



PRESCRIPTION SAFETY GLASSES
SAFETY EYEWEAR SPECIFICATION

MENU

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ABOUT US

VS Eyewear, a family-owned and operated retail and online store, boasts a rich history and expertise in the eyewear industry. Owner Mike DeMasi brings over 30 years of experience from his tenure as a sales manager in one of the USA's largest Glassblowing distributors. His pivotal role in establishing the Artistic Glassworking division alongside renowned artists underscores his profound impact.

Teaming up with the Phillips family, renowned for their century-long legacy in the optical business, Mike embarked on his entrepreneurial journey. Originating in 1905, Phillips began producing glasses for Bausch & Lomb, evolving into Phillips Lens in 1914, pioneering the reworking of rejected lenses and later manufacturing specialty bifocals. This legacy seamlessly integrates into VS Eyewear's extensive inventory.

Aligning with a cutting-edge prescription lab enables VS Eyewear to offer comprehensive prescription options, with most operations conducted in-house. Equipped with state-of-the-art CNC technology and a dedicated team, the lab ensures efficient production of hundreds of prescription lenses weekly. Catering to diverse markets, VS Eyewear distributes prescription safety glasses for military and safety sectors, alongside an extensive range of sunglasses, reading glasses, computer eyewear, and driving goggles.

At VS Eyewear, we understand that customers are the lifeblood of any successful business, which is why we prioritize your satisfaction above all else. Whether you're seeking guidance on eyewear selection or expert advice on finding the perfect fit, our dedicated team is here to assist you every step of the way. We ensure easy accessibility, ensuring you can reach us quickly and hassle-free whenever you need assistance. Plus, when you connect with us, you'll have the opportunity to speak directly with our experienced staff members who possess the knowledge to address all your inquiries effectively.

Your eyes matter. At VS Eyewear, safeguarding your vision is paramount. Discover eyewear tailored to your needs, prioritizing safety and style.

CONTACT US



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PRESCRIPTION SAFETY GLASSES & GOGGLES



VS EYEWEAR PROVIDES A RANGE OF PRESCRIPTION AND NON-PRESCRIPTION SAFETY GLASSES AND GOGGLES.

We provide one of the widest selections of online glasses retailers to choose from. Whether it be stylish wraparound, sporty semi-rimless, or classic plastic frames, we carry multiple options and designs to suit your needs.

We are partnered with branded safety glasses from the market leaders, including: Bolle, Wiley X, ArmouRx, OnGuard, Oakley and Titmus; all of which are well-known and trusted by many in the safety glasses industry.

Our line also carries a range of outdoor activity and sports glasses, which can greatly improve your vision for those with fast-paced lifestyles.

Our outdoor and sports frames meet the same high standards as our safety glasses. We use high impact rated materials, such as polycarbonate and trivex, as well as the newest cutting-edge technology to ensure your vision is protected no matter what activity you're performing.



HOW TO PURCHASE

website

Our fully functional website provides a unique range of glasses for you to choose from, with multiple pictures and color options to browse.

Simply choose the pair you wish to purchase and select your frame color or lens options.

BUY JUST THE GLASSES or **BUY WITH PRESCRIPTION** - depending on your needs.

BUY - you will be taken straight through to the checkout.

BUY WITH PRESCRIPTION - you will be taken to a lens option page where you have the following options:

Lens Type: Single Vision, Digital Single Vision, Bifocal, Progressive.

Lens Material

Lens Color

Lens Coatings (to be applied)

Anti-Reflective Lens Coating (to be applied)

Mirror Lens Coatings (to be applied)

PRESCRIPTION FORM - where you can upload or fill a form.

UPLOAD - the file can be a jpg or pdf format.

FILL FORM - insert all your prescription specific details.

WE RECOMMEND **UPLOADING** YOUR PRESCRIPTION DIRECTLY TO THE WEBSITE
TO ALLOW US TO CHECK THE DETAILS BEFORE WE START PRODUCTION

ADD ANY COMMENT - if required.

CHECK OUT - complete your order using several different payment options.

Our website offers PayPal checkout, so you know your information is always safe!

email

You can also complete your order via email.

We have an order form available, which asks for all necessary information for the order to be completed.

Email **SALES@VSEYEWEAR.COM** for a copy of this form.

PLEASE NOTE PRODUCTION WILL NOT START ON YOUR GLASSES UNTIL THE ORDER HAS **BEEN COMPLETED**

phone

If you prefer, you can call our Customer Service phone number, we have an expert team ready to help every step of the way.

CALL US: **+1 877-872-5780** OR **+1 484-546-0029**

Our staff has the knowledge you need to have all your questions answered.

OUR ADVANTAGES

At VS Eyewear, we are dedicated to giving you the very best lenses and range of frames for your sector, with a focus on safety, price, dependability and customer service.



- ▶ Certified according to ANSI Z87 and Z87+.
- ▶ Specially designed and manufactured for workplace eye protection.
- ▶ Stylish selection of frames and colors available.
- ▶ The latest technology is used to make our lenses.
- ▶ Provides optimal care for wearers.
- ▶ Can be individually adapted for the wearer to their specific needs.
- ▶ Good value for your money with an extended shelf life through our durable frames.
- ▶ Reduces accidents in the workplace.



PROTECTION FROM HAZARDS

Any glasses that are deemed to be safety glasses must be able to withstand specific measures to be classified as such.

Hazards for employees can vary greatly across industries and job types, and many jobs often present a combination of hazards on-site. Each pair of safety glasses must be approved via individual testing procedures to gauge its protection level.

- ▶ Mechanical hazards due to debris and moving parts.
- ▶ Biological and chemical substances.
- ▶ Optical radiation such as UV or IR radiation.
- ▶ Laser beams.
- ▶ Electrical hazards.



REGULATION & STANDARDS



Safety Glasses differ from standard eyewear, as they are developed to provide significantly more protection for your eyes.

For this reason, ALL SAFETY GLASSES are **ANSI Z87.1 certified** - the American certification for eye protection.

All glasses marked as ANSI Z87.1 certified are extremely durable - they pass a series of tests in order to meet this superior certification level, which **guarantees your protection from hazards that may contribute to damaging your eyes.**

Getting a pair of glasses that is ANSI Z87.1 approved is the best way to know that your eyes are protected while you're at work or play.

ANSI Z87.1 - CATEGORIES

The ANSI Z87.1 standard is a broad category that covers: impact, dust, splash, radiation, and heat. There are two different levels of markings for impact ratings: Z87 and Z87+. Each mark has the following tests that must be passed in order to be applied.

Z87

DROP BALL TEST - This test involves a steel ball (1 inch in diameter and weighing 2.4oz) being dropped from a test height of 50 inches. For eyewear to pass, the lens and frames must remain intact.

Glasses must pass this test to be market with Z87. Prescription glasses will be marked with Z87-2.

Z87+

HIGH MASS TEST

This test consists of dropping a 500-gram pointed weight from a height of about 50 inches (or 4.2 feet) onto lenses that are mounted on a head form. To pass this lens-retention test, no pieces from the frames or lenses may break free or fracture. The high-mass test is a good indicator of a product's strength.

HIGH VELOCITY TEST

This test involves a ¼ inch steel ball being shot at 20 different specified impact points. The speed and distance (or velocity) of the tiny steel ball varies, depending on the type of safety eyewear (Safety Glasses – 102mph | Safety Goggles – 170mph).

Glasses must pass these two tests to be market with Z87+. Prescription glasses will be marked with Z87-2+.

ADDITIONAL TESTING FOR OCCUPATIONAL SAFETY GLASSES

- ▶ UV Protection
- ▶ Scattered Light/Stray Light
- ▶ Light Transmittance
- ▶ Material & Surface Quality
- ▶ Refractive Index/
Spherical & Astigmatic Effect

Z87 - MARK

Every pair of safety glasses will be stamped with a series of markings. There will be a manufacturers mark to let you know who produced the glasses, as well as the Z87 series of characters (+), letters and numbers. Each series of numbers relates to a different categorization.

All safety eyewear manufacturers should provide product information around how their safety eyewear meets these current standards.

The Z87 standard exists to provide wearers with the confidence to know that the glasses they are using will protect them sufficiently in the environment for which they have chosen.



MARKINGS ON GLASSES

Each lens created by a manufacturer will have engravings upon it to provide the necessary information as to what it is. These markings are limited so as not to restrict the field of vision.

IDENTIFICATION OF LENS MARKINGS



MARK	LENS MARKING
PS	IDENTIFICATION MARK OF THE MANUFACTURER
+	IMPACT RATING
W SHADE	WELDING FILTER
U SCALE NUMBER	U SHADE NUMBER
L SCALE NUMBER	VISIBLE LIGHT FILTER
R SCALE NUMBER	IR FILTER
V	VARIABLE TINT

IDENTIFICATION OF THE FRAME MARKINGS



MARK	FRAME MARKING
PS	IDENTIFICATION MARK OF THE MANUFACTURER
Z87+ OR Z87-2+	IMPACT RATING
D3	SPLASH/DROPLET
D4	DUST
D5	FINE DUST

DIFFERENT LENS TYPES

SINGLE VISION

GLASSES FOR DISTANCE



To compensate for near-sighted vision.

GLASSES FOR READING



For wearers of reading glasses and safety glasses, which assist those with far-sightedness. These lenses are suitable for proximity and provide unrestricted vision up to approx. 40 cm.

LINED BIFOCAL LENSES



These lenses are two-strength and are for the simultaneous correction of ametropia. The lenses provide correction for distance and onset near-sightedness.

PROGRESSIVE NO LINE LENSES



These lenses provide correction between close and long range. Progressives are often used to correct presbyopia, where the lens becomes harder and less elastic, making it more difficult for the eye to focus on close objects. These lenses are suitable from approx. 40 cm to 1 m.

DIGITAL LENSES

At VS Eyewear we take advantage of modern technology to produce our lenses.

While we still produce the standard single vision lenses, we have also incorporated use of the latest computer controlled machines and complex calculation programs to provide our Digital Single Vision Lenses.

Digital Single Vision means that every point on the back surface of the lens is individually calculated and manufactured to the users specifications. This makes them as unique as you are and provides: improved clarity and sharper vision, superior night and low-light vision, and thinner and flatter lenses for increased cosmetic appearance.

Digital lenses are sometimes referred to as free-form, wavefront or high-definition lenses.

WIDER FIELD OF VIEW

**STANDARD
PRESCRIPTION LENSES**
BLURRED EDGES



**DIGITAL
PRESCRIPTION LENSES**
CLEAR EDGE-TO-EDGE

DIFFERENCES BETWEEN STANDARD SINGLE VISION & DIGITAL LENSES

standard single vision

The stronger the prescription, the greater the possibility for distortion in the lenses.

Made for flat lenses; known to cause distortion in wraparound styles, aka the fishbowl effect.

Used as prescription inserts due to the vertex* distance - causing distortion as it sits further from your eyes.

*distance between your eyes and the lens.

Great for strong prescriptions, as well as for astigmatism or cylinder correction.

Made for any kind of lenses - do NOT cause distortion.

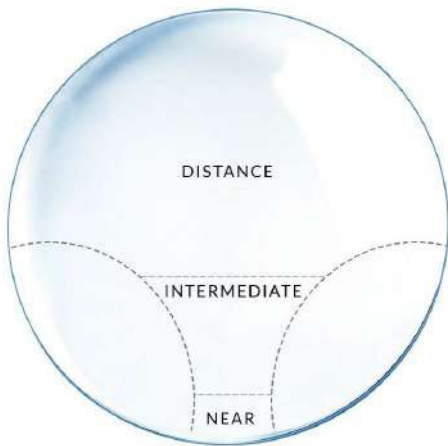
Accommodates the different vertex distance from wearing a prescription insert and provides the same clarity regardless.

Better quality, clear vision, and no distortions.

digital lenses

PROGRESSIVE LENSES

PROGRESSIVE LENSES
ARE THE MOST
COMPLICATED BIFOCALS
YOU CAN GET, AND THEY
ARE ALSO THE MOST
POPULAR.



There are many different types and brands of bifocals, and they all have their specific purpose.

In prescription safety glasses, progressive lenses tend to have a taller “corridor” than those in normal glasses, which is to say that the bifocal is longer.

Where as progressive lens on a pair of street glasses may start in the center of the lens and end 12mm down at the reading circle, a progressive lens for safety glasses will start at the center and end 17mm down at the reading circle.

There are also some limits to progressive lenses in wraparound frames that have to do with your pupil distance (PD) and the size of the lens blank used.

Progressive lenses are the most aesthetically pleasing bifocals because they do not have a line, however they are more complicated than the classic lined bifocal.

If you are ordering progressive online, it is good practice to double-check all your measurements and give us a call if you have any questions. Calling before you order is a lot easier than calling after you have ordered and made a mistake.

Shopping for progressive lenses in safety glasses can be tricky. We have a lot of lens options and frames to choose from and the task can be daunting, so please do not hesitate to call if you have any questions. We are here to help.

PRESCRIPTION PROGRESSIVE LENSES ON SAFETY GLASSES

▶ SAFETY LENSES ARE GENERALLY TALLER THAN STREET GLASSES LENSES

Generally, progressive lenses are taller as well. This means that the distance from your pupil down to the reading area is longer than on street glasses, giving you more space to read.

▶ PROGRESSIVE LENSES MUST BE CENTERED DIRECTLY ON YOUR PUPIL

To do this, the progressive lens blank must have the lens cut out of it in such a way that the optical center ends up right in front of your pupils. If you have a large wraparound frame, progressive lenses, or if your pupillary distance is narrow, we may not be able to cut your progressive lenses out to get the bifocal centered on your eye.

▶ IF YOUR PUPILLARY DISTANCE IS TOO NARROW FOR A WRAPAROUND PROGRESSIVE

Sometimes we can make it at our sister lab in a digital progressive lens for an added fee.

▶ ADJUST TO USING PROGRESSIVE LENSES IN WRAPAROUND FRAMES

If you have a hard time adjusting to a wraparound prescription glasses or if it is your first progressive, it may be prudent to order prescription safety glasses in a flatter frame (such as our Plastic Safety Glasses). Most of our customers do not have issues with this, but there are those that the optical industry calls “progressive non-adapts,” and this is more likely when the lens is curved, such as in wraparounds.

▶ PROGRESSIVE LENSES ARE AVAILABLE IN ALL LENS TYPES AND COLORS WHEN ORDERING POLYCARBONATE

Most other lens materials, on the other hand, do not have nearly as many progressive lens options. This is especially true if you are ordering varifocal lenses in a wraparound frame, because many other lens materials have smaller lens blanks, which you cannot cut a large wraparound lens out of.

▶ FIRST TIME USING PROGRESSIVE LENSES

If you are a first-time progressive wearer and your new progressive do not feel right, give them some time. Many people feel that way at first with progressive lenses, and most adjust and then never notice them again.

▶ ORDERING PROGRESSIVE LENSES ONLINE

If you are ordering progressive lenses online, it is important to get your segment height measured before you place the order.

You can do this by ordering the “Frame Only” on our website, putting the frames on, having someone measure the millimetre distance from the bottom of the lens to the centre of your pupil as you gaze straight ahead, and then sending the glasses back to be made with prescription lenses.



DIFFERENCE BETWEEN LENS MATERIALS



CONSIDER WHAT YOU ARE GOING TO BE USING YOUR PRESCRIPTION GLASSES FOR WHEN CHOOSING A LENS MATERIAL.

Choosing your lens material is a good starting point when shopping for prescription glasses. Once you've decided on a material, your other lens choices may be somewhat narrowed, so it will be easier to decide the rest of your lens options.

► POLYCARBONATE

This lens material is the most impact resistant and least scratch resistant. Its index is between that of plastic and high index plastic, as is its optical clarity. Polycarbonate is best for safety glasses such as motorcycle glasses. It is available in all lens colors and prescription types.

► HIGH INDEX PLASTIC

As its name implies, this material has a higher index than other plastics or polycarbonate. It is thinner than plastic and polycarbonate in high prescriptions, though it is not as optically clear as standard plastic. It is not available in all lens colors and prescription type combinations.

► TRIVEX

Trivex is a new material that is a stronger, more resistant, clearer alternative to standard polycarbonate, which is one of the best materials for prescription glasses on the market. Not only is Trivex strong and lightweight, it also offers 100 percent protection from UVA and UVB rays, sharper central vision, and sharper peripheral vision.


► GLASS

Well known as the most scratch resistant, yet the most brittle lens material. It has high optical clarity but is much heavier than any plastic material. Available in most lens colors and prescription types, though it is not good for many wraparound frame types and cannot be done with a drill-mounted frame.

► HIGH INDEX GLASS

This option shares many qualities with standard glass except the optical clarity is below all other lens materials. It has the most brittle material and is very easy to break. It's the thinnest lens material available. It is only available in clear single vision and progressive.

HIGH INDEX LENSES



AN ADVANCED TYPE OF OPTICAL LENS THAT PROVIDES HIGHER PRESCRIPTION WEARERS WITH A SLIMMER AND MORE STREAM LINED SHAPE.

The stronger the prescription, the thicker the lens that is required to accommodate it. A prescription above +/- 3 diopters will have lenses that become thicker at the edge or the middle.

To combat this, we recommend using higher refractive lens materials, also known as high index lenses. These types of lenses are generally thinner at the edge or centre and have higher refractive power due to increased optical density.

This type of lens material can be much lighter than its counterparts.

HIGH INDEX ADVANTAGES

► THIN PROFILE

High index lenses are thinner than standard lenses, making them more aesthetically pleasing.

► LIGHTWEIGHT

These lenses are lightweight because of their thin lens profile. Less lens material means less weight on your nose all day.

► SCRATCH RESISTANCE

High index lenses are denser than standard plastic or polycarbonate lenses, making them more scratch resistant. This is extremely useful for everyday glasses as it increases their lifespan.

► LESS EYE DISTORTION

High index lenses remove much of the eye distortion associated with high prescriptions.

Thick, strong lenses can distort the way your eyes look to others, making them seem smaller or larger than they are.

► MORE PRESCRIPTION OPTIONS

High index lenses allow higher prescriptions to be inserted into many of these frames, broadening your frame options to choose from.

LENS COATINGS FOR SAFETY GLASSES



When you are purchasing prescription safety glasses online, it is important to consider which lens coating is appropriate for the work you will be doing.

Different kinds of work dictate a different set of coatings. It is important to know that sometimes the coating for your everyday glasses will not work in your prescription safety glasses environment.

▶ ANTI-REFLECTIVE (AR) COATING

AR coating is best for work behind a computer or in a clean room where safety eyewear is still required. This coating is not good for situations where your eyewear will be outdoors or in dirty environments indoor.

▶ MIRROR COATINGS

Mirror coatings are only a good choice if you are getting a dark tint. These include dark grey, brown, polarized grey, and polarized brown lens tints.

Mirrors are not suitable for clear or transitions lenses, and they will wear out like anti-reflective coating if they are cleaned repeatedly throughout the day.

▶ SCRATCH COATING

This is always a good choice for all safety glasses. It is an inexpensive way to extend the life of your glasses, and while it does not stop scratches entirely, it will work to help prevent them.

▶ ANTI-FOG COATING

Although this coating prevents fog, it is not as efficient as our Cat Crap anti-fog paste. Please visit our website to learn out more about our anti-fog coatings, as well as to place an order.

▶ UV COATING

This is useful to protect your eyes from the sun, but it is not necessary on polycarbonate lenses or if the glasses are only to be used indoors.

If you are not sure whether a coating is right for the glasses you need, just contact us for a specialists opinion. We can tell you exactly what is best for your work environment.

MIRROR COATINGS FOR SUNGLASSES

ADDING A MIRROR COATING TO YOUR PRESCRIPTION HELPS YOUR EYES STAY HEALTHIER, IMPROVES YOUR VISION, INCREASES YOUR PRIVACY AND IMPROVES YOUR EYEWEARS DURABILITY.



Mirror coatings on sunglasses means that the sunglasses have lenses that reflect light away from your eyes - more so than standard tinted lenses.

The coating gives the sunglasses a mirror-like appearance on the outside and can come in a variety of densities, colors, and styles. Available in prescription and non-prescription varieties.

MIRROR COATING ADVANTAGES ON PRESCRIPTION SUNGLASSES

► REDUCES THE GLARE

The mirror style reduces the glare you can expect during an average day. Sun rays that reflect off other surfaces are reflected, rather than absorbed by the lens, which protects your eyes from damage and keeps your eyes comfortable.

► INCREASES YOUR BRIGHTNESS

Mirror coating reflects rather than absorbs, which means you will be able to see the surrounding area better. Everything is a bit brighter, significantly enhancing your field of vision.

► MIX & MATCH THE COLORS

Mirror coating comes in a variety of colors and styles. You can apply any color to your prescription without compromising your visibility.

► PRIVACY

When adding mirror coating to your prescription sunglasses, you prevent others from seeing your eyes. The mirror effect in this case is both effective and real.

► IMPROVE RESISTANCE TO WEAR AND TEAR

Mirror coating is manufactured specifically with durability in mind, helping to protect your lenses from scratches and other typical wear.

LENS COLOR OPTIONS

MOST OF OUR
PRESCRIPTION LENSES
CAN BE TREATED WITH A
TINTED COATING OR
FORMED WITH A TINTED
LAYER, IN ALL THE
POPULAR COLORS.



Certain color tints adjust to or cancel out other types of light, which is why there are so many different colors available for sunglasses. They all provide general sun ray protection but are uniquely colored to provide specific light blockage.

TINTS AVAILABLE ON PRESCRIPTION SAFETY GLASSES



PHOTOCHROMIC/TRANSITION LENSES

These versatile lenses darken to a comfortable tint when exposed to sunlight and return to a clear state when no UV light is present.

The benefits photochromic lenses bring to your prescription safety glasses are substantial. You no longer need two distinct pairs of prescription glasses: one clear and one tinted to handle the sun; a single pair transforms itself to meet the existing light conditions, over and over again without any effort or action on your part.



TRANSITION LENSES: BROWN VS GRAY

Most significant in the differences between transition brown vs grey lenses are the contrast, darkness, and color compatibility.

If you are looking for better contrast to increase visual acuity for things like golfing and fishing, then transition brown is the color for you. If you are looking for the absolute darkest transition lens possible, you should veer towards transition grey.

Otherwise, if you are looking solely to match the color of your lens to your frame, you should choose the lens color that is most compatible with your respective frame color.

▶ TRANSITION GRAY LENSES ARE SLIGHTLY DARKER THAN TRANSITION BROWN LENSES

Making them best for those looking for the darkest possible transition lenses.

▶ TRANSITION BROWN LENSES ENHANCE CONTRAST AND VISUAL ACUITY IN THE SUN

Making them best for those looking for golfing glasses, fishing glasses, or enhancement glasses.

▶ TRANSITION GRAY LENSES DO NOT ALTER COLORS

So the colors you see will be true, only darker, while wearing transition grey lenses in the sun.

▶ TRANSITION BROWN LENSES DO MAKE COLORS APPEAR DIFFERENT

This happens because everything is tinted brown.

▶ BOTH COLORS WILL TURN CLEAR WHEN OUT OF THE SUN

So there is no difference between transition brown vs grey when indoors or at night.

If you are not concerned with the benefits of the color, we suggest you choose the color that goes best with the color of the frame you are putting the lenses in.

OUR AVAILABLE TRANSITION LENSES

Thanks to their innovative technology, Transition™ lenses have become one of the most popular choices for photochromic lenses. These lenses strike a perfect balance by allowing a safe amount of light to reach your eyes whether you are in bright sunlight, overcast conditions, or even indoors. Moreover, they are compatible with other lens treatments, such as Anti-Reflective (AR) Coating, which helps block glare and enhance visual clarity.

Transition™ lenses are incredibly versatile and can be tailored to fit your specific needs. They are available in various configurations, including single vision, bifocal, progressive, and high-index lenses. This flexibility means they can be seamlessly integrated into nearly any frame, allowing you to maintain your personal style while enjoying the benefits of adaptive eyewear.

Transition™ offers a range of lens options, each with unique characteristics designed to cater to different preferences and situations. Let's take a closer look at the available options:

TRANSITIONS SIGNATURE GEN 8



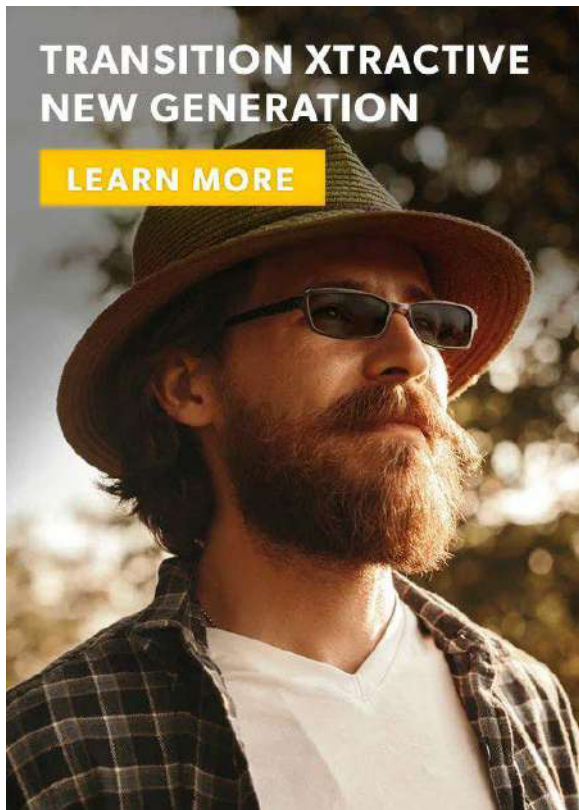
TRANSITION SIGNATURE GEN 8

[LEARN MORE](#)

Transitions Signature GEN 8 lenses epitomize Transition™ technology's pinnacle. Renowned for their exceptional responsiveness to light changes, they swiftly shift from clear to dark when exposed to UV light, providing optimal sun protection. What sets GEN 8 apart is the lightning-speed transition—it occurs in the blink of an eye.

Perfect for those in constant motion, transitioning between indoor and outdoor environments, these lenses ensure seamless tint shifts, guaranteeing comfort and protection under any light condition. Moreover, their versatility shines through as they maintain clarity across various lighting scenarios, suitable for daily wear. If you value adaptability and seek a lens accommodating your dynamic lifestyle effortlessly, Transitions Signature GEN 8 lenses are an excellent choice.

TRANSITIONS XTRACTIVE NEW GENERATION



The Transitions XTRActive New Generation lenses offer a unique combination of features, appealing to many eyeglass wearers. These lenses are renowned for their enhanced darkness under UV light, providing subtle tint even indoors—a versatile choice for those preferring consistent tint across all lighting conditions.

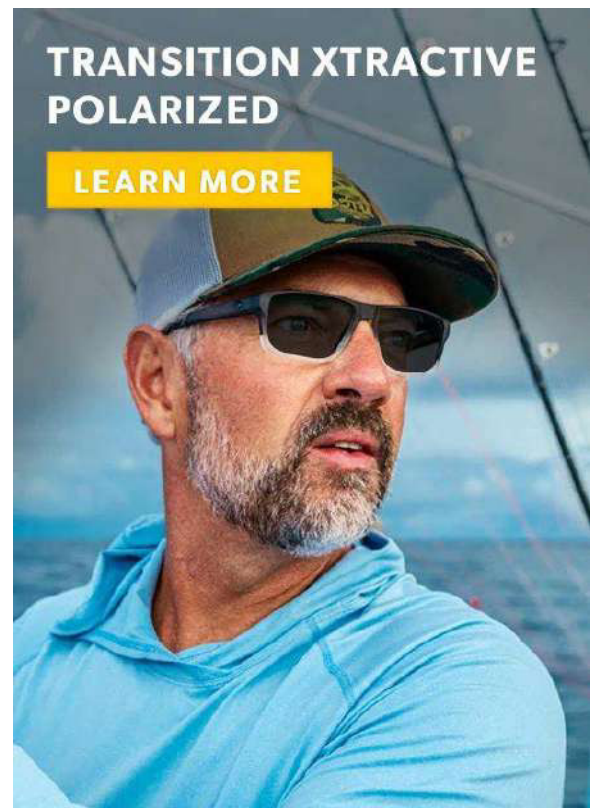
A standout feature is their further darkening in sunlight, ideal for prolonged outdoor activities or frequent indoor-outdoor transitions. Whether you're in the park, running errands, or enjoying leisure time, these lenses ensure comfort and protection for your eyes.

Balancing indoor clarity with outdoor adaptability, Transitions XTRActive New Generation lenses seamlessly adjust to surroundings, offering both style and functionality. If you seek eyewear that effortlessly adapts while providing a chic solution, consider these lenses.


TRANSITIONS XTRACTIVE POLARIZED

Transitions XTRActive Polarized lenses elevate adaptive eyewear with a fusion of photochromic technology and polarization, offering a comprehensive solution for visual clarity, comfort, and glare reduction. These lenses adapt to light changes, darkening under UV exposure to shield your eyes from the sun's rays. What sets them apart is their polarization, effectively reducing glare from water, snow, and roads.

Ideal for outdoor enthusiasts, drivers, and those facing intense glare, these lenses ensure optimal visual comfort and protection. Whether fishing, skiing, or driving, Transitions XTRActive Polarized lenses enhance safety and reduce eye strain in various outdoor settings. They embody a remarkable synergy of adaptive technology and glare-reduction capabilities.



HOW TO READ YOUR PRESCRIPTION



UNDERSTANDING YOUR PRESCRIPTION AND THE DIFFERENT TERMINOLOGY IS IMPORTANT TO KNOW EXACTLY WHAT YOU NEED WHEN PURCHASING PRESCRIPTION GLASSES.

▶ OD | OS | OU

OD - RIGHT EYE information.

OS - LEFT EYE information.

OU - BOTH EYES information.

▶ SPHERE

Often written as SPH, this indicates the strength of lens required to correct your focus. It is measured in the unit known as dioptre (D).

NEARSIGHTED - there is a (-) minus sign next to the number - i.e. myopia (*difficulty focusing on distant objects*).

FARSIGHTED - there is a (+) plus sign next to the number - i.e. hyperopic (*difficulty focusing on close objects*).

▶ CYLINDER

Cylinder or CYL is used to identify how much lens power in your prescription, as well as for astigmatism (*difficulty focusing at certain angles*). It always comes after sphere power in a prescription.

NEARSIGHTED ASTIGMATISM - there is a (-) minus sign next to the number.

FARSIGHTED ASTIGMATISM - there is a (+) plus sign next to the number.

IF YOU HAVE A CYLINDER, YOU MUST ALWAYS HAVE AN AXIS.

▶ AXIS

The axis specifies where the astigmatism is on your eye. **IT IS ONLY PRESENT IF THERE IS VALUE IN YOUR CYL BOX - IF YOU HAVE A CYL, YOU HAVE AN AXIS.**

The measurement is in DEGREES and the value range is between 0 and 180.

▶ ADD

The Reading Addition (ADD), is the **ADDITIONAL CORRECTION REQUIRED FOR READING**. This can be used to make reading, bifocal or varifocal glasses. Add value indicates how much extra power is required 'on top' of the prescription for near or intermediate glasses.

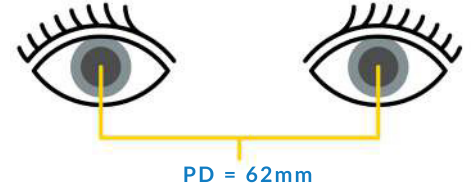
▶ PRISM

Required to **CORRECT A LAZY EYE**. This is included with a prescription to correct special conditions or eye disorders (like squints) that require the focused image to move positions.

MEASURING PUPILLARY DISTANCE

▶ WHAT IS PUPILLARY DISTANCE?

Pupillary Distance (PD) measures the distance between the center of your pupils. This measurement is used to determine where you look through the lens of your glasses and should be as accurate as possible.



▶ IMPORTANCE OF PUPILLARY DISTANCE

Every set of prescription lenses has an “optical center,” which is determined by pupillary distance.

An incorrect measurement means you may not be able to see through your glasses.



▶ MEASURE THE DISTANCE

Your prescription may tell you your PD.

If the PD is not available, use your friend or a mirror to help you figure it out.



WE NEED YOUR DISTANCE PD ON THE ORDER FORM IF YOU ARE ORDERING DISTANCE OR BIFOCAL GLASSES, AND YOUR NEAR PD ON THE ORDER FORM IF YOU ARE ORDERING READING GLASSES.

IF YOU DO NOT SUPPLY YOUR PD MEASUREMENT, WE WILL SET DISTANCE OPTICAL CENTER AT:
65MM FOR MEN AND 63MM FOR WOMEN.

MEASURING YOUR OWN PD

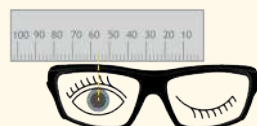
IF A FRIEND IS MEASURING

1. STAND 8in. AWAY FROM THE MIRROR

3. CLOSE YOUR RIGHT EYE AND ALIGN THE RULER'S ZERO TO THE CENTER OF YOUR LEFT PUPIL.



5. READ THE MM LINE THAT LINES UP WITH THE CENTER OF YOUR RIGHT PUPIL. THIS NUMBER IS YOUR PD.



2. WITH YOUR FACE STRAIGHT, HOLD THE RULER AGAINST YOUR BROW.

4. WHILE LOOKING STRAIGHT, CLOSE YOUR LEFT EYE AND OPEN YOUR RIGHT EYE.



REMEMBER

MEASURE YOUR PD 3-4 TIMES TO ENSURE IT'S ACCURATE AND CONSISTENT.

RANGE OF ADULT PD: 54-74mm

RANGE OF CHILD PD: 43-58mm

▶ HAVE THEM CROUCH/SIT WHILE YOU STAND SO THEY ARE OUT OF YOUR FIELD OF VISION.

▶ KEEP YOUR EYES AS STILL AS POSSIBLE.

▶ LOOK ABOVE HIS/HER HEAD AT SOMETHING APPROXIMATELY 10-20 ft. AWAY.

▶ DO NOT LOOK AT THE PERSON MEASURING!

SEGMENT HEIGHT

▶ WHAT IS SEGMENT HEIGHT?

Segment height is the distance from the bottom of your lens to where you want your bifocal placed on your lenses. Segment height is measured differently depending on whether you are getting a flat top lined bifocal or a progressive no-line bifocal.

Lined bifocals are the easiest bifocal to manufacture. We recommend you leave it blank and we will set it to our standard measurement, which is normally 4mm's below the center of the lens.

For no-line progressive bifocals, you can leave it blank and we will set it to standard, which is normally 4mm's above the center of the lens. This works for the majority of people. The other option would be to purchase the frame and have your optician measure for you, or you can measure it yourself.

GUIDELINE FOR LINED BIFOCAL LENS PLACEMENT



STEP 1

Measure the total height of your glasses from top to bottom of the lens.

STEP 2

Find the center of the lens.

For example, if the lens is 40mm tall, the center is 20mm.

STEP 3

Subtract 4mm from the center point.

STEP 4

Place the bifocal line at this new measurement.

In the example, the line would be at 16mm from the bottom.

The ideal bifocal line should be placed level with your lower eyelid to provide a comfortable and effective near-vision area when you glance down.

HOW TO MEASURE SEGMENT HEIGHT FOR PROGRESSIVES

STEP 1 SET THE STAGE

Position yourself in a well-lit room with your mirror and materials at the ready.

STEP 2 PUT ON YOUR GLASSES

Wear your pair of glasses. This will be your guide to getting the perfect fit.

STEP 3 FIND YOUR PUPILS

Look straight ahead into the mirror and mark the center of each pupil with a small dot or sticky note. These marks are your starting points.

STEP 4 MEASURE DOWN

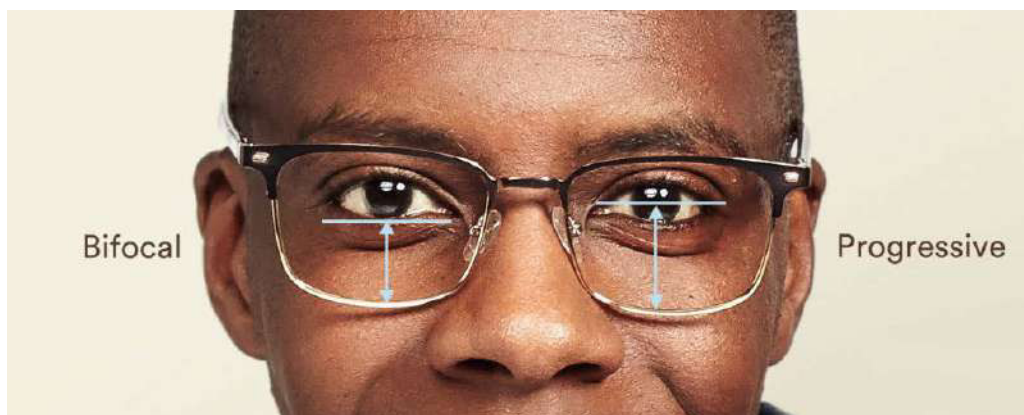
Using your ruler or measuring tape, measure downward from each pupil mark to the bottom of the lens. This distance is your segment height. Attention: the measurement refers to the bottom of the lens, not the frame.

STEP 5 RECORD AND REPEAT

Note down the segment height for each eye. For accuracy, repeat the process a couple of times to ensure consistency.

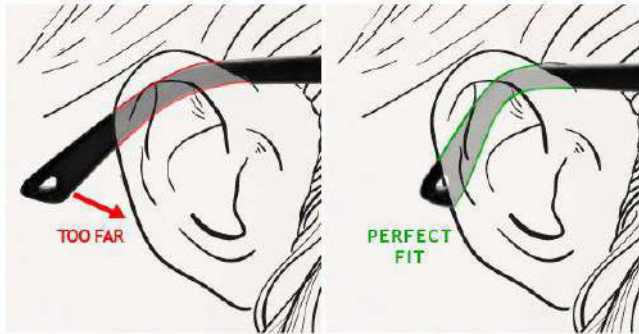
STEP 6 DOUBLE-CHECK FOR SYMMETRY

Check that the segment heights for both eyes are symmetrical. If not, make slight adjustments until you achieve balance.



TEMPLE BARS

The temples of a frame are an important part of the safety glasses as these are responsible for a perfect fit and optimal hold of your eyewear onto your face. It is important to choose a frame with temples that are the correct length for the size of your face and head.



- ▶ If your glasses have temple ends which are too long for your face, your glasses will not be fitted correctly and will slide down your nose.
- ▶ The temples should be at a 45 degree angle at the top of your ears and should extend beyond this to around 30-45mm, bending around the ear without placing pressure on your ears.
- ▶ In frames curved or cable temples, the curved end should fit close to the ear but should not impact on it to cause pressure.
- ▶ If your temples are straight then they should extend beyond your ears and touch the back or sides of your head to help keep them in place.

RUBBERIZED TEMPLES - offer a secure grip and are non-slip, helping to keep your glasses where they should be.

ADJUSTABLE TEMPLE ENDS - ensure that you have the correct temple length and fit for your head.

Frames which are manufactured with adjustable length temples can also be adjusted to suit specific anatomical profiles.

HOW TO CLEAN GLASSES IN 5 EASY STEPS



STEP 1 WASH AND DRY YOUR HANDS

Making sure your hands are clean is the first step to having pristine glasses—you don't want to transfer oil or dirt from your skin to your frames during the cleaning process.

STEP 2 RINSE YOUR GLASSES UNDER THE TAP WITH LUKEWARM WATER

Hold glasses frames under faucet, rinse well, including lenses. Warm water dislodges debris, but avoid excessive heat to protect lens coatings.

STEP 3 APPLY DISH SOAP ON LENSES, THEN GENTLY RUB LENSES AND FRAME

For effective cleaning, use a drop per lens, rubbing with fingers. Pay attention to areas like nose pads. Alternatively, use approved glasses cleaning solution.

STEP 4 RINSE YOUR GLASSES AGAIN

Hold your glasses under running water to get the soap off the frames.

STEP 5 DRY IT WITH A CLEAN MICROFIBER CLOTH OR LINT-FREE TOWEL





Opt for lint-free cloths to avoid leaving behind debris. After drying gently, inspect for smudges or debris. If clear,

HOW TO READ YOUR FRAME

To determine your eyeglasses' size, examine the numbers inside your current pair. You'll typically find three sets of numbers on the arms or bridge. These represent the lens width, bridge measurement, and temple bar length, respectively.



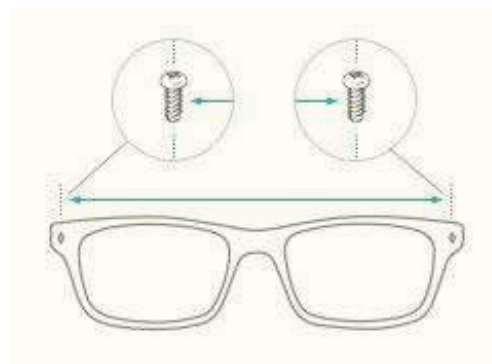
EYEGASSES FRAME SIZE GUIDE

EYE SIZE	BRIDGE SIZE	TEMPLE SIZE	B SIZE
			
Horizontally measured from outermost edges of the lens.	Measurement of the distance between the two lenses.	Measurement of the arm or ear piece, also known as temple piece.	Measurement of the height of the lenses.
Approx. 40mm - 62mm	Approx. 14mm - 24mm	Approx. 120mm - 150mm	For Progressive and Bifocal*: 25mm minimum is recommended. <small>*You need a taller lens if you require both near and far vision.</small>

HOW TO MEASURE YOUR FRAME

▶ FRAME WIDTH

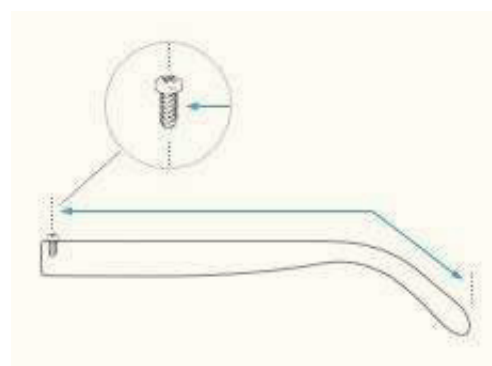
The width of your glasses frame is crucial for a flattering fit. If it's too narrow, it can make your face appear wider, and if it's too wide, it can make your face seem narrower. To determine the frame width, measure from screw to screw across the front of the frame.



▶ TEMPLE LENGTH

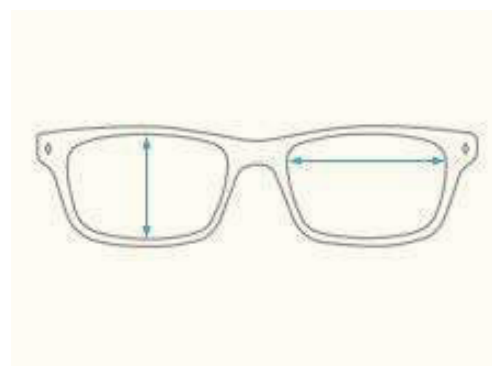
Temple length refers to the length of the 'arms' of the glasses frame, usually measured in millimeters. To find the temple length, measure from the screw to the tip of one arm.

Common options include 135mm, 140mm, 145mm, and 150mm.



▶ LENS HEIGHT AND WIDTH

Lens height indicates the distance from the top to the bottom of a lens, while lens width refers to the distance from the left to the right side of a lens. To measure lens height and width accurately, locate the widest or longest parts of the lens.



▶ BRIDGE WIDTH

The bridge width of a frame is the distance between the two lenses. For individuals with close-set eyes or a preference for a narrow bridge, this measurement should be lower. Conversely, those with wide-set eyes or a preference for a wider bridge should aim for a higher measurement. To determine the bridge width, measure the distance between the inner edges of each lens.



THE BEST GLASSES FOR EACH FACE SHAPE

Understanding your face shape aids in selecting glasses that complement your features. Frames can accentuate desired features or harmonize with your face's natural contours for a balanced appearance.

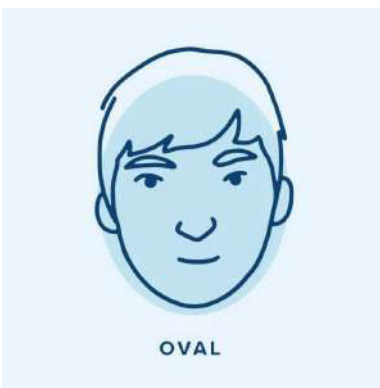
However, while face shape is a helpful aspect in choosing glasses, it's optional and should never overshadow your personal style or comfort. Matching frames to your face shape isn't an exact science or a strict rule to abide by. Instead, it can serve as a helpful factor when deciding between frames you like or add a fun element to the shopping experience—emphasis on "fun."



Round faces complement bold frames with straight lines or angular shapes. Choose wide, rectangular frames or thick browlines.

Recommended styles

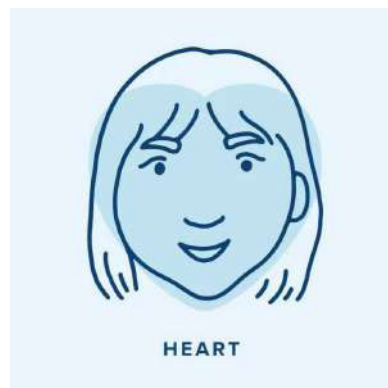
Rectangle, square, geometric, cat-eye, browline, full-rimmed glasses.



Oval faces suit diverse frames: wide for balance, curvier for sharp chins, and angular for rounded features.

Recommended styles

Any frame type works, just match width to the widest zone of your face.



Heart-shaped faces: wider top than bottom. Opt for wider frames to balance, or rounded ones to soften.

Recommended styles

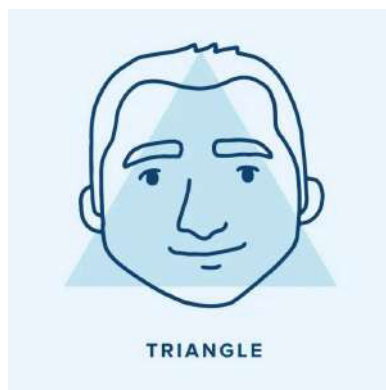
Oval glasses, round glasses, aviator glasses, semi-rimless glasses.



Curved glasses soften square faces, without overshadowing. Choose stylishly thin or semi-rimless frames, wider than the face's middle, and elevated on nose.

Recommended styles

Round glasses, oval glasses, wire glasses, semi-rimless glasses.



Frames emphasizing the top suit triangle faces, harmonizing with broad jawlines. Wide frames add dimension to the narrow upper face.

Recommended styles

Rectangle glasses, browline glasses, cat-eye glasses.



Diamond faces shine with glasses featuring lighter bottoms and thicker browlines. Rounded frames suit angles. Explore horn rim and browline styles.

Recommended styles

Browline glasses, cat-eye glasses, round glasses, oval glasses, semi-rimless glasses.

VS EYEWEAR FULL RESOURCE CENTER



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