MAXVIEW

High-performance progressive lens

Technical sheet

0420

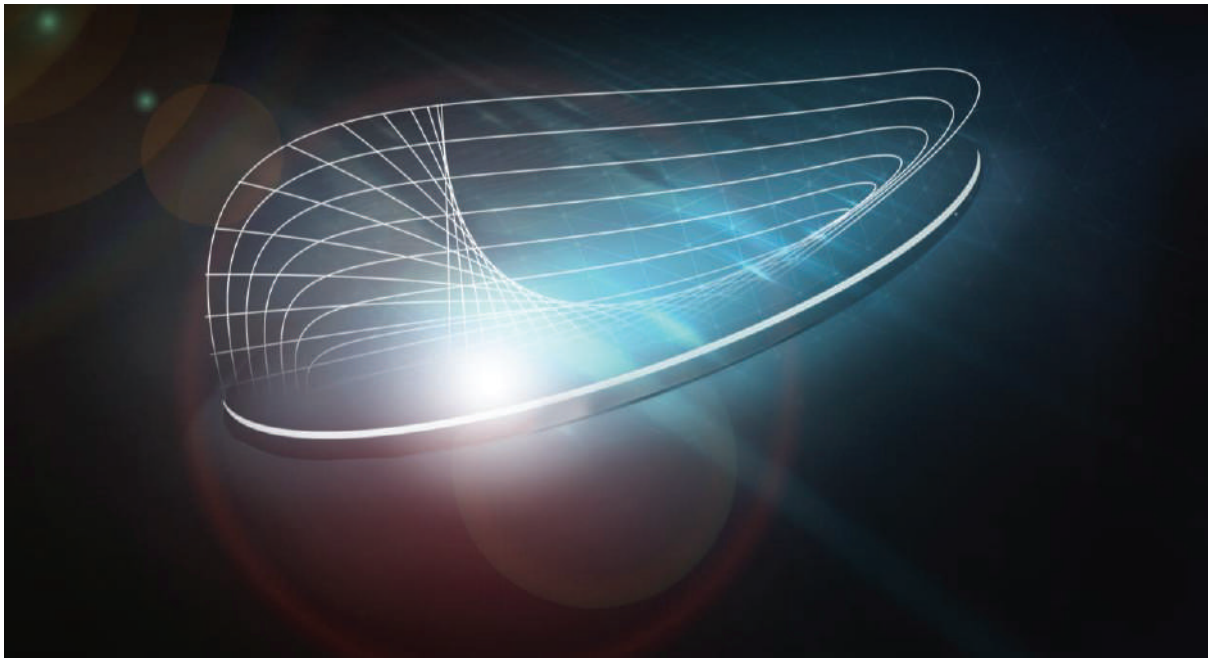
GERMAN STYLE

convex® VISION

MAXVIEW

Whether indoor or outdoors, presbyopes perform activities that require a precise vision. This results in the need to develop lenses with sharper visual fields to get the maximum visual precision in all areas of vision. And combining this with wider corridors to ensure a comfortable transition.

MaxView represents the progressive lens with the most efficient distance and near visual fields configuration. It uses a unique science that allows a greater control over each specific area of the lens surface, thus reducing the limits and trade-offs inherent to progressive lenses.
MaxView is the high-performance progressive lens. Performance in a progressive lens means the widest and cleanest fields of vision, means precision and efficiency.



NEAR EVOLVING AREA

Near area zone in common progressive lenses gets reduced when the addition grows. This is caused by the increase of unwanted astigmatism which comes with the increase of addition. MaxView is the first progressive lens in the market where the near zone stays the same in terms of effective area thanks to a unique progression design which modifies the near zone for each addition.

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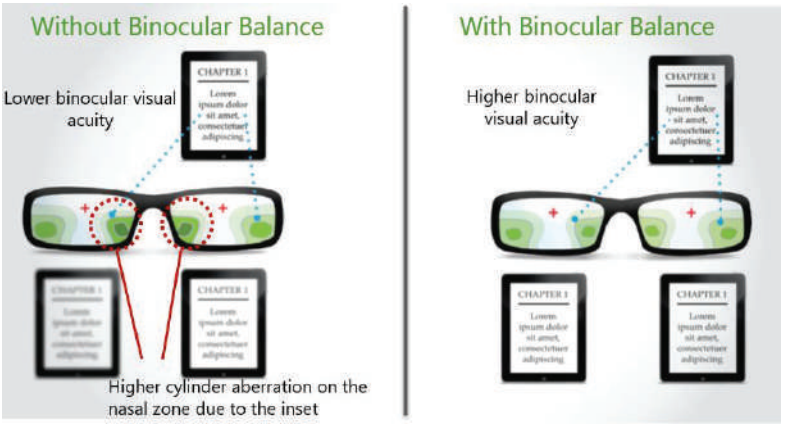
BINOCULAR BALANCE

This unique mathematical algorithm tackles the inherent imbalance of astigmatism between nasal and temporal area of progressive lenses. As a result, lenses offer similar amounts of unwanted astigmatism at both sides of the corridor improving visual perception when looking into lateral directions.

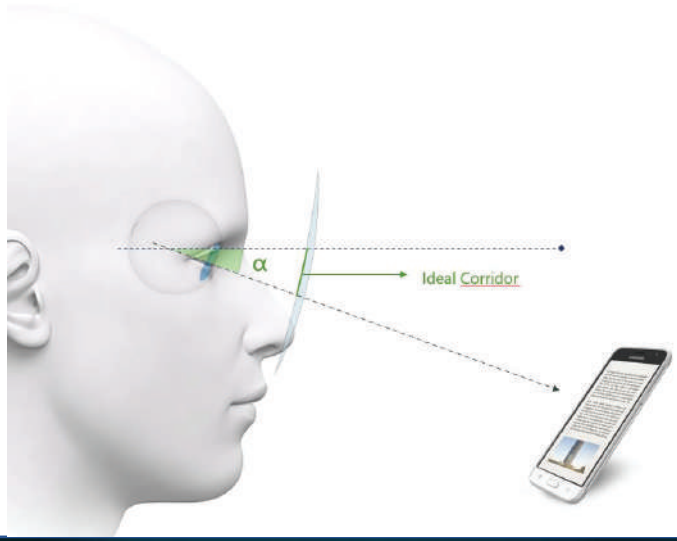


- Optimum binocular vision.
- Better fusion of lateral images.
- Sharper peripheral vision.

ERGOPATH

To ensure great visual comfort it is essential to guarantee optimum user ergonomics when looking at objects. Through the test performed on thousands of users in relation to the measurement of the visual print, it is obtained a range of optimum vertical rotation angle of eye. ErgoPath technology uses this data to provide ideal corridor that offers optimum ergonomic position to each user.

- Automatic corridor selection.
- Optimum ergonomics.
- Easy adaptation to progressives.
- Muscular eye stress cancelling.
- New personalization level.



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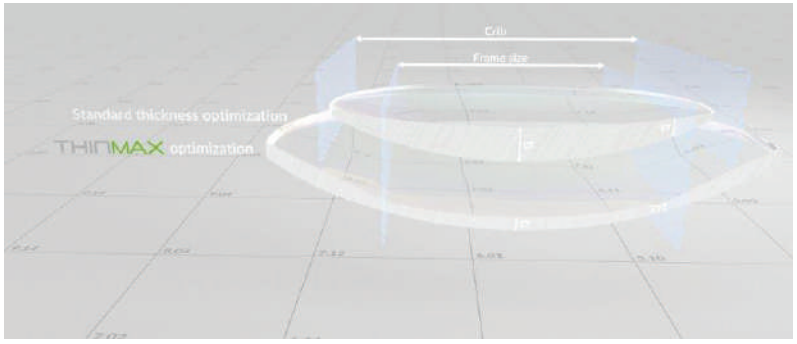
CLEARVIEW

Aberrations are intrinsic features in a progressive surface; a dioptric power always has a certain amount of aberrations. They are perceived as blurriness by the user, producing discomfort and sometimes dizziness. Horizons Optical has developed a unique technology which reduces the unwanted astigmatism to the lowest possible. This disruptive technology represents the best and authentic method to optimize lens properties to the real frame shape by pushing an important amount of blurriness out of the lens.

- Unparalleled visual fields.
- Aberration minimization.
- Swim effect minimization
- Allows a more comfortable and ergonomic position.
- Maximum visual acuity and comfort.

THINMAX

ThinMax patented technology allows to make changes in the curvature of the lens to overcome common manufacturing limitations and achieve a fully optimized lens, according to real frame.



- Minimum thickness guaranteed.
- Wider power range offering.
- Frame shape always centered, positive for gradient color lenses.
- Avoids knife-edge enlarging the productivity of the polishing pads.
- Wow effect for opticians and consumers.

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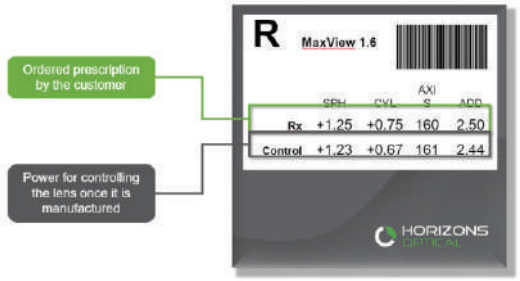
OPTIMESH

Each lens is held by the frame in a different position, this is known as the position of wear or position of use, which affects human vision generating aberrations that are responsible for a drop in the visual acuity. Horizons Optical has developed Optimesh technology to allow consumers to get lenses calculated and optimized for the real position of wear by considering 6 parameters (BVD, IPD, NOD, PANTO, SEGDHT & ZTILT.

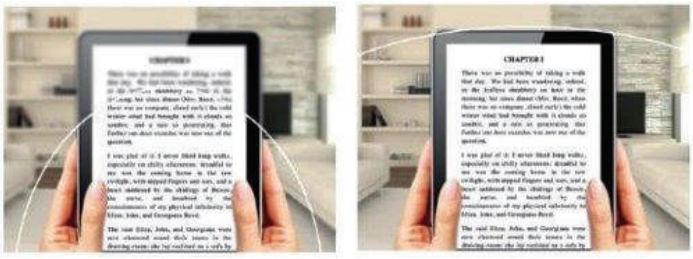
It is important to provide the control prescription on the envelope



- Improvement of optics no matter the frame or prescription.
- Natural vision with the highest visual acuity.
- Greater lateral field of vision compared to standard progressive.

DIGITAL PROFILE

Since many years almost everyone uses handheld devices, there is not just a percentage of the population, the use of these devices is nowadays generic. Digital Profile optimizes the lens progression modifying the corridor configuration and design, to offer comfort and sharp vision for using digital devices. .



- Comfortable posture while using digital devices.
- Greater vertical area with 100% of the addition .
- Easy transition between near and far vision.
- Comfort while reading.

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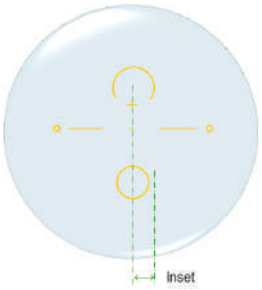
INSET

The inset is the off-centring that appears in the near zone of a progressive lens. The inset is caused by the convergence of our eyes when looking at near objects.

The optimum inset* is always calculated for every user to improve binocular vision particularly in near and increasing field of clear vision. Variable inset has a range value from 0mm to 4mm in steps of 0,01mm.



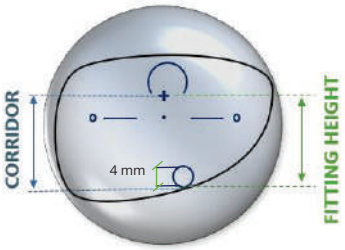
** Ask about fixed inset option (value 2,5mm).*

CORRIDOR

Horizons offers a corridor * range between 14mm to 20mm. For larger values of the fitting height, corridor will be 20mm. There are two automated corridor options available:

1. If no corridor is provided, the longest corridor possible will be assigned.
2. If ErgoPath technology is activated and no corridor is provided, the ergonomic (the optimum) corridor will be provided.

How HORIZONS understands corridor: It is measured from the fitting cross until the bottom of the near zone circle which is 2mm below the NRP matching with the minimum fitting height . That means a corridor of 18mm will fit into a fitting height of 18mm. If no corridor is provided, fitting height value will be taken and vice versa.



Ensuring a near circle of 4mm diameter.

*Ask about fixed corridor option.
** CORRLEN label means corridor length and SEGHT label means fitting height to Frame Box.

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• Benefits for the user

PRECISION AND PERFORMANCE IN ALL VISUAL FIELDS

A controlled user test proves its superior performance compared to other top progressive lenses.

PANORAMIC DISTANCE VIEW

Excellent performance in far vision

NEAR AREA EVOLVES WITH THE USER

Near area evolves with consumer addition changes supplying a unique lens which guaranties perfect reading no matter the addition

BALANCED LENS

Balanced and minimized amount of blurriness at both sides of the corridor thanks to Binocular Balance technology.

SHARP VISION AT ALL DISTANCES

Up to 20% unwanted astigmatism reduction thanks to ClearView patented technology.

PERSONALIZED LENS

Superb sharpness and precision in all gaze directions thanks to OptiMesh.

ADAPTED TO THE DIGITAL WORLD

Comfortable position when using handheld devices thanks to Digital Profile technology.

ERGONOMIC DESIGN

Ensures comfortable position of the near zone for natural reading thanks to ErgoPath.
*Optional

AESTHETICS AND LIGHTNESS TO THE MAX

Maximum reduction of thickness of positive lenses.
* Optional

OPTIMIZED NEAR VISION

Reading zone correctly aligned thanks to the optimization of the inset.

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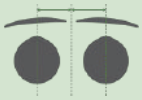
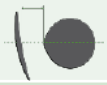
• ORDER DATA

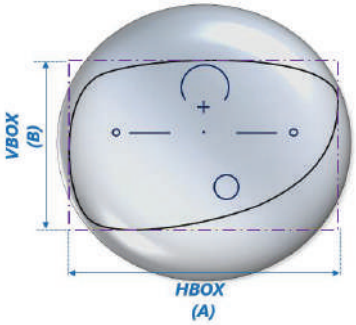
• Pupillary distances - IPD/NPD (*)	• Near Object distance –NOD (NWD for specific use designs)
• Fitting height to Frame Box (SEGHT) / Fitting height to Frame Shape (SEGDHT) (*) – minimum 14 mm	• Vertex distance - BVD
• Wrap angle - ZTILT	• Frame shape - TRCFMT (*)
• Pantoscopic angle - PANTO	• Frame measurements – HBOX, VBOX
• Distance between lenses- DBL (**)	

If no data is provided default values will be applied.
(*) This parameter is mandatory.
(**) This parameter is mandatory when there is a TRCFMT or HBOX & VBOX.

MEASUREMENT	PARAMETER	LABELS	RANGE VALUES	DEFAUT VALUES*
	PANTOSCOPIC ANGLE	PANTO	-5º TO 25º	10º
	WRAP ANGLE	ZTILT	1º TO 15º (OR 30º)	5º
	NASOPUPILLARY DISTANCE	NPD/IPD	15MM TO 40MM	--
	BACK VERTEX DISTANCE	BVD	5MM TO 25MM	12MM
	NEAR WORKING DISTANCE	NWD/NOD	25CM TO 50CM	40CM

(*) Default values can be configured.

HBOX and VBOX representation.



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- Recommended to

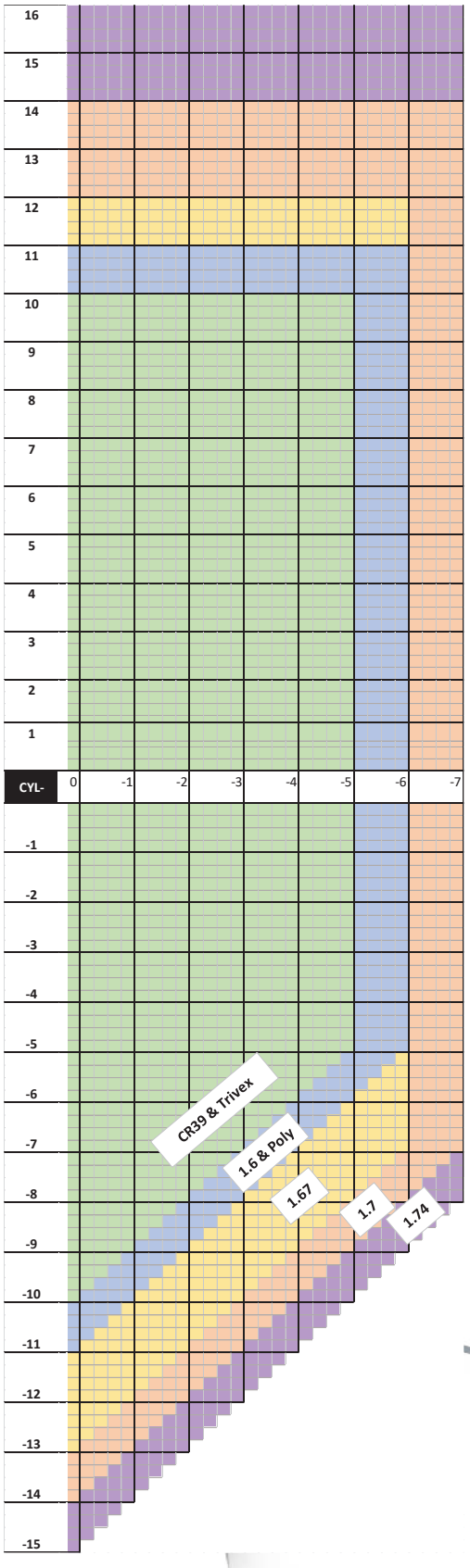
MaxView progressive lens is addressed to women and men with passion for performance. For those users looking for the best features. They like to reach the edge. They look for freedom of movement.
MaxView lens is ideal for demanding users of wider fields of vision in all distances.

MAXVIEW

- Materials and offer

ADDITION	From 0.75 D to 4.00 D. Steps of 0.25 D Addition measured by the concave.
DIAMETER	Up to 105 mm

Exact range values will depend on the selection of semifinished pieces



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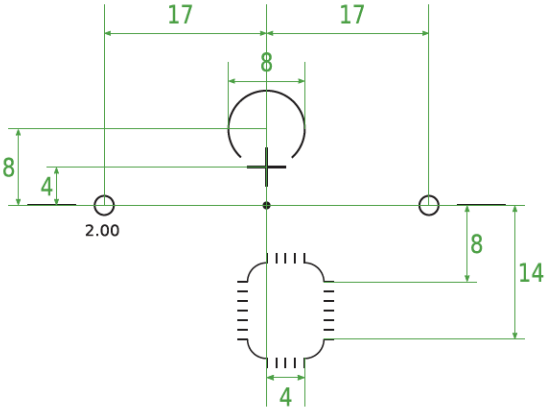
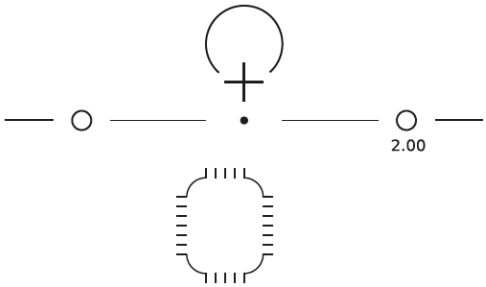
- Pad printing



All Horizons designs have the following measures:
- *Fitting cross to PRP: 4mm*
- *Distance reference point to PRP: 8mm*

Nevertheless, other values can be configured.



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