

Self-adjustable lenses for presbyopia (Technion)

code: ENG-1545

Multifocal lenses can be expensive, cause distortions, limit the field of view, and are only set to deal with specific distances. The presented method shows how to design adjustable lenses for presbyopia correction and to create the actual product. The design method includes optimizing the optical element in two or more relative positions for many gaze directions in each fixed position of the lenses. The final product will be lenses consisting of two such optical elements and a dedicated frame that provides good vision at an acceptable visual window without jumps and at a lower cost than traditional solutions.

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