



Fig. 5. Initial layout of an all-refractive telescopic contact lens, using two rigid gas permeable polymer materials to correct chromatic aberration without diffractive optics.

6. Conclusion

In summary, we have presented a novel approach to switchable telescopic contact lens based vision, and demonstrated a preliminary prototype magnifying contact lens switching between unmagnified and 2.8x magnified vision measured on a life-sized human eye model. While image quality fell short of design goals, we have identified an all-refractive achromatization approach that offers improved performance, and is the basis of ongoing research.

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