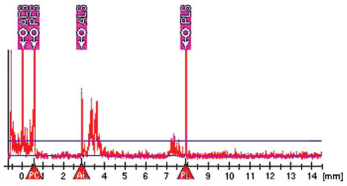
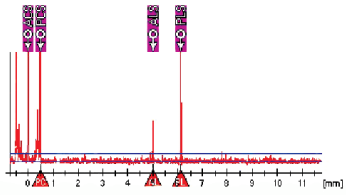
ACMaster–Precision Laser Interference Biometry for the Anterior Segment

- Best choice for refractive surgeons performing Lasik and IOL implantation
- Highly accurate corneal thickness measurement
- Anterior chamber and lens thickness measurement
- Monitor accommodative IOL position under variable stimuli
- Monitor Phakic IOL position
- Monitor intra-corneal IOL position
- IOP correction by corneal thickness

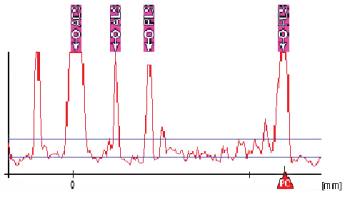
ZEISS



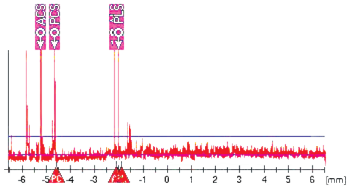
Crystalline lens – 60 year old patient



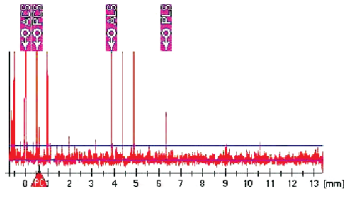
Pseudophakic IOL



Intra-corneal IOL



Intra-ocular contact lens



Accommodative IOL with 2 optics

Axial length measurements by means of laser interference biometry with the IOLMaster®, help in improving the refractive results and avoiding refractive surprises within the scope of cataract surgery. Highly-accurate anterior segment biometry is now possible with the same technology.

- Highest reproducibility for corneal thickness measurements delivers reliable pre-LASIK data (standard deviation of central measurements 1-2 µm).
- Corneal thickness can be centrally measured either on the optical or visual axis and decentralized on 40 additional points (max. 24 points from 0.5…3 mm diameter and 8 points each for 6 and 9 mm diameter).
- Exact anterior segment depth measurement on phakic and pseudophakic eyes aids during the implantation of lenses in the anterior chamber or sulcus.
- Measurement of the distances of IOL, crystalline lenses and corneas with near and far accommodation helps determine the distances from the anterior chamber lenses to the endothelial cells or from intra-ocular contact lenses to the crystalline lens, even in near accommodation – a plus in safety.
- Measurement of the positions of accommodative IOL with near and far accommodation helps to assess the accommodation characteristics of these lens models in each eye.
- Measurement of the position of intra-corneal IOL.
- Examination of structures in the crystalline lens and cornea.
- Various possibilities of researching human accommodation.
- Ideal for studies with new IOL models.
- Easily print or export your data.
- **Technical Data:**

Measuring ranges		
	Corneal thickness	200 ... 800 µm
	Anterior chamber depth	0.1 ... 6.5 mm
	Lens thickness	0.1 ... 9.5 mm
	White-to-White	8 ... 16 mm
Wavelength (SLD)		850 nm
Laser class		1

Investigational device. Limited by United States law to investigational use.
Not commercially available in the United States.

Cataract ▪
Glaucoma ▪
Retina ▪
Refractive ▪

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