Supplementary Material:

Supplementary Figure S1. Box and whisker plot showing repeat measures of fixation instability in 5 subjects. Visual fixation instability was measured in the right eye of 5 healthy subjects (tested 10, 10, 10, 5, and 4 times each). Measurements were collected from subjects 1, 2, and 3 during two sessions, spaced exactly 2 weeks apart. Measurements on subject 4 and 5 were performed during one session. Subjects were given several minutes of rest between measurements to avoid fatigue. Fixation instability was estimated by the random effects model $Y_{ij} = \mu + s_i + \varepsilon_{ij}$, where $\mu$ is the mean fixation instability, $s_i$ is the random effect of subject $i$ with variance $\sigma^2_s$, and $\varepsilon_{ij}$ is the within subject repeatability effect with variance $\sigma^2_\varepsilon$. Mean fixation instability ($\mu$) was 0.031 deg$^2$ with standard error of 0.0087 deg$^2$. Restricted maximum likelihood (REML) estimates of the variances implied high correlation between repeated measurements on the same subject ($\rho = 0.77$).