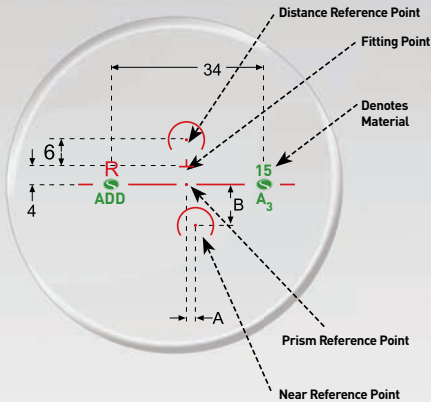


# Shamir Autograph III®

A New Visual Experience

## TECHNICAL INFORMATION



Fitting Height	"A" [see diagram]	"B" [see diagram]*	Invisible Marking
11mm	2	5	A <sub>3</sub> <sup>11</sup>
13mm	2	7	A <sub>3</sub> <sup>13</sup>
15mm	2.2	9	A <sub>3</sub> <sup>15</sup>
18mm	2.5	11	A <sub>3</sub> <sup>18</sup>
Variable	According to reading zone position		A <sub>3</sub>

\*Transitional zone changes according to fixed design

Minimum Fitting Height: 11mm, 13mm, 15mm, 18mm  
Ink Marking: Red • Invisible Marking: Green

## Material Availability:

Material	Power Range	Add Power	Cylinder
1.5 Hard Resin (C,TV,T7,P,TX,D)	-12.25 to +6.00	0.75t o 4.00	to -6.00
DLC™ Trivex™ (C,TV,T7,P,TX)	-13.25 to +7.00	0.75t o 4.00	to -6.50
NXT™ (P, PH)	-1.50 to +7.00	0.75t o 4.00	to -6.50
1.56 (B)	-14.00 to +6.50	0.75t o 4.00	to -6.75
1.6 SuperLite™ (C,T7,P,TX)	-15.00 to +8.00	0.75t o 4.00	to -7.00
1.67 SuperLite™ (C,T7,P,TX)	-16.75 to +9.00	0.75t o 4.00	to -8.00
Polyplus™ (C,TV,T7,P,TX,D)	-14.75 to +8.00	0.75t o 4.00	to -7.00
1.74 SuperLite™ (C,T7)	-18.75 to +12.00	0.75t o 4.00	to -9.00

### LEGEND:

- C-Clear
- T7-Transitions® Signature7™
- PH-Photochromic
- P-Polarized
- TV-Transitions® Vantage™
- TX-XTRActive™
- B-BluTech (Indoor & Outdoor)
- D-Drivewear



## As-Worn Quadro™ Measurements

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). These measurements can be taken utilizing Shamir's digital measuring tool - **SPARK™**.

If the As-Worn measurements are not included with the Autograph III® order, the Shamir Prescripitor® will use defaults. These defaults are based on averages. **The consumer will benefit greatly from As-Worn Quadro™, experiencing more precise and perfected vision.**

The ranges for the "as-worn" measurements are as follows:

Vertex Distance: 5mm - 30mm

Pantoscopic Tilt: 0 - 12°

Panoramic Angle: 0 - 12°

## As-Worn Quadro™ - Resultant Rx™

These three patient measurements have been added to better interpret between the prescription derived from the phoropter and the prescription required by the doctor for the patient's glasses. In order to take advantage of the benefits of As-Worn Quadro™, the following measurements are required:

- 1. Vertex distance:** (refracted and fitted): Vertex distance is the distance from the front of the eye to the back of the lens, whether it is in the phoropter or in the frame.
- 2. Pantoscopic tilt:** Pantoscopic tilt is the angle of the frame to the face on the patient (in the phoropter this is zero).
- 3. Panoramic angle:** Panoramic angle is the parabolic curve of the frame in relation to a flat plane (the curvature of the frame in relationship to the patient's face).

By supplying the complete frame and fitting data in addition to these parameters, you are able to accurately deliver a personalized and superior lens to your patient as prescribed by the doctor for that specific frame.

Therefore, the doctor's prescription will be modified, taking the additional fitting requirements into account. The lab will return the glasses with two prescriptions; the original prescribed Rx and the "As-worn" Rx (a.k.a Resultant Rx™). **It is important to use the Resultant Rx™ to verify the lens prescription in a lensometer.** Some opticians may be concerned they are changing the doctor's prescription. However, if a Rx is altered by the way it is worn, compensating the Rx for the wearing effects ensures the final pair of glasses actually delivers the prescription the doctor intended.

### THE EFFECTS OF POSITION CHANGE POWERS:

A powered lens moved away from the eye becomes more plus and more minus when moved closer. Lenses tilted change sphere and cylinder power. To test these, place a -4 sphere lens in an automated lensometer and change the position up and down on the lens stop or change the tilt and watch the prescription change. As a result, to deliver the correct prescription, lenses should be compensated to deliver the prescribed Rx.

### Example

	Sphere	Cyl	Axis	Add	PD	Seg Height
R	-4.25				31.0	17.5
L	-3.75	-1.00	90	+2.00	31.5	17.0

Vertex Distance: 11.5mm (refracted at 13.5mm)

Pantoscopic Tilt: 10°

Panoramic Angle: 6°

### Resultant Rx™

	Sphere	Cyl	Axis	Add
R	-3.78	-0.395	74.07	1.582
L	-3.345	-1.261	93.8	+1.601

The above example shows the Resultant Rx™ we'll see as the prescribed Rx when worn in the frame. Clearly, those with higher prescriptions benefit the most.

## How to fit Autograph III®

1. Supply the Doctor's refracted Rx
2. Frame Data: (A, B, DBL) or frame tracer file
3. Fitting height & Mono PD (far)
4. Panoramic Angle
5. Pantoscopic tilt (patient should hold head in a natural position and look straight ahead during measurement)
6. Fitted vertex distance

Technical Inquiries: 888.370.0736



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