## **ZEISS IOLMaster 700**

## Next-generation optical biometer



Seeing beyond

The IOLMaster® 700 from ZEISS is based on SWEPT Source OCT and builds upon 20 years of experience in optical biometry.

## **Key benefits**

outcomes

- Start your workflow with more insights NEW
- Get fewer refractive surprises
- Optimize your workflow
- Improve your refractive outcomes



<b>Customer value</b>	Details
Start your workflow with more insights thanks to Central Topography	<ul> <li>Gain additional information and detect visually relevant asymmetries on central corneal shape</li> <li>No additional hardware needed</li> <li>No changes to the current workflow</li> </ul>
Get fewer refractive surprises	<ul> <li>Directly measure the posterior corneal surface with Total Keratomery (TK®)</li> <li>Detect unusual eye geometries and visually verify your measurement with the patented Cornea-to-Retina Scan</li> <li>Detect poor fixation with the unique Fixation Check</li> </ul>
Optimize your workflow	<ul> <li>Achieve a cataract penetration rate of &gt; 99% <sup>1</sup></li> <li>Measure both eyes in less than 45 seconds <sup>2</sup></li> <li>Use precise and efficient markerless toric IOL alignment <sup>3,4</sup></li> <li>Connect with EQ Workplace® and EQ Mobile® from ZEISS to streamline your cataract workflow from biometry, calculating and ordering IOLs to surgical planning</li> </ul>
Improve your refractive	■ Get indications for macular pathologies with the

Fixation Check 5,6,7

Keratometry

■ Distance and user independent Telecentric

- 1 R. Varsits, N. Hirnschall, B. Doeller, O. Findl; Increasing the number of successful axial eye length measurements using swept-source optical coherence tomography technology compared to conventional optical biometry; presented at ESCSR 2016
- 2 Depending on experience of operator and eye conditions.
- 3 Proof for "precise": Clinical data of Prof. Findl / Dr. Hirnschall presented at ESCRS 2013 - technically verified pre- / intraoperative matching precision ± 1.0° in mean.
- 4 Proof for "efficient": W. Mayer (2017). "Comparison of visual outcomes, alignment accuracy, and surgical time between 2 methods of corneal marking for toric intraocular lens implantation". JCRS, October 2017
- 5 Hirnschall N, Leisser C, Radda S, Maedel S, Findl O. Macular disease detection with a swept source optical coherence tomography based biometry device in patients scheduled for cataract surgery. JCRS VOL 42, APRIL 2016.
- 6 Bertelmann et al.; Foveal pit morphology evaluation during optical biometry measurements using a full-eye-length swept-source OCT scan biometer prototype; European Journal of Ophthalmology, Nov/Dec 2015.
- 7 Findings need to be verified and pathologies diagnosed with a dedicated retina OCT



ZEISS IOLMaster 700 screenshot showing biometry values, Cornea-to-Retina Scan image, Fixation Check image, Central Topography, Keratometry and Reference Image.

Measurement range/	Axial length 14 – 38 mm	
Repeatability	Corneal radii 5-11 mm	
	Anterior chamber depth 0.7 – 8 mm	
	Lens thickness 1 – 10 mm (phakic eye)	
	0.13 – 2.5 mm (pseudophakic eye)	
	Central corneal thickness 0.2 – 1.2 mm	
	White-to-white 8 – 16 mm	
Display scaling	Axial length 0.01 mm	
	Corneal radii 0.01 mm	
	Anterior chamber depth 0.01 mm	
	Lens thickness 0.01 mm	
	Central corneal thickness 1 µm	
	White-to-white 0.1 mm	
Interfaces	ZEISS EQ Workplace	
	ZEISS EQ Mobile	
	ZEISS FORUM® eye care data management system	
	ZEISS computer-assisted cataract surgery system CALLISTO eye	
	(via USB & FORUM)	
	Data interface for electronic medical record (EMR) / patient management	
	systems (PMS), Holladay IOL Consultant software and PhacoOptics®	
	Data export to USB storage media	
	Ethernet port for network connection and network printer	
Line voltage	$100 - 240 \text{ V} \pm 10 \text{ % (self sensing)}$	
Line frequency	50 – 60 Hz	
Power consumption	max. 150 VA	
Laser class	1	

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