

2024
HOYA Vision Care
product & technology
reference guide

Redefining every aspect of vision correction

HOYA
FOR THE VISIONARIES

Global technology leader



Since 1941, HOYA® has been a leader in optical technology and innovation with a passion for finding the best vision solutions. Our teams around the world tirelessly research ways to manipulate light to provide higher-quality lens solutions that deliver clear results for our eye care partners and their patients.



Our leadership in product innovation was recognized as EyeVote winners for overall Spectacle Lens Company and Favorite Progressive Lens Brand for iD LifeStyle.

We are HOYA, and we are for the visionaries.



Health care

- Eyeglass lenses
- Contact lenses



Electronics

- Mask blanks, photomasks for LSI
- Photomasks for LCD panels
- Glass disks for HDD



Imaging

- Optical glass/lenses
- Laser equipment



Medical

- Medical endoscopes
- Intraocular lenses
- Prosthetic fillers and orthopedic implants

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Day One Job One

**Enroll today and earn points
starting on Day 1, Job 1.**

No monthly minimum purchase required.



**Visionary Alliance is where independent ECPs
can go to feel connected to their HOYA network.**

For Existing Members

97% of Visionary Alliance Members
plan to renew. You can renew
membership here.



Scan QR code or
visit [visionaryalliance.com](https://www.visionaryalliance.com)

For New Members

New to HOYA?
Pre-enroll here.



Scan QR code or
visit bit.ly/va-pre-enroll

Your Patients. Your Brand. HOYA Support.

The Promotion is open only to professional eye care practices that are not excluded, debarred, or suspended, nor owned or controlled, in whole or in part, by a person who is excluded, debarred, or suspended, from participation in any federal health care program as defined at 42 U.S.C. § 1320a-7b(b).

HOYA progressive lens resource guide

Technology	Feature	Amplitude® BKS/Mini	Amplitude® HD3 /Mini	Array® 2 /Wrap	iD LifeStyle® 4	iD LifeStyle® 3	iD MyStyle® 2
 3D Binocular Vision™	Improved horizontal and vertical prism imbalance reduces distortions in near and intermediate areas, giving less swaying effect when moving.				✓		
 Integrated Dual Side Technology	Vertical progressive component on front for easy viewing near to far. Horizontal progressive component on back giving widest near field of view.		✓		✓	✓	✓
 BKS Technology™	Applies HOYA Free Form backside surfacing technology to any semi-finished single vision lens in virtually any material. BKS offers larger cutouts for larger frames.	✓		✓			
 Free Form Production	Pixel-perfect lens calculation for optimal visual performance for your patient's prescription.	✓	✓	✓	✓	✓	✓
 Corridor Length Options*	Adjusted progressive power distribution creates the ideal corridor length to match patient's activities.	11, 15	11, 14	11, 13, 15, 17	11, 12, 13, 14, 15, 16	11, 12, 13, 14	11, 12, 13, 14, 15, 16
 Position of Wear**	Pantoscopic tilt, vertex distance and face form angle measurements are considered in the design to match the patient's specific frame and Rx.		✓***	✓	✓	✓	✓
 Binocular Eye Model	3D patented modeling of lens design for each patient.			✓	✓	✓	✓
 Binocular Harmonization Technology™ (BHT)	Patented technology balances the prescription differences between the right and left eyes, resulting in effortless focusing at intermediate and near distances.			✓	✓	✓	✓
 Stable View Enhancer	Evaluation method to reduce distortion when moving around and going up or down stairs.		✓		✓	✓	✓
 View Xpansion Technology	Reduces aberrations from all viewing angles, allowing patients to maintain clear vision with head movement.		✓		✓	✓	✓
 HOYA Identifier	A web questionnaire that records personal prescription, wearing history, wearing parameters, and lifestyle preferences of the patient.						✓
 Design Options	Tailored lens design solution fitted to your patient's personal lifestyle activities and visual needs.				Urban, Outdoor, Indoor	Urban, Outdoor, Indoor	Modern, Detail, Stable, Adventure

*For proper fitting, please consult the product centration chart.

**Default Position of Wear Measurements: Vertex Distance: 12.30mm, Pantoscopic Angle: 8.30 degrees, Wrap: 4.40 degrees

***Amplitude HD3/Mini is a compensated design but does not allow Position of Wear Measurements. Default Measurements are used.

iD[®] progressive lenses

Experience



Visual



Harmony



iD MyStyle[®] 2 is the most personalized and technologically advanced design available today

HOYA understands that everyone sees differently. It is essential to not only take into account the prescription and required correction, but also the individual characteristics of the wearer. iD MyStyle 2 takes into account all the variables that are specific for each wearer.

Our patented Integrated Dual Surface™ (iD) design shapes lenses exclusively for the way your patients see. It's the first to shape a lens design on both the front and back surfaces. This results in more comfortable transitions between near and far distances, wider viewing zones, and a dramatic reduction in blurring in peripheral vision.

With Binocular Harmonization Technology™ (BHT), iD MyStyle 2 takes into account the differences between right and left prescriptions to balance the design performance. Thus, perfect and effortless focus, constant stability, and excellent depth of vision are provided.



Integrated Dual Side Technology



Binocular Harmonization Technology



Position of Wear



Stable View Enhancer



Personalized Optics



4 Convenience Options

4 convenience options

Customizing iD MyStyle 2 lens design just got easier – Choose from 4 convenient profiles to get you on your way to customizing the perfect lens for your patient.



Modern

Indoors/outdoors

- Anyone who prefers only one pair of lenses for convenience
- No clear preference for specific distance



Adventure

Outdoors

- Outdoor sports and activities
- Teacher/driver
- Walks dog daily
- Clear edge-to-edge distance



Detail

Indoors

- IT worker/mechanic/accountant
- Close work focus
- Puzzles, crafts, scrapbooking, hobbyist



Stable

Indoors

- Experienced wearer
- Senior/sedentary/less active
- Eye gazer
- ST28 to PAL

2020 VM
EYEVOTE
 READERS' CHOICE 2023

New



Your favorite progressive lens brand just got better!

iD LifeStyle® 4

Prescribe HOYA's new iD LifeStyle 4 with confidence.

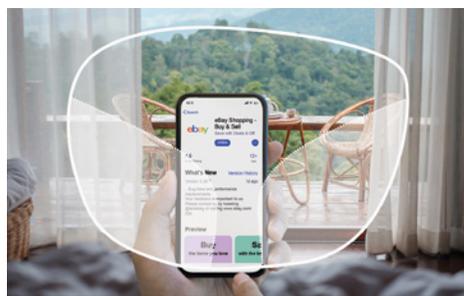
3D Binocular Vision™ technology has been added to our bestselling LifeStyle lens design. Your patients will experience easier adaptation resulting from comfortable vision, fewer distortion areas, and easier focusing, so you can prescribe iD LifeStyle 4 with confidence.

HOYA's new 3D Binocular Vision™ technology delivers faster adaptation thanks to **3x less peripheral deformation**.¹ iD LifeStyle 4 reduces the occurrence of unwanted prismatic effects in the near-range peripheral vision, resulting in more comfortable, stable vision.

Available designs

- **iD LifeStyle 4 Indoor:** Designed for presbyopes who spend a lot of their time indoors, looking at digital devices or reading
- **iD LifeStyle 4 Urban:** Designed for presbyopes who are active, always on the go, and also enjoy reading books and using their digital devices
- **iD LifeStyle 4 Outdoor:** Designed for presbyopes who primarily wear their correction for distance use yet still require clear vision to see their phone and other near materials

Polarized options are available in gray, brown, and green.



Conventional vision technologies without Binocular Technologies



iD LifeStyle 4 with Binocular Technologies

iD LifeStyle 4's four core technologies



3D Binocular Vision
 Reducing the peripheral prismatic imbalance reduces distortions and offers a brand-new level of comfort.



Binocular Harmonization Technology
 A true binocular solution that helps the eyes work better together for precise and effortless focusing, depth of vision and stability.



Binocular Eye Model
 Assesses the lens's binocular design to provide the best binocular and harmonized images possible.



Integrated Double Surface Design
 Splitting the progressive component between the front and back surfaces maximizes the field of view, minimizes distortion and reduces eye rotation.

1. Based on models of peripheral progressive deformation with and without 3D Binocular Vision™ technology.

Simply outstanding progressive lenses



iD LifeStyle® 3

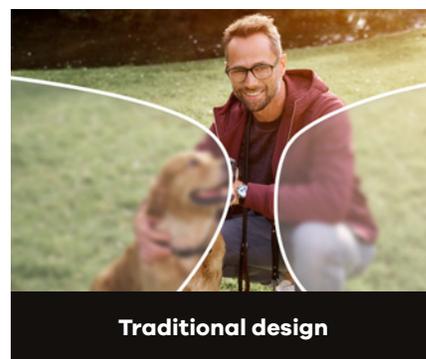
Design benefits

- Optimized visual acuity and a crisper image perception
- Noticeably more relaxed vision thanks to precise focusing
- More accurate correction

Available designs

- **iD LifeStyle 3 Indoor:** Designed for presbyopes who spend a lot of their time indoors, looking at digital devices or reading
- **iD LifeStyle 3 Urban:** Designed for presbyopes who are active, always on the go, and also enjoy reading books and using their digital devices
- **iD LifeStyle 3 Outdoor:** Designed for presbyopes who primarily wear their correction for distance use yet still require clear vision to see their phone and other near materials

Polarized options are available in gray, brown, and green.



Traditional design



iD LifeStyle 3

Array® 2

HOYA's best-in-class technologies and quality continue to advance progressive lenses. Array 2 applies HOYA free form backside surfacing technology to virtually any semi-finished single vision lens, in any material, allowing your practice to offer a greater selection of lens options. Array 2 expanded availability makes dispensing multiple pairs of glasses easy.

Benefits

- Vision stability
- Precision focus
- Balanced, comfortable reading with Binocular Harmonization Technology (BHT)
- Effortless adaptation
- Higher customer satisfaction

Available corridor lengths

- Array 2
11, 13, 15, 17, VL
- Array 2 Wrap
11, 13, 15, 17, VL

Premium single vision

HOYA has driven single vision lens design innovation with a passion for finding the best vision solutions that deliver clear results. For practices that offer free form progressives, you should also consider offering free form single vision lenses to your patients to further differentiate your brand.



Why MySV™ is right for today's patients

Traditional single vision lenses correct the central vision very effectively. Unfortunately, traditional single vision lenses do not meet patients' demanding needs for overall quality of vision. Your patients deserve lenses that utilize today's lens technology for today's visual demands.

Which patients will benefit most from MySV?

Confidence



Patients who want to have 360° visual comfort everywhere they look.

Peripheral Vision

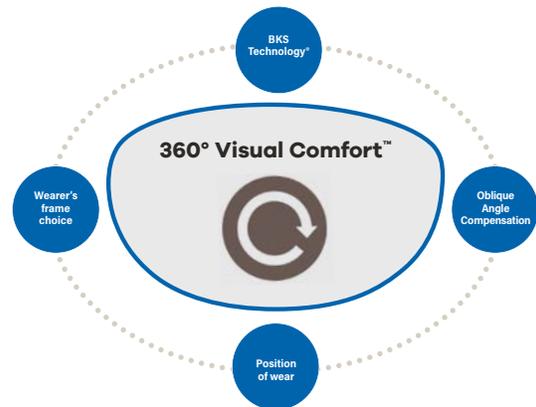


Patients with astigmatic prescriptions who struggle with peripheral distortions in conventional lenses.

Aesthetics



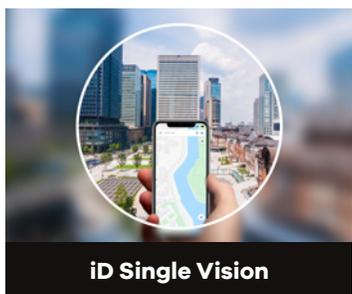
Patients who feel limited in their frame selection due to lens thickness.



The MySV experience implements four powerful elements

For too long, single vision wearers have been underserved. The technology available to differentiate their experience is here. HOYA's MySV lenses achieve fully personalized 360° Visual Comfort™ through:

- 1 **BKS Technology®**
- 2 **Oblique angle compensation**
- 3 **Each patient's position of wear**
- 4 **Wearer's frame choice**



iD Single Vision



Standard design

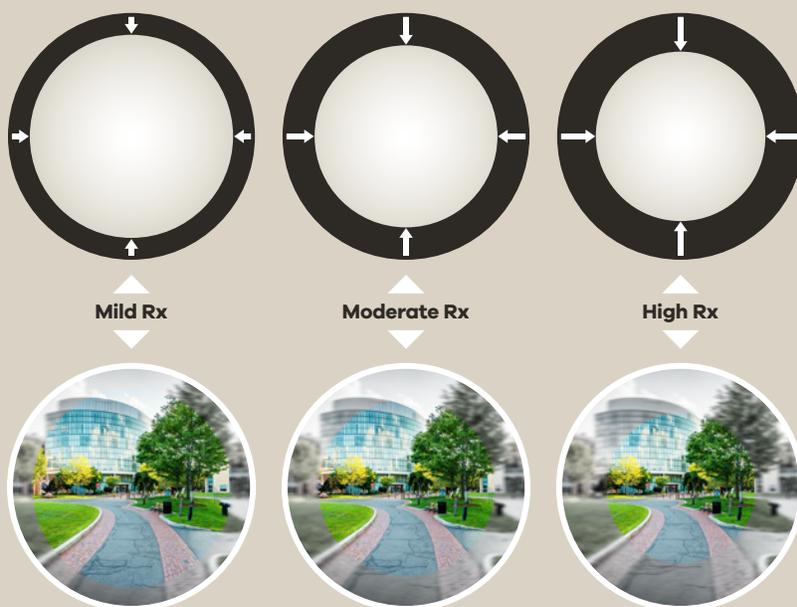
iD Single Vision® Advanced bi-aspheric single vision by HOYA

iD Single Vision utilizes aspheric curves on both the front and backside of the lens, creating a bi-aspheric HOYA free form lens design. This provides expanded peripheral viewing, especially in higher prescriptions, and results in the thinnest lenses.

Design benefits

- Optimized visual acuity and a crisper image perception
- Noticeably more relaxed vision thanks to precise and effortless focusing
- More accurate correction
- Providing OC and monocular PD measurements yields exceptional results

Stronger prescriptions can reduce edge to edge clarity.



Mild Rx

Moderate Rx

High Rx

Any prescription can be enhanced and provide improved clarity in the lens periphery.

iD Single Vision



Edge to edge clarity

Clear vision at all powers
+/- 4.00 to +/- 6.00

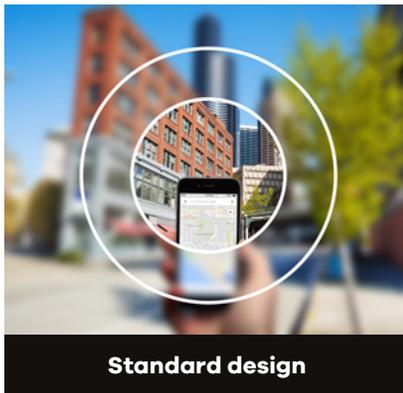
Computer and work lenses

65% of Americans report experiencing symptoms of digital eye strain. 27% of Americans do not know computer eyewear can protect against digital eye strain (DES).*

HOYA builds the bridge between technology and experience with iD lenses designed for your digital lifestyle. The iD Space, Screen and Zoom are shaped on both the front and back surfaces for unparalleled workspace comfort.



*The Vision Council, Digital Eye Strain Report 2016.



Our eyes weren't made for screens. Sync III™ lenses are.

Most people spend an average of 8-10 hours a day looking at digital screens, with peaks reaching up to 15 hours a day.* Digital eye strain symptoms can manifest in as few as 2 hours of digital screen viewing.†

Sync III lenses have a slight power boost design that will support and relax your eye muscles, relieving eye strain to let you focus more easily. Sync III lenses work with any standard prescription.



Power boost design variations



Free form backside surfacing



Position of wear and frame measurements

Three boost levels:

- Sync III 5 (+0.57D): Mild support for younger adults, including students
- Sync III 9 (+0.95D): Extra support for heavy screen use and moderate symptoms of digital eye strain
- Sync III 13 (+1.32D): Heavy screen use and significant symptoms of digital eye strain

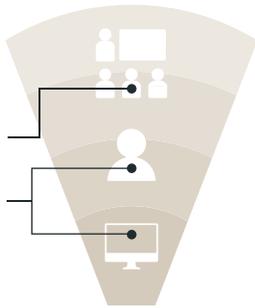
* HOYA Consumer Digital Behavior Study, October 2017.

† Ang C., Dinevski D., Vlasak N., Kok A. Taking the strain. *Optician*. 05/2017, vol. 253, no. 6600, p.25-28.





iD SPACE

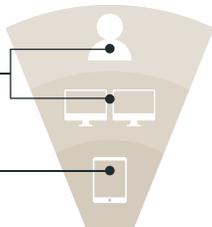


iD Space™

The ideal lens for performing activities where the focus is beyond the distance of a computer screen. This design is ideal for patients who are more mobile in their office environment.

- Meeting
- Smartphone
- Television
- Shopping

iD SCREEN

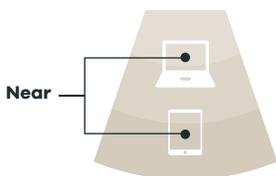


iD Screen™

Best choice for professions requiring maximum clarity at an intermediate distance like those working in stores and offices. This design is ideal for anyone working on dual monitors.

- Television
- Tablet
- Computer
- Gaming

iD ZOOM



iD Zoom™

Perfect for hobbies and laptop work requiring high levels of concentration and sharp vision at close range. Providing the widest possible near area and offering clarity at a shortened distance.

- Laptop
- Clerical
- Smartphone
- Tablet

HOYA anti-reflective and blue filtering treatments

Technology	Feature	HiVision®	HiVision ViewProtect®	Super HiVision® EX3™	Super HiVision® EX3+™	Super HiVision® Meiryo™ EX4™	Recharge®
 Substrate Matching Technology	Each layer is engineered to work with the other layers improving the performance, appearance, and durability.	✓	✓	✓	✓	✓	✓
 Reduced Reflections	Provides optimal visual clarity and reduces eye strain.	✓	✓	✓	✓	✓	✓
 Oleophobic Treatment	Smudge-repellant technology helps keep lenses clean, even after being touched.		✓	✓	✓	✓	✓
 Hydrophobic Treatment	Water-repellant technology retains premium, easy-to-clean properties even after long-term use and repeated wiping.		✓	✓	✓	✓	✓
 Low Reflection	Provides enhanced vision for night driving, improves appearance, and optimizes visual clarity.		✓	✓	✓	✓	
 Ultra-durable Anti-Scratch Layer	Provides optimal durability and extends the life of the lens.				✓	✓	✓
 Blue Reflect Layer	Protects against blue light, reduces digital eye strain, and minimizes eye fatigue.						✓

Anti-reflective treatments

New

60

years of coating evolution

Your patients expect:

- Extreme durability
- Superior clarity
- Easy to clean

Super HiVision[®] Meiryō™ EX4™ is superior clarity that lasts.

HOYA's Super HiVision Meiryō EX4 AR treatment provides everything your patients expect and goes above and beyond any other coating on the market.

Extreme durability

- Up to **2.5x better scratch resistance** than major competitor's best coating¹

Easy to clean

- Stays **easy to clean 10x longer** than major competitor's best coating³

Superior clarity

- **56% lower reflectance** than major competitor's best coating^{2,6}

Your patients will enjoy superior clarity⁴ that lasts longer and benefit from best-in-class surface durability⁵.

Additional resources

More information on the tests conducted is in our white paper titled **"Exploring key features that work together to create the ultimate coating"** which is available on our website www.hoyavision.us and on request.



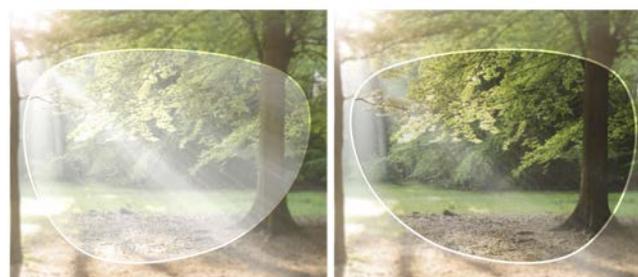
Uncoated

Super HiVision Meiryō EX4



Uncoated

Super HiVision Meiryō EX4



Uncoated

Super HiVision Meiryō EX4

¹ HOYA data on file. Product assessment report – Hi-Vision Meiryō. 03/2023. Compared to several competitor coatings including major competitor's best coatings. Passed 2.5kg SWSC test when most competitive lenses tested did not pass 1kg in the SWSC.

² HOYA data on file. Product assessment report – Hi-Vision Meiryō. 03/2023. The reflection has been calculated based on the reflection values measured in the Luminous reflectance Rv evaluation.

³ HOYA data on file. Product assessment report – Hi-Vision Meiryō. 03/2023. Hi-Vision Meiryō (HVLL 2.0) maintains Hydrophobic performance more than 10X that of major competitor.

⁴ HOYA data on file. Product assessment report – Hi-Vision Meiryō. 03/2023. Hi-Vision Meiryō (HVLL 2.0) performed over 2x better than several competitive coatings in the HB test. Hi-Vision Meiryō (HVLL 2.0) demonstrate best in class surface durability through both HB and SWSC tests.

⁵ HOYA data on file. Product assessment report – Hi-Vision Meiryō. 03/2023. Hi-Vision Meiryō (HVLL 2.0) maintains Hydrophobic performance up to 5X that of all competitive coatings tested.

⁶ HOYA data on file. Product assessment report – Hi-Vision Meiryō. 03/2023. Hi-Vision Meiryō lasts longer than all major competitors. 56% lower reflectance than major competitor's best coating resulting in exceptional clarity. Hi-Vision Meiryō maintains Hydrophobic performance up to 5X that of closest competitors.

Anti-reflective treatments

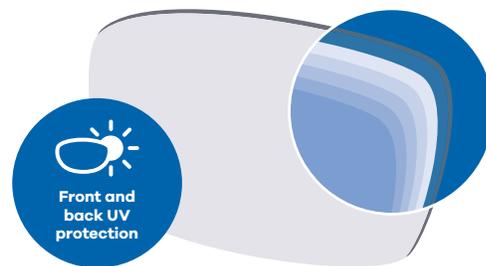


Super HiVision® EX3+™

HOYA's own in-house produced lens materials and jointly manufactured lenses meet the highest quality standards, all while reducing the most significant annoyances.

This treatment is the perfect solution for anyone who is interested in protecting their investment and keeping their lenses in excellent condition all year-round. Based on a special composition of various layers, EX3+ treatment keeps lenses safe and glasses wearers happy, even after years of usage.

Using Super Premium Anti-Reflective (AR) technologies, HOYA has made EX3 better with the addition of backside UV protection.



Scratch resistant



Glare resistant



UV protection



Smudge resistant



Improved night time vision



Water resistant



Dust resistant



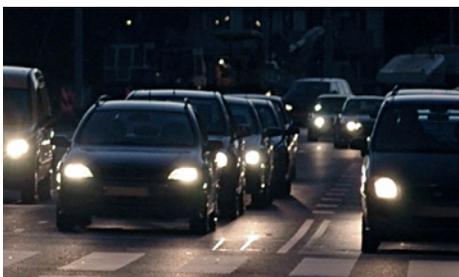
Substrate Matching Properties (SMP)



Selfie approved



No treatment



EX3+ treatment

- Extreme scratch resistance
- Extreme clean vision—oil, water and dirt resistant
- Extreme anti-reflection for maximum visual clarity

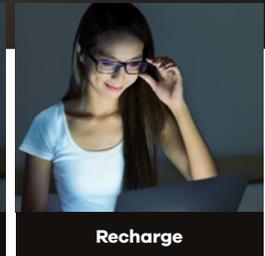
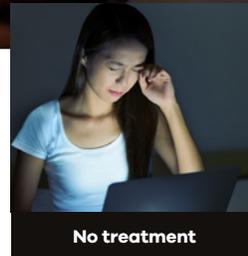
60

years of coating evolution

Recharge®

Recharge filters blue light transmitted from the backlit screens of digital devices. Perfect for patients who suffer from digital eye strain (DES).

- Filters blue light through a combination of absorption and reflection
- Keeps eyes comfortable and refreshed
- May help alleviate eye strain, fatigue, headaches, loss of focus, and blurred vision (DES)
- Re-energizes focus



Blue light filtration



Scratch resistant



Glare resistant



UV protection



Smudge resistant



Water resistant



Dust resistant



Substrate Matching Properties (SMP)

Super HiVision® EX3™

EX3 guarantees exceptionally clear and relaxed vision, while also prolonging the life and appearance of the lenses. It offers resistance to fingerprints, water, dirt, and smudges. Patients have one common goal: no scratches! With EX3, lenses are designed to withstand even the most active lifestyles. Backed by HOYA's 2-Year Unlimited Guarantee, patients can enjoy peace of mind along with superior lens performance.

- Extended lens life
- Eliminates reflections and glare – reduces eye fatigue
- Safer nighttime driving
- Resists fingerprints, water, dirt and smudges



Scratch resistant



Glare resistant



Smudge resistant



Improved nighttime vision



Water resistant



Dust resistant



Substrate Matching Properties (SMP)

SUPER HVISION

EX3



Please refer to page 27 to see the full list of anti-reflective treatments offered by HOYA.

Materials



Clear Blue Filter™ Everyday protection from damaging light rays



Recommended as
an effective UV filter
for the eyes and
surrounding skin.

All eyes are vulnerable.

From sunlight to digital devices, ultraviolet and high-energy blue light is everywhere.

Clear Blue Filter lenses may help protect eyes from the harmful effects of powerful rays.

Give your customers the best protection.

Block UVA/UVB rays and filter the most damaging, highest-energy blue light with Clear Blue Filter.

Provide comfort from sunlight, screen time, and other everyday activities. It also helps safeguard eyes from cataracts, macular degeneration, and other serious conditions linked to UV and high-energy blue light.^{1,2}

Designed for daily wear.

These lenses are thin, lightweight, impact-resistant, and affordable—making them perfect for everyday use.



Powered by science

Blocks 100% of UV (400nm) and filters damaging high-energy blue light rays.



Safe for young eyes

Children are 70% more susceptible to high-energy blue light transmitted to a child's retina.³



Protection by design

Safety is built into the lens, not the coating.

¹ "The Family of Sunlight-Related Eye Diseases" Optometry & Vision Science, Volume 71.

² "Is sunlight exposure a risk factor for age-related macular degeneration?" British Journal of Ophthalmology, Volume 97.

³ "Clinical Light Damage to the Eye", Sidney Lerman, M.D.



HOYA Materials

1.50

Basic, thin, and light lenses. Widely prescribed for comfort, durability, and impact resistance

Lens features

- Lightweight
- Best visual acuity for mild and moderate prescriptions
- Comfortable and durable

HOYA Phoenix®

Very strong and reliable material, the ideal choice for your customers and their children when it comes to protecting their eyes.

Lens features

- 60x safer than plastic
- Impact resistant
- UV protection
- Sharper vision
- Lightest lens material for all-day comfort

1.59

Thinner and lighter than regular plastic lenses.

Lens features

- Impact resistant
- Lightweight
- UV protection

1.60

Premium-performing high-index lens material.

Lens features

- Very thin and lightweight
- Extremely strong and flexible
- UV protection

1.67

Exceptionally thin, strong, and light design with superior optical clarity.

Lens features

- Exceptionally thin
- 25% flatter than 1.60 or 1.59
- UV protection

1.74

The thinnest and flattest ultra high index lens material on the market.

Lens features

- Nearly 50% thinner than plastic
- Nearly 5% thinner than 1.67
- UV protection

Plastic 1.50

-6.00



Phoenix 1.53

-6.00



Poly 1.59

-6.00



High-Index 1.60

-6.00



High-Index 1.67

-6.00



High-Index 1.74

-6.00



All data quoted for minus powers is for 65mm diameter lenses. The chart is for comparison purposes only. Actual lens results will differ based on individual prescription, personal measurements, and frame selected.

Sun solutions



The brand patients know and trust.



100%
UVA and UVB
protection



Up to 97%
reduction in
blinding glare²



3 unique colors
that do not distort
color perception



Utilizes a patented
manufacturing
technology

Offer them the best sun protection money can buy.

Today's patients are more health-conscious than ever. Give your patients the best sun protection money can buy and a brand they know and trust.

The ultimate protection under the sun.

Coppertone® polarized lenses offer at least **1.6 times higher** High Energy Visible light protection versus standard polarized lenses.¹



Coppertone Gray



Coppertone Brown



Coppertone Green



**Recommended as
an effective UV filter
for the eyes and
surrounding skin.**

¹ Coppertone HEV Gray polycarbonate lens vs standard 1.50 polarized gray lens between 380nm-460nm

² HEV brown lenses

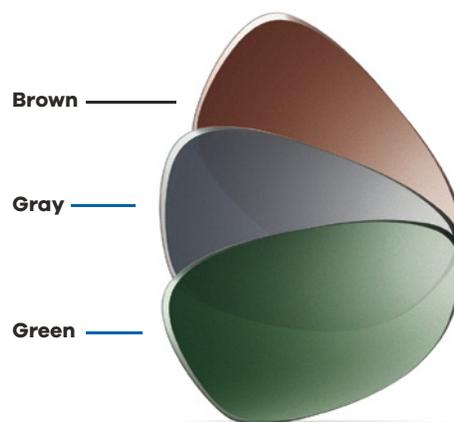


Enjoy more time by the pool, in the mountains, or at the beach with HOYA's Polarized sun lenses.

With HOYA's polarized sun lenses, blinding reflections and visual discomfort are no longer an issue. Reduced glare and enhanced contrast offer improved visual performance, comfort, and protection.

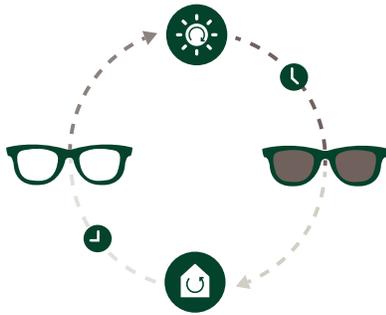
Features:

- Three fashion-forward colors
- Available in a wide range of designs including LifeStyle® 3 Sun
- Available with new HOYA mirror coatings
- Available for all ages



The full Sensity® family: for limitless lifestyles

Make your move toward
Sensity light-adaptive lenses.



All Sensity® light-adaptive lenses feature the following benefits:

- Consistent performance in different climates and light conditions, thanks to Stabilight Technology**
- Outstanding contrast and glare reduction with Sensity's deep, natural colors
- Reduced glare when activated
- 100% protection against UV rays**
- Blue light protection indoors and outdoors***



Stand out with quality and comfort

Sensity® 2 provides all-day comfort for light-sensitive eyes, no matter the climate, season, or lifestyle.

Patient benefits:

- Best balance of fadeback speed and darkness for most patients
- Darkens to a dark category 3 sun tint
- Extremely clear indoors



Stand out with faster speed

Sensity® Fast is our fastest light-adaptive lenses, rapidly fading back from dark to clear.

Patient benefits:

- Ideal for first-time photochromic patients who prefer the fastest fadeback
- Darkens to a category 2 sun tint
- Extremely clear indoors



*Based on internal and external photochromic activation and deactivation measurements taken at different temperature levels.

^Stabilight Technology does not apply to Sensity Fast.

**All Sensity lenses provide 100% UV protection with the exception of Sensity 2 Oceanic Blue in 1.50 material which cuts 99.0% of UV. Internal assessment by HVC R&D Laboratories.

***Based on internal testing of average light transmission between 381nm-500nm compared to standard clear lens.



**Convenient
2 in 1 solution**



**UV/HEV
protection**



**Glare
reduction**



**Stable performance
in all climates**



Stand out with extra performance

Sensity® Dark lenses are engineered for outdoor activities and driving – ideal for an active lifestyle.

Patient benefits:

- Best for the most light-sensitive patients
- Our darkest Sensity lenses outdoors
- Lenses darken behind most car windshields
- Slight tint indoors for those sensitive to indoor light



Silver Gray



Bronze Brown



Emerald Green

SENSITY
DARK



Stand out with extra style

Sensity® Shine combines comfort, convenience, and fashion with a mirror coating on a photochromic lens.

Patient benefits:

- For wearers who want a fashionable mirror lens
- Fades back quickly to an attractive mirror shine indoors
- Lenses darken behind most car windshields



Shine Silver Gray



Shine Bronze Brown



Shine Emerald Green

SENSITY
SHINE

Product comparison chart

	HOYA lens designs	HOYA concept and benefits	Vision plan competitive comparisons
iD	iD MyStyle® 2	<ul style="list-style-type: none"> The pinnacle of personalization with unlimited design variations Utilizes an interactive consultation program to gather patient information, lifestyle requirements and wearing preferences to create a lens that is uniquely personalized Incorporates Integrated Dual Surface (iD) design technology and Binocular Harmonization Technology™ to accomplish ideal binocular vision for a truly personalized design Every pair is designed using HOYA's patented Binocular Eye Model™ and 3D Visual Acuity Simulation™ Available in four convenience options: Modern, Detail, Adventure, Stable 	<ul style="list-style-type: none"> Shamir Autograph® Intelligence™ Varilux® XR Track Unity® Via Elite II
iD	New iD LifeStyle® 4	<ul style="list-style-type: none"> 3D Binocular Technology with an improvement of the unwanted prismatic effects or prism imbalance between R and L induced by progressive distribution for near vision, which causes unusual feeling for wearers: Deformation of the image and swaying effect when moving Individual wearing parameter Three different designs (Indoor, Outdoor, Urban) Binocular Harmonization Technology Integrated Dual Side design with standardized front vertical power distribution and customized back horizontal progression – reduces eye rotation between distance and near zones and provides wider fields of view Option for position of wear measurements. Different progression lengths from 11-16mm 	<ul style="list-style-type: none"> Shamir Autograph III Varilux XR Design Zeiss Smartlife Individual Unity Via Elite II
iD	iD LifeStyle® 3	<ul style="list-style-type: none"> Binocular Harmonization Technology takes into account the differences between right and left prescription to balance the design performance Integrated Dual Side design with standardized front vertical power distribution and customized back horizontal progression—reduces eye rotation between distance and near zones and provides wider fields of view Fully integrates both surfaces using View Xpansion Technology™ to minimize aberration Three designs: Indoor, Urban, Outdoor Option for position of wear measurements 	<ul style="list-style-type: none"> Shamir Autograph® III Varilux® XR Design Zeiss® Progressive Individual® 2 Unity® PLXpression
iD	iD Space™ iD Screen™ iD Zoom™	<ul style="list-style-type: none"> Relieves symptoms related to digital eye strain (DES) iD Space: The ideal lens for performing activities where the focus is beyond the distance of a computer screen iD Screen: The best choice for professions requiring maximum clarity at an intermediate distance like those working in stores and offices iD Zoom: Perfect for hobbies and laptop work that require high levels of concentration and sharp vision at close range Best binocular vision with HOYA's Binocular Harmonization Technology 	<ul style="list-style-type: none"> Essilor® Computer Shamir Computer™ & Workspace™ Zeiss® OfficeLenses Book, Desk, Room Unity® Via Office Pro
BKS	Array® 2 Array® 2 Wrap	<ul style="list-style-type: none"> Binocular Harmonization Technology takes into account the differences between right and left prescription to balance the design performance Applies HOYA free form surfacing technology to the back side of any semi-finished single vision lens, in any material Variable corridor length offers customization for ergonomic considerations Array 2 Wrap provides compensated design for wrap frames 	<ul style="list-style-type: none"> Kodak DS II™ Shamir Autograph® II+ Shamir Autograph® II Attitude™ Varilux® Physio® W3+/Stylistic Wrap Zeiss® Precision (Superb, Plus, Pure) Unity® Via II, Unity Plus II/Mobile II/ Wrap II
BKS	Amplitude® BKS™ Amplitude® Mini BKS™	<ul style="list-style-type: none"> Economical lenses to suit any budget Comfortable design to suit most lifestyle needs Wide fields of view with free form technology 	<ul style="list-style-type: none"> Kodak Precise®/PB/Short Shamir Element™ Zeiss Synchrony® Easy Adapt Varilux® Comfort 2 Ethos® Plus
BKS	HOYA GP Wide™	<ul style="list-style-type: none"> 23% wider than traditional progressive lenses Horizontal asymmetry, balanced, comfortable binocular vision Transmission based design Natural all-around vision with wide near zone 	<ul style="list-style-type: none"> SolaMax® Kodak Concise Essilor® Ovation Essilor® Naturar AO Compact Varilux® Comfort

Product comparison chart

	HOYA lens designs	HOYA concept and benefits	Vision plan competitive comparisons
ID	iD Single Vision®	<ul style="list-style-type: none"> • HOYA's Integrated Dual Side free form technology • Expanded peripheral viewing, especially in higher prescriptions • Visual optimization for all powers • Ideal combination of performance and cosmetics • Higher visual performance 	<ul style="list-style-type: none"> • Essilor Eyecode™ Single Vision • Essilor Eyezen® +0 • Shamir Autograph® II SV • Zeiss® 3D SV
BKS	MySV™	<ul style="list-style-type: none"> • HOYA's first fully compensated, free form single vision lens • Compensates in the oblique angles offering 360° visual comfort • Digital lenses provide a more accurate and precise prescription than standard single vision lenses • Optimized base curve to fit any frame without altering the frame shape 	<ul style="list-style-type: none"> • Essilor FIT™ • Shamir Autograph® III SV • Unity® SVXtra • Zeiss® SmartLife SV Individual
BKS	Sync III™	<ul style="list-style-type: none"> • Sync lenses have the distance power for everyday use and a 'boost zone' in the lower portion of the lens • The boost zone is an area with an increased amount of relaxing power, reducing eye strain during prolonged up-close activities such as looking at digital screens, reading, or any 'near task' activities • Three support levels: Sync III 5 (+0.57D), Sync III 9 (+0.95D) and Sync III 13 (+1.32D) 	<ul style="list-style-type: none"> • Shamir Relax™ • Essilor Eyezen® + 1, 2, 3 • Zeiss® SmartLife Digital Lens • Zeiss® EnergizeMe® SV • Zeiss® Digital Lens • Unity® Relieve 50/70

	HOYA lens treatments	HOYA concept and benefits	Vision plan competitive comparisons
	Super HiVision® Meiryó™ EX4™	<ul style="list-style-type: none"> • Features 100% front and back UV protection with low reflective properties • Best-in-class surface durability • Premium scratch resistance and AR performance, water-repellent, oil/grease-repellent • Excellent smudge resistance, eliminates glare, and helps reduce eye fatigue • Superior clarity that lasts longer • Maintains "Easy Clean" features • Anti-static 	<ul style="list-style-type: none"> • Crizal® Sapphire™ HR • Zeiss® DuraVision® Platinum UV • Shamir Glacier Expression™
	Super HiVision® EX3® Family (EX3+, EX3)	<ul style="list-style-type: none"> • Super HiVision EX3+: UV protection from backside reflections for eyes and surrounding skin • Super HiVision EX3 and EX3+ include: <ul style="list-style-type: none"> - Extreme scratch resistance, the only lens treatment that outperforms glass - Smudge resistant, eliminates glare, and helps reduce eye fatigue - Includes View Protect® & Substrate Matching Technology 	<ul style="list-style-type: none"> • Crizal® Sapphire™ UV • Zeiss® DuraVision® Platinum
	Recharge®	<ul style="list-style-type: none"> • Reduces the amount of blue light that reaches the eyes emitted by most LED screens • Greater comfort for prolonged amounts of time in front of backlit displays • Includes the same scratch and smudge resistance benefits as EX3+ • Substrate Matching Technology 	<ul style="list-style-type: none"> • Crizal® Previncia™ • Zeiss® Duravision® BlueProtect • TechShield® Blue • Essilor Essential Blue Series®
	Super HiVision®	<ul style="list-style-type: none"> • Superior scratch resistance • Exceptional smudge resistance • Includes View Protect & Substrate Matching Technology 	<ul style="list-style-type: none"> • Crizal® Avancé™ UV • Zeiss® DuraVision® Silver
	HiVision® View Protect®	<ul style="list-style-type: none"> • Front- and backside scratch resistance • Smudge resistant treatment • View Protect "easy to clean" treatment 	<ul style="list-style-type: none"> • Crizal® Alize™ UV • Zeiss® DuraVision® Silver
	Sensity® Family (Sensity 2, Sensity Dark, Sensity Shine)	<ul style="list-style-type: none"> • Stabilight Technology™ ensures consistent performance in different climates and seasons • Excellent contrast and glare reduction with Sensity's four deep, natural colors • Exceptional optical quality and durability due to photochromic precision technology • Darkens in the car (Sensity Dark and Sensity Shine only) 	<ul style="list-style-type: none"> • Transitions™ Signature® Gen 8™ • Transitions® XTRActive® New Generation • Zeiss® PhotoFusion®
	Sensity® Fast	<ul style="list-style-type: none"> • The fastest HOYA light-adaptive lens technology available • Cutting-edge speed when fading back from dark to clear • Better indoor clarity than the rest of the Sensity family 	<ul style="list-style-type: none"> • Unity® SunSync® Elite II

Lens availability charts

Free Form Progressives

	iD MyStyle® 2	New iD LifeStyle® 4*	iD LifeStyle® 3*	Array® 2
Minimum Fitting Height	Personalized to frame 14mm	20mm/14mm	18mm/14mm	21mm/19mm/17mm/14mm
Plastic 1.50	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50)	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Clear Blue Filter 1.50	-8.00 to +6.00 Cyl. to 6.00 (+0.75 to +3.50))	-8.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-8.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Plastic 1.50 Polarized		-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Plastic 1.50 Sensity® 2	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Plastic 1.50 Transitions®				-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG
Phoenix® 1.53	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50)	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Phoenix® 1.53 Polarized		-10.00 to +4.50 Cyl. to -6.00 (+0.75 to +4.00) ●●	-10.00 to +4.50 Cyl. to -6.00 (+0.75 to +4.00) ●●	-10.00 to +4.50 Cyl. to -6.00 (+0.75 to +4.00) ●●
Phoenix® 1.53 Sensity® 2	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Phoenix® 1.53 Transitions®			-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X
Poly 1.59	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Clear Blue Filter 1.59	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Poly 1.59 Polarized	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Poly 1.59 Coppertone®		-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Poly 1.59 Sensity® 2	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●●/SD/SS	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●●/SD/SS	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Poly 1.59 Transitions®			-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●/B	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG
Hi-Index 1.60	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Hi-Index 1.60 Polarized				-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Hi-Index 1.60 Sensity® 2	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SF/SD/SS
Hi-Index 1.60 Transitions®				-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B
Hi-Index 1.67	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00)
Clear Blue Filter 1.67				-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00)
Hi-Index 1.67 Polarized		-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Hi-Index 1.67 Sensity® 2	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Hi-Index 1.67 Transitions®			-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG
Hi-Index 1.74	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)

S = Transitions GEN S B = Transitions GEN B X = Transitions® XTRActive® New Generation XPG = Transitions® XTRActive® Polarized™ Gray

SF = Sensity® Fast Gray & Brown SD = Sensity® Dark SS = Sensity® Shine

*Not all iD LifeStyle 3 & 4 Polarized lenses come with iD technology.

** Sensity® Shine, Sensity® 2 Blue/Green, Sensity® 2 in 1.60, and Sensity® Dark in iD designs add powers are available from +0.75 to +3.50.

Lens availability charts

Free Form Progressives	Array® 2 Wrap	Amplitude® HD3/Mini	Amplitude® BKS/Mini	HOYA GP Wide™
Minimum Fitting Height	21mm/19mm/17mm/14mm	18mm/14mm	19mm/14mm	18mm
Plastic 1.50	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Clear Blue Filter 1.50	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +3.50)	-8.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Plastic 1.50 Polarized	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●		-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Plastic 1.50 Sensity® 2	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Plastic 1.50 Transitions®	-5.00 to +4.00 Cyl. to -4.00 (+0.75 to +4.00) ●●/S/B/X/XPG	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●	-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG	-10.00 to +3.75 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG
Phoenix® 1.53	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Phoenix® 1.53 Polarized	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●		-10.00 to +4.50 Cyl. to -6.00 (+0.75 to +4.00) ●●	-10.00 to +4.50 Cyl. to -6.00 (+0.75 to +4.00) ●●
Phoenix® 1.53 Sensity® 2	-5.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Phoenix® 1.53 Transitions®	-5.00 to +4.00 Cyl. to -4.00 (+0.75 to +4.00) ●●/S/B/X	-8.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X
Poly 1.59	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Clear Blue Filter 1.59	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00)	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Poly 1.59 Polarized	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Poly 1.59 Coppertone®	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●		-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Poly 1.59 Sensity® 2	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Poly 1.59 Transitions®	-6.00 to +4.00 Cyl. to -4.00 (+0.75 to +4.00) ●●/S/B/X/XPG	-6.00 to +6.00 Cyl. to 6.00 (+0.75 to +4.00) ●●	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG	-13.00 to +5.25 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG
Hi-Index 1.60	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Hi-Index 1.60 Polarized	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)		-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00)
Hi-Index 1.60 Sensity® 2		-11.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +3.50) ●●●/SD/SS
Hi-Index 1.60 Transitions®	-6.00 to +4.00 Cyl. to -4.00 (+0.75 to +4.00) ●●/B		-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B	-10.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B
Hi-Index 1.67	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00)
Clear Blue Filter 1.67	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)		-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00)
Hi-Index 1.67 Polarized	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●		-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●	-13.00 to +6.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●
Hi-Index 1.67 Sensity® 2	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SD/SS	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00) ●●●/SF/SD/SS
Hi-Index 1.67 Transitions®	-6.00 to +4.00 Cyl. to -4.00 (+0.75 to +4.00) ●●/S/B/X/XPG	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00) ●●/B	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG	-13.00 to +7.50 Cyl. to -6.00 (+0.75 to +4.00) ●●/S/B/X/XPG
Hi-Index 1.74	-6.00 to +4.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +3.50)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)	-13.00 to +8.00 Cyl. to -6.00 (+0.75 to +4.00)

S = Transitions GEN S B = Transitions GEN 8 X = Transitions® XTRActive® New Generation XPG = Transitions® XTRActive® Polarized™ Gray

SF = Sensity® Fast Gray & Brown SD = Sensity® Dark SS = Sensity® Shine

*Not all iD LifeStyle 3 & 4 Polarized lenses come with iD technology.

** Sensity® Shine, Sensity® 2 Blue/Green, Sensity® 2 in 1.60, and Sensity® Dark in iD designs add powers are available from +0.75 to +3.50.

Lens availability charts

Premium SV, Bifocal & New Media Optics	iD Single Vision®	MySV™	iD Space™, iD Screen™, iD Zoom™	Sync III™
Minimum Fitting Height		Personalized to frame 18mm		
Plastic 1.50		-10.00 to +10.00 Cyl. to -6.00	-8.00 to +5.00 Cyl. to -4.00 (+1.00 to +3.50)	-10.00 to +6.00 Cyl. to -6.00
Clear Blue Filter 1.50		-10.00 to +10.00 Cyl. to -6.00		-10.00 to +6.00 Cyl. to -6.00
Plastic 1.50 Polarized		-10.00 to +4.00 Cyl. to -6.00 ●●●		-10.00 to +6.00 Cyl. to -6.00 ●●●
Plastic 1.50 Sensity® 2		-10.00 to +4.00 Cyl. to -6.00 ●●●/SF/SD/SS	-8.00 to +5.00 Cyl. to -4.00 (+1.00 to +3.50) ●●●/SD/SS	-8.00 to +6.00 Cyl. to -6.00 ●●●/SF/SD/SS
Plastic 1.50 Transitions®		-8.00 to +9.00 Cyl. to -4.00 ●●/S/B/X/XP		-10.00 to +6.00 Cyl. to -6.00 ●●/S/B/X/XP
Phoenix® 1.53		-13.00 to +9.00 Cyl. to -6.00	-8.00 to +5.00 Cyl. to -4.00 (+1.00 to +3.50)	-10.00 to +6.00 Cyl. to -6.00
Phoenix® 1.53 Polarized		-12.00 to +6.00 Cyl. to -6.00 ●●		-10.00 to +4.50 Cyl. to -6.00 ●●
Phoenix® 1.53 Sensity® 2		-13.00 to +9.00 Cyl. to -6.00 ●●●/SF/SD/SS	-8.00 to +5.00 Cyl. to -4.00 (+1.00 to +3.50) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 ●●●/SF/SD/SS
Phoenix® 1.53 Transitions®		-13.00 to +9.00 Cyl. to -4.00 ●●/S/B/X		-10.00 to +6.00 Cyl. to -6.00 ●●/S/B/X
Poly 1.59		-10.00 to +6.00 Cyl. to -6.00		-13.00 to +6.00 Cyl. to -6.00
Clear Blue Filter 1.59		-10.00 to +6.00 Cyl. to -6.00		-13.00 to +6.00 Cyl. to -6.00
Poly 1.59 Polarized		-9.00 to +6.00 Cyl. to -6.00 ●●●		-13.00 to +6.00 Cyl. to -6.00 ●●●
Poly 1.59 Coppertone®		-9.00 to +6.00 Cyl. to -6.00 ●●●		-13.00 to +6.00 Cyl. to -6.00 ●●●
Poly 1.59 Sensity® 2		-9.00 to +6.00 Cyl. to -6.00 ●●●/SF/SD/SS		-13.00 to +6.00 Cyl. to -6.00 ●●●/SF/SD/SS
Poly 1.59 Transitions®		-6.00 to +6.00 Cyl. to -4.00 ●●/S/B/X/XPG		-13.00 to +5.25 Cyl. to -6.00 ●●/S/B/X/XPG
Hi-Index 1.60	-10.00 to +8.00 Cyl. to -4.00	-13.00 to +8.00 Cyl. to -6.00	-11.00 to +7.00 Cyl. to -4.00 (+1.00 to +3.50)	-10.00 to +6.00 Cyl. to -6.00
Hi-Index 1.60 Polarized		-13.00 to +8.00 Cyl. to -6.00		-10.00 to +6.00 Cyl. to -6.00
Hi-Index 1.60 Sensity® 2	-10.00 to +8.00 Cyl. to -4.00 ●●●/SD/SS	-13.00 to +6.50 Cyl. to -6.00 ●●●/SD/SS	-10.00 to +6.00 Cyl. to -4.00 (+1.00 to +3.50) ●●●/SD/SS	-10.00 to +6.00 Cyl. to -6.00 ●●●/SD/SS
Hi-Index 1.60 Transitions®		-10.00 to +8.00 Cyl. to -4.00 ●●/8		-10.00 to +6.00 Cyl. to -6.00 ●●/8
Hi-Index 1.67	-15.00 to +10.00 Cyl. to -4.00	-15.00 to +8.00 Cyl. to -6.00	-13.00 to +7.00 Cyl. to -4.00 (+1.00 to +3.50)	-13.00 to +7.50 Cyl. to -6.00
Clear Blue Filter 1.67		-15.00 to +8.00 Cyl. to -6.00		-13.00 to +7.50 Cyl. to -6.00
Hi-Index 1.67 Polarized		-15.00 to +10.00 Cyl. to -6.00 ●●●		-13.00 to +6.00 Cyl. to -6.00 ●●●
Hi-Index 1.67 Sensity® 2	-15.00 to +10.00 Cyl. to -4.00 ●●●/SD/SS	-15.00 to +8.00 Cyl. to -6.00 ●●●/SF/SD/SS	-13.00 to +7.50 Cyl. to -4.00 (+0.75 to +3.50) ●●●/SD/SS	-13.00 to +7.50 Cyl. to -6.00 ●●●/SF/SD/SS
Hi-Index 1.67 Transitions®		-10.00 to +8.00 Cyl. to -4.00 ●●/S/B/X/XPG		-13.00 to +7.50 Cyl. to -6.00 ●●/S/B/X/XPG
Hi-Index 1.74	-15.00 to +10.00 Cyl. to -4.00	-15.00 to +10.00 Cyl. to -6.00	-13.00 to +8.00 Cyl. to -4.00 (+0.75 to +3.50)	-13.00 to +8.00 Cyl. to -6.00

S = Transitions GEN S 8 = Transitions GEN 8 X = Transitions® XTRActive® New Generation XPG = Transitions® XTRActive® Polarized™ Gray

SF = Sensity® Fast Gray & Brown SD = Sensity® Dark SS = Sensity® Shine

*Not all iD LifeStyle 3 & 4 Polarized lenses come with iD technology.

** Sensity® Shine, Sensity® 2 Blue/Green, Sensity® 2 in 1.60, and Sensity® Dark in iD designs add powers are available from +0.75 to +3.50.

AR compatibility guide

Key	Super HiVision® Meiryo™ EX4™	Super HiVision® EX3+™ & EX3™	Recharge*	Super HiVision®	HiVision™ w/VP																
Warranty	2 Years/unlimited		2 Years/unlimited	2 Years/unlimited	2 Years/2 times																
Designs	Plastic / Plastic CBF	Plastic Sensity® 2	Plastic Transitions®	Plastic Polarized	Phoenix®	Phoenix® Sensity® 2	Phoenix® Transitions®	Phoenix® Polarized	Poly / Poly CBF	Poly Sensity® 2	Poly Transitions®	Poly Polarized	Hi-Index 1.60	Hi-Index 1.60 Sensity® 2	Hi-Index 1.60 Transitions®	Hi-Index 1.60 Polarized	Hi-Index 1.67 / Hi-Index 1.67 CBF	Hi-Index 1.67 Sensity® 2	Hi-Index 1.67 Transitions®	Hi-Index 1.67 Polarized	Hi-Index 1.74
Refractive index	1.50	1.50	1.50	1.50	1.53	1.53	1.53	1.53	1.59	1.59	1.59	1.59	1.60	1.60	1.60	1.60	1.67	1.67	1.67	1.67	1.74
iD MyStyle® 2																	1.67 Only				
iD LifeStyle® 4																	1.67 Only				
iD LifeStyle® 3																	1.67 Only				
Array® 2/Wrap																					
Amplitude® BKS/Mini																					
Amplitude® HD3/Mini																	1.67 Only				
iD Space™ iD Screen™ iD Zoom™	Plastic Only 																1.67 Only				
HOYA GP Wide®																					
Sync III™																					
iD Single Vision™																					
MySV™																					
RD24																					
STT7X28	Plastic Only 								Poly Only 												
STT8X35	Plastic Only 								Poly Only 												

*Super HiVision Meiryo EX4, Super HiVision EX3+, Super HiVision EX3, Recharge, and Super HiVision automatically include the View Protect Performance.

**Array 2 Wrap 1.74 only available in PAV or PAR.

*150 CBF only for Super HiVision Meiryo EX4.

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