



Video See-Through Mixed Reality with Focus Cues

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Focus Cues in MR

• Preventing the Vergence-Accommodation Conflict

- Current research directions
 - Multifocal
 - Varifocal
 - Light Field
 - Holographic











System Design

- Vergence distance of user measured
- Virtual screens are shifted towards vergence distance
- Cameras capture focal stack
 within screen volume







Motivation for the Dual-Layer System

• Tolerance to eye tracking error

• Large working volume

• Small form factor







Display Prototype







































MR Focal Stack Examples





MR Focal Stack Examples





VIRTUAL REALITY & 3D USER INTERFACES **THE 29**



camera:









Refocusing Example









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