

# MYOLock 1088

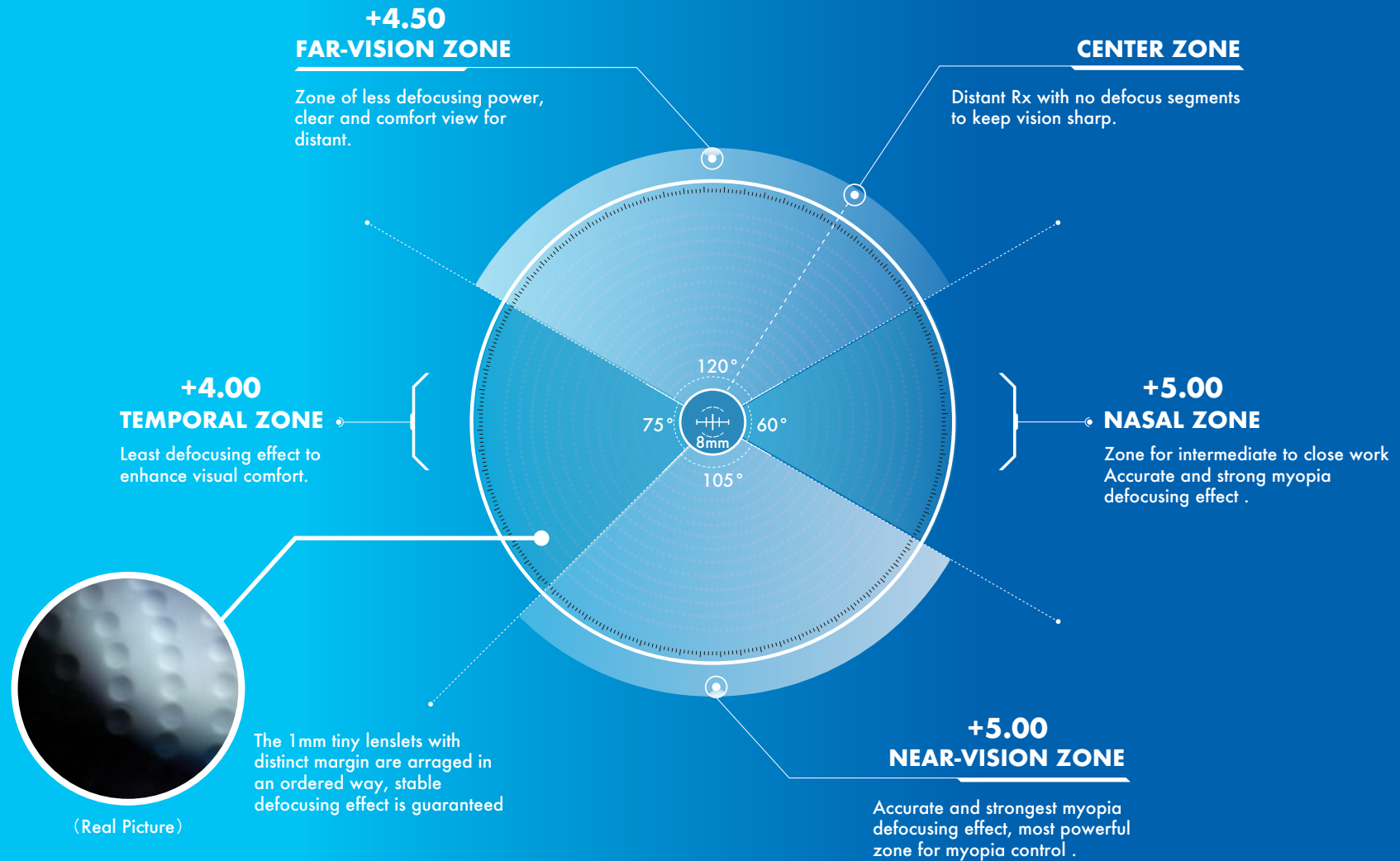
ASYMMETRIC DESIGN

PARTITION MULTI-POINTS DEFOCUSING TECHNOLOGY (P.M.D.T)



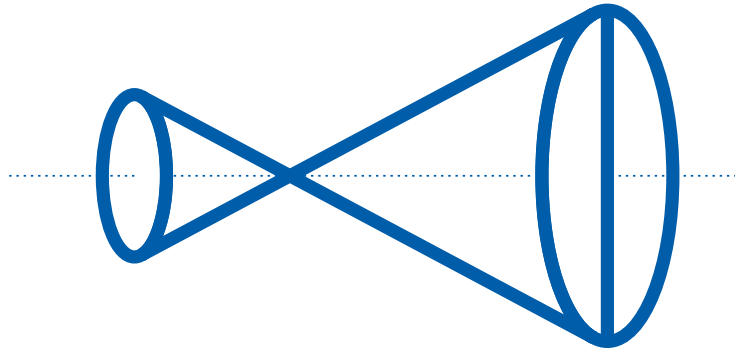
SWISSCOAT<sup>®</sup>  
Better Vision 

# MYOLock 1088



# TAILORED FOR ALL MYOPIC ADOLESCENTS

The latest solution to control myopia progression.



**5**  
ZONES

**13**  
CIRCLES

**1088**  
MICRO-LENS

**A myopic child will easily become highly myopic.  
Eye disease will come more easily.  
To safeguard eyesight and eye health,  
SWISSCOAT strives to create a new solution of  
myopia control.**

## CLEAR CORRECTION AT CENTER ZONE

According to Rx of adolescents, full distant correction through the central area and field of vision.

## MYOPIA PREVENTION

5 vision zones including center, far-vision, near-vision, nasal and temporal. Through 1088 micro-lenses fixed in 13 circles, we create a myopic defocus condition for incident light ray peripheral to macula. This professional design can retard excessive abnormal growth of the eye and keep correct axial length of the eye. This design also keeps good control for myopia progression.

## SAFE AND COMFORTABLE

Impact resistant materials give children better protection. MYOLock1088 is fabricated on PC materials. It is extremely tough, light and not easy to become yellowish within 3-5 years.

## SPECIAL STRUCTURE OF THE HUMAN EYE

The eyeball is only an approximate sphere rather than a perfect sphere, the macular location of the retina belongs to the imaging area, the distance from the periphery of the retina to the anterior apex of the cornea varies gradually. Due to the spherical shape of the eye ball, when the human eye see objects, the objects on the visual axis focus precisely on the macula, but the objects at peripheral space focus at a point behind the retina, which is called hyperopic defocus.

## ORIGINAL PARTITION MULTI-POINTS DEFOCUSING TECHNOLOGY(P.M.D.T)

MYOLock1088 combines the special structure of human eye to develop P.M.D.T , which employs the differentiated zoning layout and near-vision zone adjustment to delay the growth of axial length and avoid progression to high myopia.

## SCENES CHANGE FREELY

P.M.D.T effectively helps user adapt to different scenes, either for indoors or outdoors, it adopts different defocus power on different zones on the lens, it is to ensure each individual zone is ideally used for particular distance or task.

# HOW DOES THE MYOLOCK1088 DEFOCUSING LENS BENEFIT FOR MYOPIA CONTROL

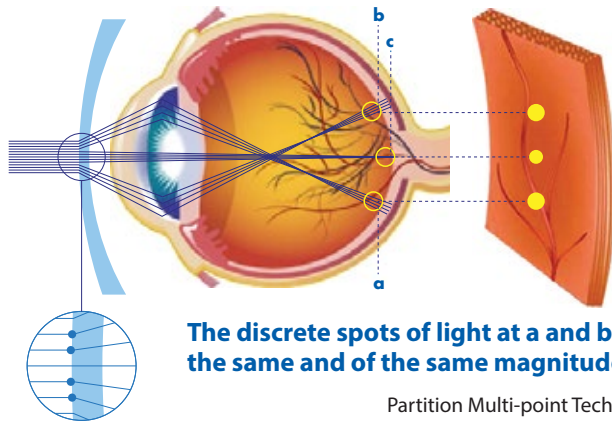
## CLEAR VISION COMMON DEFOCUSING LENS

Traditional peripheral defocusing lens reduces farsighted hyperopic defocus imaging around the retina by changing the peripheral power of lens to control the growth of eye ball axial length and myopia. While multi-point defocusing lens allow simultaneous multiple defocus and can make the peripheral imaging fall before the retina to form a myopic defocus zone with the micro convex lens array.

1. Based on the principle of retinal imaging, precise calculations are carried out to obtain the defocus area and defocus amount for partition differentiated management. Myolock team divides the defocus area into center zone, far-vision zone, near-vision zone, nasal zone and temporal zone, different zones have different defocusing power, which makes the defocus lens adapt to various scenarios.

2. Gap between each circle is reserved to avoid stray light Interfering.

3. Refracted ray goes through the central 8mm area with no interference to guarantee the clarity of image.

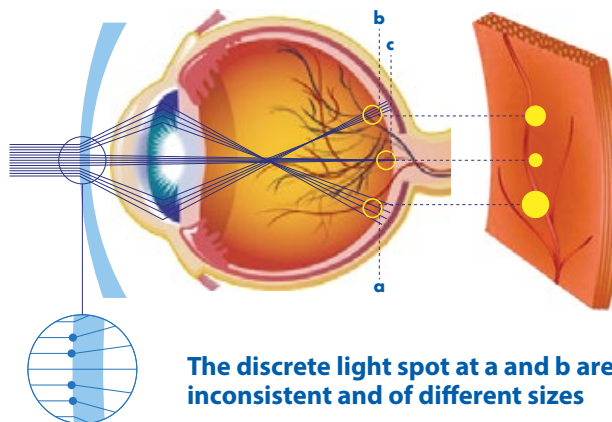


**The discrete spots of light at a and b are the same and of the same magnitude**

Partition Multi-point Technology

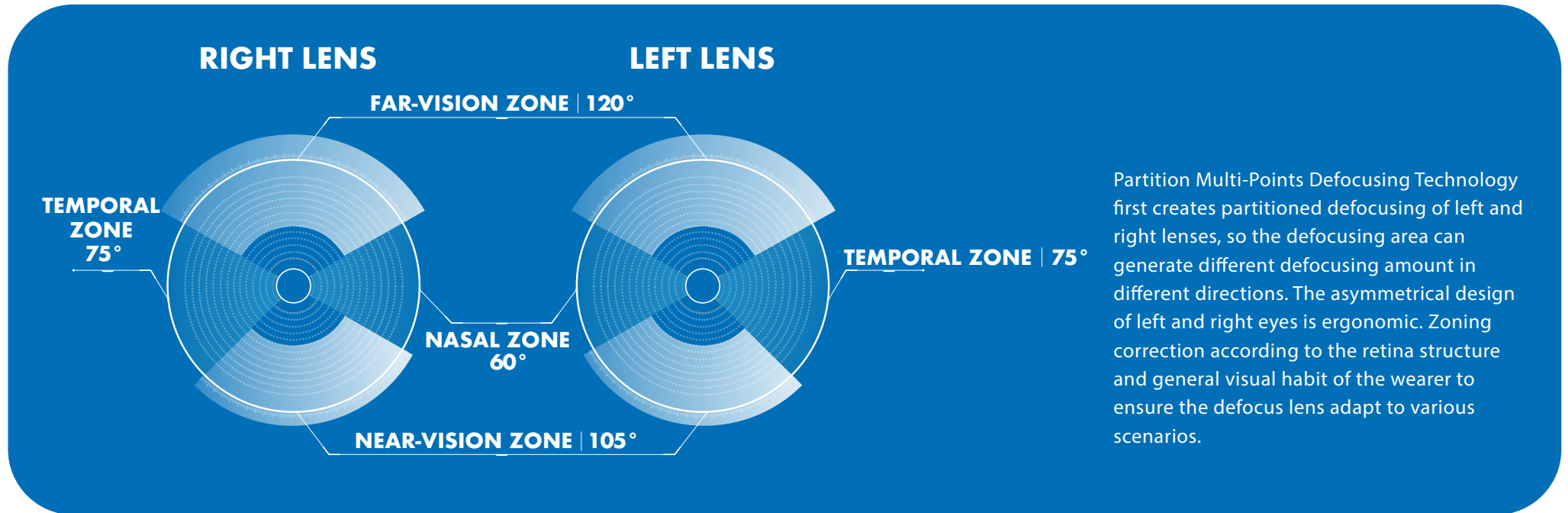
## MYOLOCK1088 PARTITION DEFOCUSING MYOPIA LENS

MYOLock1088 lens adopts 5 partition differentiated design to guarantee clear and stable vision of center zone, 1088 micro convex lenses are arranged around the central zone to form other 4 zones as far-vision zone, near-vision zone, nasal zone and temporal zone. By using the converging power of micro-lenses, the rays focus before the retina to achieve a myopic defocusing effect, which helps delay the growth of the axial length to slow the progression of myopia. Partition defocus differentiated design meets the need of using of eyes in different scenes.



**The discrete light spot at a and b are inconsistent and of different sizes**

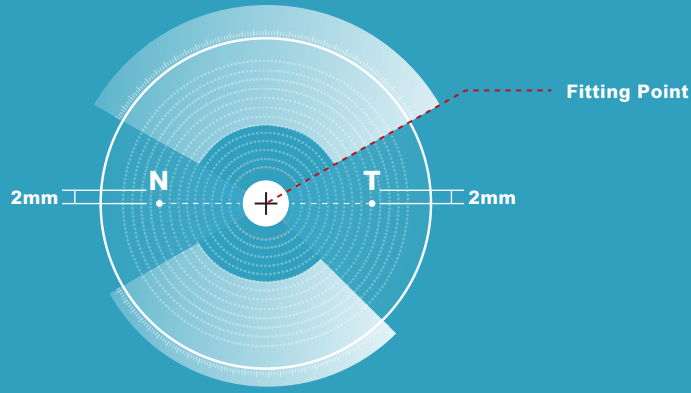
# PARTITION MULTI-POINTS DEFOCUSING TECHNOLOGY(P.M.D.T)



The eye ball can turn to any directions from its primary gaze which always coincide with the central clear zone and the desired defocusing power is different at different gaze. Myolock 5 zones design provide a dynamic setting to cope with the actual use of eyes in different scenarios.

|  |  |  |  |
|--|--|--|--|
|  | <p><b>CENTER ZONE<br/>RX area</b><br/>Distant Rx with no defocus segments to keep vision sharp.</p>                        |  | <p><b>NASAL ZONE</b><br/>Zone for intermediate to close work<br/>Accurate and strong myopia defocusing effect.</p> |
|  | <p><b>FAR-VISION ZONE</b><br/>Zone of less defocusing power, clear and comfort view for distant.</p>                       |  | <p><b>TEMPORAL ZONE</b><br/>Least defocusing effect to enhance visual comfort.</p>                                 |
|  | <p><b>NEAR-VISION ZONE</b><br/>Accurate and strongest myopia defocusing effect, most powerful zone for myopia control.</p> |  |  |

## Partition Multi-Points Defocusing Technology (P.M.D.T)

|  |   |   |
|--|---|---|
| <b>Refractive Index</b>                          | $n_e = 1.59$  |   |
| <b>Abbe Value</b>                                | 30.3  |   |
| <b>Lens Material</b>                             | PC  |   |
| <b>Diameter of the Lens</b>                      | 70mm  |   |
| <b>Distance Prescriptions</b>                    | SPH(Total Power) 0.00D ~-10.00 (Cyl < -6.00)  |   |
| <b>Effective Diameter with Partition defocus</b> | 55mm  |   |
| <b>Fitting Point</b>                             | At the center of the 2 invisible circle Engravings on the same level  |   |
| <b>Engravings</b>                                | T ( Temporal side ) , 2mm above the circle engraving<br>N ( Nasal Side ) , 2 mm above the circle engraving  |   |
|  |  <p>The diagram illustrates the Partition Multi-Points Defocusing Technology (P.M.D.T) on a lens. It shows two concentric circles centered on the lens. Two points, N (Nasal Side) and T (Temporal side), are marked on the inner circle, each 2mm from the center. A dashed line indicates the fitting point at the center of the circles.</p> |   |
| <b>Coating Options</b>                           | <b>Maximum durability,<br/>Scratch resistant<br/>SPC 2.0</b>  | <b>Low reflection,<br/>High transmission<br/>MV 3.0</b>         |
|  |   | <b>Filter harmful blue light,<br/>High protection<br/>SF2.0</b> |