

Autograph Intelligence™

So, What's New With AI?

Our flagship progressive lens, **Autograph Intelligence™**, has been updated to address today's increased digital viewing!

The **Autograph Intelligence™** lens design helps focus your eyes precisely where you need them to be at all times.

But you already knew that.

Our world has changed since its introduction over three years ago. Using data gathered since then, which shows a remarkable increase in digital screen use, we've enhanced its benefits to meet those demands.

Your patients who already love **Autograph Intelligence™** will be very happy with the small adjustments we've made. It's still their same **Autograph Intelligence™**, but with a few tweaks that make the digital viewing zone corridor more useful for them.





Autograph Intelligence™

Designed To Match Your Visual Age™

AI Update

Easier adaptation for presbyopes with low Adds

Instant focus for every distance with smooth transition between vision zones

Every lens design is unique to the wearer's Visual Age

Technologies	Product Classification:	Marking: see chart below
	EVERYDAY > Progressive	
Minimum Fitting Heights: 11mm, 13mm, 15mm, 18mm & Variable		

Autograph Intelligence™ is Shamir's flagship design, delivering the most advanced technologies engineered from the continuing study of Big Data Research and Artificial Intelligence. It's the first progressive lens of its kind optimally tailored to individual eyeglass wearers' needs and visual age (the physiological age of one's eyes), and the first one to be continuously updated. In fact, we just updated it with three new years of data.

The Problem - One Size Does Not Fit All

Today's progressive lenses provide patients with a "personalized" lens based mostly on the measurements of their selected frame, or "customized" based on lifestyle information from questionnaires. This "one design" concept provides everyone with the same solution.

Autograph Intelligence™ overcomes these limitations of traditional progressive lenses with the most precisely personalized lens designs. We examined the visual behavior and preferences of presbyopes of all ages between 40 and 80, by taking into account their **Visual Age™**.

Visual Age™ refers to the physiological age of the eye (the required addition) and is generally correlated with the patient's chronological age.

Traditional progressive designs were developed with the same design concept across all Add powers. We changed all that in 2017 by following the data, and again in 2022 with new data.

The Research - The GAP with Today's Progressive Lens

Our research findings revealed a clear correlation between each visual need and the **Visual Age™** of the patient, meaning that each **Visual Age™** has different visual preferences and needs. Notably, the digital zone has grown for all users since we first introduced AI in 2017.

Young presbyopes need a good solution for digital reading and support for dynamic vision. Near vision has lower priority, due to reading mainly on handheld digital devices.

Moderate presbyopes demonstrate more balanced needs. All vision zones hold more or less equal importance.

Advanced presbyopes need a good solution for far and near vision. Switch Distances Frequency, intermediate vision, and digital reading are a lower priority.

The Solution - Closing the GAP with Autograph Intelligence™

Autograph Intelligence™ is our most innovative and intelligent design to date, utilizing 12 unique design concepts to fit the visual needs required for each **Visual Age™**, as well as leveraging new data from the last few years showing how dynamic the digital zone has proven to be.

Shamir **Autograph Intelligence™** closes the gap between visual needs that presbyopes of all ages want and require.

This revolutionary progressive design concept has been tailored based on our in-depth research and is relevant to the visual needs of young, mid, and advanced presbyopes.





Who It's For

Young, mid, and advanced presbyopes requiring smooth visual clarity among a variety of activities and visual zones.

Features & Benefits

- Industry's First Progressive Design, utilizing 12 unique design concepts to create ONE innovative intelligent lens design
- Closes the gap between the visual preferences of prebyopes of any age
- Smooth transition between visual zones
- Easy adaptation for presbyopes with low add powers
- Each visual zone is optimized to the visual age of the patient (Distance, Computer, Digital, Reading)

Enhancements From The Update

- Improved Dynamic Vision across all zones
- Improved Digital Device Zone
- Improved Reading Comfort

Autograph Intelligence™

Technologies

We started with our proven technologies:

Intellicorridor™
Unique Power Profile For Clearer Vision
Makes it possible to customize lenses specific to the patient's vision requirements. Optimizes the power in specific areas used for everyday and outdoor tasks, reducing the need to move head up and down.

As-Worn Quadro™
Perfect Vision For Any Frame Choice
Compensates the Rx and design by personalizing the patient's lenses to the exact frame they are wearing. Provides clearer vision and maximizes all viewing zones.

Natural Posture™
Ergonomic Design Concept
Shifts the image back to an ergonomically correct viewing angle, allowing the patient to hold their head in a more comfortable, natural position when reading.

Close-Up™
The Near PD Solution
Gives you the ability to customize the inset from 0 to 5mm, resulting in a more accurate, personalized lens and a more comfortable viewing experience.

... and added some new ones:

EyePoint Technology AI™
The Design Inside
Groundbreaking HEIM Technology Utilizing Head Eye Integrative Movement software (HEIM), Shamir can now see exactly where in the lens patients actually look, along both the vertical and horizontal meridians, when they specifically perform tasks in the various visual zones. This technology enables us to design a lens that takes into account actual viewing angles computed for every distance.

Visual AI Engine™
Ensures Extreme Accuracy For Each New Lens Design
By applying elements of Artificial Intelligence that mimic human intelligence, Shamir's **Visual AI Engine™** makes each lens specific to how each individual will use it. Automated and significantly accelerated development and personalization technology enabling continuous, first-to-market provision of lenses most precisely tailored to the needs of numerous predefined visual age ranges.

Continuous Design Technology™
Perfect Vision For Any Frame Choice
This technology integrates research findings with patient habits and visual needs to provide a smooth, seamless lens design concept for every **Visual Age™**. Shamir can now offer a unique lens design ideally suited for every **Visual Age™** in all vision zones, and for all distances that also ensures an easy transition to eyeglass wearers' next lenses in line as they age.

Measurement Information

As-Worn Technology™

To get the maximum benefit from **As-Worn Quadro™**, the actual measurements of the wearer should be included. (Vertex Distance - Fitted and Refracted, Pantoscopic Tilt, Panoramic Angle). **The patient will benefit greatly from using their personal measurements, experiencing more precise and comfortable vision.**

If the **As-Worn™** measurements are not included with the **Autograph Intelligence™** order, the Shamir **Prescriptor®** will use defaults. These defaults are based on averages.

Default Measurements:		"As-Worn" measurements:	
Vertex Distance:	13 mm	Vertex Distance:	5 mm to 30 mm
Pantoscopic Tilt:	4°	Pantoscopic Tilt:	-10 to 12°
Panoramic Angle:	5°	Panoramic Angle:	0 to 12°

Close-Up™

Shamir's **Close-Up™** technology adjusts the reading zone inset of every lens to the individual patient's convergence during near viewing. **Adjustments are made in 0.1 mm steps within a range of 0 - 5 mm.** In other words, the lens is custom-adjusted to the individual's near PD, relative to their far PD.

Fitting with **Close-Up™**:

Simply add the Mono near PD measurement to the order parameters. You can easily use a common pupilometer to measure with regard to the patient's near and far reading distances. Based on these parameters, the inset will be calculated to adjust the near zone. If **Close-Up™** is not chosen, inset will be default per design.

How to Fit & Order Shamir Autograph Intelligence™

Provide the following information:

- Patient Rx
- Fitting Height
- Monocular Distance PD
- Monocular Near PD
- Panoramic Angle
- Pantoscopic Tilt
- Fitted Vertex Distance
- Frame Measurements A/B/DBL&ED

If the **As-Worn™** measurements are not included with the order the Shamir **Prescriptor Software®** will use defaults. Please see the measurements section for more details.

*It is strongly recommended that you provide all of the above mentioned measurements.

Autograph Intelligence™

Technical Information

Fitting Height	A' (see diagram)	B (see diagram)	M Invisible Marking (see diagram)
11mm	2	5	AI ₁₁
13mm	2	8	AI ₁₃
15mm	2.2	9	AI ₁₅
18mm	2.5	11	AI ₁₈
Variable	According to reading zone position		AI

* Inset affected by design and Near P.D. Value listed is if no Near PD provided

Availability:

Material	Prescription Range [D]	Addition	Cylinder
1.50 Hard Resin (C,T,V,T,P,TX,D,S)	-12.25 to +6.50	0.75 to 3.50	to -6.0 [D]
1.53 Trivex™ (C,T,V,T,P,TX,N,BZ,S)	-13.25 to +7.00	0.75 to 3.50	to -6.5 [D]
1.56 (B)	-14.00 to +7.50	0.75 to 3.50	to -6.75 [D]
1.59 Polycarbonate (C,T,V,T,B,P,TX,D,BZ,S)	-14.75 to +8.75	0.75 to 3.50	to -7.0 [D]
1.60 (C,T,P,TX)	-14.75 to +8.75	0.75 to 3.50	to -7.0 [D]
1.67 (C,T,P,TX,BZ,S)	-16.75 to +10.00	0.75 to 3.50	to -8.0 [D]
1.74 (C,T)	-18.75 to +10.75	0.75 to 3.50	to -9.0 [D]

LEGEND:

- C - Clear
- TV - Transitions® Vantage™
- T - Transitions®
- P - Polarized
- TX - Transitions® XTRActive™
- B - BluTech (Indoor & Outdoor)
- D - Drivewear®
- N - NXT™
- BZ - Blue Zero™
- S - SunSync®

POWER RANGE IS DETERMINED BY SHAMIR CERTIFIED BLANK RANGE PRISM TO 10 DIOPTERS IN EACH QUADRANT

⚠ WARNING: Polycarbonate lenses can expose you to chemicals including Bisphenol A (BPA) and 1,74 index lenses can expose you to Methimazole, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov.