



دی مرجان للبصريات
DMARJAN OPTICALS

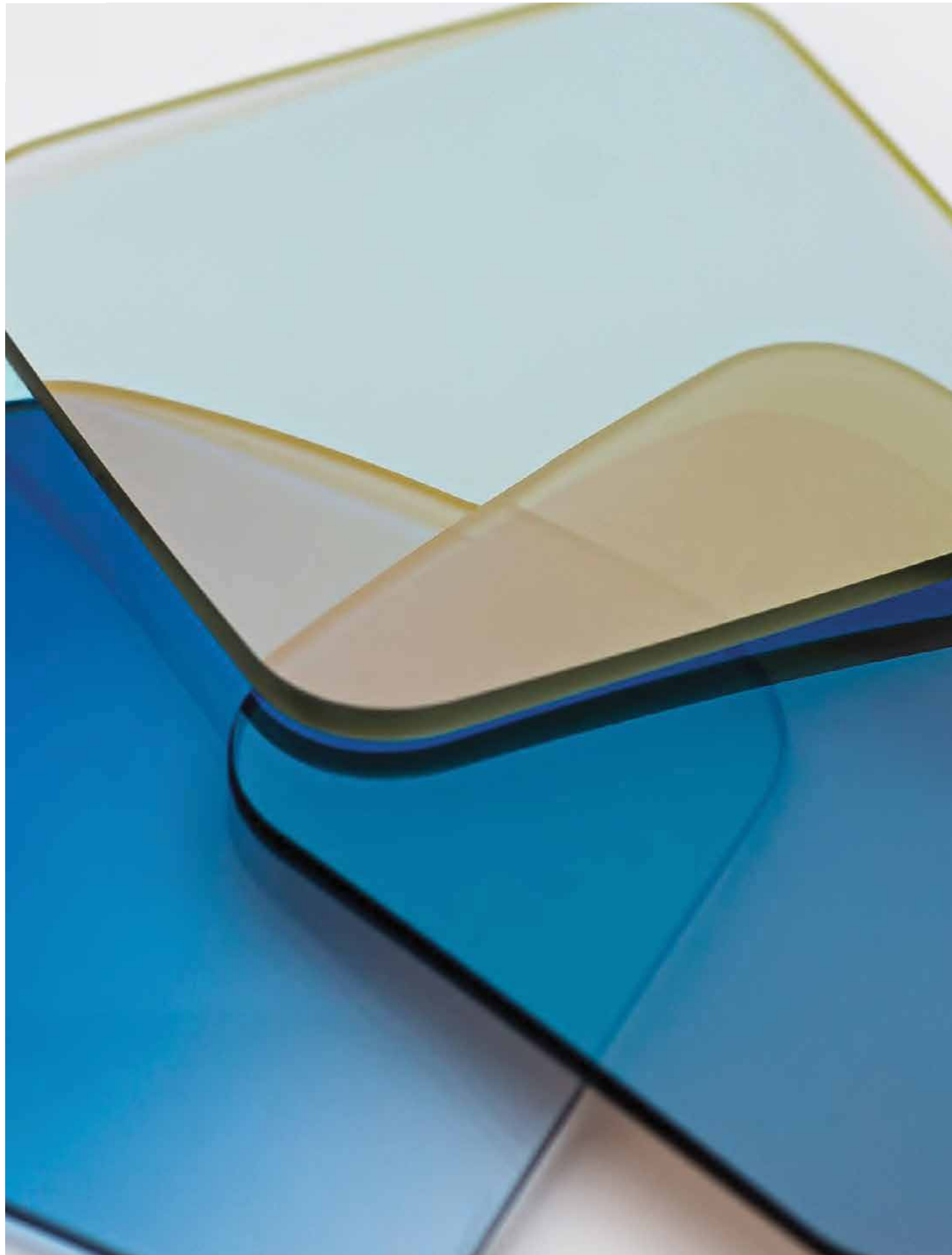


Shenzhen Crystal Star Technology Co., Ltd. was founded in 2004. The company specializes in the production of sun lenses and is a national high-tech enterprise that focuses on material research and development, sun lens production, and sales.

Currently, the company offers a wide range of sustainable and environmentally friendly lenses, including Tritan (TR18), Tritan (TR18) POL, Tritan Renew, Tritan Renew POL, TAC POL, PC, PC POL, Nylon (PA), Nylon (PA) POL, and 3D lenses.

One of the company's latest developments is the CSPL, which is the world's lightest and thinnest lamination PC polarized lens. It is known for its resistance to delamination and superior clarity.

Crystal Star has settled in YaSen Industrial Park, built a GMP-level clean production workshop, invested in material research and development, obtained multiple patents, and participated in industry standards formulation. It has passed ISO9001, ISO14001 system certifications, as well as product ISCC and FDA certifications. The company also uses advanced ERP and OA digital management systems.



The lightest and thinnest fitting in the world

Sunglasses are an essential part of people's lives. They represent fashion, serve as charming decorations, and are a must-have item. Additionally, they are a valuable tool for driving, fishing, outdoor sports, and sun protection.

Crystal Star has recently made significant efforts in developing new materials, expanding new processes, and optimizing new formulas. After 15 years of consistent research and development, investment, and experience accumulation, we have successfully developed CSPL (Clarity Super Polarized Lens), the world's lightest and thinnest laminated PC polarizing material.

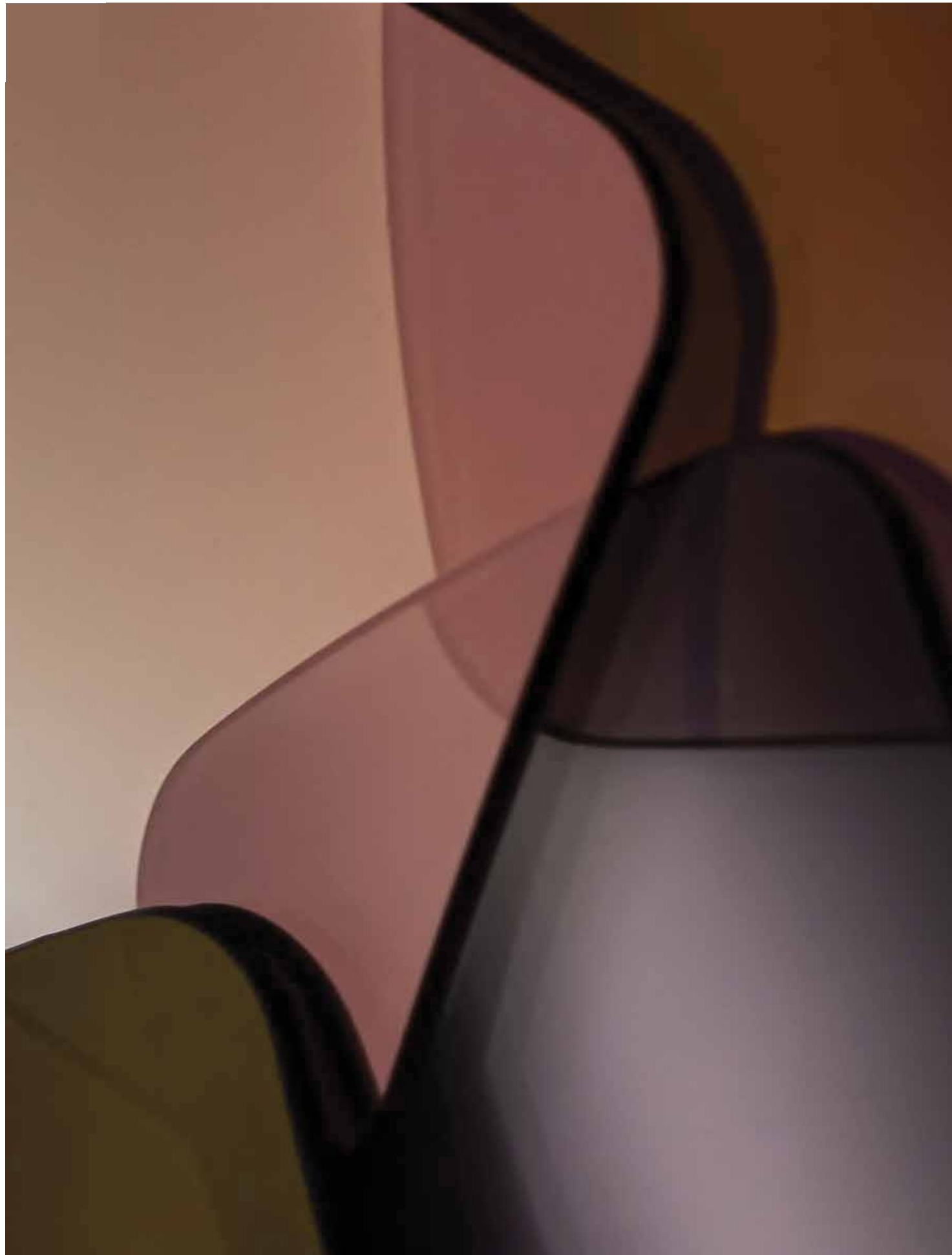
Since its launch, this product has received high recommendations from both domestic and foreign markets and has been well-loved by customers.



The newest features in CSPL












The main features of the CSPL lenses are:

- excellent performance
- high polarization efficiency rate (99%)
- ultra-lightweight
- ultra-thin
- more stable
- More layers lamination
- less delamination
- less deformation
- less discoloration
- high temperature resistance
- better raw materials
- better manufacturing technique



The structure of CSPL lense

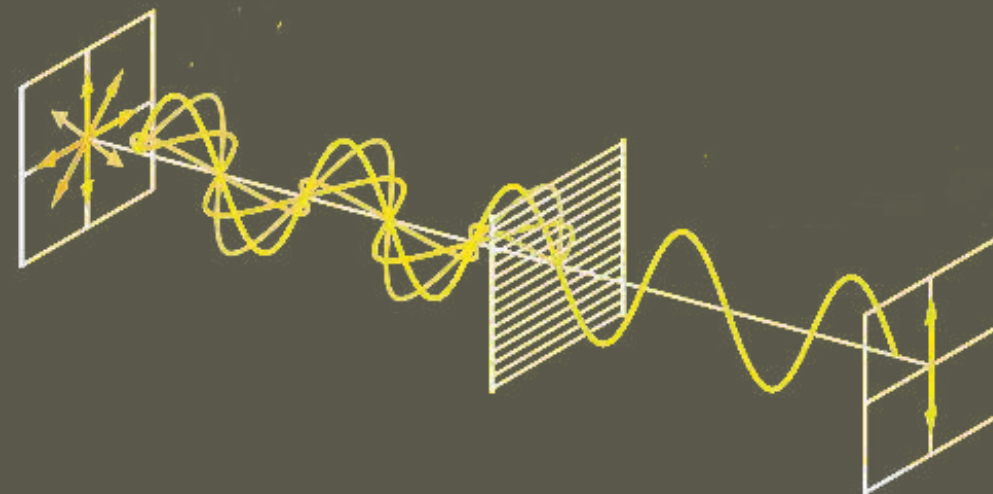
The CSPL lenses are produced through a complex stratification of multiple levels, which specifically are:

-  Protective Film
-  Hard Coating Layer
-  PC (UV400)
-  Adhesive Layer
-  Color Sheet
-  Adhesive Layer
-  PL (Polarized Film)
-  Adhesive Layer
-  PC (UV400)
-  Hard Coating Layer
-  Protective Film

How does the polarized lense work with sunlight

Sunlight scatters in all directions, but when it strikes flat surfaces, the reflected light tends to become polarized, meaning the reflected rays travel in a more uniform (usually horizontal) direction. This creates an annoying, sometimes dangerous intensity of light that can reduce visibility, called glare.

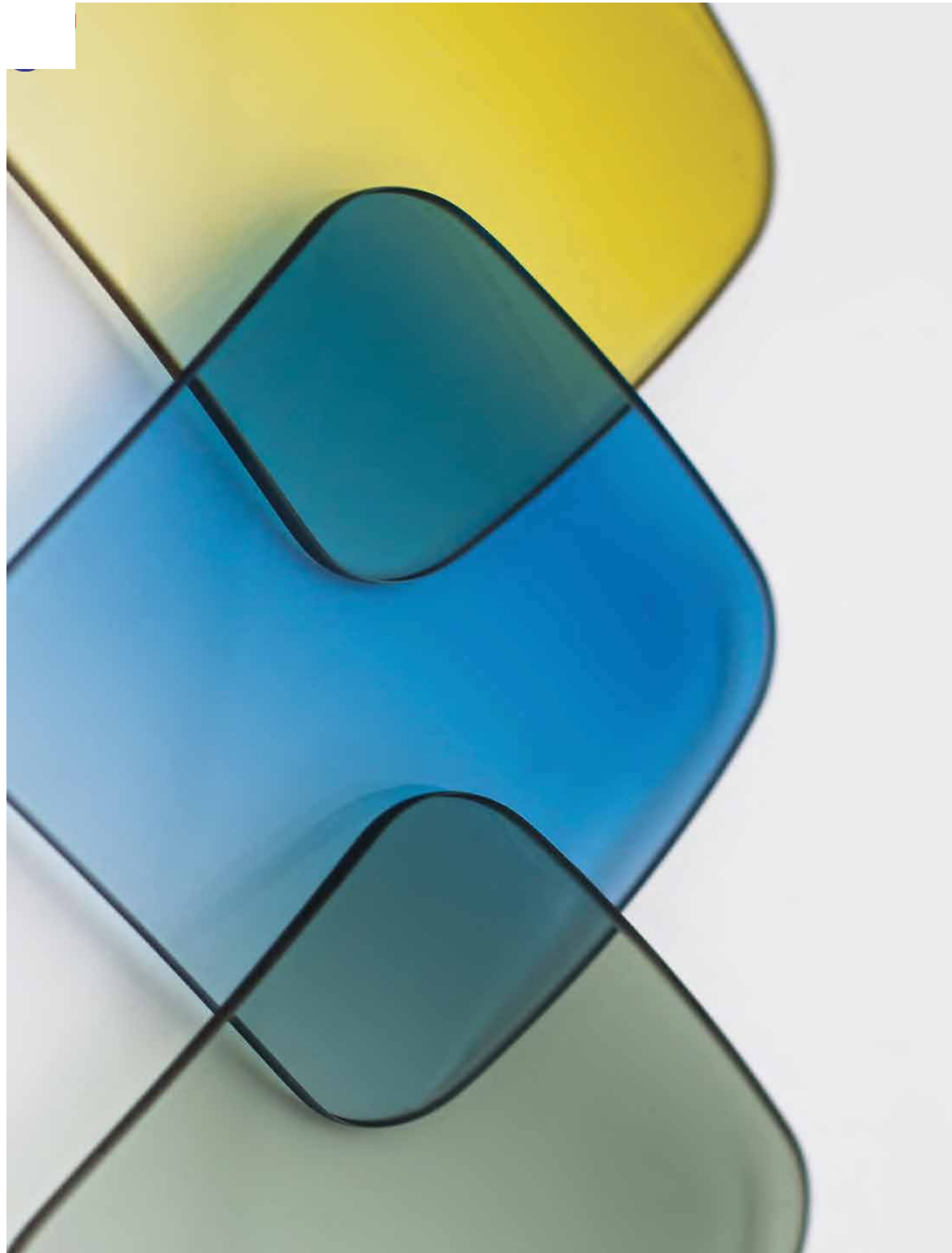
Polarized sunglasses are known for their ability to block the glare that reflects off of certain surfaces.



The CSPL lenses compared to other Crystal Star products

Feature	CSPL	TACPL	PCPL
80° Constant Water Resistance Test	No delamination after 48h	Delamination after 4h	Delamination after 20h
Clarity Comparison	Super HD	General	Good
Hardness	2H	1H	2H
Anti-deformation	Good	General	Good
Polarized Performance	Better	General	Good
Temperature Resistance	100°C	80°C	100°C
Weather Resistance	Better	General	Better
Process Performance	Better	Good	Excellent
Impact Resistance	Better	Better	Best
Optical Performance	Better	General	Best





The process of production

The phases through which a CSPL lens has to pass before being tested and distributed are:

- Optical film production
- Lamination
- Slice & carve
- Cleaning
- Dye and dip
- Hard coating
- Bake & hard
- Bending
- Bending QC
- Coating
- Coating QC
- Packaging

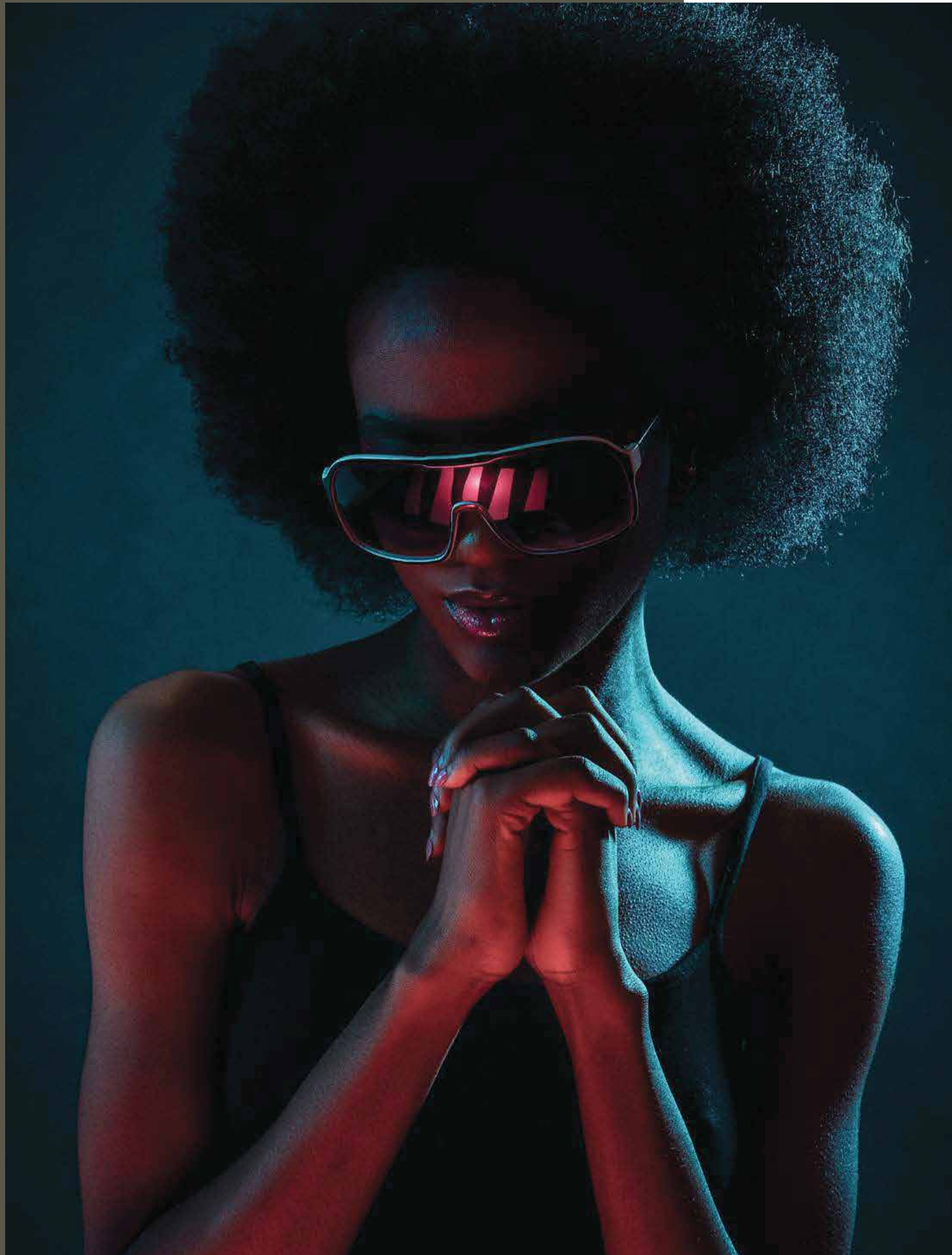


Mission

Become the largest provider of functional lenses in the world

Vision

Provide personalized fully functional lenses solutions for different circumstances



Core values of Crystal Star

Reliable

Reliable trustworthiness, honesty within oneself, honest behavior, honest work, and seeking truth from facts; Having external trust in others, having credibility, maintaining credibility, keeping promises and achieving what is said.

Non-compromise

Work meticulously with a serious, cautious, comprehensive, and perfect attitude, pursuing perfection, and possessing a sense of awe.

Innovation

Proactively change, improve and create new materials, processes, methods, elements, and paths, and always cultivate innovative thinking habits.

Accomplishment

Create maximum value for customers and enterprises, achieve customer, enterprise and self achievement.



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