



Micro-displays for AR

Free-form micro-optics for brightness enhancement of OLED micro-displays for see-through optics



Phabulous



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Free-form microlens arrays (FMLAs) provide great advantages for improving pixel luminance of OLED micro-displays, especially for Augmented Reality (AR) applications with see-through glasses. MICROOLED designs, develops, and manufactures highperformance micro-displays for near-to-eye applications, as well as complete connected glasses systems. As partner of PHABULOµS they are specifically looking into FMLAs for AR glasses for cycling and other sport activities. Main goal for this use case is to control the angular shape of light output and to enhance brightness of the OLED microdisplay components, especially in connection with compact, free-space optics based micro-projection systems for wearable Augmented Reality applications. MICROOLED will evaluate performance and manufacturability of different designs of micro-optical elements in order to choose the right manufacturing process for industrialisation of the technology.

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