



TOOZ TECHNOLOGIES

PRESS AND MEDIA

WHO WE ARE

tooz

tooz technologies GmbH is a ZEISS Ventures Company. With the **mission to upgrade normal prescription glasses with digital virtual screens** and provide **individual vision correction** to augmented reality devices, tooz develops **optical engines** for cost-effective, unobtrusive and scalable consumer electronic solutions.

The tooz optics platform **enables partners realizing their own product vision**. From the initial product idea to the final consumer device, tooz technologies provides **turnkey optics solutions in medical grade quality**, embedded in existing eye care manufacturing and value chains.

For more information, visit: www.tooz.com



OUR MISSION

**UPGRADING ALL-DAY GLASSES WITH
PRESCRIPTION & AUGMENTATION
BASED ON OUR CURVED &
VARIOUS OTHER PLANAR WAVEGUIDES.**

ESSNZ SLIM EVO



Innovation Concept.

The innovative reference design “ESSNZ SLIM Evo” represents a significant **evolution** from previous smart glasses. Building upon the success of the ESSNZ Berlin design, tooz has **meticulously refined** and **enhanced** the functionality to create a **uniquely light** and **slim solution**.

ESSNZ SLIM is going to look and feel good.

The overall weight of this innovation concept is clearly below **40 grams** with a battery that survives a full day without charging. This design is perfectly tailored to meet the needs of end consumers for all-day use glasses.

“ESSNZ SLIM Evo” provides the proof that **consumer style expectations**, medical-grade correction **optics** and visual **augmentation** can be realized in a valid product offering

For more information, visit <https://tooz.com/ESSNZ-slim>.



RX ENABLEMENT

The **seamless integration of vision correction** to an augmented reality (AR) solution requires to adjust the system to each **individual** user's vision correction as well as to the specific **AR use cases** needs at the same time.

tooz has developed a **new optics platform** to provide:

- high quality
- medical grad
- cost-effective correction lenses for planar waveguides

On basis of the established **push and pull** lens concept, the tooz optics platform allows a broad **dioptr range for vision correction**. Use case specific binocular virtual image distance adjustment ensures a **perfect match** between virtual and real world. The solutions are agnostic to diffractive, reflective, and holographic augmented reality optics.



PULL



PUSH

ENGINEERING

The centerpiece of our tooz technology is the **seamless integration of vision correction** for AR.

Development & Engineering

In-house optics, engineering and design teams develop optical engines with vision correction feature. Executing an optics-driven technology roadmap, tooz is also offering prescription solutions for optical systems of other players.

Production

The injection-molded optics are produced in tooz' pilot line in Aalen, Germany and can also be transferred to a third-party facility based on validated production processes. The prescription lenses with augmentation fulfill all requirements mandatory for a medical device.



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CONTACT



For more information, visit www.tooz.com.

For further images, videos and technical explanations,
please get in touch.

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