

SUPPLEMENTAL MATERIALS

Supplementary Table S1: Inclusion and exclusion criteria for participant selection

<i>Inclusion Criteria</i>	<i>Exclusion Criteria</i>
Aged 18 years or older	Optic nerve disease (history of glaucoma of more than 1 month, or history of any other optic neuropathy)
Either gender	Diseases of the inner retina including, but not limited to, central retinal artery or vein occlusion (CRAO, CRVO), end stage diabetic retinopathy, retinal detachment, traumatic retinal damage, infectious retinal disease, inflammatory retinal disease
A confirmed history of outer retinal degenerative disease such as retinitis pigmentosa or choroideremia	Inability to visualize the retina due to corneal or other ocular media opacities (corneal degenerations, dense cataracts, trauma, lid malposition)
Remaining visual acuity of bare light perception or less in both eyes	Any ocular condition that predisposes the participant to rubbing their eyes
Functional inner retina (ganglion cells and optic nerve), as shown by the ability to perceive light and/or a measurable corneal electrically evoked visual response	Cognitive deficiencies, including dementia or progressive neurological disease
A history of at least 10 years of useful form vision in the worse seeing eye	Psychiatric disorders, including depression, as diagnosed by a qualified psychologist
	Deafness or significant hearing loss, or presence of a cochlear implant
	Inability to speak or understand English
	Pregnancy
	Participant enrolled in another investigational drug or device trial for the treatment of their ocular condition
	Poor general health, which would exclude them from obtaining a general anesthetic
	Unrealistic expectations of the investigational device to provide functional vision
	Poorly controlled diabetes
	Epilepsy
	Unsuitable level of regular nystagmus (which would prevent ocular images from being obtained)
	Anyone with medical devices (implanted or carried) that could cause serious health problems if compromised by electro-magnetic interference