


On behalf of Vision Expo, we sincerely thank you for being with us this year.

Vision Expo Has Gone Green!

We have eliminated all paper session evaluation forms. Please be sure to complete your electronic session evaluations online when you login to request your CE Letter for each course you attended! Your feedback is important to us as our Education Planning Committee considers content and speakers for future meetings to provide you with the best education possible.




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Financial Disclosure

Kelly Rosemann is an employee of HOYA Vision Care.


All relevant relationship have been mitigated.



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Mastering Optics

Navigating Lens Centration Charts & Lens Compensation



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Objectives

1

Review the importance of proper measurements.

2

Understand how to order lenses using centration charts effectively and efficiently.

3

Demonstrate how to verify lenses using centration charts effectively and efficiently.

4

Identify the differences between compensated and prescribed prescriptions.

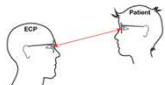
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Proper Measurements

Parallax Error

- Eye Level is Important
- 1" = almost 2mm






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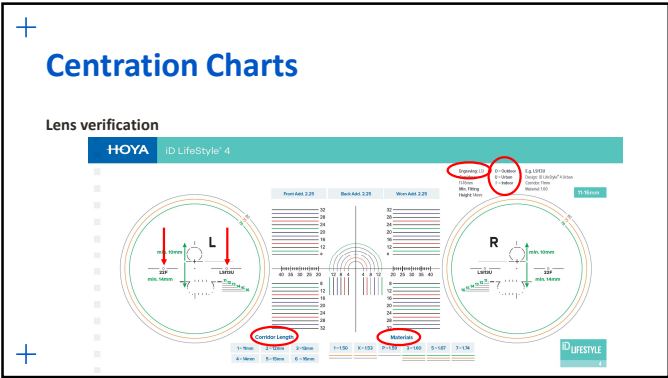
Proper Measurements

Frame Adjustments

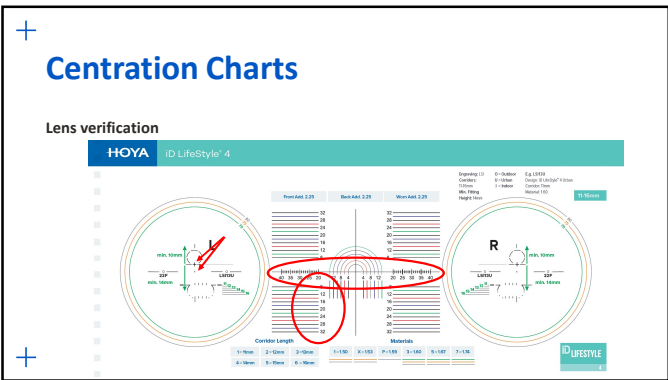
- 4-point alignment
- All frames need adjustments
- Everything is backwards
- Proper adjustment = proper measurement
- Proper adjustment + proper measurement = clear vision



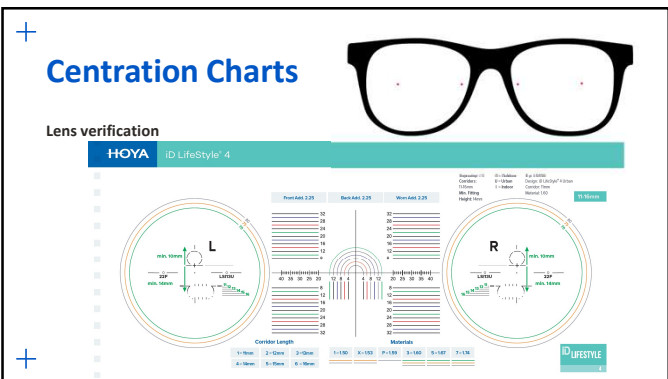
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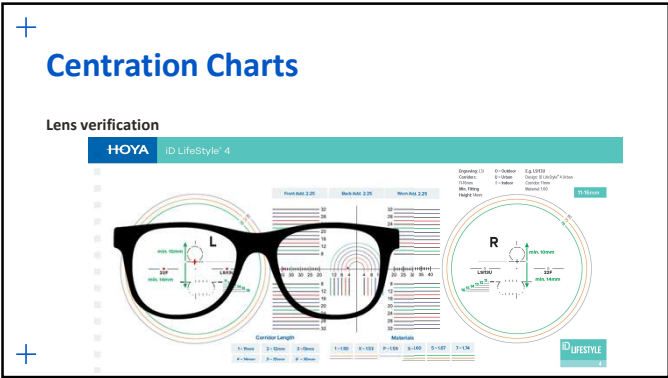
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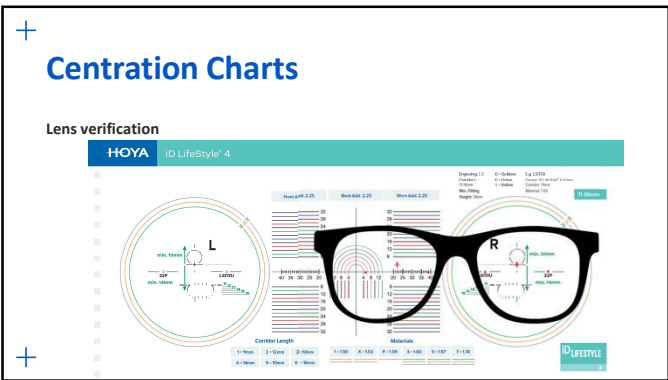
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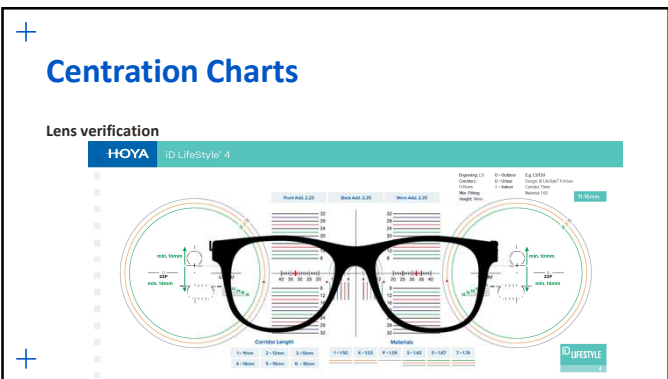
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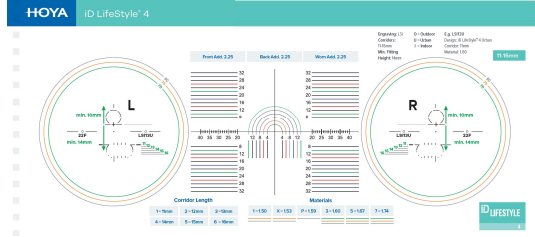
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Lens corridor selection

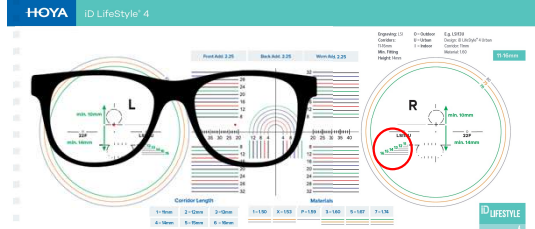


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Centration Charts

Lens corridor selection

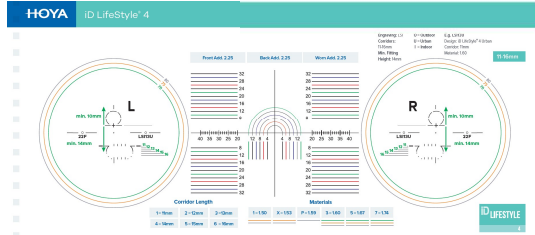


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Centration Charts

Cut-out verification

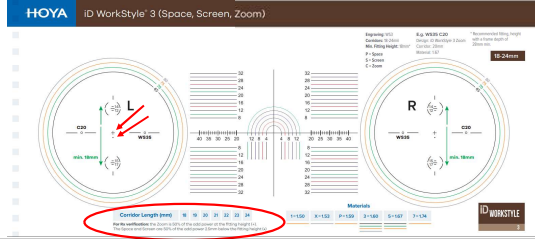


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Occupational lenses

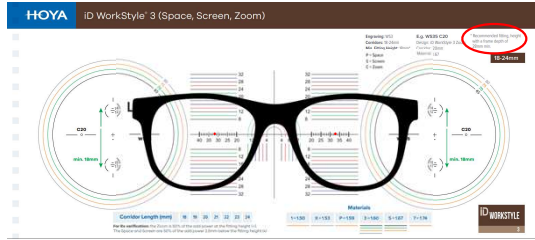


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Centration Charts

Occupational lenses



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Lens Compensation

- Should the patients effective Rx be equal to their prescribed Rx?
- Should we verify the lens to the prescribed Rx or the compensated Rx?



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Refractive Lenses

Lenses in a phoropter

- Small in diameter
- Flat in profile
 - 0 Base curve
 - 0° Panto Angle
 - 0° Wrap
- OC height in front of pupil

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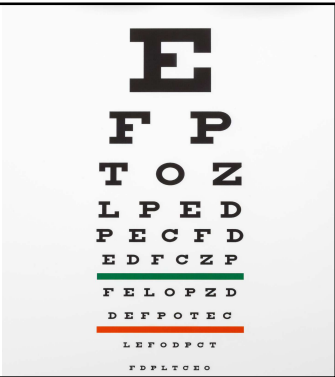
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Refractive Lenses

Exam Lane

- 20 ft away
- Dark letters – white background
- Low lit/dark room
- Backlit chart or projected



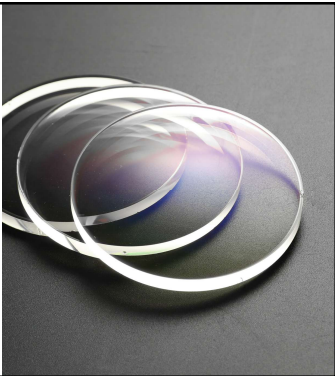
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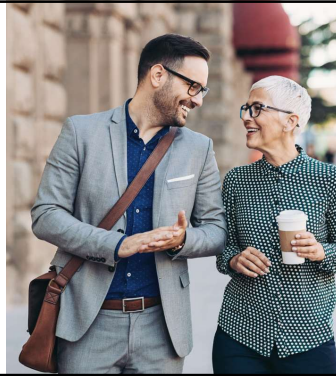
Eyeglass Lenses

Lenses in a frame

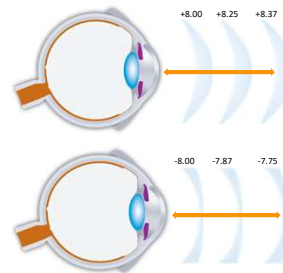
- Large in diameter
- Curved
 - 5-10° Panto angle
 - 4-10° Wrap
- 9–20 mm Vertex
- OC height is below the pupil



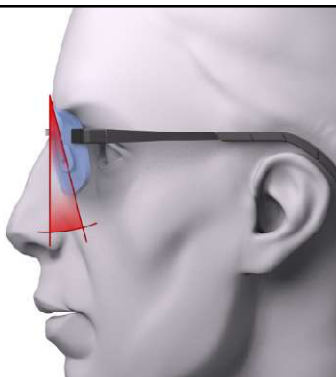
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Lens Compensation

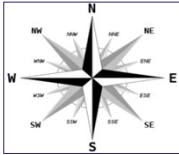
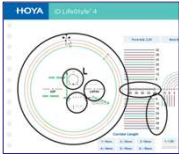
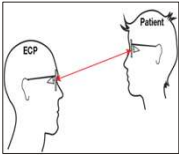
- Should the patients effective Rx be equal to their prescribed Rx?
- Should we verify the lens to the prescribed Rx or the compensated Rx?


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Summary





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