

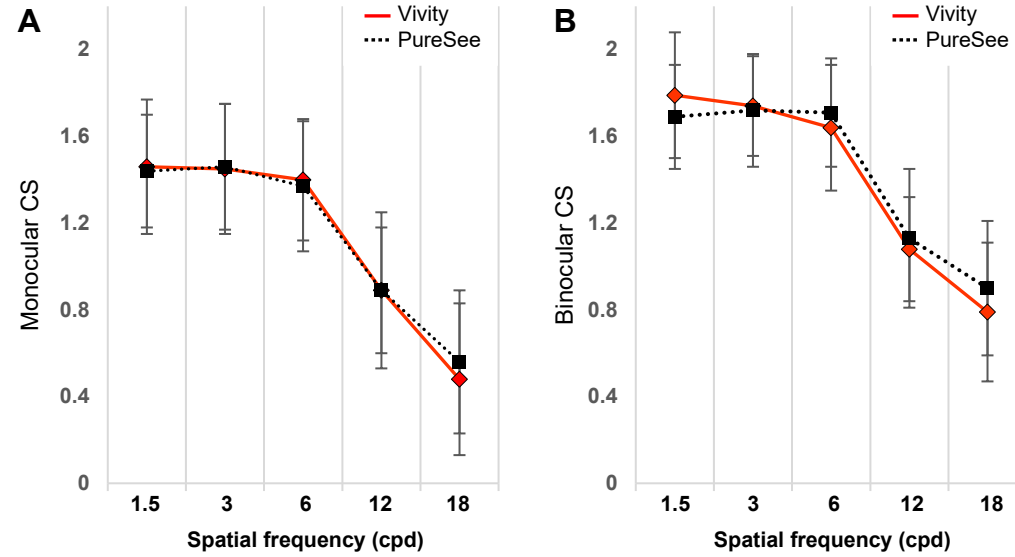
Supplementary Table 1

Supplementary Table 1. Optical properties of Clareon Vivity and TECNIS PureSee IOLs

Parameter	Clareon Vivity	TECNIS PureSee
Optic name	Clareon® Vivity® IOL (CNWET0)	TECNIS PureSee™ IOL (DEN00V)
Optic design	Biconvex and aspheric non-diffractive nature [Anterior] Fully refractive EDoF surface with X-WAVE™ wavefront-shaping technology [Posterior] Proprietary posterior square edge	Biconvex and aspheric non-diffractive nature [Anterior] Correcting corneal SA to near “0” [Posterior] Refractive EDoF with wavefront-shaping, the frosted, continuous 360° posterior square edge
Optic material	[Composition] Advanced hydrophobic acrylic bended with hydroxyethyl methacrylate (HEMA) [Light-filtering] UV-absorbing with a blue-light filter [Color] A yellowish tint	[Composition] Hydrophobic acrylate with a frosted haptic design [Light-filtering] UV-absorbing with a violet-light filter [Color] Transparent
Optic diameter	6 mm	6 mm
Overall length	13 mm	13 mm
A constant (SRK/T)	119.2 (Optical), 118.8 (Ultrasound)	119.2 (Optical), 118.8 (Ultrasound)
Optic power	+10.0 to +30.0 D (in 0.5 D increments)	+5.0 to +34.0 D (in 0.5 D increments)
Refractive index	1.55	1.47
Manufacturer	Alcon Laboratories, Inc.(TX, USA)	Johnson & Johnson Surgical Vision(Irvine, USA)

Note: IOL=intraocular lens; EDoF=extended depth of focus; D=diopeters; SA=spherical aberration; UV=ultraviolet. Data sourced from manufacturer specifications.

Supplementary Figure 1



Supplementary Figure 1. Monocular (A) and binocular (B) CS at 1.5–18 cpd under photopic conditions at 1 month for Clareon Vivity and TECNIS PureSee IOLs. CS, contrast sensitivity. Data shown as mean \pm SD. No significant differences ($p > 0.05$).