



OCULUS PENTACAM

The Pentacam is the most impressive innovation in corneal scanning instrumentation that the ophthalmic industry has ever seen. The Burwood branch of Primary Eye Care is privileged to be the first Optometric centre in Australia to incorporate this extraordinary bit of technology:

The Pentacam utilises a rotating Scheimpflug camera which captures images of the anterior segment of the eye.

The key advantage of the rotating imaging process is the precise measurement of the central cornea, the correction of eye movements, the easy fixation for the patients and the extremely short examination time.

The Pentacam calculates a three dimensional mathematical model of the anterior segment to provide the following information:

- anterior and posterior corneal topography and elevation maps (Fig 1)
- corneal pachymetry from limbus to limbus
- 3D-chamber analysing (Anterior Chamber Depth -map, chamber angle, chamber volume etc.) (Fig 2)
- lens density (quantification of the light transmittance of the crystalline lens and IOL's)
- tomography
- improved IOL-calculation for post LASIK, PRK and RK patients.

The Pentacam is the optimum analyser for:

- corneal refractive surgeons
- cataract refractive surgeons
- glaucoma screening
- general optometric primary care screening

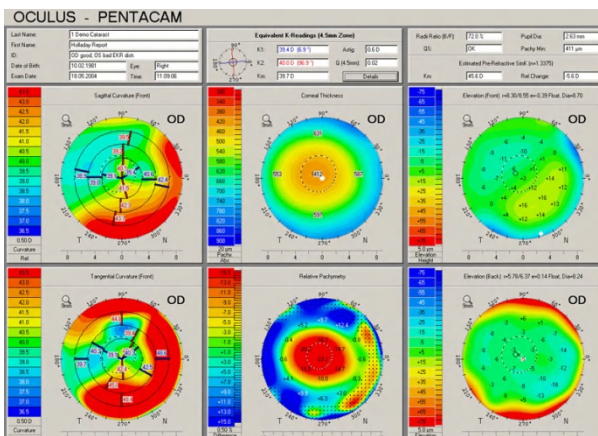


Fig 1

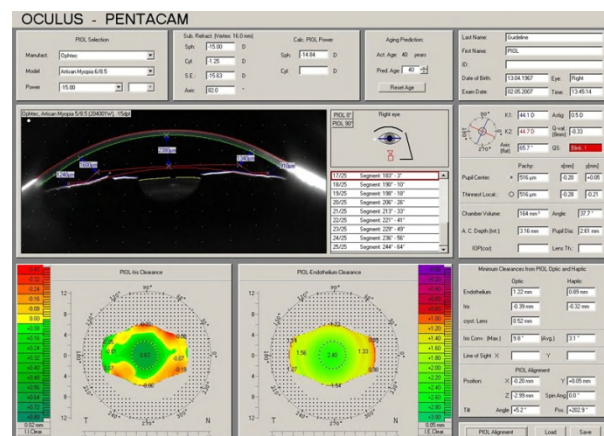


Fig 2