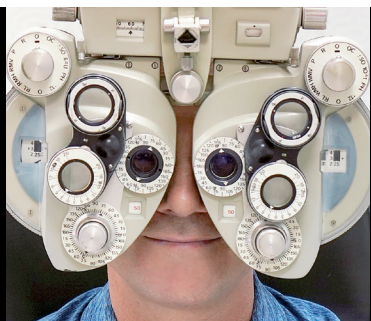


# Position of Wear Measurements

## Prescribed Power

- Small aperture lenses
- Zero tilt
- Zero wrap
- Consistent BVD



## Wearer Power

- Large aperture lenses
- Increased tilt
- Increased wrap
- Different BVD

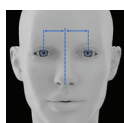


Position of wear measurements are used to **ensure the wearer sees the way the optometrist intended**



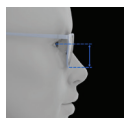
### Prescription and addition

IOT Digital Ray-Path 2 calculates the power that the wearer will truly perceive once the lenses are fitted in the frame.



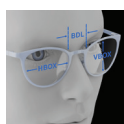
### Monocular pupillary distance

The distance from the axis of symmetry of the face to the center of the pupil.



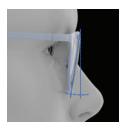
### Pupil height

The vertical distance between the pupil center and the deepest part of the lens shape.



### Frame size

Used to calculate the final diameter, thickness of the lens and improve the efficiency of the optimization.



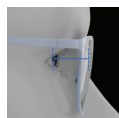
### Pantoscopic angle

The vertical angle between the optical axis of the spectacle lens and the visual axis of the eye in the as-worn position.



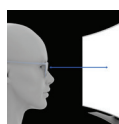
### Wrap angle

The frame curvature.



### Back vertex distance

The distance between the cornea and the back surface of the lens.



### Near working distance

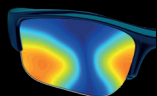
The distance from the lens to the typical reading position for the wearer.

IOT's patented **IOT Digital Ray-Path 2 Technology** uses this information to **reduce aberrations** and give wearers clear vision across the entire lens surface, regardless of prescription.

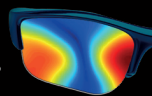
## How do position of wear measurements affect the lens design?

**Without** considering the position of wear measurements the wearer may experience: **narrower** fields, more **powerful distortion** in the periphery, and **more aberrations** in the usable areas of the lens

**Lens Without Tilt**  
Rx: -6.00 Add: 2.50  
Panto: 0 Wrap: 0

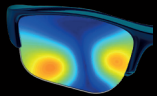


**Lens With Tilt**  
Rx: -6.00 Add: 2.50  
Panto: 12° Wrap: 10°

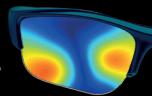


**IOT Digital Ray-Path 2** will re-calculate the surface to give the wearer the **best possible vision and comfort** regardless of frame size or fit. The visual quality is always stable for all frames.

**Lens Without Tilt**  
Rx: -6.00 Add: 2.50  
Panto: 0 Wrap: 0



**Lens With Tilt**  
Rx: -6.00 Add: 2.50  
Panto: 12° Wrap: 10°



## Compensated Powers

DESIGN NAME		PRESCRIBED POWER
L	Sph+1.00 Cyl-2.00 100° Add2.75	
COMPENSATED POWER	Sph+1.12 Cyl-1.98 100° Add2.71	

The lens envelope will show the power that has been calculated for checking on the lensometer. The sphere and cylinder will change, as well as the axis to ensure the incident light is refracted correctly. All of this means **your patient gets the best possible vision!**