What does W.A.V.E. Technology 2™ do for patients?

PATIENT BENEFIT = Sharpest vision at every distance even in low light.

W.A.V.E. Technology 2: Wavefront Advanced Vision Enhancement™ does two things:
1. Identifies and eliminates distortion based on the prescription.
2. Customizes wavefront correction to the patient’s needs.
This creates a unique lens design for every patient—without additional measurements or equipment.

How does W.A.V.E. Technology 2 work?

All progressive lenses have distortions caused by changes in curvature across the lens surface. These distortions reduce the perception of contrast and sharpness.

W.A.V.E. Technology 2 enables Varilux® lens designers to analyze an entire beam of light as it passes through the lens. This allows them to:

- Identify and virtually eliminate lens distortions for clearer, sharper vision even in low light.
- Customize lens designs by taking into account changes in pupil size.

**W.A.V.E. Technology 2 is available with the following lens designs:**

- Varilux S 4D™
- Varilux S Fit™
- Varilux S Design™
- Varilux® Physio® W3+ eyecode™
- Varilux® Physio® W3+ Fit
- Varilux Comfort® W2+ eyecode™
- Varilux Comfort® W2+ Fit
- Varilux Comfort® W2+
How does W.A.V.E. Technology 2 work? (continued)

How does pupil size affect a patient’s vision?

In bright light, the pupil constricts and uses a smaller portion of the lens. Distortion is less apparent in bright light conditions. In dim light, the pupil enlarges and uses a larger portion of the lens. Any distortion will become more apparent in dim lighting conditions (because image sharpness will be reduced).

**W.A.V.E. Technology 2™** controls distortion far better than competitive PAL designs.

**Patient Benefits**

- Sharper vision at every distance
- Better vision, even in low light

Varilux lenses with W.A.V.E. Technology 2 are preferred 25:1 by patients*

*Data on file

**Patented technologies - others do not compare**

Varilux lenses with W.A.V.E. Technology 2 are created with 10 patented technologies that competitors cannot duplicate.

- US Patent # 7,207,675B1: vertically extended distance zone
- US Patent # 7,413,303 B2: low cylinder and monotonous periphery
- US Patent # 6,909,498B2: wavefront measurement technology
- US Patent # 7,427,134 B2: low level of wavefront aberration

- US Patent # 7,210,780B1: vertical alignment of axis of astigmatism in intermediate vision
- US Patent Pending: W.A.V.E. Technology 2 design calculation
- US Patent Pending: variable inset

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