

Shaping the future of optics

Enabling optical innovations

Optotune develops and manufactures industry shaping active optical components that allow customers around the globe to innovate. Founded in 2008, we started out with our core technology of focus tunable lenses, which was inspired by the working principle of the human eye. Laser speckle reducers, 2D mirrors and tunable prisms are further additions to our product lines. Thanks to our deep understanding of optics and mechanics and a passion for technology, Optotune is your ideal partner when it comes to solving challenges where conventional optics fail.

Electrically tunable lenses (/products/focus-tunable-lenses)



(/products/focus-tunable-lenses)

Within milliseconds, the focal length of our electrical lenses is tuned by applying a control current. This unique principle enables the design of faster and more compact optical systems without complex mechanics.

(/products/focus-tunable-lenses)

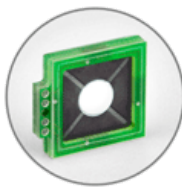
B (/products/focus-tunable-lenses)eam steering



(/products/beam-steering)

For applications requiring large angular deflection Optotune provides innovative beam-steering technology. Our 2D mirrors allow for very large angles within a compact package at reasonable cost. Our tunable prism enables compact, lightweight solutions in transmission. (/products/beam-steering)

Laser speckle reducers (/index.php/products/laser-speckle-reducers)



(/index.php/products/laser-speckle-reducers)

Our transmissive laser speckle reducer offers the most compact and reliable way to remove speckle noise. Electroactive polymer actuators are used to oscillate a diffuser in its plane completely free of mechanics.

(/index.php/products/laser-speckle-reducers)

Beam shifting (/products/beam-shifting)



(/products/beam-shifting)

By tilting a glass window along two axes, Optotune's XPR product shifts a beam precisely by several micrometers at up to 60Hz with high repeatability and long lifetime. (/products/beam-shifting) Combined with a 0.47" DMD the resolution of projectors can be quadrupled from 1080p to 4K.

Always in focus with tunable lenses

3D spot control for laser processing

News

10.09.2018

Interesting article in the VSD Magazin about Optotune's focus tunable lenses being controlled in real-time by Silicon Software's microEnable 5 VCX-QP frame grabber via the Gardasoft TR-CL180 lens controller. (<https://www.vision-systems.com/articles/print/volume-23/issue-7/departments/technology-trends/fpga-based-system-enables-real-time-extended-focus-imaging.html>)

17.08.2018

L (/products/focus-tunable-lenses/electrical-lens-el-3-10)liquid lens telecentric lenses are trending in optics in August! Learn more (<https://www.edmundoptics.eu/resources/trends/in-optics/liquid-lens-telecentric-lenses/>)

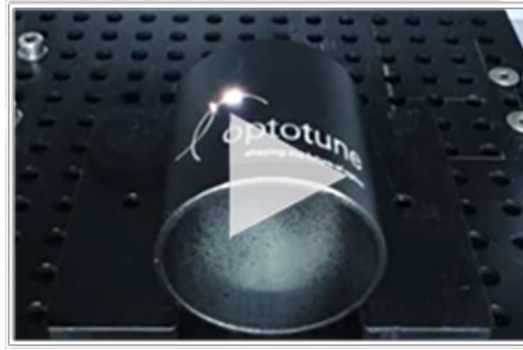
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25.06.2018

Are you looking for a new challenge? Optotune is hiring for various positions! (/about-us/jobs)

09.03.2018

Optotune launches the Extended Pixel Resolution XPR-25 four-position actuator for pixel shifting with 0.47" DMDs (/products/beam-shifting)

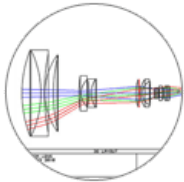


Events



See our latest imaging demos at the VISION show in Stuttgart, November 6 - 8, booth 1A61

Custom solutions (/services)



(/services)

Optotune offers customizations and new product developments to find optimal solutions for OEM customers. Tell us about your application. We are happy to support your product development from concept to series. (/services)

Newsletter

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