

Luzerne Optical Laboratories Ltd
1800-233-9637 or www.LuzerneOptical.com

AO Lens (American Optical) / Sola Lens, Free-form Technology



Download Zeiss Individual™ Progressive Lenses:

- [AO Easy HD Lens Specifications](#)
- [Sola HD Lens Brochure](#)
- [SolaOne \(Sola One\) Lens HD Specifications](#)
- [Sola Lens HDV Brochure](#)
- [Sola HDV Lens Fitting Guide](#)
- [Sola HDV Lens Specifications](#)

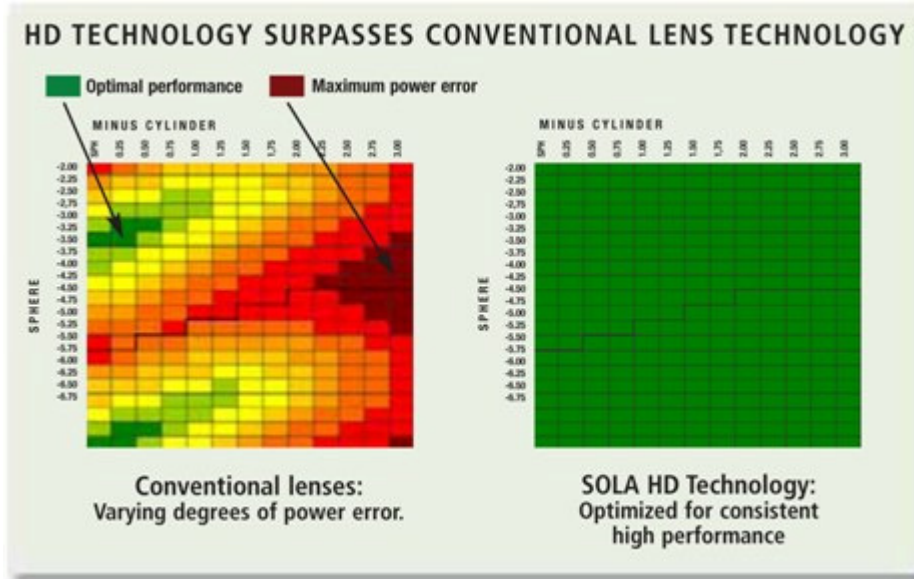
Customized High Definition Vision

The Ideal Progressive Lens. Custom Created.

SOLA HDV takes customization to the next level as the first progressive lens by SOLA custom created specifically for each patient's prescription and choice of frame.

Until now, progressive wearers have had two basic lens design sizes to choose from: regular and small. This results in compromises in the effectiveness of the progressive design when the patient's frame height does not exactly match the corridor length of the lens design. Reading area can be cut off and viewing zones distorted resulting in a loss of visual quality.

Using proprietary Morphing Technology, SOLA HDV delivers High Definition optics in a variable corridor design. The continuously variable corridor length allows the optics of the lens design to be precisely matched to the shape of the frame. The benefit is unparalleled optical performance for fitting heights of 35 mm down to 13 mm.



For Every Frame:

Variable Corridor Length Morphing Technology

SOLA's new proprietary Morphing Technology adapts the geometry of the SOLA HDV lens design automatically and continuously to ensure the progressive corridor length, inset, and Wearer's fitting height are optimally synchronized.

This requires a virtual universe of optical design geometries to be created on demand, which can only be realized using direct surfacing and free-form manufacturing.

The result is a perfect alignment between lens function and frame style: no force-fits, no compromises. With SOLA HDV every wearer can be assured of full reading performance, and maximum clear viewing zones without restrictions on frame choice.

For Every Rx:

HD Technology Rx Optimization

Conventional lenses group a range of prescriptions on a limited number of semi-finished base curves. However, each base curve carries the optimal design for one and only one prescription. All others using that base curve will have some degree of power error, resulting in a loss of clarity.

SOLA'S exclusive* HD Technology incorporates the progressive design into the back surface of the lens, locating it closer to the eye. HD technology digitally optimizes the lens design for the Wearer's exact combination of sphere power, cylinder power, cylinder axis, add power and frame dimensions. Every SOLA HDV Wearer will experience the largest areas of wide Clear vision with the lowest unwanted astigmatism, for every prescription.

The Next Level in Lens Technology



High Definition Vision for Every Wearer

The High Definition (HD) revolution reaches progressive lens dispensing with HD Technology from SOLA. Made possible by breakthroughs in vision science and lens manufacturing, HD Technology allows you to meet every patient's vision needs with a level of clarity never before possible in a lens.

Advanced Free-Form Manufacturing

SOLA HD Technology lenses are manufactured individually in a state-of-the-art production facility, using advanced free-form generators. This direct surfacing technology can generate and manufacture any lens design on demand without the need for conventional base curves. By realizing the potential of free-form manufacturing, HD Technology lenses eliminate the visual compromises of conventional progressives.

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The Limitations of Conventional Lenses

Conventional progressive lenses group a range of prescriptions on a semi-finished base curve. However, that base curve carries the optimal design for one and only one prescription. Other prescriptions that use the same base curve will have some degree of power error, resulting in a loss of clarity.

SOLA's Exclusive HD Technology: Rx Optimization

HD Technology creates the ideal lens design surface for each wearer's combination of sphere power, cylinder power, cylinder axis and Add power. All HD lens wearers will experience a lens design optimized uniquely for them. The result is High Definition: the largest areas of clear vision with the lowest unwanted astigmatism.

HD Optimized Designs:

SOLA1One™ HD

Based on the most comprehensive visual task analysis ever undertaken, SOLAOne™ HD provides exceptional performance across the 15 visual task categories that make up daily life.

Compact ULTRA™ HD

Give progressive wearers ultra-performance even in ultra-small frames. With SOLA Compact ULTRA™ HD patients get unsurpassed full-power reading vision in frames with a fitting height as low as 13 mm.

AO easy™ HD

Innovative design, individual optimization and a unique rewards program make AO Easy HD a superior choice for managed care patients.
