



Scansys Anterior Segment Analyzer TA 517

The Third Pole, From The East

Scansys

Anterior Segment Analyzer

Scansys analyzer provides a professional solution for anterior segment diagnosis. The device applies Scheimpflug camera which can collect 107520/230400 data points and generates 28/60 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. Scansys support in any Angle to collect a high – definition picture, to provide effective data support for ICL surgery. 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

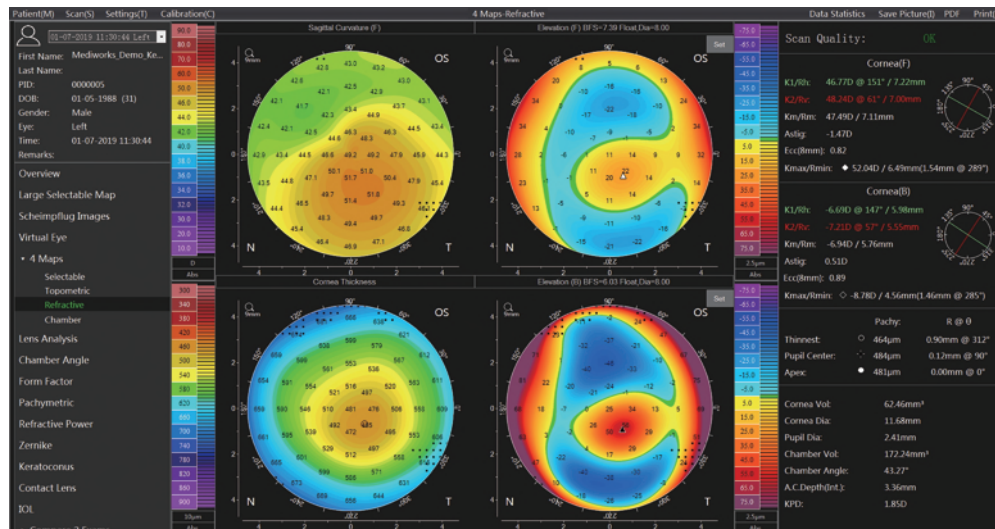
Lens Density Analysis

NEW Lens Fitting Analysis



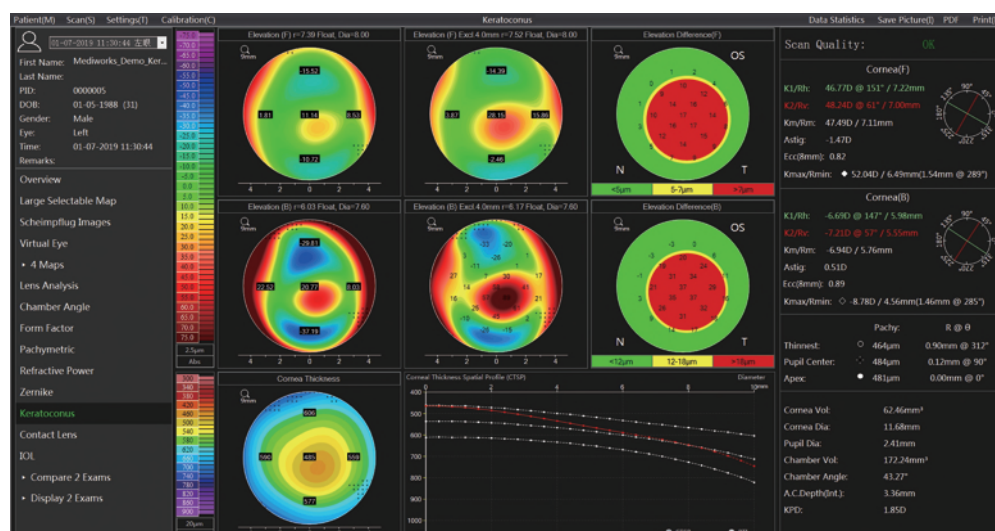
Analytical Functions Introduction

4 Maps Refractive



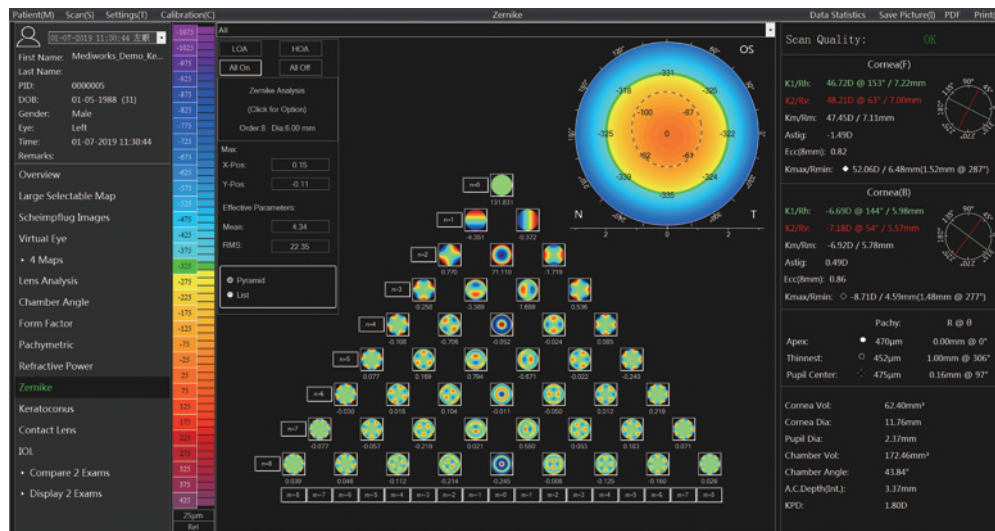
The refractive maps show sagittal curvature maps for front cornea, and elevation maps for front and back cornea as well as cornea thickness map and other parameters for cornea such as steep K value, flat K value, cornea apex thickness, pupil center position and thinnest position for cornea thickness.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

Keratoconus Diagnostic



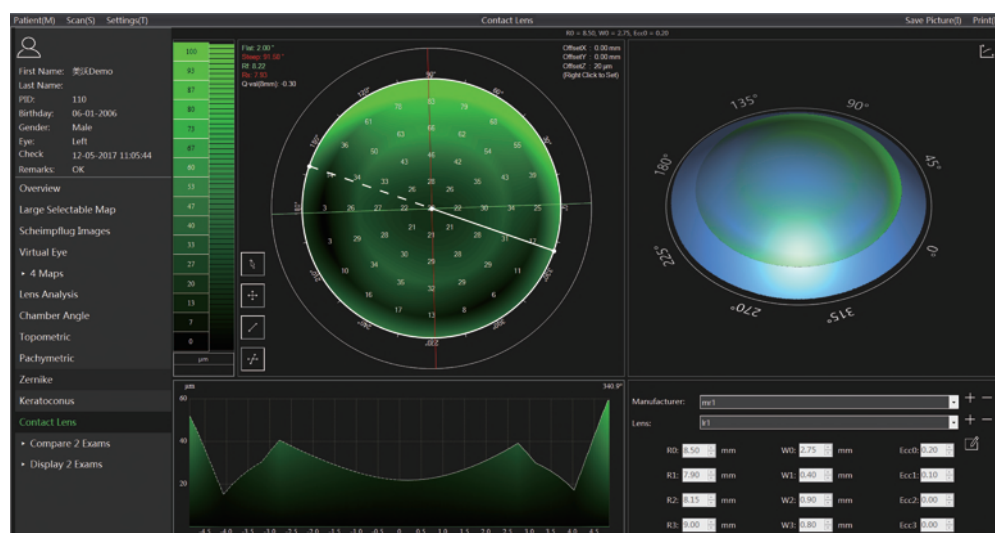
The elevation difference was used as the diagnostic basis of keratoconus. The normal human eye has a small difference and is distributed within the green threshold. If the shape of the cornea is irregular or has a keratoconus condition, the height difference data around the thinnest point of the cornea will fall within the red threshold and serve as a reminder of keratoconus.

Zernike Analysis



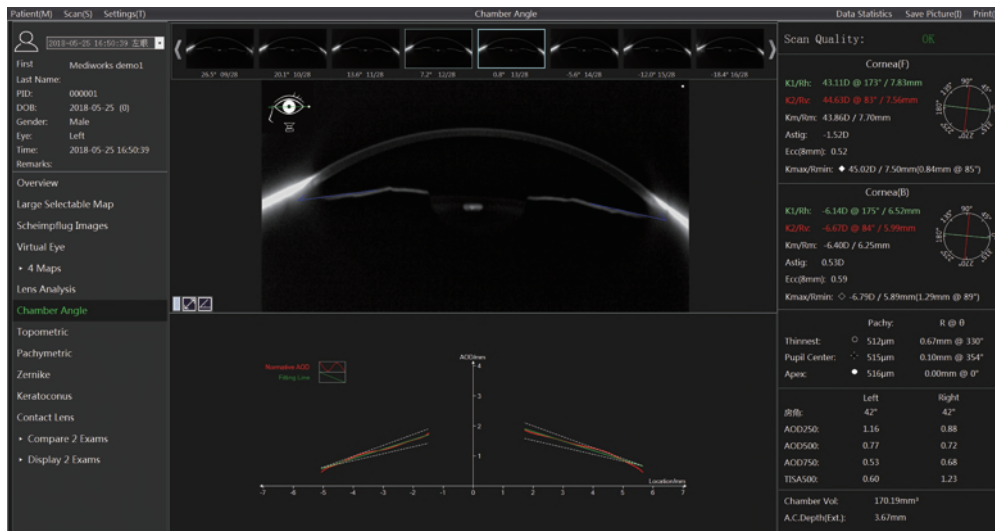
This view is a Zernike analysis of the measured corneal front, back and all surface height data, which calculates a factor for each Zernike polynomial term that describes the contribution of this polynomial to the height data. To guide the visual quality analysis of refractive surgery.

Lens Fitting Analysis



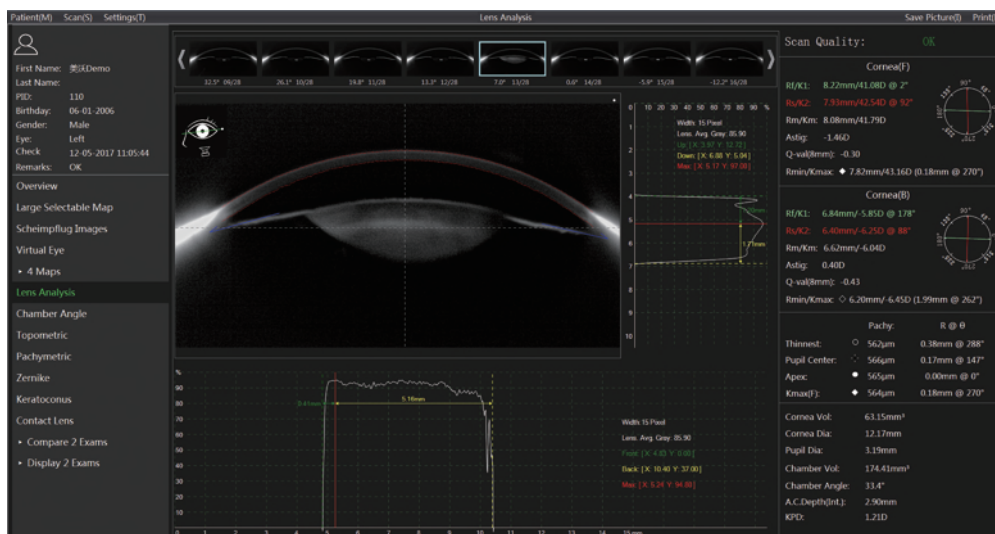
Based on the topography maps generated by Scansys, the system can recommend several lenses suitable for patient's cornea and simulate the images of patient's wearing lenses with fluorescein observed by slit lamps. This will accelerate the work flow of lens fitting and save the trouble for patient to 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	Digital infrared camera + Scheimpflug digital CCD camera
Light Source	LED slit
Scanning Speed	28 images within 1 second/ 60 images within 2 second/ single image
Data Points	107520/230400
Work distance	80 mm
Corneal topography	9mm/12mm
Corneal thickness	300–900 μ m
Anterior chamber depth	0.8–6 mm
Diopter	12–72 D
White to white	6–14 mm
Pupil diameter	1–10 mm
Anterior chamber volume	15–300 mm ³
Chamber angle	16–60 °

Work Range

Front and back	110 mm
Left and right	100 mm
Up and down	30 mm

Power Supply

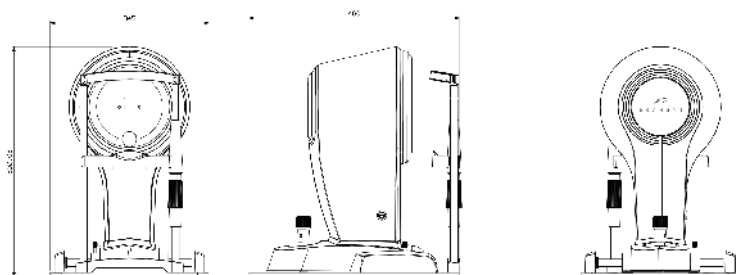
Input voltage	220v/110v \pm 10%
Input frequency	50Hz/60Hz
Power consumption	2.4 W

Weight and Size

Device dimension	505*345*460 mm
Device weight	12 KG
Package dimension	660*570*700 mm
Package weigh	25 KG

System Specifications

PC configuration	i5–8500T 8G 1T+128G 2Gdiscrete graphics
Display	1920 \times 1080 23.8inch
PC system	Windows 10



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