

**EyeSuite™**

**i 8.0.0 and newer  
Connect to OKULIX**

**Tips & Tricks**

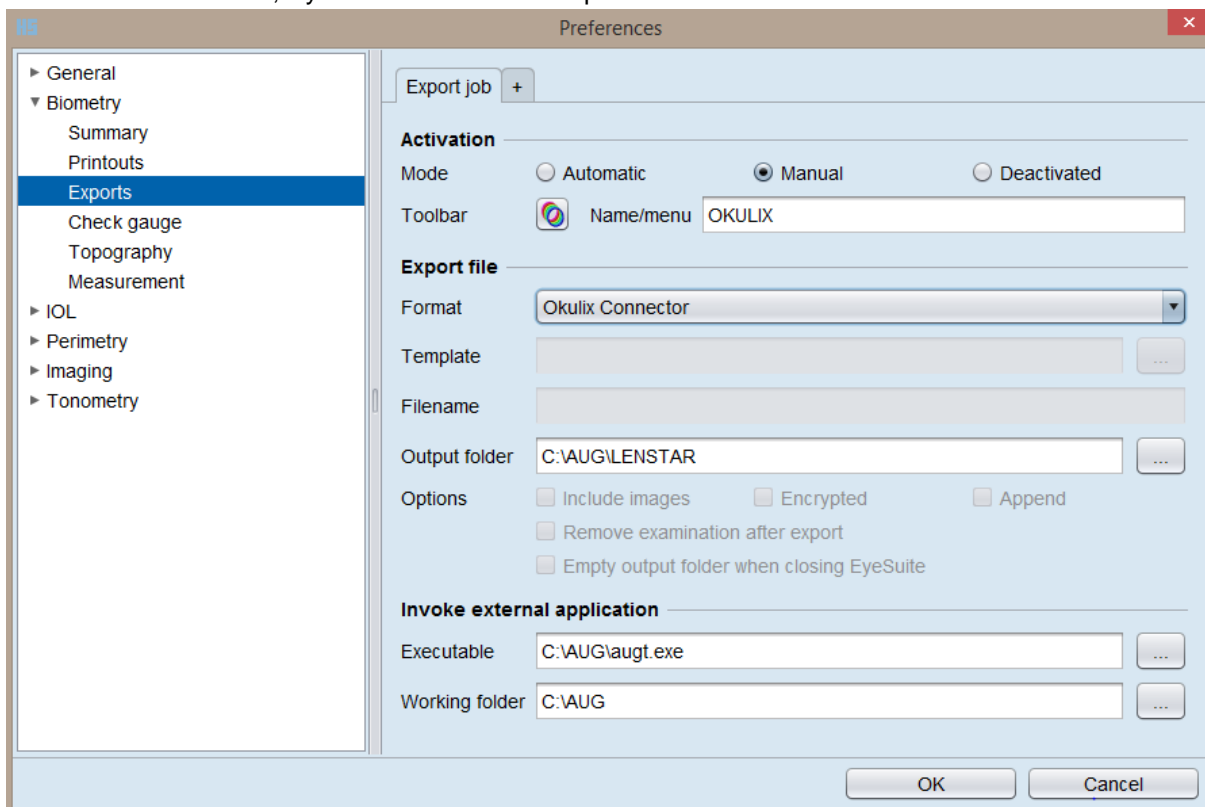
## Preface

EyeSuite is able to connect to third party IOL calculation software. In this case EyeSuite is acting as a pure provider of measurement data to the third party software. Haag-Streit is not liable for any output of the third party software.

OKULIX is a program package which calculates single rays exactly. The visual impression of extended objects (e.g. Landolt's rings) can be simulated by the superposition of many rays. Diffraction from the pupil aperture is taken into account additionally. Exactly in this context means, that the refraction of rays at each optical surface is calculated using Snell's law. For a single ray passing multiple surfaces the calculation cannot be performed by analytical formulae, because otherways so-called "transcendental equations" occur which are unsolvable for principal mathematical reasons. Instead of an analytical calculation OKULIX solves the problem by numerical methods. (Source: [www.okulix.de](http://www.okulix.de))

## EyeSuite settings for OKULIX

To connect to OKULIX, EyeSuite should be set-up as follows:



### Activation

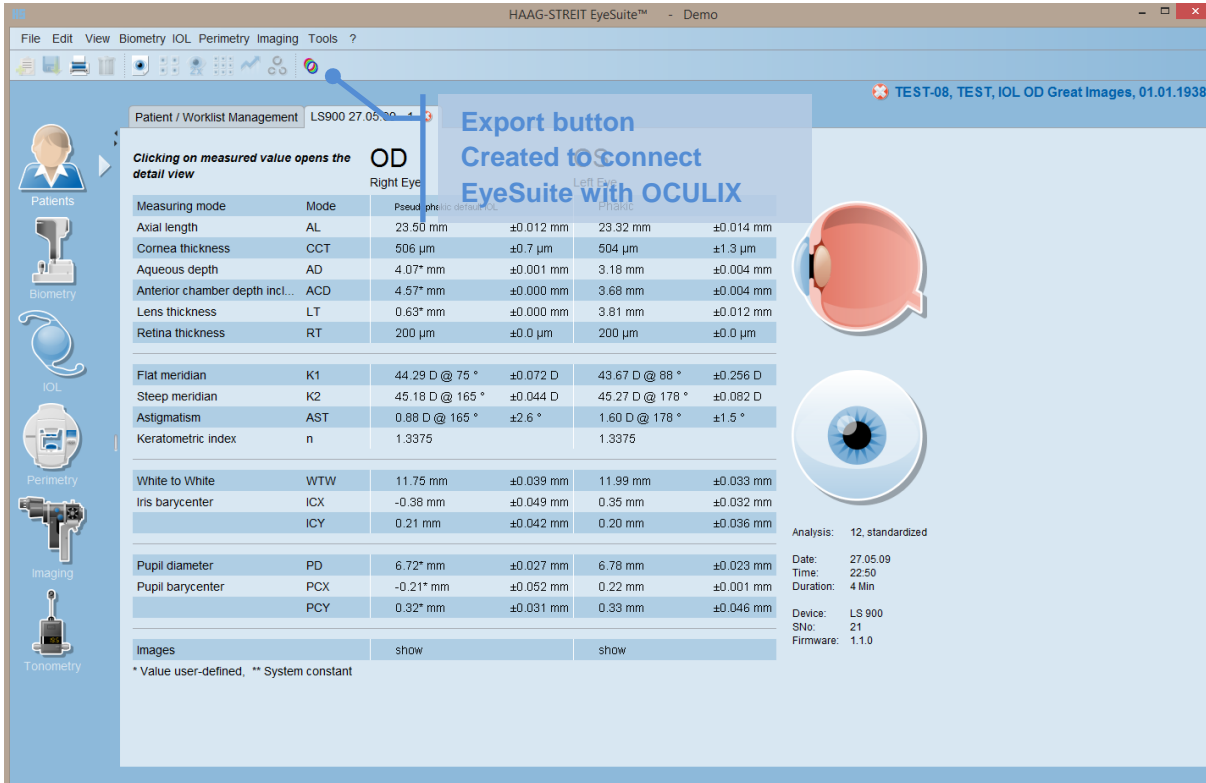
- Mode: Should be set to Manual
- Toolbar: Select the OKULIX Logo (\_Okulix.png) from the icons folder of the EyeSuite installation (e.g. C:\Program Files\Haag-Streit\EyeSuite\icons)
- Name/menu: Name the export OKULIX

### Export file

- Format: Select OKULIX Connector form the list. This is going to setup all parameters for direct connection to OKULIX.

## EyeSuite and OKULIX, how it works.

After setting up the manual export as described above an export button is going to be available in the measurement overview screen of EyeSuite to send the biometry data on display to OKULIX and start the OKULIX software.



The screenshot shows the HAAG-STREIT EyeSuite™ - Demo window. The main display area shows a table of biometry data for the Right Eye (OD). A blue callout box with the text "Export button Created to connect EyeSuite with OKULIX" points to a button in the top right corner of the data table area. The table contains the following data:

Measuring mode	Mode	Pseudophakic distance	Right Eye	Left Eye	Phakic
Axial length	AL	23.50 mm	±0.012 mm	23.32 mm	±0.014 mm
Cornea thickness	CCT	506 µm	±0.7 µm	504 µm	±1.3 µm
Aqueous depth	AD	4.07* mm	±0.001 mm	3.18 mm	±0.004 mm
Anterior chamber depth incl...	ACD	4.57* mm	±0.000 mm	3.68 mm	±0.004 mm
Lens thickness	LT	0.63* mm	±0.000 mm	3.81 mm	±0.012 mm
Retina thickness	RT	200 µm	±0.0 µm	200 µm	±0.0 µm
Flat meridian	K1	44.29 D @ 75 °	±0.072 D	43.67 D @ 88 °	±0.256 D
Steep meridian	K2	45.18 D @ 165 °	±0.044 D	45.27 D @ 178 °	±0.082 D
Astigmatism	AST	0.88 D @ 165 °	±2.6 °	1.60 D @ 178 °	±1.5 °
Keratometric index	n	1.3375		1.3375	
White to White	WTW	11.75 mm	±0.039 mm	11.99 mm	±0.033 mm
Iris barycenter	ICX	-0.38 mm	±0.049 mm	0.35 mm	±0.032 mm
	ICY	0.21 mm	±0.042 mm	0.20 mm	±0.036 mm
Pupil diameter	PD	6.72* mm	±0.027 mm	6.78 mm	±0.023 mm
Pupil barycenter	PCX	-0.21* mm	±0.052 mm	0.22 mm	±0.001 mm
	PCY	0.32* mm	±0.031 mm	0.33 mm	±0.046 mm

Additional information shown in the interface includes: "Analysis: 12, standardized", "Date: 27.05.09", "Time: 22:50", "Duration: 4 Min", "Device: LS 900", "SNo: 21", "Firmware: 1.1.0".

Click on the OKULIX button to transfer the biometry data displayed and starting OKULIX.