

Frequently Asked Questions

What is Autograph Intelligence's major innovation?

The major innovation is the different design for each Visual Age™, due to the correlation found between visual needs and Visual Age™. The design is continuous for each Visual Age™, allowing smooth and easy adaptation.

What is the difference between Visual Age™ and Addition?

The Visual Age™ is the addition. The term Visual Age™ is used to describe the physiological age of the eye and is generally correlated with the patient's chronological age.

What is the "intelligence" in Shamir Autograph Intelligence™?

"Intelligence" refers to the in-depth research conducted and Big Data collected from various sources over the last few years; regarding the visual needs of presbyopes, along with the elements of Artificial Intelligence found in the new technologies used to design the lens.

What is the difference between Shamir Autograph Intelligence™ and Shamir Autograph® III?

Shamir Autograph® III is one of the best lens design in today's market. The design concept is answering balanced needs for all distances and all visual ages. Shamir **Autograph Intelligence™** is designed to meet the different visual needs of the different visual ages, utilizing new advanced technologies: Eye-Point Technology AI™, Continuous Design Technology™, and Shamir's Visual AI Engine™. The result is the most advanced lens for all visual ages.

Who is the target audience?

Shamir **Autograph Intelligence™** is an Everyday lens that is optimized for all visual needs, making this lens an ideal solution for all presbyopes. Presbyopes of all ages will experience enhanced advantages.

What are the main advantages for young prebyopes?

For various reasons, primarily pertaining to non-adapts, young presbyopes rarely use progressive lenses today. Shamir **Autograph Intelligence™** provides a smooth entry into progressive lenses with seamless distortions between each vision zone. It delivers a single vision-like experience and is a unique solution for frequent use of digital devices.

Why do different ages have different needs?

Visual needs are defined by the daily activities that presbyopes perform. Based on our behavioral study, we found a correlation between the visual needs and Visual Age™. For example, activities of average 40 to 50 year-old presbyopes are generally more dynamic than that of average 70 to 80 year-old presbyopes, and they use their smartphone more often than they read printed materials. Our study has shown that these needs continuously increase by age.



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How is the patient's lifestyle taken into consideration?

The patient's lifestyle defines the activities they perform on a daily basis, which are then arranged by importance from a visual point of view. The importance of those activities is then translated into distances and viewing angles which add additional input into the lens optimization.

How many design concepts are in Shamir Autograph Intelligence™?

There are 12 design concepts – one for each Visual Age™ from 0.75 to 3.50. The designs are continuous by Add, considering visual needs and Visual Age™. This is applied to all the prescription combinations, frame parameters, base curves, and indices as power increases.

What is the benefit of a Continuous Design™?

A Continuous Design™ has two benefits: (1) The smooth transition between Visual Ages (Add powers), leading to easy adaptation, and (2) Small changes of all parameters between visual needs, in the case that the patient's lifestyle does not exactly match with their Visual Age™.

What is the difference between "intermediate" and "digital reading"?

"Intermediate" is the zone in the lens that the patient looks through while viewing the computer screen, while "digital reading" is the zone that the patient looks through while using a smartphone or tablet. The "digital reading" zone is lower in the corridor, but above the reading zone.

What does "Switch Distances Frequency"™ refer to?

Switch Distances Frequency™ measures how often the patient moves their sight between the zones of the lens. In progressive lenses, this means looking through different visual zones in order to focus on different distances. The higher the Switch Distances Frequency™, the softer the lens should be, allowing for more visual comfort.

How is Artificial Intelligence used in this design?

Artificial Intelligence is applied in Shamir **Autograph Intelligence™** by using Big Data and statistical models to reveal trends of usage and visual needs. In addition, Artificial Intelligence was utilized in computerized tools, to mimic human intelligence, using logic, if-then rules, and decision trees, which is implemented in Eye-Point Technology AI™, and the Shamir's Visual AI Engine™.

