# IntelliGaze<sup>™</sup>

# Positioning

To ensure accurate computer control, the device must be calibrated before first usage or after every change of environmental conditions (e.g. new glasses, position, illumination of the room).



# Trouble-Shooting "Locate"

- Problem: Smiley is yellow or red.
  Solution: Distance between display and head ist too small or too large.
- Problem: Yellow triangle with exclamation mark instead of an eye.

Solution: Make sure if the eye is wide opened and that no r eflections are covering the pupil.

• Problem: The smiley is changing its color from red over yellow to green although the head is stable.

Solution: A tracking problem exists. Change the location of the camera while using the camera view. Open the view with the keyboard shortcut Ctrl+F10:



Camera view



Camera view

#### Ensure:

- Pupil is clearly visible.
- 2 tiny white dots below the pupil.
- Both eyes are visible.

#### Avoid:

- Pupil covered by eyelid or disturbance reflection on glasses.
- The two tiny white dots are not visible.
- Reflections on glass, rim or ventilation mask.
- Two tiny white dots on sclera.

## Trouble-Shooting "Stabilize"

- Problem: The smiley is not green and stable while the users looks in the corners of the display. Solution: You need to change the location of the camera:
  - The eyes must be clearly visible as in the image above in every corner of the screen before starting a calibration.
  - Tilting display can move disturbance reflections out of the pupil.
  - After tilting the display you might need to shift the display to bring back the smiley in the center.



### Trouble-Shooting "Calibration"

- Problem: Calibration offers the option "improve". Solution: There are one or several points which where not properly calibrated. These points can be re-calibrated.
- Problem: The calibration fails or a couple of points could not be calibrated.

Solution: Repeat the calibration with the calibration option wait for valid data turned on. Change that option in the preferences (Ctrl+F10) Wait for valid data will wait at each point as long as the users needs to fixate the target. This option increases the chance of a successful calibration for users which have difficulties to hold

a fixation for a longer period. If the calibration stalls at a point you can press the space bar to accept even unstable data at this point and proceed with the next point. Recalibrate if the cursors seem inaccurate. Go through step 1-3 to get the best calibration results.

