## Z CALC 2.2 Quick Guide

Toric \& non-toric IOL calculation and ordering with Z CALC ${ }^{\circledR}$


Seeing beyond

## Z CALC:

Z CALC is a software intended to support a user in selecting intraocular lenses by calculation of intraocular lens power and predicted residual refraction. Z CALC can also be used for IOL power calculations for patients with previous LASIK, LASEK and PRK treatments.

## The new Z CALC is compatible with the following browsers:

Microsoft Edge Version 18 or higher, Apple Safari Version 13 or higher, Mozilla Firefox Version 69.0 or higher (PC/ Mac), Google Chrome Version 76.0 or higher (PC/Mac), Internet Explorer Version 11, Google Chrome Mobile for Android Version 77.0 or higher and Apple Safari mobile 12.1 for iPhone/iPad Version 12.4 or higher.

## Preconditions for use:

Please ensure that your pop-up blocker is deactivated. For detailed instructions on how to deactivate the popup blockers, please review our Z CALC 2.2 Quick Guide Addendum. Before using the product, please consult the instructions for use.

## 1. Region Selection / Terms \& Condition / Data Protection



- Select region.
- Please read "Terms and Conditions of Use" and "Data Protection guidelines". Click both checkboxes.
- Click "Agree and continue".


## 2. Patient Information

## Patient Information

Enter patient ID (Please do not enter the patient's name!).Select whether or not patient has undergone a previous LASIK/LASEK/PRK laser vision correction procedure:

- LVC status must be selected for both eyes.
- If yes; be sure to enter whether myopic or hyperopic treatment has occurred.

3 Enter biometry examination date (optional).

## 3. Calculation Screen



5 Enter axial length from the patient's record. Select IOLMaster for measurements with an optical biometry device or immersion ultrasound. Select applanation for measurements with applanation ultrasound.

6 Enter the ACD from the patient's record and indicate if it has been measured from the epithelium or endothelium.

7 Please choose if you want to enter standard (K) Keratometry values or "Total Keratometry (TK)" values, if you want to use the TK values incorporating the posterior corneal curvature measurements from the IOLMaster 700.

8 Enter Flat Axis.

9 Enter the K- or TK-readings either in dpt or radii in mm.

10 Select the Refractive Index from the drop down menu.

11 Select Z CALC Nomogram*, if desired.

12 Insert target refraction, incision orientation and SIA for personalized calculation (optional).

13 Choose between toric or non-toric IOL calculation.

14 Select the desired IOL from the drop-down menu.

Click "Accept and calculate".

## 4. Result Screen

Standard Mode


Expanded Mode


A You may switch between "Standard Mode" or "Expanded Mode" by clicking the desired mode (top right corner).

- Standard Mode: Z CALC presents three calculations from which you may choose the most appropriate based on your requirements.
- Expanded Mode: You may vary Spherical Equivalent (SE) and cylinder powers (toric IOLs only) to review associated residual refraction and Effective Lens position (ELP).
* Mathematical compensation for the posterior corneal astigmatism (first implemented with v2.0).


## 5. IOL type selection



Choose between different IOL types from the dropdown menu from the generated readings.

Click on the "Add to wish list" button adjacent to the drop-down menu to transfer the result to the wish list.

M MICS (Micro Incision Cataract Surgery), suitable for 1.8 mm incision size

MP MICS (Micro Incision Cataract Surgery), suitable for 1.8 mm incision size \& Preloaded

MV MICS (Micro Incision Cataract Surgery), suitable for 1.8 mm incision size \& Violet and blue filtering (yellow)

P Fully Preloaded in injector

PY Fully Preloaded in injector \& Yellow blue-light filtering
"-" No variant
6. Navigate to the Wishlist/PDF-Printouts
 Click on Save as PDF button to save the selected results as PDF directly from the calculation screen.

17B Click on wish list button at the bottom. This will lead you to the second screen, where you can select lenses for ordering or PDF-print-outs.


OR

17C Click on the wish list symbol in the right upper corner, which will lead you to the same screen as the wish list button at the bottom of the page.

## 7. Create PDF printouts for selected IOLs or order via e-mail



18 Select the desired quantity for the IOL.

19A Click "Order by E-Mail" (to directly send your order to the local ZEISS sales representative).

OR

19B Click "Save as PDF" to create a PDF with the calculation results and ordering information of the selected IOLs in the wish list.

## 8. Order by e-mail or create PDF printouts



For Ordering


For Printing

## For Ordering:

- Enter all the relevant details including clinic name, department, address, phone number and email address (your local ZEISS partner's email address is filled in automatically based on your country selection).
- By hitting the "Send" button, an email with your order is sent out to the local ZEISS business partner (automatically filled based on your country selection).


## For Printing and/or manually faxing

- For saving as PDF, you don't need to enter your data (data entry is only required for direct ordering).
- Please just scroll down and click "Save", the PDFs will be created and open in a new tab window in your browser.

Note: Please ensure the pop-up blocker is deactivated in your browser. Otherwise please follow the instruction in the addendum: Z CALC 2.2 Quick Guide Addendum.


Clinic-specific information (Optional).

B Warning for patients with previous refractive surgery.

C Name and type of the lens.

D Formula and type of mesaurement (Keratometry or Total Keratometry).

Labeled values on the product package of the calculated lenses are highlighted with bold font and not labeled ones greyed out.

F Selected lenses from the wishlist for OD and OS.

G Eye schematic with main incision position and implant axis for toric IOLs.

H Anatomical position.

Based on the labeling of the selected lens, ordering relevant values are displayed bold.

OD: Oculus Dexter
OS: Oculus Sinister
OU: Oculus Uterque
LVC: Laser Vision Correction
SIA: Surgical Induced Astigmatism
Inc: Incision
AL: Axial Length
ACD: Anterior Chamber Depth
LT: Lens Thickness
WTW: White-to-White
K1 \& K2: Keratometry Values
TK1 \& TK2: Total Keratometry Values
n: Refractive Index
Cyl: Cylinder
ELP: Effective Lens Position

## 9. Start new calculation


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c Z CALC 2.2.0

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