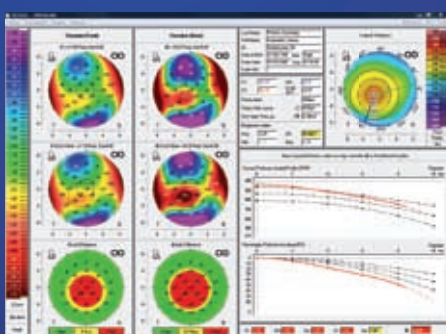


Holladay Report and Holladay EKR Detail Report

The Holladay Report was developed in collaboration with Jack T. Holladay, M.D. It supplies data for calculating the optimal IOL refractive power in patients who have undergone refractive corneal surgery such as LASIK, PRK and RK. The Holladay Report calculates the true relationship of the posterior to the anterior corneal surface. The overall refractive power of the cornea is calculated and described using EKRs (equivalent keratometer readings) in various zones.

Applications:

- Comprehensive display of comparative clinical data
- EKRs (equivalent keratometer readings) for IOL calculations in post-refractive patients

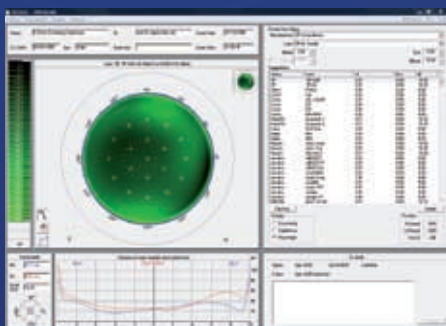


Belin/Ambrosio Enhanced Ectasia

The Belin/Ambrosio display is the first screening tool to represent elevation data of the anterior and posterior corneal surface in combination with an evaluation of the corneal thickness map. In addition to its overall more precise keratoconus detection this screening facilitates early detection in particular. The distribution of corneal thickness is determined using concentric rings, starting at the thinnest point and extending to the periphery. The evaluation of deviations from the standard elevation map and the expanded elevation map is made easier by the results being displayed in green, yellow and red: green indicates for inconspicuous, yellow for conspicuous and red for a potentially pathological condition.

Applications:

- Extremely sensitive early keratoconus detection and evaluation
- Reliable detection of a forme fruste keratoconus

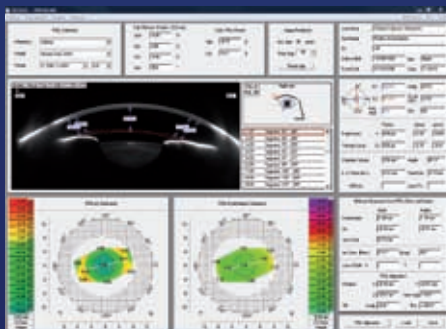


Contact lens fitting

Dynamic fluo image simulation produces an image of how a specific contact lens from the database fits on the eye. The simulation makes it possible to adjust inclination and to shift the contact lens while automatically making a new fluo image calculation. The integrated and expandable database contains over 65,000 lenses. The contact lens geometries can be adjusted individually in cases where fitting is difficult. The user can establish his or her own ranking list for contact lens manufacturers.

Applications:

- Automatic display of all measurement data required for fitting contact lenses
- Automatic suggestions for contact lenses
- Realistic fluo image simulation
- Integrated, expandable database with over 65,000 lens geometries



3D pIOL simulation software (HR Only)

The examiner enters the data on the patient's subjective refraction. Depending on the type of lens in question, the software calculates the necessary refractive power of the pIOL. The examiner selects a phakic IOL from the current database accordingly. The position of this pIOL in the anterior chamber is calculated in 3D and displayed in Scheimpflug images. The minimal distances between the phakic IOL and the crystalline lens as well as between the pIOL and the endothelium are calculated automatically and represented both in colour and numerically. This enables the examiner to give the patient visual information and facilitates patient selection.

Applications:

- Pre-surgical planning of an iris-supported phakic anterior chamber lens
- Simulation of the post-operative position of the phakic anterior chamber lens
- Simulation of age-related lens growth and the position of the anterior chamber lens resulting from this