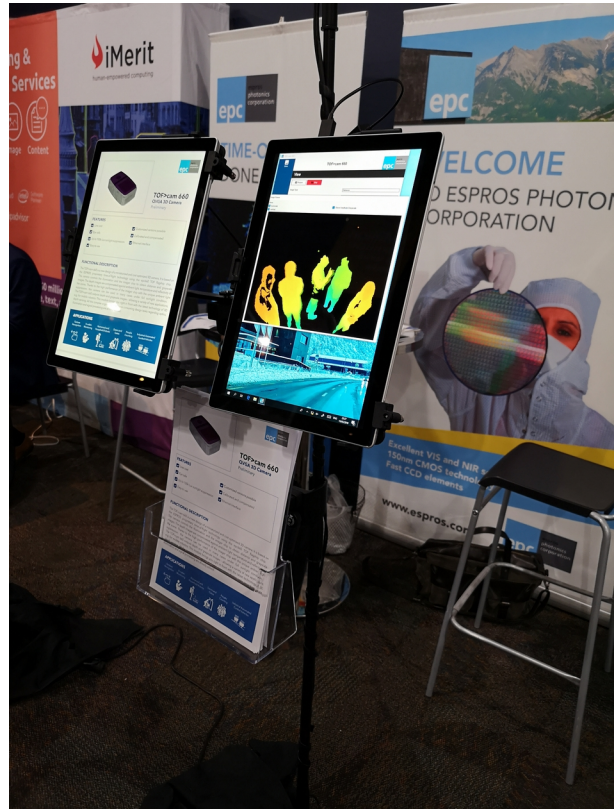
Attendees who stopped by were very impressed about the live demos at our booth. Many of them



AutoSens Detroit, Michigan Science Center

said "these are the best 3D TOF cameras I've ever seen and worked with". Of course, we are very happy to hear such nice compliments.

In September, you can see us also at the AutoSens Brussels. For ESPROS AutoSens is a very good



TOF>cam 660

opportunity to meet all customers and potential customers from the Automotive industry.

ESPROS Photonics event schedule for 2019

This year, ESPROS is on the road and show up at several events. Beside our own TOF Developer Conferences in Switzerland, USA and China, we are exhibiting at shows all around the world. The next presentation will be at

CIOE CHINA INTERNATIONAL OPTOELECTRONIC EXPO

September 4th – 7th 2019, Shenzhen China

where we will have a world premiere of new products. Stay tuned and get your Ticket now. We are looking forward to your visit at our booth 3A03 at CIOE 2019, the largest photonics exhibition in the world.

Automotive is one of the biggest adopters of 3D TOF and LiDAR technology. Thus, we expand our presence at AutoSens for already the fourth time in Brussels, Belgium:



AutoSens

September 17 - 19, Brussels, Belgium

And, last but not least, the robotics market is growing so our product range matching the requirements of this new

ROBOBusiness
INSPIRATION ■ INNOVATION ■ IMPLEMENTATION ■ COMMUNITY

October 1st - 3rd 2019, Santa Clara USA

++ Be part of our team and click here for our current job opportunities ++