i.Terminal® 2 – Quick Guide
Software application for acquisition of the centration data for precision lenses.
1 Preparation of measurement

• If possible, remove the demo lenses from the selected frame to avoid reflections.
• Adapt the selected frame anatomically.
• Place the calibration tool on the frame and center it.

2 Measurement / image capture

2.1 Commencing measurement

2.2 Positioning the customer

2.3 Taking the front image

2.4 Taking side image

3 Centration data acquisition

3.1 Measuring back vertex distance and mounting lens angle

3.2 Determining the centration point position

3.3 Selection of the lens type, the frame type and activation of the autocorrect mode

3.4 Saving, post-processing and printing results

• Ask the customer to put on the frame.
• Check that the calibration tool is still centered on the frame.
2 Measurement / image capture

2.1 Commencing measurement

- Start i.Com mobile on the iPad and touch the Customer tile in the main menu.
- Select the customer from the overview (2) or create a new customer (1).

The **Summary** module appears.
- Touch **Centration** in the menu bar.

The **Centration** module appears.

Hint: Touch the i.Terminal 2 tile (1) in order to change over to **Image capture** mode from i.Terminal 2 via iPad.
2.2 Positioning the customer

- First, carefully fit the customer with the selected frame.
- Ask the customer to put on his/her frame together with the centered calibration tool such as he/she would do so later.

The customer must be located in a visual distance from 50 cm to 100 cm from the i.Terminal 2 in a straight line in front of the device.

[Images of natural and unnatural postures]

Hint: Show the customer how to assume a natural, relaxed posture in front of i.Terminal 2. If the customer has difficulties in assuming a natural posture, ask him/her to stand next to the device and look straight ahead while you adjust the height of the device.

- Adjust the height of the camera by means of the button until the customer’s eyes focus the center of the rectangle. Accordingly, the frame and the calibration tool appear on the screen in the highlighted area.
- If the customer turns his/her head in an unnatural fashion, reposition the customer.

2.3 Taking the front image

- Ask the customer to focus the red cross.
- Touch Image capture to record the front image.

After capture has been triggered, an image or a series of images is captured automatically.

- Select the best of the photos taken and touch Next.
Checking the quality of the measurement

- Check that the red crosses coincide with the black-and-white calibration marks. Otherwise, take a new photo.

**Hint:** Touch Cancel to discard the photos and return to image capture mode.

Correct front image with calibration marks.

To measure the additional parameters Back Vertex Distance and Mounting Lens Angle, touch optionally Side image.

- If you do not want to perform this measurement on the side image, touch Next.
- Specify the manually measured back vertex distance (BVD) or accept a suggested value. Acknowledge by touching Apply.

Adjusting BVD

2.4 Taking side image

- Ask the customer to turn by 90° so that the calibration tool is visible and not covered by the white rectangle.
- Touch Image capture to record the side image. Once recording has been triggered, a photo is taken automatically.
- Touch Next.

Side image

Checking the quality of the measurement

- Check that the red crosses coincide with the black-and-white calibration marks. Otherwise, take a new photo.

**Hint:** Touch Cancel to discard the photos and return to image capture mode.

Now you have completed the image capture process.

Correct side image with calibration marks.

Now, i.Terminal 2 prepares the front and side images for acquisition of the centration data and changes over to Centration data acquisition mode.
3 Centration data acquisition

- Now you can start to evaluate the captured images to determine the individual centration data.

**Hint:** The handle is used in all steps to position the measuring marks.

3.1 Measuring back vertex distance and mounting lens angle

- Position the red mark on the front of the cornea using the handle.
- If the cornea is covered by the frame side piece, measure the back vertex distance manually.

- To measure the mounting lens angle, touch Wrap angle.
- Position the red measuring mark on the front side of the outer rim of the frame.

Measuring mark positioned

- Touch Next to continue.
3.2 Determining the centration point position

**Hint:** For evaluation, commence with the right eye. To facilitate detection of the pupil during centration, you can use the zoom and contrast feature (rotation feature), if required.

- Adjust the auxiliary frame for the frame via the handles so that all four lines are in contact with the inner edge of the frame.

![Adjusting auxiliary frame for spectacle frame](image1)

- To continue, touch **Next ▶**.

- Move the handle to adjust the measuring outline so that the circles are concentric to the pupil center (centration point).

![Auxiliary frame adjusted](image2)

- To continue, touch **Next ▶**.

3.3 Selection of the lens type, the frame type and activation of the autocorrect mode

- Adjust the pupil center analogously for the left-hand eye.

![Recording the lens shape](image3)

- You can record the shape of the lens at choice on the left or right side. To this effect, touch **Frame tracing**.

- Use the handle to adjust the form element to the inner contour of the lens shape.

![Lens shape recorded](image4)

**Hint:** Determination of the lens shape is useful in case lenses with optimized thickness are to be ordered (e.g. Optima).

- To continue, tap **Next ▶**.

The **Auto-y** dialog appears.

- In the following dialog, transfer the measured mounting lens angle or correct it manually.

![Auto-y dialog](image5)

**Hint:** The **Auto-y** dialog is only visible if the function Auto-y is activated.

- Acknowledge the appropriate position by touching **Apply**.

Select in the dropdown list **Lens type** or **Frame** the type of lens or frame.
- Using the handles displayed, correct, if necessary, the setting for the fitting height (y) and the progression length (Framefit).

Select lens type and lens frame and activate autocorrect feature Auto Correction.

- A slight rotation of the customer's head during image capture can be compensated via the autocorrect feature Auto Correction. To this effect, tick off.

Activating autocorrect feature

- To continue, tap Next.

- Select the raw glass shape via the dropdown list Type.

Determining the raw glass diameter

- Select the size of the raw glass via the Table Size. The selected size is symbolized by green rings.

To continue, tap Next.

The complete centering data are displayed.

Summary of centration data and frame data

Hint: Tap Back in order to perform any necessary corrections.
3.4 Saving, post-processing and printing results

- In the summary of the centration and frame acquisition data, tap **Save and exit** to save the centration data.

The data is saved and i.Com mobile returns to the **Centration** module. Centration is thus complete.

**Hint:** Tap the **Centration pictures** tile to re-start centration for the picture taken previously (front image).

**Hint:** For all subsequent steps and supplementary explanations, please refer to the Quick Guide i.Com mobile.