



Colombo IOL **Optical Biometer**

The **New Generation** Optical Biometer



**WORLD'S
FIRST**
biometer with
real-time & auto
fixation check

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Colombo IOL

Based on the PCT patented technology, the Colombo IOL is the first and only optical biometer that provides 4 mm real-time OCT imaging of the cornea and retina simultaneously during the acquisition, which allows real-time fixation check, retinal screening, and choroidal thickness analysis.

The Colombo IOL measures up to 8 parameters in a single scan, including AXL, CCT, keratometry, ACD, WTW, pupil size, RT (retinal thickness), SFChT (subfoveal choroidal thickness).

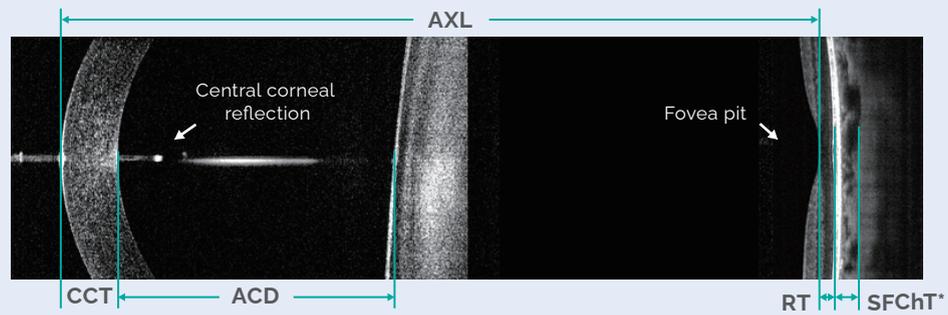


UNIQUE FEATURES

Automatic Real-time Fixation Check

1

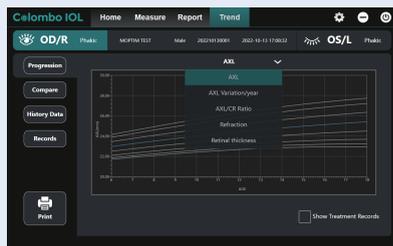
Correct fixation is the key to accurate AXL measurement. However, since children are less cooperative, it is more likely to get fixation loss. The Colombo IOL provides **automatic real-time fixation check**. Incorrect measurements caused by undetected poor fixation will be eliminated automatically to ensure the measurements are consistently repeatable.



The Colombo IOL provides trend analysis of important parameters in myopia management, such as axial length, AXL variation, AXL/CR ratio, etc. The software incorporates the **normative growth curves** of Asian school-aged children^[1], making data interpretation and patient education easier.

Myopia Progression Analysis

2



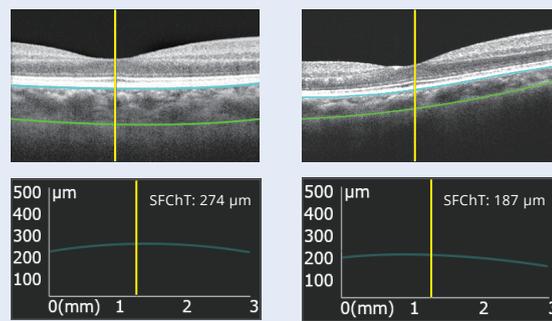
Progression Analysis



Comparison Analysis

Choroidal Thickness Analysis*

3



Normal eye (0.0D)

Myopic eye (-6.50D)

Studies have found that choroids are thinner in longer, more myopic young adult eyes^[2]. The findings suggest that **choroidal thickness** should be evaluated in myopia management.

The Colombo IOL provides HD OCT images and measurement of SFChT for deep study in choroidal layer in myopic eyes.

[1]Public Health Ophthalmology Branch of Chinese Preventive Medicine Association. Zhonghua Yan Ke Za Zhi. 2022;58(2):96-102. doi:10.3760/cma.j.cn112142-20210603-00267

[2]Harb E, Hyman L, Gwiazda J, et al. Choroidal Thickness Profiles in Myopic Eyes of Young Adults in the Correction of Myopia Evaluation Trial Cohort. Am J Ophthalmol. 2015;160(1):62-71.e2. doi:10.1016/j.ajo.2015.04.018

*The automatic analysis of choroidal thickness is an optional software feature.