The Innovative Neurofocus Optics® technology of the NaturalVue® Enhanced 1 Day Multifocal

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The high levels of uninterrupted plus power progression in NaturalVue[®] Enhanced (etafilcon A) Multifocal 1 Day Contact Lenses is key to its clinical performance and is what differentiates the design from others. Wavefront software helps to visualize this unique lens power profile.

The VTI Neurofocus Optics design of NaturalVue Multifocal is different than that of traditional, dual-focus designs:

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This center-distance, extended depth of focus lens is designed with a rapid, continuous and uninterrupted progression of 6.00–8.00 D of relative plus power building in 5 microns from the center of the lens (+6.00 D to +8.00 ADD).

Mechanism for Myopia: Peripheral Defocus

CooperVision: Dual-Focus Design



Concentric ring design offering alternating power treatment zones, with distance in the central zone (+2.00 D ADD).

Mechanism for Myopia: Simultaneous Defocus

Sources and Acknowledgements:

Data and descriptions: Dual focus - Chamberlain PB, Peixoto-de-Matos SC, Logan NS, et al. A 3-year Randomized Clinical Trial of MiSight Lenses for Myopia Control. Optom Vis Sci. 2019Aug;96(8):556-567 doi: 10.1097/OPX.00000000001410; EDOF VTI-Cooper J, O'Connor B, Aller T, Dillehay SM, Weibel K, Benoit D. Reduction of Myopic Progression Using a Multifocal Soft Contact Lens: A Retrospective Cohort Study. Clin Opthalmol. 2022 Jul 4;16:2145-2155. doi: 10.2147/OPTH.S370041. PMID: 35814919; PMCID: PMC9270009. Images: Power profile and power map for Dual Focus, generated by measuring lenses on a Phase-shifting Schilleren Wavefront Sensor (Lambda X NIMO TR1505); power profile and power map for EDOF VTI, Center-Distance designs measured on a Shack-Hartmann Wavefront Sensor, Contact Lens Analysis Refractometer (CLAiRe), by WaveFront Dynamics.

