



LENS TECHNOLOGY



VARILUX® LENS TECHNOLOGIES:

TECHNOLOGY	WEARER BENEFIT	Varilux Comfort	Varilux Comfort DRx™	Varilux Comfort® W2+	Varilux Comfort® W2+ Fit	Varilux® Physio*	Varilux® Physio DRx*	Varilux® Physio® W3+	Varilux® Physio® W3+ Fit	Varilux X Design™	Varilux X Fit™	Varilux X 4D™
All Varilux® lens designs	Comfortable Reading Area	●	●	●	●	●	●	●	●	●	●	●
Digital Surfacing	Better positions near zone for larger reading area		●	●	●		●	●	●	●	●	●
Smart Blue Filter™ feature	Embedded protection from Harmful Blue Light		●	●	●		●	●	●	●	●	●
W.A.V.E. Technology™	Sharp vision at all distances				●	●						
W.A.V.E. Technology 2™	Sharp vision at all distances even in dim lighting			●	●		●	●	●	●	●	●
Binocular Booster (Varilux® Physio® W3+) SynchronEyes™ (Varilux X Series™)	Allows wearer to easily transition between near & far						●	●	●	●	●	●
New Nanoptix™	Elimination of “off-balance” feeling								●	●	●	
Xtend™ Technology	Extended vision within arm’s length								●	●	●	
Personalized Measurements*	Provide maximum lens performance despite differences in frame size & shape				●			●		●	●	

* See chart below for personalized measurement reference

DIGITAL SURFACING TECHNOLOGIES:

TECHNOLOGY	LENS
DualOptix™ See back for reference.	Varilux X Series™ Varilux® Physio® W3+ Varilux Comfort® W2+
Full Back Side	Varilux Physio DRx™ Varilux Comfort DRx™

PERSONALIZED MEASUREMENTS:

Required: ● Default Measurements Accepted: ■
Optional: ▲

	PD and Fitting Height	Pantoscopic Tilt	Wrap Angle	Vertex Distance	Eye Rotation	Natural Head Distance	Center Position	Leading Dominant Eye	Reading Distance
Varilux X 4D™ *	●	●	●		●	●	●	▲	
Varilux X Fit™	●	■	■	■					
Varilux X Design™	●								
Varilux® Physio® W3+ Eyecode™*	●	●	●		●	●			
Varilux® Physio® W3+ Fit	●	■	■	■					
Varilux® Physio® W3+	●								
Varilux Comfort® W2+ Fit Eyecode™*	●	●	●		●	●			
Varilux Comfort® W2+ Fit	●	■	■	■					
Varilux Comfort® W2+	●								

*Varilux X 4D lenses, Varilux Physio W3+ Eyecode lenses and Varilux Comfort W2+ Eyecode lenses are exclusive to the Visioffice® System.

VARILUX® LENS TECHNOLOGY DEFINITIONS

Smart Blue Filter™ feature

A feature embedded into all Varilux® digital progressive lenses* designed to reduce exposure to Harmful Blue Light* by at least 20%.†

W.A.V.E. Technology™

Wavefront Advanced Vision Enhancement™ identifies and reduces High Order Aberrations (HOAs) in the lens, resulting in clearer, sharper vision at any distance, and greater color contrast.

W.A.V.E. Technology 2™

Wavefront Advanced Vision Enhancement™ 2 customizes wavefront control to the patient's visual requirements, resulting in sharper vision at all distances and in all lighting conditions, even in low light.

SynchronEyes™ (Varilux X Series™)/Binocular Booster (Varilux® Physio® W3+)

Calculates both right and left lenses as a pair, which allows patients to transition from near to far and every distance in between smoothly and effortlessly.

Varilux DualOptix™

Dual-sided digital lens design which controls both focus and distortion, providing clear central vision and exceptionally well controlled peripheral vision. Customizes the design and optimizes the distribution of visual zones in the lens – near, far and in-between.

Nanoptix™ Technology

Revolutionary patented semi-finish blank with a unique shape that delivers lowest distortion, resulting in virtual elimination of that “off balance” feeling.

NEW Xtend™ Technology

Unique design calculation in Varilux X Series™ lenses that allows the wearer to see multiple distances through a single point in the lens, significantly extending vision with arm's reach so wearers no longer have to move their heads to find the “sweet spot” in the lens.

Personalized Measurements

Standard PAL measurements – plus Pantoscopic Tilt, Wrap Angle and Vertex Distance or eye rotation center distance. Assures outstanding visual performance, regardless of how the frame fits.

*Smart Blue Filter will come in all Varilux digitally surfaced designs, except Varilux Physio Enhanced and Varilux Comfort Enhanced. Varilux lenses with Smart Blue Filter feature block at least 20%.

† Arnault E, Barrau C, Nanteau C, Gondouin P, Bigot K, et al. (2013). Phototoxic Action Spectrum on a Retinal Pigment Epithelium Model of Age-Related Macular Degeneration Exposed to Sunlight Normalized Conditions. PLoS ONE 8(8): e71398. doi:10.1371/journal.pone.0071398 (August 23,2013). Identified Harmful Blue Light through in vitro experiment on swine retinal cells, where the most toxic wavelengths are high energy visible light falling between 415-455nm on the light spectrum (blue-violet light).

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Better Life.**

Transitions®

Crizal®

VARILUX®

Eyezen™

Xperio^{IV}™