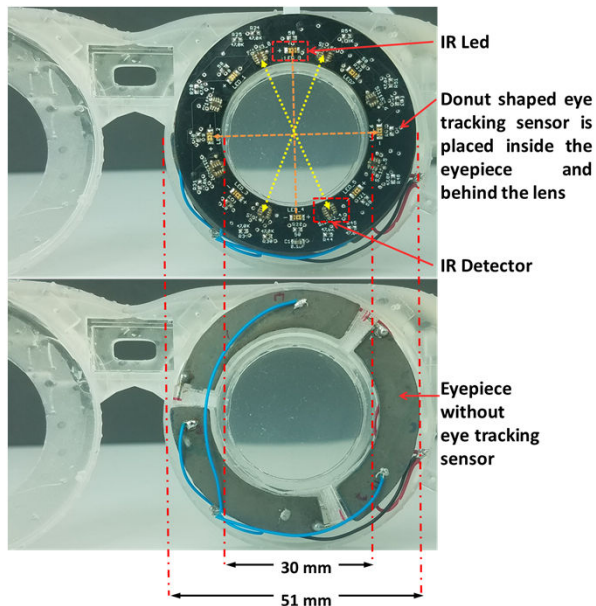
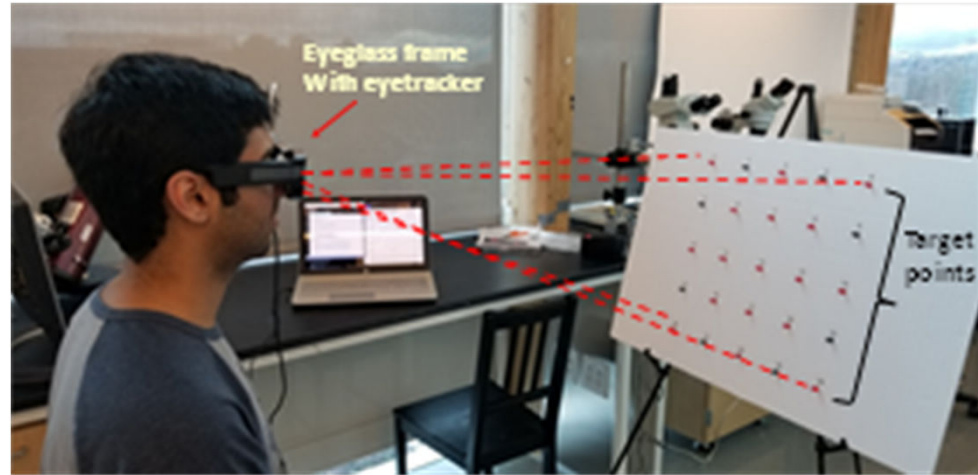
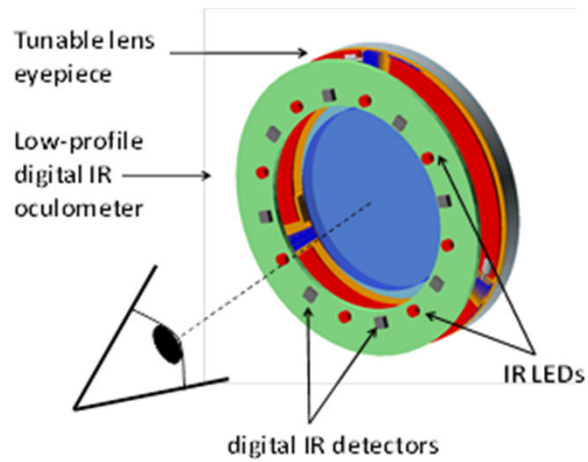


A Low-Profile Digital Eye-Tracking Oculometer for Smart Eyeglasses

Key Points



- Design, fabrication and testing of an IR oculometer for smart eyeglasses was demonstrated in this paper.
- Ultra-slim, low weight oculometer (3.1 mm, 3 g).
- Pupil position determined irrespective of ambient lighting.
- Gaze angle error -
 - < 1 degree RMS with automated test setup.
 - <1.3 degree RMS with observer test setup.
- Total energy consumption – 7.7 mJ/pupil bearing measurement.