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## VARILUX® X 4D



Standard Rx range pricing shown below is for:

**Sphere:** Plano to + or -6.00

**Compound:** Plano to + or -6.00 on -0.25 to -3.00

Higher powers over this range, **add \$1.35 per lens, per diopter**

Lens materials available with The Smart Blue Filter are designated with the letter **B** in the material code.

Polarized and Transitions automatically filter at least 20% Blue Light

Lens Style Code: **VX X 4D**

2019 availability

Minimum fitting height: 14mm

Blank Size:	Lens Material:	Index:	DVI Material Code:	Scratch Resistant Coating:	Rx Range:	Base Curves:	Add Powers:
Varies by Rx	CR-39 Plastic	1.49	P B50	Outside Surface Only	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	Polarized <b>Gray, Brown</b>	1.49	PRY	Outside Surface Only	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +3.50
Varies by Rx	Trivex	1.53	H53 B53	Both Sides	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	Polycarbonate	1.59	PLY BLY	Both Sides	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	Polycarbonate Polarized <b>Gray, Brown</b>	1.59	PLP	Both Sides	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	1.67 High Index	1.67	H67 B67	Both Sides	-12.00 to +9.00 out to -6.00 cylinder total power not to exceed -12.00	Customized	+0.75 thru +4.00
Varies by Rx	1.74 High Index	1.74	H74 B74	Both Sides	-14.00 to +13.00 out to -6.00 cylinder total power not to exceed -14.00	Customized	+0.75 thru +4.00
Varies by Rx	Transitions <b>Gray, Brown</b>	1.50	TRN	Outside Surface Only	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00

**Please allow 7-10 working days to process Varilux X 4D 1.74**

**Systemically includes Crizal Previncia, Crizal Sapphire, Crizal Avancé or Crizal Alizé. Add to pricing. 1.74**

**Transitions is not available with Crizal Previncia.**

Blank Size:	Lens Material:	Index:	DVI Material Code:	Scratch Resistant Coating:	Rx Range:	Base Curves:	Add Powers:
Varies by Rx	Transitions XTRActive Gray, Brown	1.50	TRN	Outside Surface Only	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	Trivex Transitions Gray	1.53	T53	Both Sides	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	Polycarbonate Transitions Gray, Green, Brown	1.59	TPY	Both Sides	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	Polycarbonate Transitions XTRActive Gray, Brown, Green, Mirrors	1.59	TPY	Both Sides	-10.00 to +6.00 out to -6.00 cylinder total power not to exceed -10.00	Customized	+0.75 thru +4.00
Varies by Rx	1.67 Transitions Gray, Brown, Green	1.67	T67	Both Sides	-12.00 to +9.00 out to -6.00 cylinder total power not to exceed -12.00	Customized	+0.75 thru +4.00
Varies by Rx	1.67 Transitions XTRActive Gray, Brown, Green, Mirrors	1.67	T67	Both Sides	-12.00 to +9.00 out to -6.00 cylinder total power not to exceed -12.00	Customized	+0.75 thru +4.00
Varies by Rx	1.74 Transitions Gray, Brown	1.74	T74	Both Sides	-14.00 to +13.00 out to -6.00 cylinder total power not to exceed -14.00	Customized	+0.75 thru +4.00

**Additional Information:**

Building on the innovations of the Varilux S Series lenses that incorporates Nanoptix™, Synchroneyes™ and 4D™ technology, Varilux X Series lenses provide presbyopic wearers with the best vision possible at every distance, even in low light, for every activity, by incorporating W.A.V.E. 2 Technology. Varilux X Series lenses were designed to meet the needs of modern presbyopes. A common complaint from presbyopes is the head movement required to see sharply within arm’s length. Thanks to new Xtend Technology, Varilux X Series lenses extend sharp vision within arm’s reach, significantly reducing the head movement required for wearers to find “just the right spot.” Xtend Technology is a revolutionary new design calculation that is exclusive to Varilux X Series lenses. **Xtend technology gives wearers simultaneous sharp vision of multiple distances within arm’s reach through a single point in the lens.** Varilux X Series lenses are the result of five years of research and development, 19 wearer studies among thousands of wearers and 15 new lens design patents.

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#### **Extend Technology**

##### **Primary Patient Benefit: Unique design calculation that extends wearers vision within arm's reach**

Xtend Technology extends sharp vision within arm's reach, significantly reducing the head movement required for wearer's to find "just the right spot." Xtend Technology is a revolutionary new design calculation that is exclusive to Varilux X Series lenses. Xtend technology gives wearers simultaneous sharp vision of multiple distances within arm's reach through a single point in the lens.

#### **4D Technology**

##### **Primary Patient Benefit: Quicker access to every area of the lens**

4D technology is a revolution in personalization. Just as we are right handed or left handed, we also have a leading dominant eye. The leading dominant eye reaches the object being viewed first, when we change gaze direction. Optical blur on the leading dominant eye impacts the visual reaction time. By taking the leading dominant eye into account, the design is altered during the lens calculation to give the best optical performance for the visual system. 4D technology is available in the Varilux X 4D, which is the most sophisticated and advanced technology in the Varilux X Series. The result: quicker access to every area of the lens, patients experience faster visual reaction time and will achieve the highest level of performance and personalization.

#### **Nanoptix Technology**

##### **Primary Patient Benefit: Virtually eliminates the off-balance feeling**

Nanoptix is technology that entirely reengineers the fundamental structure of a Progressive lens during the design calculation process. Nanoptix is a method of creating and managing optical elements. A lens surface is made up of many optical elements. Each optical element is then re-engineered and optimized for base curve and power to allow light to pass through each and achieve continuity. With Nanoptix we are able to manage the "unwanted" light deviation that causes swim. Nanoptix Technology doesn't eliminate light deviation. Light deviation is a property of a lens and Nanoptix is not changing the laws of optics. It's a combination of these optical elements working together that results for the first time in a lens that not only virtually eliminates the swim effect, but also offers never before achieved stability in motion.

#### **Synchroneyes Technology**

##### **Primary Patient Benefit: Smoothest transitions between visual zones**

Synchroneyes Technology uses the Rx from both the left eye and right eye to simultaneously calculate the lenses as a pair. This ensures that the design is built around both eyes working together as a visual system. The result: better retinal image matching and improved spatial perception. Patients will experience expansive vision from edge to edge and look through the same area of each lens and same optical element. Patients will also experience true binocularity.

#### **Base Curve Selection**

You may not specify a base curve. Altering the base curve of the Varilux X Series destroys the optics of the lens. In addition, it can cause issues in manufacturing, alter aesthetics and create problems with mounting the lens.

#### **Rx Compensation**

The Rx of the Varilux X Design is compensated. It's calculated in wearer power. The compensated Rx will be shown either on the invoice or a separate "dual packing slip."

#### **Re-ordering a ½ Pair of Lenses**

Keep in mind that due to Synchroneyes technology, should you have to order a ½ pair such as for a scratch warranty, you can do so, however, when re-ordering the lens, you must give us the Rx for the other eye. However, should you have to change one lens due to a change in Rx, then both eyes have to be re-ordered. Remember, Synchroneyes technology uses the Rx from both the left eye and right eye to simultaneously calculate the lenses as a pair. This ensures that the design is built around both eyes working together as a visual system.

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Transitions is not available with Crizal Previncia.**

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**Measurements needed to properly order and fit Varilux X 4D**

- P.D's
- Fitting Height\*
- Pantoscopic Tilt\*
- Wrap Angle\*
- Eye Rotation Center
- Natural Head Position
- Leading Dominant Eye
- Reading Distance (optional)
- Progressive Length (optional)
- Minimum Fitting Height is 14mm
- Visioffice Required

**\*All position of wear measurements must be actual; default measurements will not be accepted**

Identifying Varilux X 4D

AR Coating Availability			Consumer Warranties	
Crizal® Family of AR	SharpView®	Zeiss Family of AR	Progressive Non Adapt	Scratch Resistant Coating
<b>Yes</b>	<b>Yes</b>	<b>No</b>	<b>90 days</b>	<b>1 year</b>

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