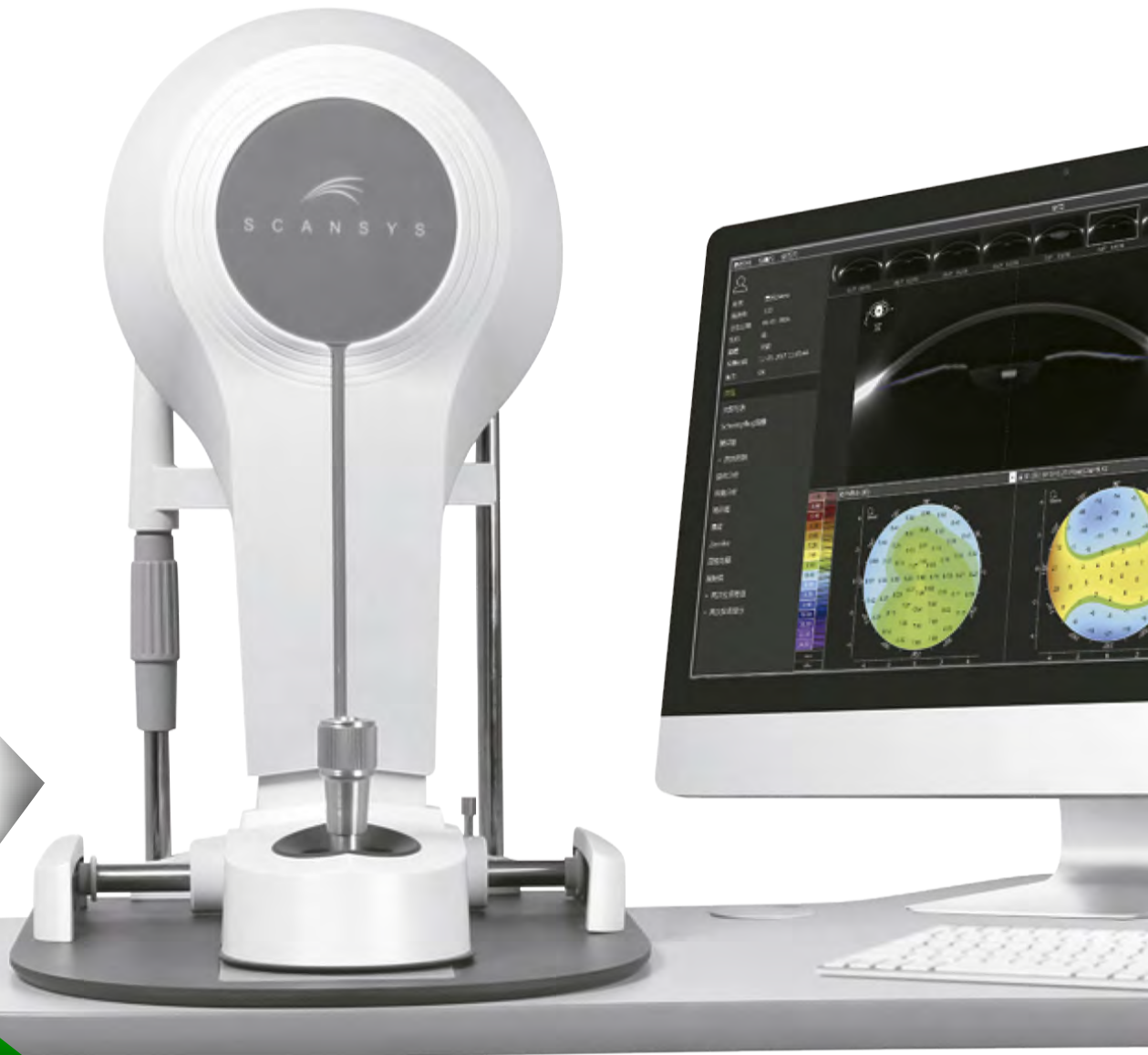


# Anterior Segment Analyzer

**SCANSYS**



**Hans Heiss**



**OFFICIAL DISTRIBUTOR**  
**MERCOFRAMES OPTICAL CORP**

5555 NW 74 Ave. Miami, FL 33166. United States

Phone: 305-882-0120

[sales@mercoframes.net](mailto:sales@mercoframes.net)

[www.mercoframes.com](http://www.mercoframes.com)

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
- Lens Fitting Analysis <sup>NEW</sup>



# ANALYTICAL FUNCTIONS INTRODUCTION

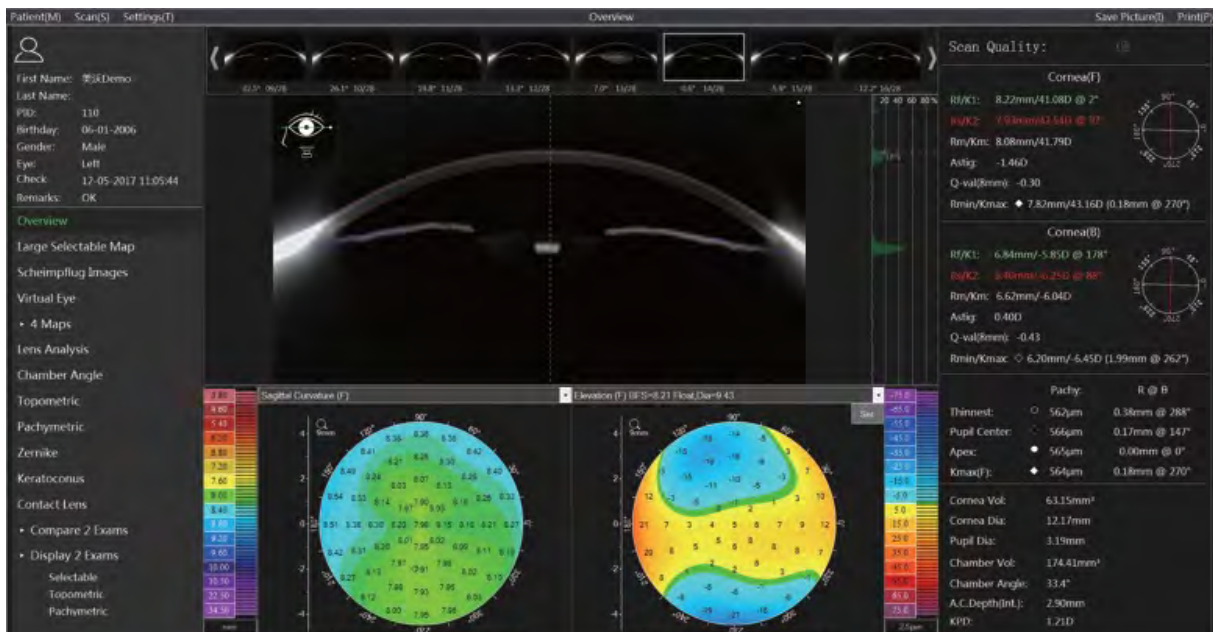
## Anterior Segment Tomography

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

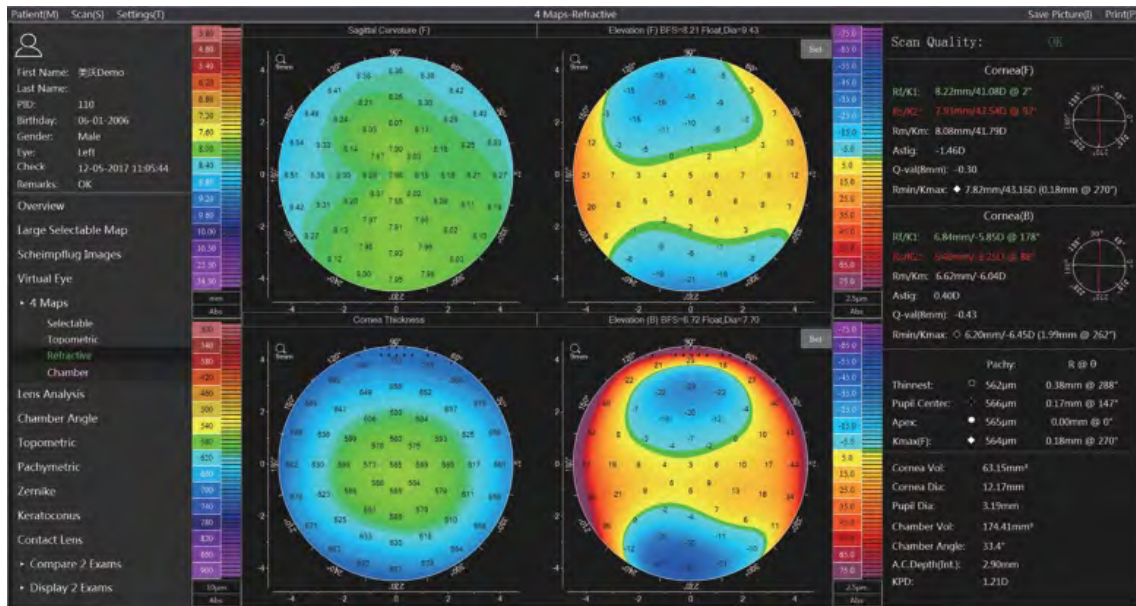
Based on the images shot by Scheimpflug, Scansys can calculate a series of cornea data such as K value for front and back cornea, curvature values, etc to help clinicians has a further understanding of patient's cornea conditions.



4 Maps Refractive

The refractive maps shows sagittal curvature maps

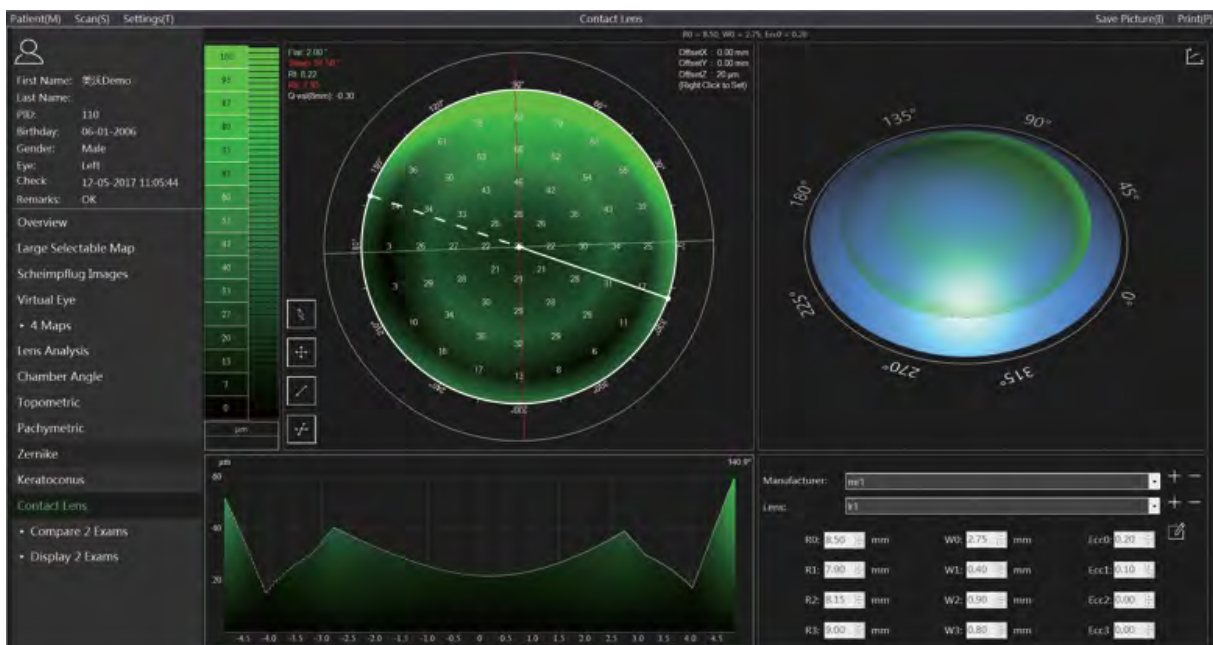
for front cornea, and elevation maps for front and back cornea as well as cornea thickness map and other parameters for cornea such as steep K value, flat K value, cornea apex thickness, pupil center position and thinnest position for cornea thickness. These data are helpful in most of the cornea disease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



Lens Fitting Analysis

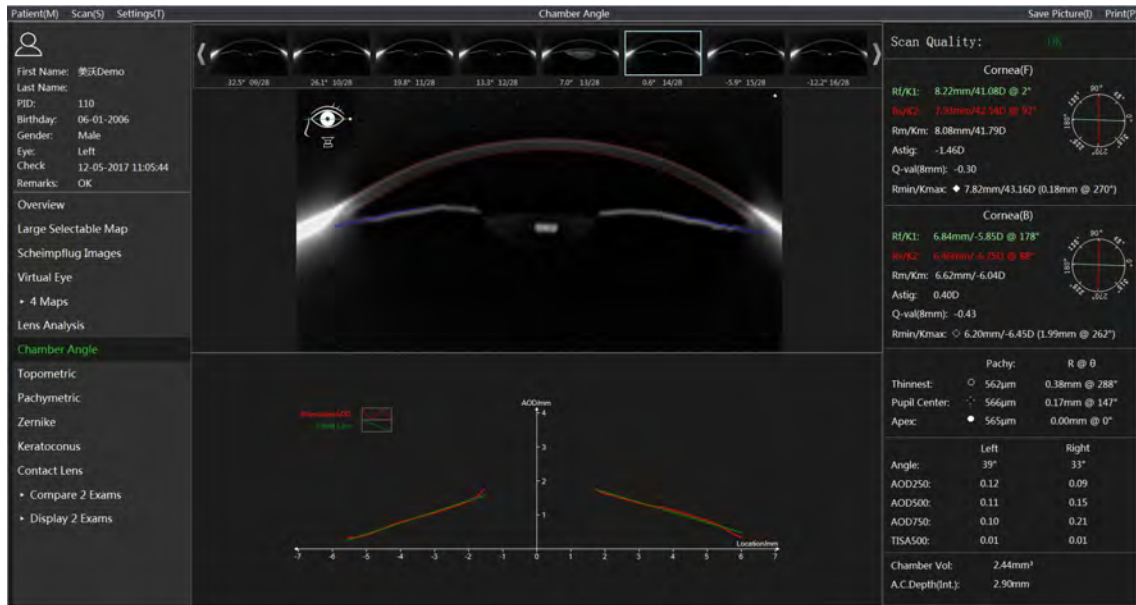
Based on the topography maps generated by

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 SPECIFICATIONS

|                  |  |
|------------------|--|
| Camera           | Cheimpflug 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<br>VGA graphic card 1920*1080 true color<br>Gigabit Ethernet, USB interface |
| Accuracy         | ± 0.1D   |
| Consistency      | ± 0.1D   |
| Working Distance | 80mm   |

