



Scansys Anterior Segment Analyzer

TA 517

The Third Pole

Scansys

Anterior Segment Analyzer

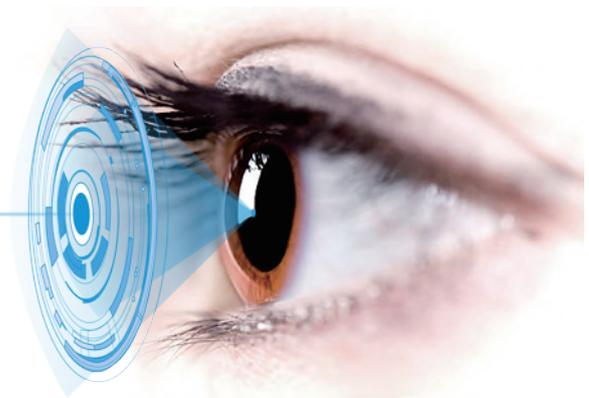
Scansys analyzer provides a professional solution for anterior segment diagnosis. The device applies Scheimpflug camera which can collect 107520 data points and generates 28 cornea tomography images in high resolution. Scansys can provide a series of topography maps including cornea curvature maps, cornea thickness maps, cornea elevation maps, etc. It provides good assistance to clinicians in anterior segment diagnosis. Meanwhile, Scansys also provides chamber angle analysis, anterior chamber depth, anterior chamber volume, etc. It facilitates clinicians in glaucoma disease diagnosis.

Software Functions:

Cornea Tomography
Cornea Data Overview
Cornea Curvature Maps
Cornea Thickness Maps

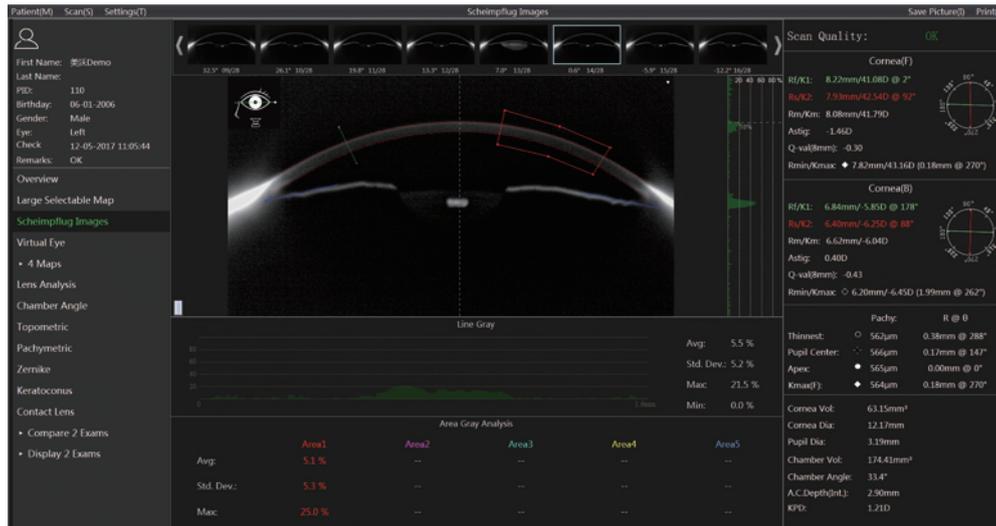
Cornea Elevation Maps
Cornea Refractive Power Maps
Chamber Angle Analysis
Zernike Analysis

Lens Density Analysis
NEW Lens Fitting Analysis



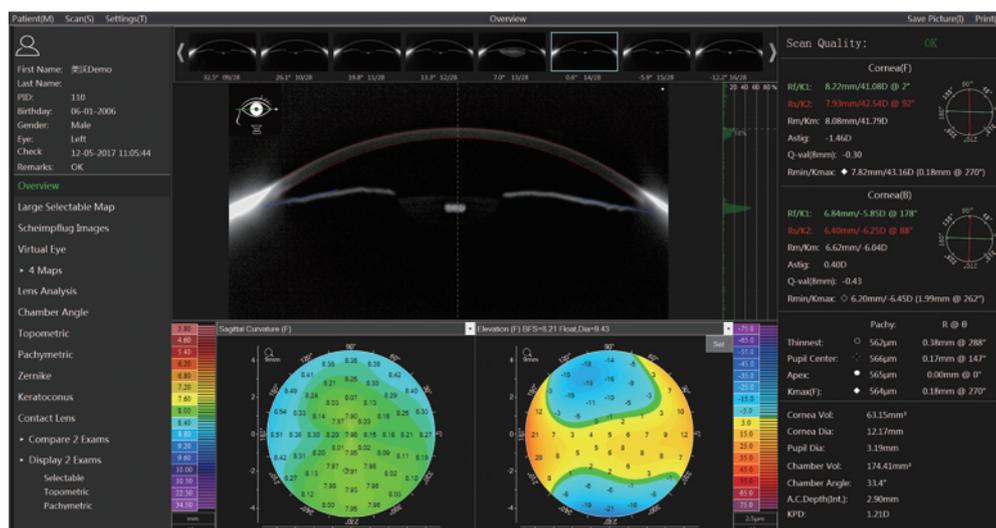
Analytical Functions Introduction

Anterior Segment Tomography

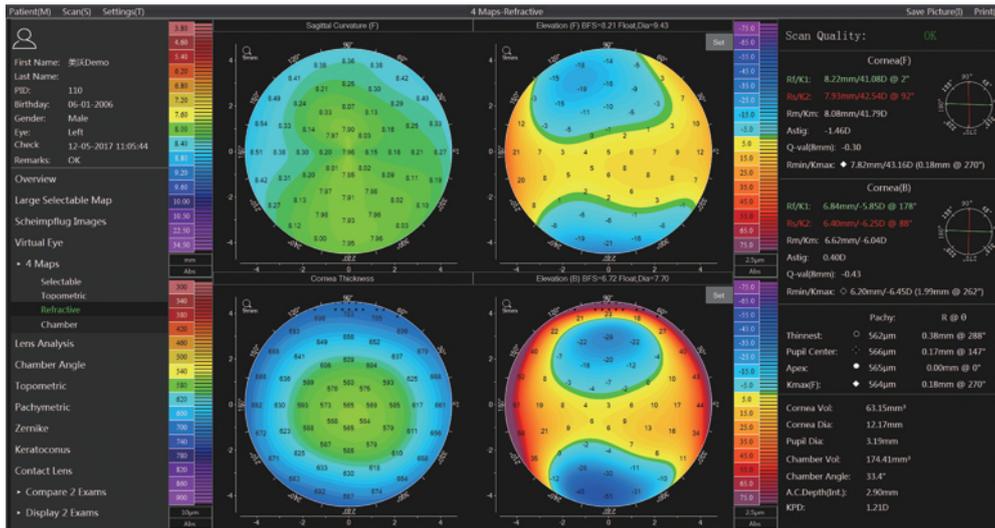


The cornea tomography images shot by Scheimpflug camera can give a general understanding to clinicians about patients' cornea conditions. As can be seen from above, the image displays whole anterior segment (from limbus to limbus). The clinician can evaluate the patient's ACD and see if the shape of the iris is normal. Meanwhile, Scansys can calculate the density of selected area to help clinicians to see if the patient's has opacity in the lens.

Cornea Data Overview

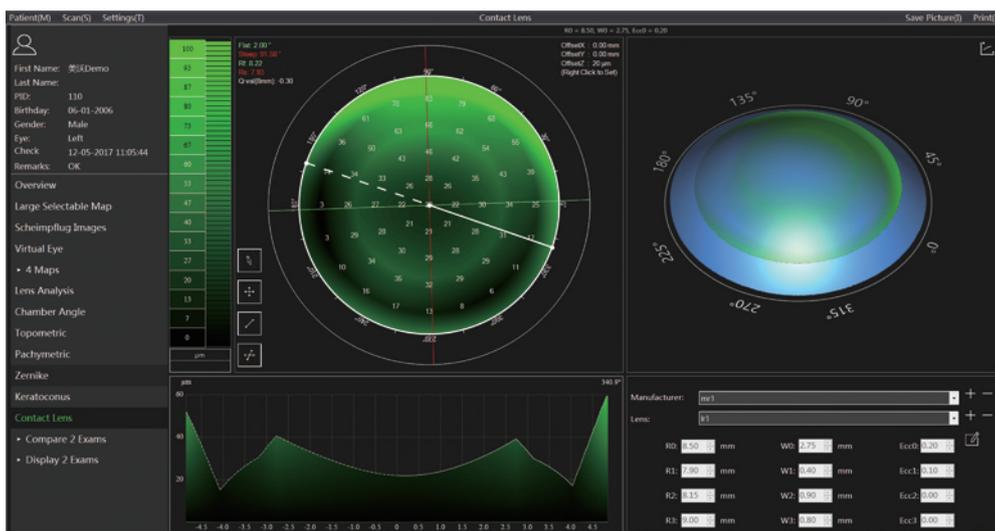


4 Maps Refractive



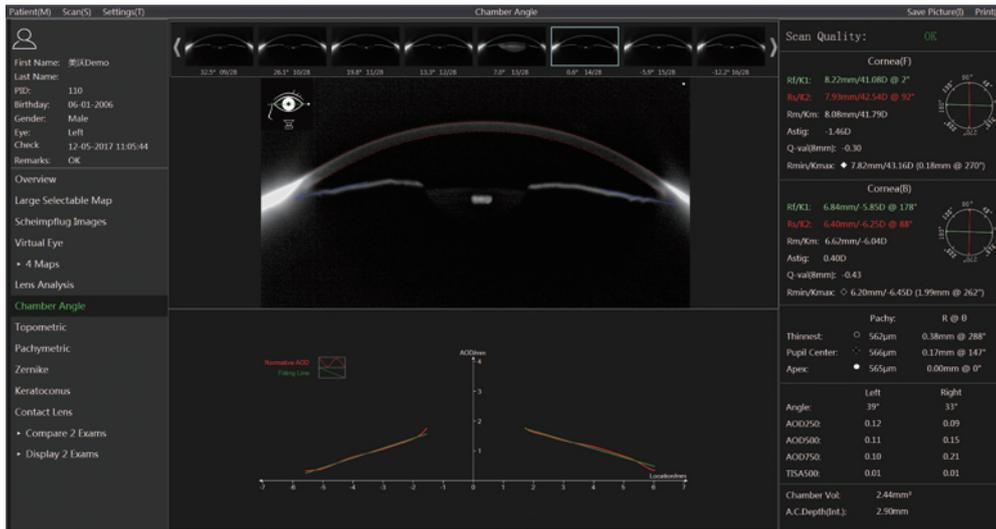
The refractive maps shows sagittal curvature maps for front cornea, and elevation maps for front and back cornea as well as cornea thickness map and other parameters for cornea such as steep K value, flat K value, cornea apex thickness, pupil center position and thinnest position for cornea thickness. These data are helpful in most of the cornea disease screening, especially for keratoconus.

Lens Fitting Analysis



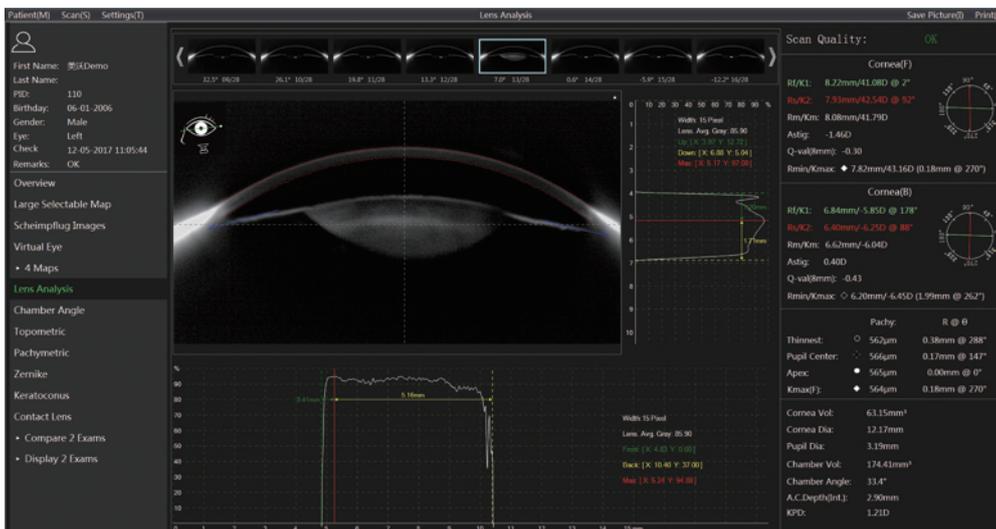
Based on the topography maps generated by Scansys, the system can recommend several lenses suitable for patient's cornea and simulate the images of patient's wearing lenses with fluorescein observed by slit lamps. This will accelerate the work flow of lens fitting and save the trouble for patient to accept real fluorescein during lens fitting.

Chamber Angle Analysis



Scansys can calculate a chamber angle value based on the tomography images and its exclusive AOD graph gives a trend analysis for the distance between cornea back surface to iris. It also provides cornea volume, anterior chamber volume and anterior chamber depth calculation. These analyses is helpful to glaucoma diagnosis.

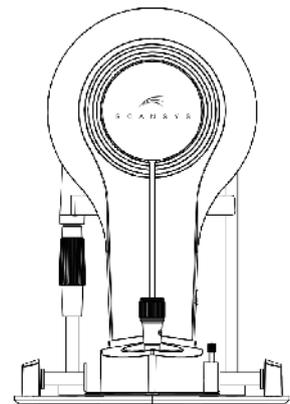
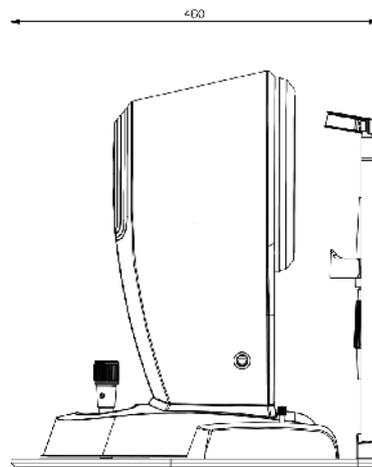
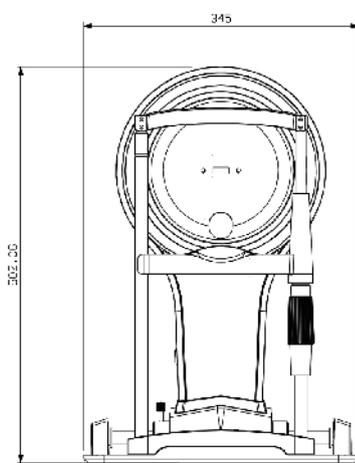
Lens Density Analysis



Scansys calculates the lens density value for cross section and longitudinal section which is helpful in cataract diagnosis.

Technical Specification

Camera	Scheimpflug digital CCD camera
Light Source	LED slit
Scanning Speed	28 images within 1 second
Data Points	107520
Dimension	505 × 345 × 460mm
Weight	11.3Kg
PC Configuration	Core(TM)i5, Windows* 10, 8GB RAM VGA graphic card 1920*1080 true color, Gigabit Ethernet, USB interface
Accuracy	± 0.1D
Consistency	± 0.1D
Working Distance	80mm



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