

# PRESS RELEASE

## The highest speed vari-focal lens in the world comes to Optatec

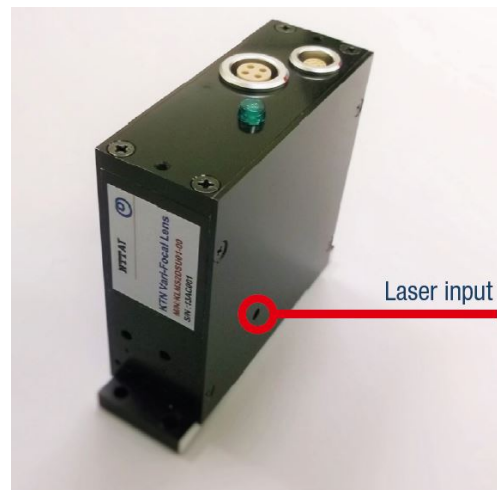
Martinsried, 2. Juni 2016 – A live demo will show how the vari-focal lens shifts the light coming from a laser operating at two wavelengths. The focal length can be varied in 1 micro second by supplying voltage to the KTN crystal.

The lens provides extremely fast time response, allowing easier automation because shifting the light is driven completely electronically and not using any moving mechanical parts. This lens is the highest speed vari-focal lens in the world, with a focal length that can be varied in a matter of micro seconds.

A 3D image can be obtained by changing the focal-length continuously or shifting it instantly. The KTN vari-focal lens works as a convex lens and the focal-length is varied in proportion to the square of the supplied voltage. It has been confirmed that the vari-focal lens can be applied to various fields because a voltage of 1 kV can result in a focal-length shift of 4 cm in a lens with  $f=25$  cm.

The vari-focal lens can be employed in all application areas that require the light to be focused, such as microscopy, OCT, various types of experiments, sensing, laser processing.

The live demo will be demonstrated at AMS Technologies' booth at the Optatec 2016 show (booth A28)



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