ACCESS PROSTHETIC

EYEART LABORATORIES
PRECISION CONTACT LENS AND OPTICS MANUFACTURE

SMART FITTING SET

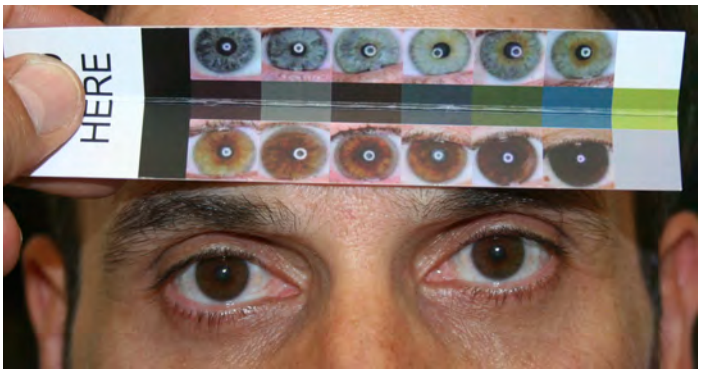
User guide

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

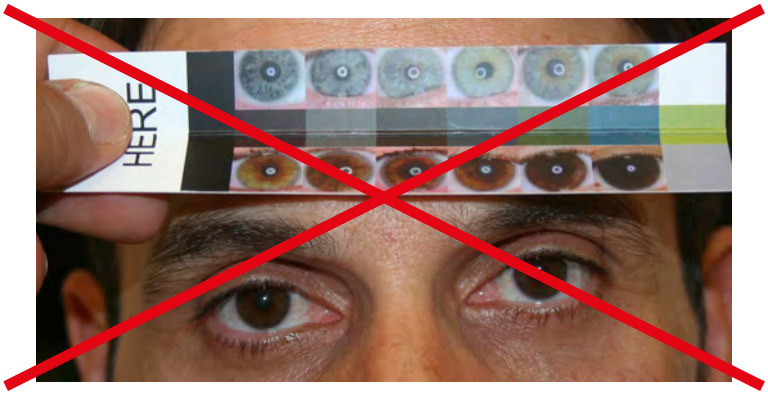
STEP 1

Photograph 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
- ✓ No reflection in 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).



img 1



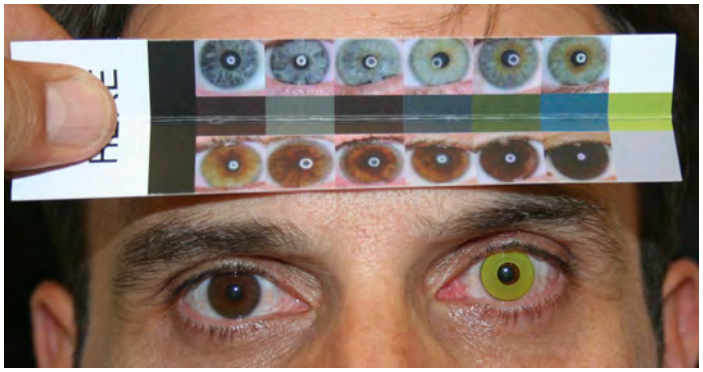
img 2

The calibration ruler is bended forming an angle of 90 to 110 degrees, to avoid unwanted reflections in the photo from the flash.

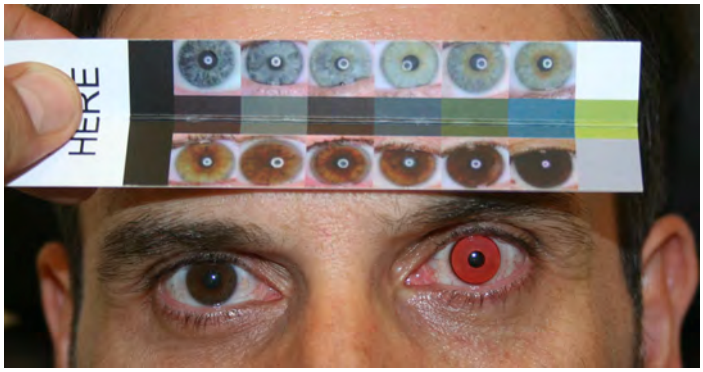
STEP 2

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, a 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

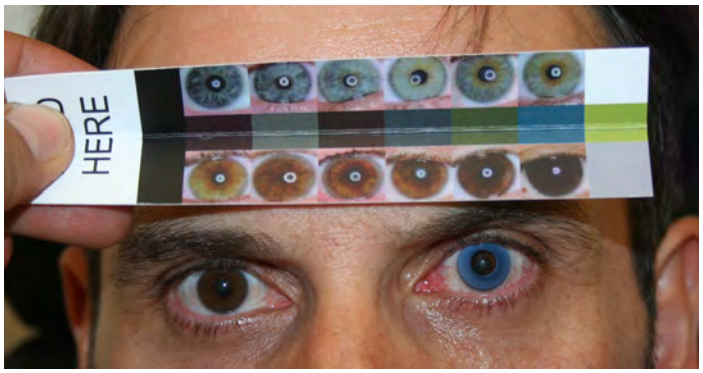


img 4

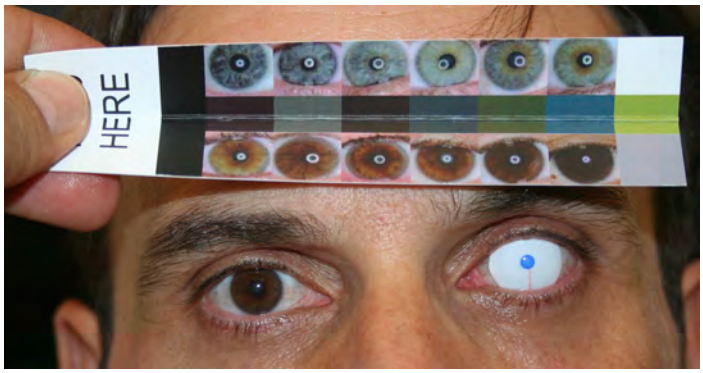
If the lens fit is not satisfactory, try the steeper (RED LENS, 8.40/14.50, iris 11.50-pupil 4.00 mm). **See image 4**, or flatter (BLUE LENS, 8.80/14.50, iris 12.50-pupil 6.00 mm) lens, **see image 5**, according to the previous lens evaluation and confirm the check points.
Upon deciding the lens fit,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



img 6

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.

METHOD 1

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

METHOD 2

STEP A. Fit the WHITE LENS and 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

STEP B. Mark the desired pupil position with a permanent marker
STEP C. 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 storing: 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