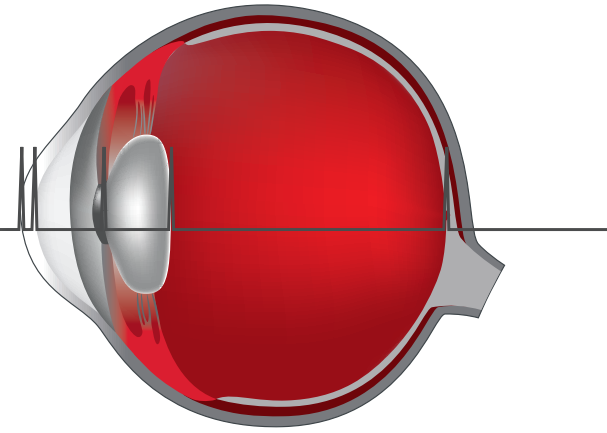
REFRACTIVE CATARACT

GALILEI G6 ColorZ

ziemer OPHTHALMOLOGY



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Proven technologies and resources

Optical Biometry
- State-of-the-art biometry measuring axial and intraocular distances in a single exam session
- Lens thickness and precise anterior and posterior corneal power maps for accurate next generation IOL planning[1]

Dual Scheimpflug Tomography
- Pachymetry and elevation data
- 3D anterior chamber analysis
- Ray-traced posterior corneal surface data to detect irregularities and asymmetries

Placido Topography
- Highly accurate anterior curvature data[2]
- Detection of anterior surface irregularities, asymmetries and tearfilm quality

1st Purkinje Alignment
- Measurement and map alignment on 1st Purkinje image (≈ visual axis) for detection of corneal asymmetries relevant to vision
- Comparing a series of consecutive measurements over time

Iris-based Eye Motion Compensation
- Small to moderate eye motions during the measurement cannot be prevented, especially in elderly patients or children
- The patented iris tracker compensates for eye motion through post-measurement rotational and translational adjustments

Toric IOL Calculator
- Barrett Universal II Formula with predicted and measured posterior surface
- Export functions to Holladay IOL Consultant & Surgical Outcomes Assessment and to PANACEA (both 3rd party software packages)

Color TopView Image
- A state-of-the-art TopView camera and HD monitor delivering a multi-layer image in vibrant colors and high contrast
- The TopView color image promotes intuitive, advanced diagnostics and will be the link to Ziemer's refractive laser suite

Connectivity
- Remote workstation
- EMR interface and DICOM compliance
- CSV reports
- Holladay II and PANACEA export

GALILEI G6 ColorZ

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Clinical applications

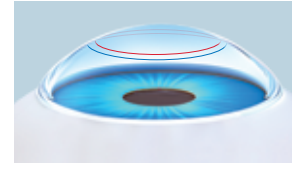
High confidence premium IOL selection

The GALILEI G6 ColorZ combines a comprehensive package of Barrett toric formulas with predicted and measured posterior K-values. Refractive IOL power is measured at the visual axis, which allows the cylindrical axis for toric IOL implantation to be determined. Wavefront data can be used to identify suitable patients for premium IOLs.

IOL selection for post-refractive cases

The GALILEI G6 ColorZ combines the actual refractive data of the anterior and posterior corneal surfaces with intraocular distances and axial length measurements. With this very comprehensive data set an exact ray-tracing of the eye can be performed to achieve accurate IOL power calculation in post-LASIK and very long or short eyes.[3]

In addition, the incorporated Shammas no-history formula for post-refractive cases enables a reliable IOL prediction even if no clinical history is available.[4]



1. Savini, Giacomo, et al.: „Accuracy of a dual Scheimpflug analyzer and a corneal topography system for intraocular lens power calculation in unoperated eyes." Journal of Cataract & Refractive Surgery 37.1 (2011): 72-76.

2. Martin R.: „Cornea and anterior eye assessment with placido-disc keratoscopy, slit scanning evaluation topography and scheimpflug imaging tomography." Indian J Ophthalmol. 2018;66(3):360-366.

3. Savini, Giacomo, et al.: „Intraocular lens power calculation using a Placido disk–Scheimpflug tomographer in eyes that had previous myopic corneal excimer laser surgery." Journal of Cataract & Refractive Surgery 44.8 (2018): 935-941.

4. Shammas HJ, Shammas MC (2007). "No-history method of intraocular lens power calculation for cataract surgery after myopic laser in situ keratomileusis." Journal of Cataract and Refractive Surgery 33(1):31-36.

Disclaimer: The GALILEI G4 ColorZ and the GALILEI G6 ColorZ are CE marked and FDA cleared. For some countries, availability may be restricted due to regulatory requirements. Please contact Ziemer for details.

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