

SMART FITTING SET - User guide

The smart fitting set incorporates today's every day photography technology, even using smart phones' cameras, to evaluate and fit custom prosthetic lenses only in five minutes.

The smart fitting set is a compact set consisting of four lenses, three spherical/symmetrical for non eye deviating cases and one with prismodynamic stabilisation for strabismus cases.

The lenses are as follow:

RED lens: BC 8.40, Dia 14.50, Power Plano, iris diameter 11.50, clear pupil 4.00 mm

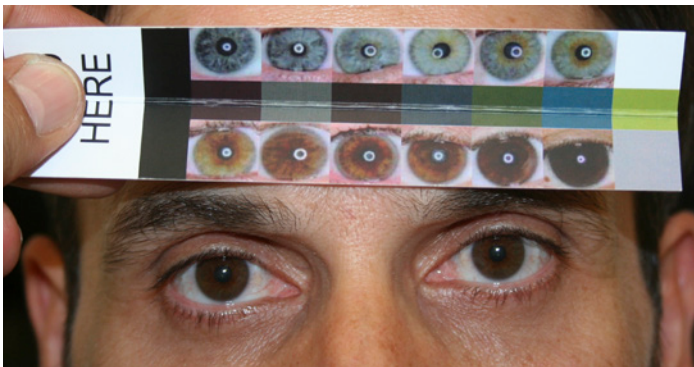
YELLOW lens: BC 8.60, Dia 14.50, Power Plano, iris diameter 12.00, clear pupil 5.00 mm

BLUE lens: BC 8.80, Dia 14.50, Power Plano, iris diameter 12.50, clear pupil 6.00 mm

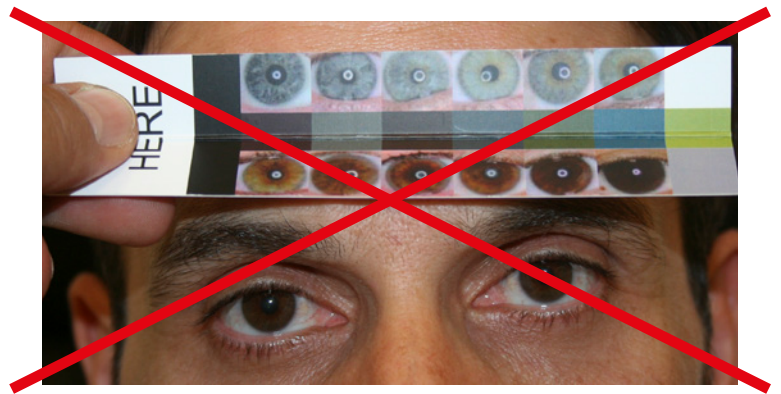
WHITE lens: BC 8.70, Dia 17.00, Blue 3mm pupil and red line passing from 6 o'clock, when no rotation is present

Using the SMART FITTING SET, helps the practitioner to:

- Decide the lens base curve
- Evaluate the lens material/patient's tear interaction
- Lens/iris centration
- Iris diameter evaluation
- Pupil diameter evaluation
- Correct refraction with pupil diaphragm, in cases of iris coloboma or aniridia
- Strabismus lens base curve
- Strabismus iris/pupil position measurement



Img 1 - Correct photo



Img 2 - Unwanted reflections on the upper part of the ruler

STEP 1

Take a photograph of BOTH patient's eyes with the CALIBRATION RULER touching his/her forehead (as image 1), using flash.

Check the photo taken for the point below:

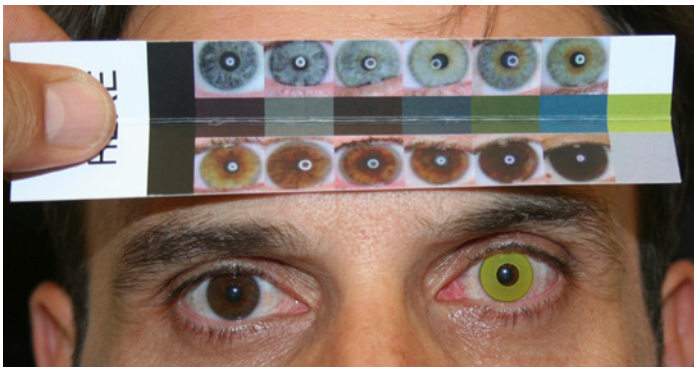
- ✓ Both eyes are in the frame
- ✓ The whole calibration ruler is in the frame
- ✓ The calibration ruler is bended forming an angle of 90 to 110 degrees, to avoid unwanted reflections in the photo from the flash.
- ✓ No reflection is seen on the calibration ruler (otherwise adjust the inclination of the ruler being held on the forehead). **See image 2.**
- ✓ The photo is clear when magnified on the computer/phone screen (details of the iris are seen clearly).

STEP 2

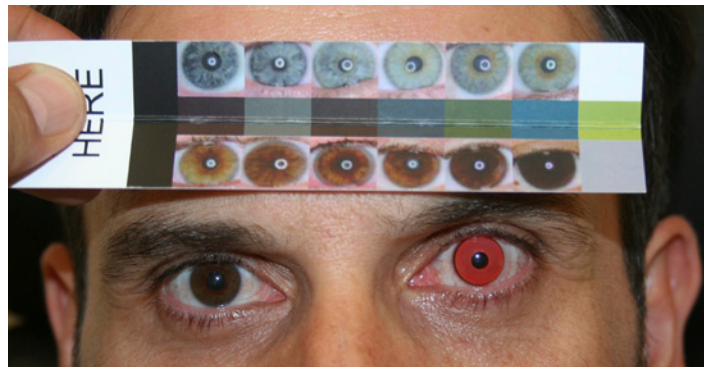
When the eye to be rehabilitated has almost normal shape try the YELLOW LENS (8.60/14.50, iris 12.00-pupil 5.00 mm) **See image 3**.

Evaluate the following:

- ✓ Movement after blink at primary gaze
- ✓ Centration of the lens at extreme nasal and temporal gaze, as well as during the movement
- ✓ Push up test without the interaction of upper eyelid
- ✓ Check the coverage/centration of the iris to be manufactured (If the position is not satisfactory, an ACCESS for strabismus has to be fitted, therefore try the WHITE LENS of the set (white with blue pupil).
- ✓ The YELLOW LENS has iris diameter of 12.00 mm. If the desired diameter is 12.00 mm, iris symmetry can be accurately justified. The same principle applies for the pupil diameter which is 5.00 mm of this lens.



Img 3 - Iris diameter 12.00 mm,
pupil 5.00 mm



Img 4 - Iris diameter 11.50, pupil 4.00 mm

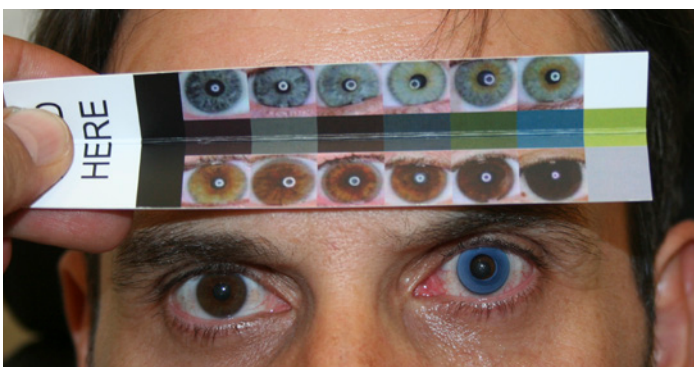
If the lens fit is not satisfactory, try the steeper (RED LENS, 8.40/14.50, iris 11.50-pupil 4.00 mm). **See image 4**, or flatter (BLUE LENS, 8.80/14.50, iris 12.50-pupil 6.00 mm) lens, **see image 5**, according to the previous lens evaluation check list.

Upon deciding the lens fit, the other lenses with the different iris and pupil diameters could be tried, to evaluate iris, pupil size, centration and symmetry.

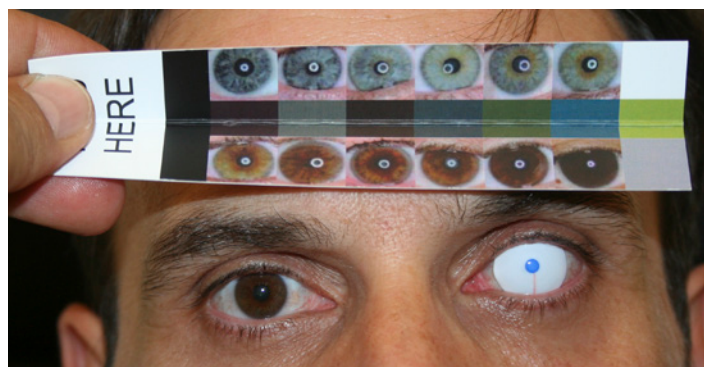
LENS ORDER

Base curve / Power (sphere or toric) / **diameter, iris diameter / pupil diameter, black/transparent pupil** and attached photo with the calibration ruler.

Example: 8.60/0.00/14.50, 12.0 / 4.0 , black pupil.



Img 5 - Iris diameter 12.50 mm,
pupil 6.00 mm



Img 6 - White lens with 3mm blue pupil and
red alignment line

STRABISMUS / DECENTERED IRIS ACCESS prosthetic

The WHITE LENS has a centered 3 mm pupil and a transverse red line passing through the center of the prismodynamic stabilization area.

STEP A. Fit the WHITE LENS (8.80/0.00/17.00, 3mm blue pupil, red alignment line), **see image 6.**

Evaluate the following:

- ✓ Movement after blink at primary gaze
- ✓ Centration of the lens at extreme nasal and temporal gaze, as well as during the movement
- ✓ Push up test without the interaction of upper eyelid

Decide if the final lens needs steeper or flatter BC in 0.30 mm steps. (Additional diagnostic lenses can be ordered).

STEP B. Take a photograph with the CALIBRATION RULER as described in STEP 1.

STRABISMUS / DECENTERED IRIS ACCESS ORDER

Same data as described in the lens order above.

FITTING SET lens storage: Store lens only in saline solution (Do not use chemical disinfection systems)

FITTING SET disinfecting: Sterilization is performed with autoclave according to ISO 19979. Alternatively lens could be soaked in 3% hydrogen peroxide for 3 hours, prior to neutralization.

Lens cleaning and disinfecting: Only HYDROGEN PEROXIDE disinfecting solutions are used. Soft lens surfactants may be used if the fitter recommends it.

BEFORE



AFTER

