

Introducing ALEX & ELSE

Dear Reader,

Originating from one of the most thriving cities in the world - Berlin in Germany, greateyes has developed into one of the global leading manufacturers of high-performance, scientific-grade, low-light digital cameras. Like our home town, we are energetic, open minded and free spirited. Yet

we also value and appreciate our German heritage in being precise, innovative, and down-to-earth.

After years of determination and hard work, we would like to introduce you to our new camera platforms ALEX and ELSE which I am convinced will bring many features and functionality that can greatly benefit your research.

Roman Kemmler
greateyes CEO

ALEX is making its debut!

greateyes is proudly introducing its all new ALEX camera platform for your spectroscopy and imaging applications in the VUV, EUV, soft and hard X-ray range.

It integrates cutting-edge low-noise electronics and ultra-deep cooling technology (-100 °C) while keeping a very compact camera design. Multiple readout speeds can be selected, supporting pixel rates from 50 kHz up to 5 MHz. True 18-bit AD conversion allows the user to exploit the full dynamic range of the CCD sensor resulting in superior signal-

to-noise ratios (SNR).

ALEX is ideally suited for detection of very weak signal intensities where a low noise floor is paramount. It also offers a stellar performance if speed is what the application requires. The choice is yours! Altogether ALEX offers unprecedented possibilities for your measurements of tomorrow. For further details, please [Click Here](#).



ALEX

ELSEi now joins ELSEs

Following last years' successful product launch of ELSEs, ELSEi has now completed the camera family for demanding UV, VIS, and NIR imaging applications.

Similar to ALEX, the new ELSE product line sets high standards for noise performance, readout speed, and dynamic range. This very compact camera supports multiple readout speeds in excess of 5 MHz. The frame rate of

all ELSEi models can be further increased by utilising multiple readout ports. Industry leading 18-bit AD conversion ensures the best SNR which is especially useful for pixel binning mode. Long-term ultra-deep sensor cooling performance is guaranteed by a lifetime vacuum guarantee. For more information about our exciting ELSE camera, please [Click Here](#).



ELSE

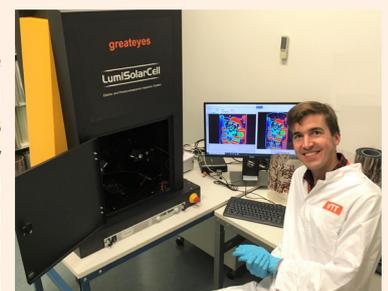
"Santa Claus" OPV module

In the north of Finland, 200 km south of the arctic circle, VTT Technical Research Centre of Finland Ltd. has the vision to develop novel energy harvesting solutions. VTT is able to accomplish this by combining flexible, lightweight organic or perovskite PVs with other components like energy storage systems and/or complex sensors systems.

Their [Printed Intelligence Division](#) is specialised in printing solar cells and modules that can easily be placed on various surfaces and – on top of that – they have the expertise to create designs the world has not seen before.

By the end of last year we received special season greetings from Dr Thomas Kraft and his team when they shared a PL image captured with the newly acquired greateyes LumiSolarCell system revealing detailed structure of their "Santa Claus OPV module".

Read the full application note and get more information about VTT's [Santa Claus OPV module](#).



Dr. Thomas Kraft | VTT
(Photo by Dr. Riikka Suhonen)