

# TOOZ TECHNOLOGIES

PRESS AND MEDIA



### WHO WE ARE

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: <u>www.tooz.com</u>



# **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, medicalgrade correction optics and visual augmentation can be realized in a valid product offering

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



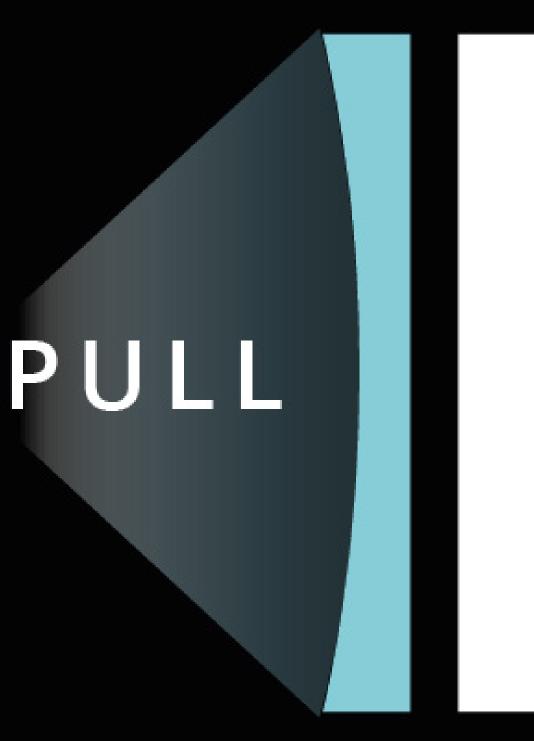
## **RX ENABLEMENT**

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 **diopter 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.



# 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 opticsdriven 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 fullfill all requirements mandatory for a medical device.



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### CONTACT

For more information, visit <u>www.tooz.com</u>.

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

Press contact

Leonie Hoerauf tooz technologies GmbH +49 7361 598835 <u>leonie.hoerauf@tooztech.com</u> tcoz

