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Press information

The revolution in vision measuring: the ultra-fast Mitutoyo Tunable Acoustic Index Gradient (TAG) Lens

The new, ultra-fast MITUTOYO Tunable Acoustic Index Gradient Lens creates a worldwide sensation in the field of innovative optical components. The unique "TAG" Lens boasts an unbelievably fast focusing figure of no less than 70 kHz and will revolutionise any branch that utilises fast focusing lenses.

Neuss, March 2017. The sheer specs are truly unsurpassable: The new MITUTOYO TAG Lens – an acronym for "Tunable Acoustic Index Gradient" – boasts an almost incredible 70 kHz of variable frequency of focal length, whereas competitors' comparable products still range below 1 kHz. It does not take a mechanical movement to control the focal distance – piezo signals trigger the ultra-fast adaptations of focus. To top it all off, the new Mitutoyo TAG Lens boasts a 40x larger distance of focus than standard lenses.

Combined with a wide field of focus telecentric lens, the TAG Lens serves as key component for ultra-fast vision inspection applications in food or medical industry, for rapid QR code reading or defect and tolerance inspection in quality management systems. The application of the TAG Lens in the Mitutoyo vision measuring instruments will overwhelmingly reduce cycle-time of auto-focusing, image composition and height measurement.

The TAG Lens will additionally open doors for the Japanese measuring instruments manufacturer to enter all new markets and might serve as a trigger for new partnerships with companies from branches other than metrology.

The TAG Lens now being part of the MITUTOYO high-technology products portfolio is a result of the collaboration between MITUTOYO and TAG Optics (Princeton/New Jersey, USA), centered around the use and development of the TAG Lens for high-precision applications, will include the joint development of the technology for inclusion into MITUTOYO's large optical product systems portfolio. The unique TAG Lens counts amongst the most innovative optical components worldwide.