Fitting ZEISS Digital Smart Lens

Digital Smart Lens is an enhanced single vision lens with +0.62 D of supplemental plus power in the lower portion of the lens for pre-presbyopes who suffer from Digital Eye Strain.

1 SELECT FRAME

For best vision and appearance, encourage the patient to choose a frame in which the eyes are well centered and with a “B” dimension of 21mm or larger for ZEISS Digital Smart Lens.

2 PRE-ADJUST FRAME

- Frame should have pantoscopic tilt of 7° to 12° to maximize visual utility.
- Frame should have face-form wrap that follows the contour of the face to maximize peripheral vision.
- Frame should have a close fit (vertex distance) without touching skin or eyelashes to maximize field of view.

3 MEASURE PUPIL CENTER HEIGHT

With the patient looking straight ahead into the distance, in natural posture, dot each lens at the center of the pupil. Measure monocular pupil center heights with a PD ruler or the scale on the reverse side. ZEISS Digital Smart Lens has a variable corridor length.

Recommended minimum pupil center height is 13mm

4 MEASURE PUPILLARY DISTANCE

Use a pupillometer to measure monocular distance PDs.

5 VERIFY CUT OUT

Place the right lens over the appropriate Lens Cut Out circle on the back side of this piece, aligning the pupil center dot over the fitting cross. If frame falls outside of the available cut-out diameter of the lens blank, the lens may not cut out. Repeat with left lens.

Helpful Hints for Fitting ZEISS Digital Smart Lens

- Avoid aviator frame styles; the nasal sweep reduces the near area of the lens and the frame will often not cut out.
- Frame should be lightweight to reduce slipping; nose-pads are preferred to allow for fine-tuning of adjustment.
- While fitting, the patient should assume a natural posture with eyes at the same level as yours to reduce parallax.

Dispensing ZEISS Digital Smart Lens

1 VERIFY LENSES

- Locate the lens engravings, and replace lens markings using the centration chart or apply the Digital Smart Lens verification mask.
- Verify the distance Rx power at the distance reference point of the lens and the prism at the prism reference point of each lens.
- It is not necessary to verify the near plus power of Digital Smart Lens, because it is not a prescribed add power.
- The fitting cross of each lens should be positioned at pupil center when eyeglasses are on the wearer.
- If necessary, use alcohol or other residue-free solvent to remove factory ink markings, once lens centration has been verified.

2 RE-CHECK THE FRAME ADJUSTMENT

- Pantoscopic angle
- Face-form wrap
- Minimum vertex distance

3 SHOW PATIENT HOW TO USE LENSES

- Extent of the visual fields
- Location of the extra plus power in the bottom of the lens
- Proper side-to-side head movement for peripheral viewing

To Locate the Lens Engravings

The alignment reference markings (logos) are engraved onto the back lens surface, 34mm apart or 17mm to either side of the prism reference point. The engraved 2-digit (abbreviated) supplemental plus power at near (“06”) is below the temporal logo and the engraved design code (“DS”) is below the nasal logo.

Use a good light source and dark background to locate the engravings on the back surface. Use a felt-tip pen to dot the center of each engraving. Place the front surface of the lens over the Lens Cut Out chart, aligning both dots with the corresponding engravings. Draw in the remaining markings, if needed.
ZEISS Digital Smart Lens
Lens Cut Out & Ink Markings

ENTIRE FRAME MUST FALL INSIDE CIRCLE
WHEN ALIGNED AT THE FITTING CROSS

PLACE FRAME ON SCALE TO MARK PD AND FITTING HEIGHT IF NECESSARY

Zeiss Digital Smart Lens Availability Information

<table>
<thead>
<tr>
<th>LENS MATERIAL</th>
<th>COLOR</th>
<th>DIAMETER*</th>
<th>RX RANGE**</th>
<th>CYL TO</th>
<th>NEAR POWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.59 Polycarbonate</td>
<td>Clear</td>
<td>75/95</td>
<td>−10.00 to +8.00</td>
<td>−4.00</td>
<td>+0.62</td>
</tr>
<tr>
<td>1.59 Velocity Self-Tinting</td>
<td>Gray &amp; Brown</td>
<td>72/92</td>
<td>−10.00 to +8.00</td>
<td>−4.00</td>
<td>+0.62</td>
</tr>
</tbody>
</table>

* Physical blank size / effective blank size with 10 mm of blank decentration.
** Strongest plus sphere power or combined minus sphere and cylinder power.