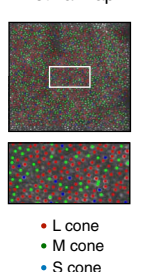
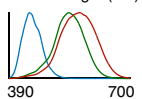


## A Inputs

(i) Cone-classified retina map



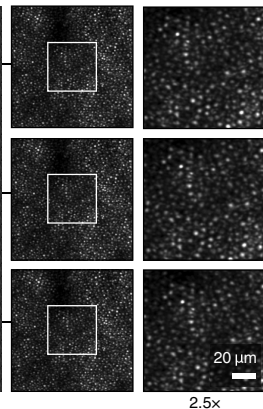
Relative sensitivity vs. wavelength (nm)



(ii) Target video percept

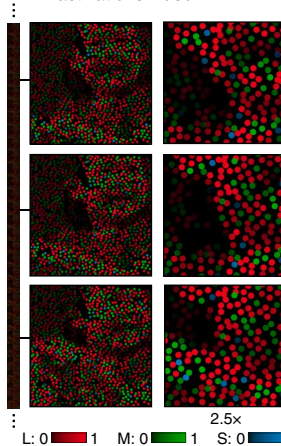


(iii) Live retinal video

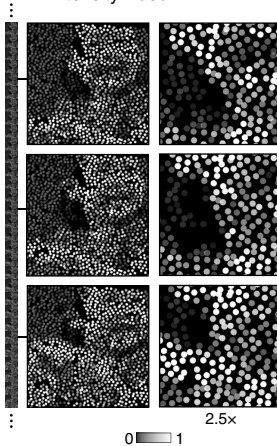


## B Outputs

(iv) Target cone activations video



(v) Laser microdose intensity video

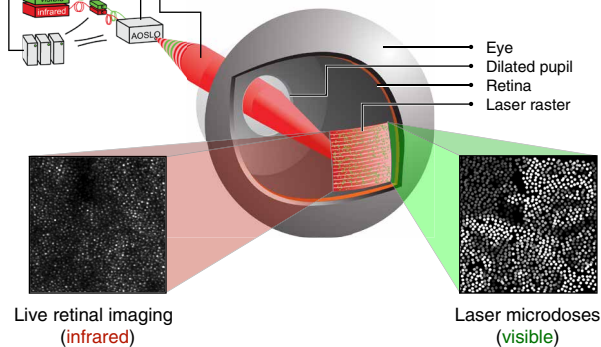


## C Prototype System

- Light sources
- Light modulation
- Adaptive optics
- Control systems
- Laser beam

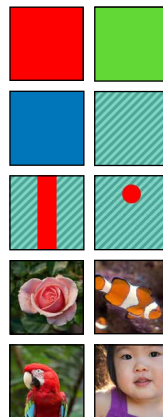
### Prototype specs:

- Raster field of view:  $0.9^\circ$  square
- Raster pixels:  $512 \times 256$  px
- Frame rate: 60 Hz
- Stimulation: 488 or 543 nm
- Microdose rate:  $10^6$  / s
- Motion tracking rate: 960 Hz
- Motion tracking latency: 4 ms

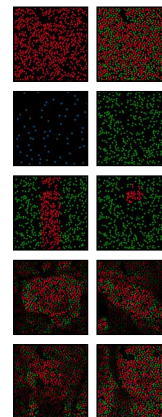


## D Example Oz stimulation patterns

Target percepts



Cone activations



Laser microdoses

