SUPPORTING INFORMATION.

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| **Table S1.** TiO2 concentrations for corresponding retinal layers in PDMS phantom. |
| *Layer Number* | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| *Anatomical**Retinal Layer* | BM RPE IOSB | ELMON | OP | IN | IP | GC | NFILM |
| *TiO2* *Concentration* *(wt. %)* | 0.12 | 0.0 | 0.02 | 0.0 | 0.02 | 0.0 | 0.04 |
| *Key:*Bruch’s Membrane (BM)Retinal Pigment Epithelium (RPE)Inner/ Outer Segment Boundary (IOSB) Exterior Limiting Membrane (ELM)Outer Nuclear Layer (ON) | Outer Plexiform Layer (OP)Inner Nuclear Layer (IN)Inner Plexiform Layer (IP)Ganglion Cell Layer (GC)Nerve Fiber Layer (NF)Inner Limiting Membrane (ILM) |