

# 9-STEP PROCESS



Patented Pad Control System™

High Surface Density™ (HSD)  
Super Hydrophobic Layer

Anti-Reflective Layers

Anti-Particulate Layer

SR Booster™ Layer

Two-Sided Scratch  
Resistance Layer

Lens

Anti-Reflective Layers with  
UV Reflection Protection



PATENT  
PENDING  
NANOLAYER  
Multi-Angular  
Technology™

FRONT SIDE  
OF LENS

BACK SIDE  
OF LENS

Image represents Crizal Sapphire® 360° UV lens stack. Thickness of layers for demonstration purposes only. The image is not representative of the actual thickness of layers or of the AR stack.

\*Total Crizal lens process thickness is less than 5µ.

# HOW DO CRIZAL SAPPHIRE® 360° UV NO-GLARE LENSES PROVIDE THE CLEAREST VISION POSSIBLE™?

## 1 Automated Lens Stripping and Cleaning

The process begins with an activation and abrasion of the surface of the bare substrate material to ensure the best possible hard coat adhesion with the lens.

## 2 Application of Scratch Resistance Layer

The scratch resistance layer is applied in equal thickness on both the front and back sides of the lens, ensuring flexible and strong durability.

## 3 Preparation of Lens Surface in Vacuum Coating Machine

The surface is again activated and cleaned, right down to the molecular level with an ion gun. This allows for excellent integration of anti-reflective layers to the hard coat.

## 4 Application of SR Booster™ Layer

This proprietary scratch resistant silica (glass) layer is added between the hardcoat and anti-reflective layers on both the front and back sides of the lens. This provides enhanced scratch resistance with a glass-like surface.

## 5 Application of Anti-Reflective and Nanolayers

The multi-layer anti-reflective treatment minimizes glare from the lenses, providing more comfortable vision and a more attractive appearance. The patent-pending nanolayer is exclusive to *Crizal Sapphire 360° UV* lenses and reduces direct and side reflections on both sides of the lens. On the back side of the lens, this layer is optimized to offer our highest level of UV reflection protection.

## 6 Application of Anti-Particulate Layer

Located in between the anti-reflective layers, this layer gives the lenses anti-static properties to actively repel particulates, dust and dirt at the molecular level.

## 7 Application of High Surface Density™ (HSD) Super Hydrophobic Layer

The HSD layer is a tightly packed layer of fluorinated molecules applied on both the front and back sides of the lens for cleaner, more durable lenses. This industry-leading technology repels water, body oil, and sweat so the lenses are easy to clean and require less wiping.

## 8 Application of Patented Pad Control System™

Due to the superior performance of the HSD layer, *Crizal*® lenses are so slippery they cannot be edged and mounted the same way as competitive No-Glare lenses. This temporary layer is applied so the lenses can be blocked for edging and mounting, and then is removed with a soft cloth.

## 9 Systematic Quality Check

One lens from every batch goes through specific stringent laboratory tests to ensure quality and consistency of the *Crizal* product and patient satisfaction.



Better Sight.  
Better Life.

Transitions™

Crizal®

VARILUX®

Eyezen™

Xperio™