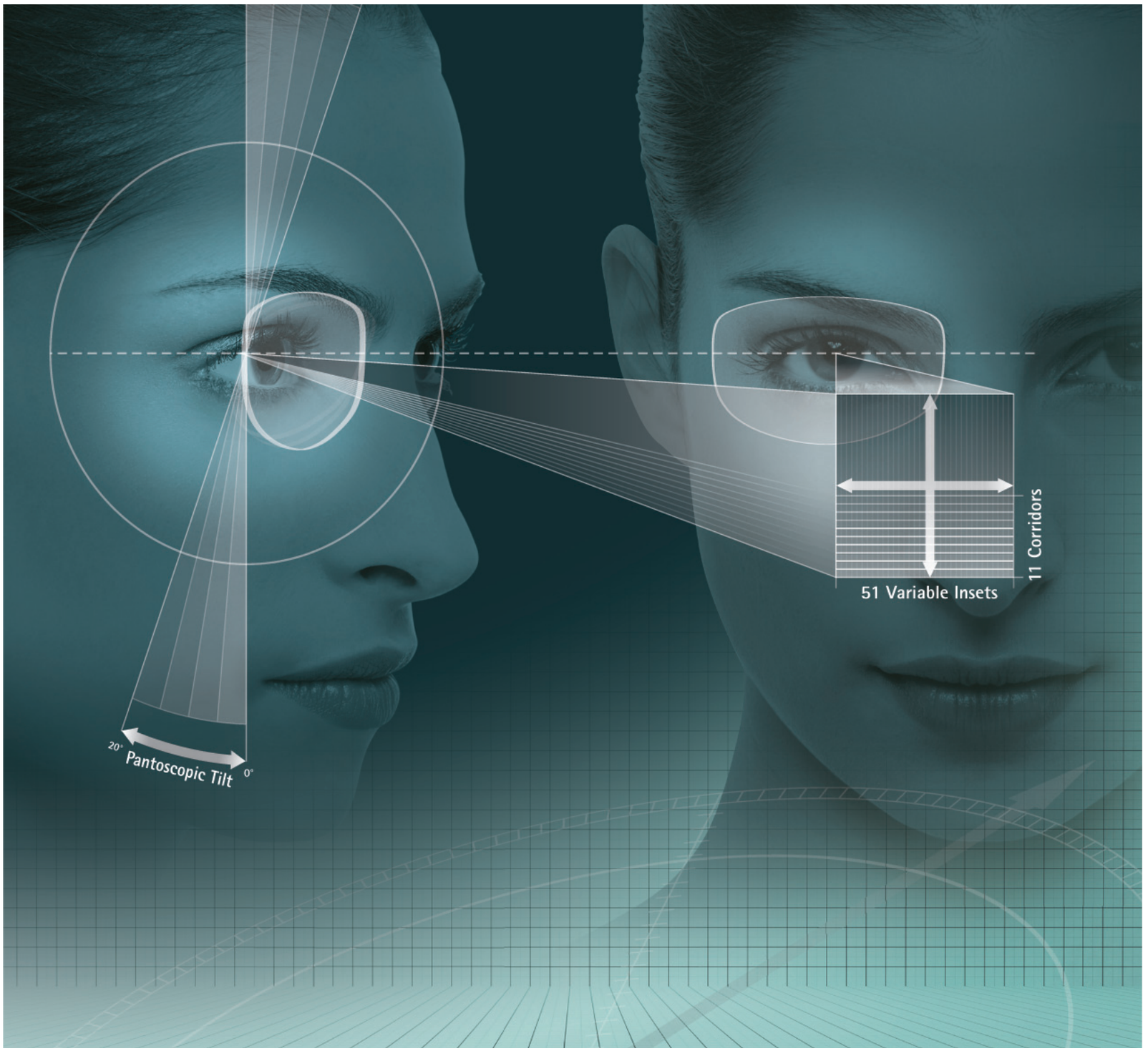
SEIKO Superior

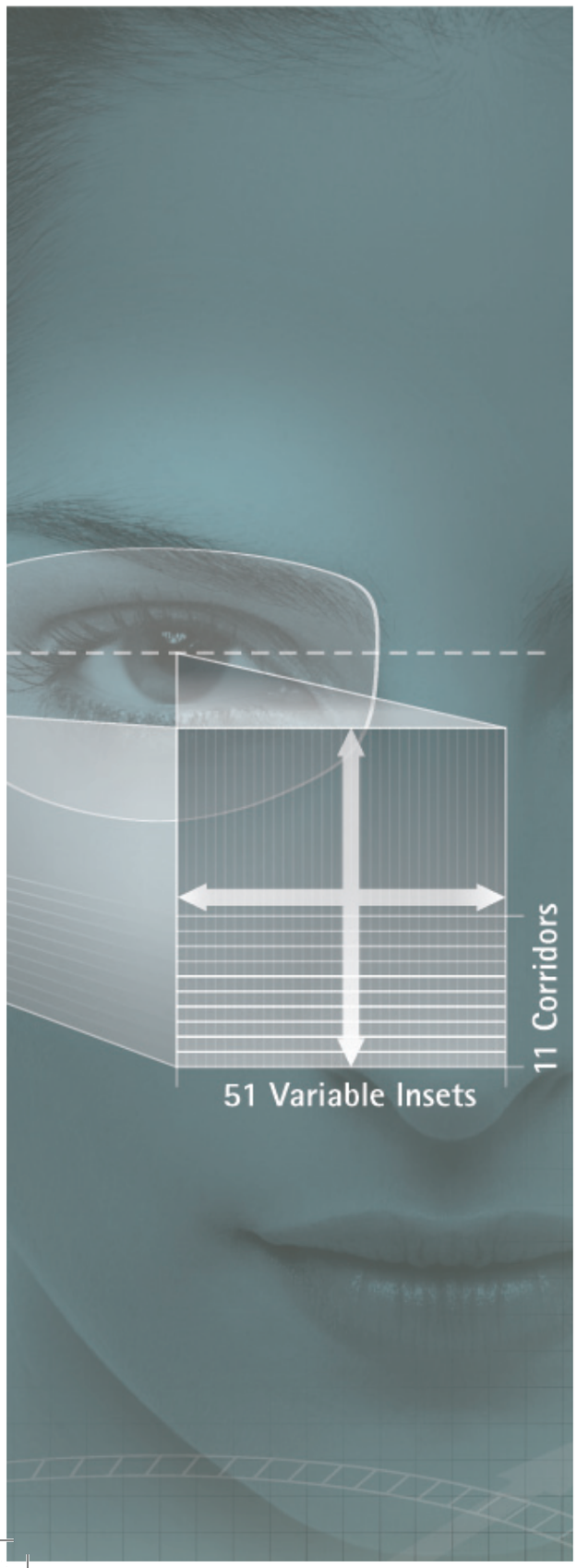
Most Advanced & Precisely Customized, 100% Internal Free-Form Technology



SEIKO

EYEWEAR THAT PERFORMS

SEIKO Superior



Precisely Customized Vision

Advanced Optimized Performance for All Wearers

The remarkably precise customization available in SEIKO Superior Premium Free-Form PALs guarantees the best vision for every patient every time. They are the "go-to" lens for all wearers and those with demanding visual needs alike. Prescribing Superior for every patient means never having to worry about non-adapts.

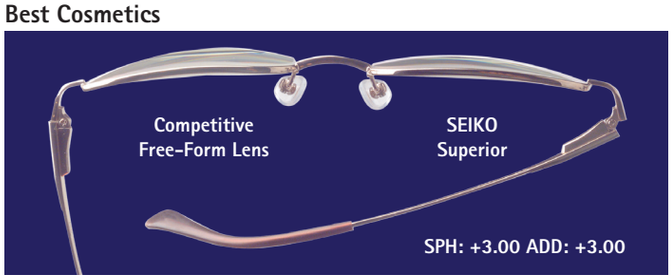
SEIKO Superior is an "ultra-personalized lens" that features 3 options for the basic design (Balanced, Near-priority and Far-priority), 11 options for the corridor length, 51 options for the near zone inset and 21 options for the frame pantoscopic tilt. It is available in a wide variety of materials and coatings with add powers from +0.50 to +4.00 (8 & 9mm corridors to +3.00).

With the available ultra-short 8mm corridor (minimum fitting height 12mm) the lens can be neatly accommodated in even the shallowest frames, an achievement difficult to obtain with previous progressive lenses.

In the past it was not possible to fully compensate for differences in the position and height of the nose and ears, even with custom surfaced lenses. SEIKO has solved this issue of "pantoscopic tilt" in our Superior lenses. The lenses are surfaced to the pantoscopic tilt of the patient's frame in the as-worn position which makes it possible to perform optimal aspheric correction from 0 to 20 degrees in 1 degree increments.

The Superior design also processes complex convex curves onto the concave back surface of the lens, permitting the use of flatter base curves on plus power prescriptions. The result is lenses that are up to 25% flatter in profile, even when compared to our other internal free-form designs.

Best Cosmetics

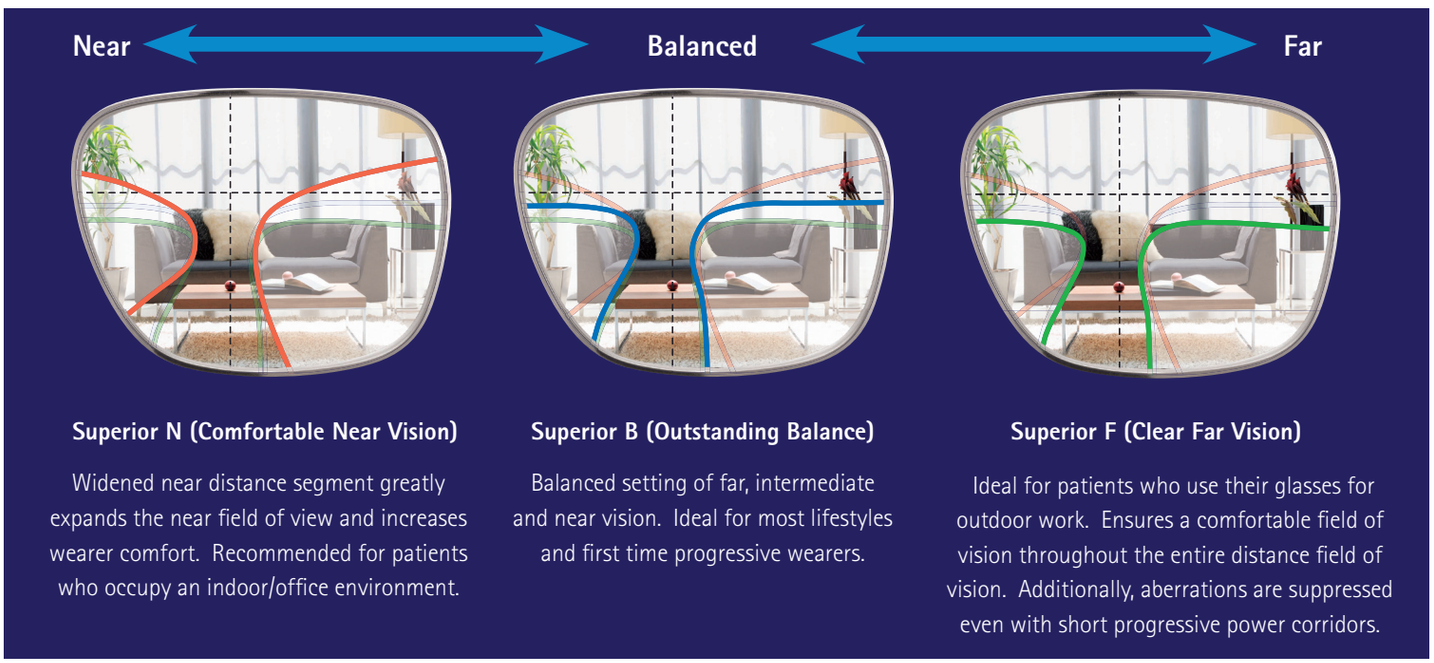


Patented Convex Curve on Concave Side

- The best choice for all wearers, all add powers and difficult Rx's
- The most customized lens for all lifestyles — 3 design options, 11 corridors, 51 insets
- Variable inset based on reading distance, corridor length, pantoscopic tilt, PD and RX
- Advanced Aspheric Compensation improves clarity and visual comfort
- Multi-polar Astigmatic correction improves panoramic vision and image stability
- Large variety of materials, coatings, polarized and Transitions® lenses

Three Design Options Customized to Your Lifestyle

Most patients will choose Superior's balanced design for their primary pair of glasses. It is the right choice for all distances in everyday situations. For individuals in an indoor/office environment that need clear, stable near vision for prolonged periods Superior's near design is optimized to their needs. Likewise, patients who use their eyewear mainly for distance/outdoor work also have a design that can provide the necessary far and wide, undistorted vision out to the periphery.



Superior N (Comfortable Near Vision)

Widened near distance segment greatly expands the near field of view and increases wearer comfort. Recommended for patients who occupy an indoor/office environment.

Superior B (Outstanding Balance)

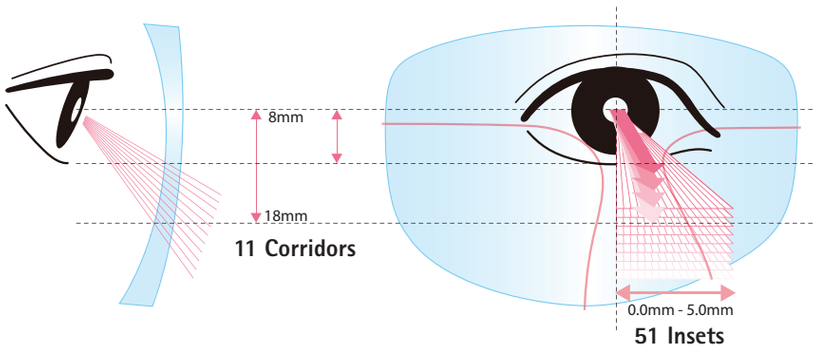
Balanced setting of far, intermediate and near vision. Ideal for most lifestyles and first time progressive wearers.

Superior F (Clear Far Vision)

Ideal for patients who use their glasses for outdoor work. Ensures a comfortable field of vision throughout the entire distance field of vision. Additionally, aberrations are suppressed even with short progressive power corridors.

Eleven Corridor Lengths

Superior can accommodate nearly every size and shape frame with its 11 available corridor lengths. With a minimum fitting height of 12mm it is now possible to achieve perfect vision even in today's small, fashion-friendly eyewear. Having so many options also allows ECPs to match the corridor length of a patient's previous lenses to assure easy accommodation. Patients will immediately notice improvements in their vision compared to their old eyewear.



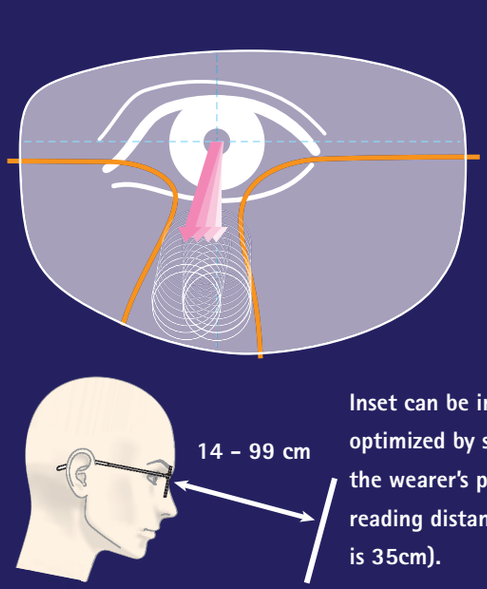
Variable Inset & Preferred Reading Distance

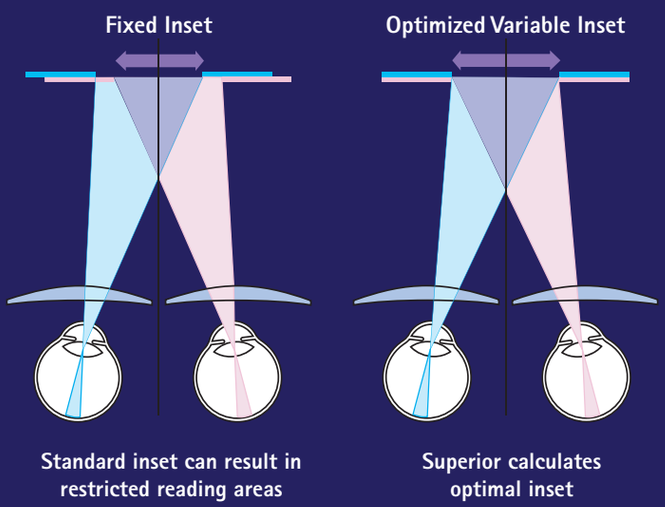
The next step in customizing your patient's lenses allows you to select the preferred reading distance (from 14 – 99cm) when the standard 35cm is not ideal. Superior's advanced software calculates the precise inset placement needed to achieve sharp focus and optimal clarity at the specified reading distance.

When viewing objects at near distances for extended periods of time it is crucial that your lenses provide a wide reading area with sharp, stable optics that are tailored to the task at hand. To remedy this SEIKO Superior enables optimization of the near zone inset in 0.1 mm steps within a range of 0.0 - 5.0 mm, making it possible to achieve the optimum inset of the near zone for each individual customer and to make full use of the near distance zone. (Note that the left and right inset of the near zone may be set individually.)

When looking at an object approaching from the distance without moving the head, the eyes converge, causing the line of vision through a point on the lens to shift. To allow for this, the near distance area is positioned towards the nasal area, not directly below the distance vision area: This is referred to as "inset" and the quantity of this shift as "inset value."

The far distance PD, close work distance and near sight power, and pantoscopic tilt differ for each individual.



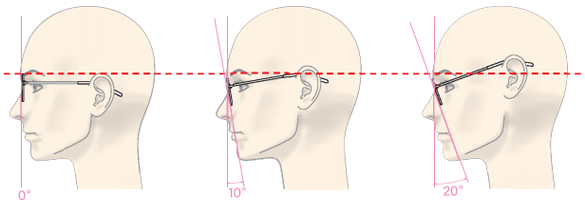


Precisely Customized Lens

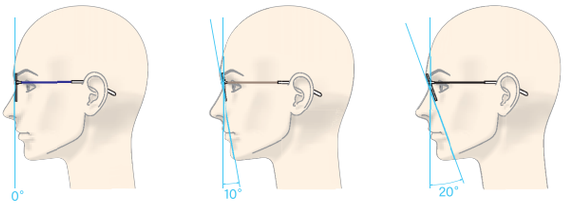
With the 3 specialized designs, a total of 11 progressive corridor lengths that are available in 1mm steps within a range of 8 - 18 mm, and a variable inset that can be set from 0 to 5.0mm in 0.1mm increments it is possible to create an almost infinite number of optimized designs incorporating the patient's unique data. Precise adjustments can be made to match the patient's lifestyle, primary usage and frame shape.

Pantoscopic Tilt Optimized Correction

The term “pantoscopic tilt” refers to the degree of frame tilt when eyeglasses are worn. This pantoscopic tilt angle differs depending on the position of the nose or ears and the angle unique to the eyeglass frames themselves. Superior enables optimum aspheric adjustments to the customer’s forward tilt angle in steps of 1 degree within a range of 0 - 20 degrees.



Pantoscopic tilt varies on different patients even if the same frame is worn.



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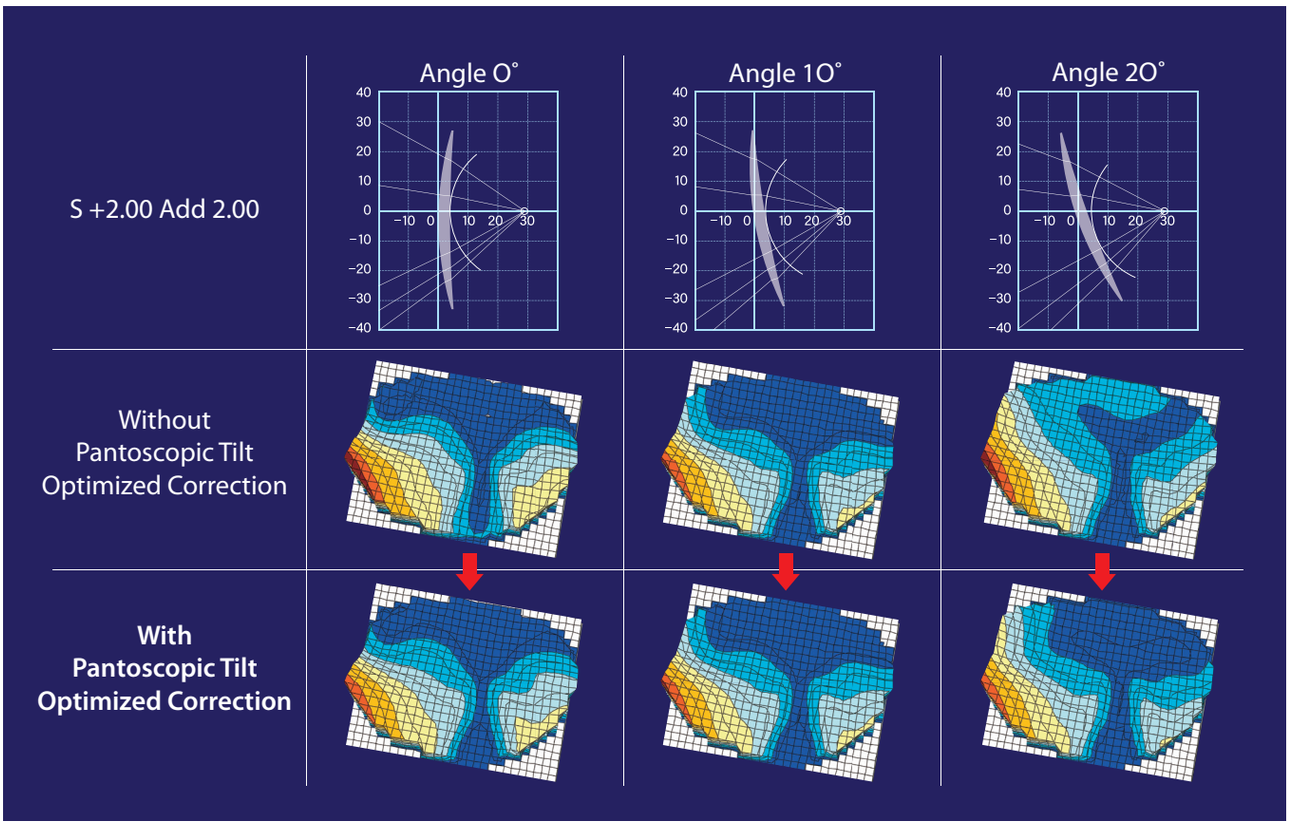
SEIKO Superior’s Pantoscopic Tilt Optimized Correction



Advanced Aspheric Compensation

Superior modifies the Rx to achieve an optically precise correction in the as worn position. This compensation factors in eye rotation, vertex distance and frame tilt. The benefit to the wearer is improved clarity and visual comfort throughout the entire lens, with expanded peripheral vision, even in high-cylinder, high-add Rx’s.

Multi-Polar Astigmatic Correction

Multi-polar astigmatic correction manages unwanted cylinder in all meridians, creating balanced progressive designs that increase wearer comfort. It takes into account the three-dimensional orientation of the eye and its axis of rotation and provides proper eye to lens alignment in all directions. This significantly improves panoramic vision and image stability.

SEIKO Superior

Specifications

Index:	Clear	Polarized	Transitions®	Transitions® XTRActive™	Transitions® Vantage™
1.50	●	●	●		●
1.53 (Trivex®)	●		●	●	●
1.59 (Poly)	●	●	●	●	●
1.60	●		●		
1.67	●	●	●	●	
1.74	●				

Lens Designs: Superior B (Balanced), Superior N (Near Priority), Superior F (Far Priority)

Corridor Length (Min. Fit Ht.): 8mm (12mm), 9mm (13mm), 10mm (14mm), 11mm (15mm), 12mm (16mm), 13mm (17mm), 14mm (18mm), 15mm (19mm), 16mm (20mm), 17mm (21mm), 18mm (22mm)

Add Powers: +0.50 to +4.00D in 0.25 diopter steps (corridors 10mm to 18mm)
+0.50 to +3.00D in 0.25 diopter steps (corridors 8mm & 9mm)

Range: Extended Cylinder range to -5.00D (Total power -12.50D)

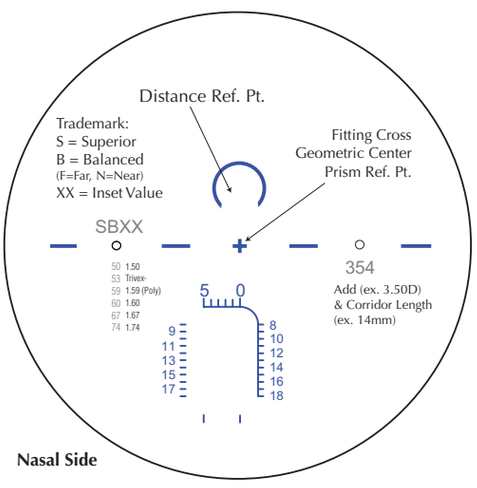
Prism: 0.25 to 3.00D

Inset: 0.0 to 5.0mm (0.1mm steps) Customized placement requires specification of preferred reading distance (cm). Automatic inset placement based on distance prescription and PD (35cm default).

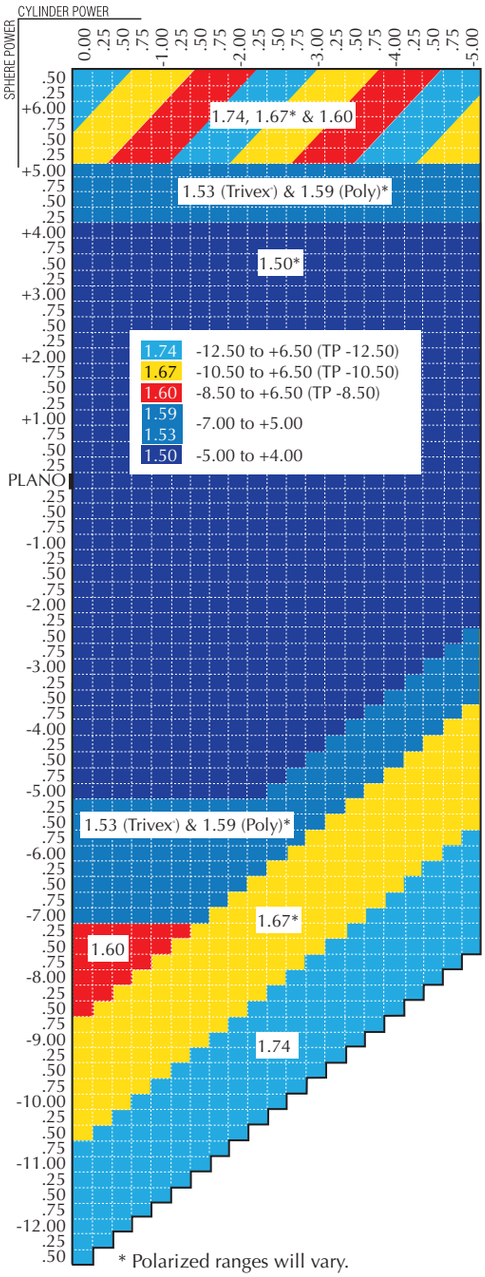
Pantoscopic Tilt: 0 to 20 in 1° steps (10° default)

Measured Power: Distance, intermediate, and near

Lens Markings & Engravings



Production Range



* Polarized ranges will vary.

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