CHIPS.

Newsletter
August 2020

CEO's Note

Dear Reader,

While we are still fighting the corona pandemic but a new pandemic is spreading - that of moralism. It does not terrorize our body, but it impacts our spiritual freedom. In the old repressive manner, attempts are made to exclude those who think differently.

These are all those who do not immediately applaud and join the chorus of opponents of discrimination when slavery, colonialism or other historical realities are made the subject of political agitation against families, companies or other "profiteers" of this development. You have to applaud when the monuments of deserving personalities of that time are torn off the pedestals or smeared with paint.

Where is the confrontation with the problems of our present? Who takes to the streets or is outraged on social media? Who is equally vocal against political oppression in Asia, the Middle East, and Africa? Or in Belarus after the latest election?

Wouldn't that be much more important than in moral exaggeration - provided with the grace of those born later to break the bar about alleged past mistakes. Is it justified that today's flawless "good" people swing the moral club?

We should stop worrying about bogus problems. Terms like "Mohrenkopf", a Swiss term for a chocolate head filled with sweet cream (a straight translation leads to "black head"), or the brand "Schwarzkopf" for hygiene products (straight translation "black head"), "Negroni", a salami brand, or even my butcher with his family name "Möhr" (black head) etc. are not the main problems of our time. And, none of them are racists!

The real new danger of the present is the rampant swarm stupidity and those who no longer dare to rebel against this pandemic of rhetoric of discrimination and intellectual leveling. This pandemic threatens our freedom in the most dangerous way.

The corona pandemic is drastic enough. We don't need a moralism pandemic (term by my friend Walter Locher) either - but we do need a freedom of debate.

Beat De Coi

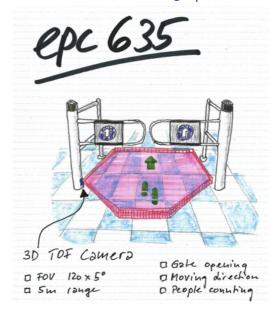## Gate opening and people counting with ESPROS' TOF imager

Automated gates are a standard feature in most commercial and residential buildings and public infrastructure as well as in industrial environments. They are a substantial aid to accessibility for everyone, not only for people with disabilities. In addition to being the preferred means of access these controlled doors are excellent for people-counting in shopping centers, stadiums or airports. Sensors based on ESPROS time-of-fight imagers offer a powerful solution for these tasks. The reliable presence detection in dark as well as under full sunlight conditions protect people standing in the doorway of a pedestrian gate. Recognition of the moving direction allows selective door control and reliable counting of people entering or leaving people. Combining these major features in one single sensor allows the most cost-effective solutions.

About the epc635
The epc635 is a fully integrated 3D-TOF imager with a resolution of 160 x 60 pixels (Half-QQVGA). As a system on chip, the epc635 contains next to the CCD pixel-field the complete control logic to operate the device. Only few additional components are needed to generate a complete 3D camera. Depending on illumination power and optical design, a resolution in the centimeter range for distances up to dozens of meters is feasible. Up to 512 full frame TOF images are delivered in rolling mode.

The extremely high sensitivity of the chip allows for a reduced illumination power and reduced overall power consumption compared to other TOF imagers. And thank to not very high resolution, the overall system cost are very low.

More information from sales@espros.com

epc 635

3D TOF Camera
☐ FOV 120 x 5°
☐ 5m range
☐ Gate opening
☐ Moving direction
☐ People counting

What are your responsibilities at ESPROS?
My responsibility is to develop and support software for our TOF cameras. I develop evaluation kits, drivers, applications for different OS platforms and different TOF cameras.

How long have you been working with ESPROS?
I joined the company in October 2016.

Where do you come from?
I am from Lithuania and I have been living in Switzerland since 2009. I love this country: beautiful nature and a very good quality of life. Since I was a teenager, I had the dream to come to Switzerland.

What do you like about your job and working for ESPROS?
I like to work for ESPROS, because here I can do what I love most. I like using C++ to develop the new software and algorithms for machine vision applications.
We work with high quality engineers on cutting edge technology in very nice environment.

Can you tell us about your hobbies?
I like to play music, fly paraglider, read books and hiking. I am interested in learning new scientific and technical things. Also I like to build airplane models.

Linas and his paraglider, looks like a Sputnik Cosmonaut after the landing in Kazakhstan after a space mission

HDR mode on TOFcam-635

The TOFcam-635 visualizer's extended functionality accelerates the implementation of TOF cameras into a specific application. Scope functions and 3D point cloud in addition to common distance and amplitude values simplify optimizing the camera parameters.

The effect of HDR and filter settings are visible immediately which offers most efficient sensor adaptation to a current scene - the right way for best TOF performance in mobile robotics, entrance control or people counting.

Watch the video below!

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