OCT2020

New generation, upgraded OCT

执鼎医疗
ZD MEDICAL

ZD Medical

ZD Medical focuses on research, manufacturing and sales of high end ophthalmic devices, with China FDA, CE and ISO13485 certificated. We have complete research center, production center and sales team.

Adhering to the idea of innovation, ZD Medical strives to be a leading company in China and a trusted partner of the hospitals. Our mission is to provide patients with an international, high-quality, cost-effective ophthalmic diagnosis and treatment platform, and thus make due contributions to human health.

OCT2020 is a new generation OCT, with upgraded function, clear image and smooth system. It is equipped with professional analysis software to accurately identify retinal diseases, help screen and reduce the missed diagnosis of the initial examination, which can greatly improve the clinical use efficiency.

HD

High-definition lens for
easier access to lesion details

Optical Coherence Tomography
OCT2020

OCT2020 from ZD Medical uses LSLO technology, with up to 2.65mm scan depth, and the lateral resolution of retinal fundus image is up to 5μm. Equipped with professional analysis software, OCT2020 can obviously show the macular thickness under the macular thickness analysis model, which helps accurately identify clinical macular diseases.

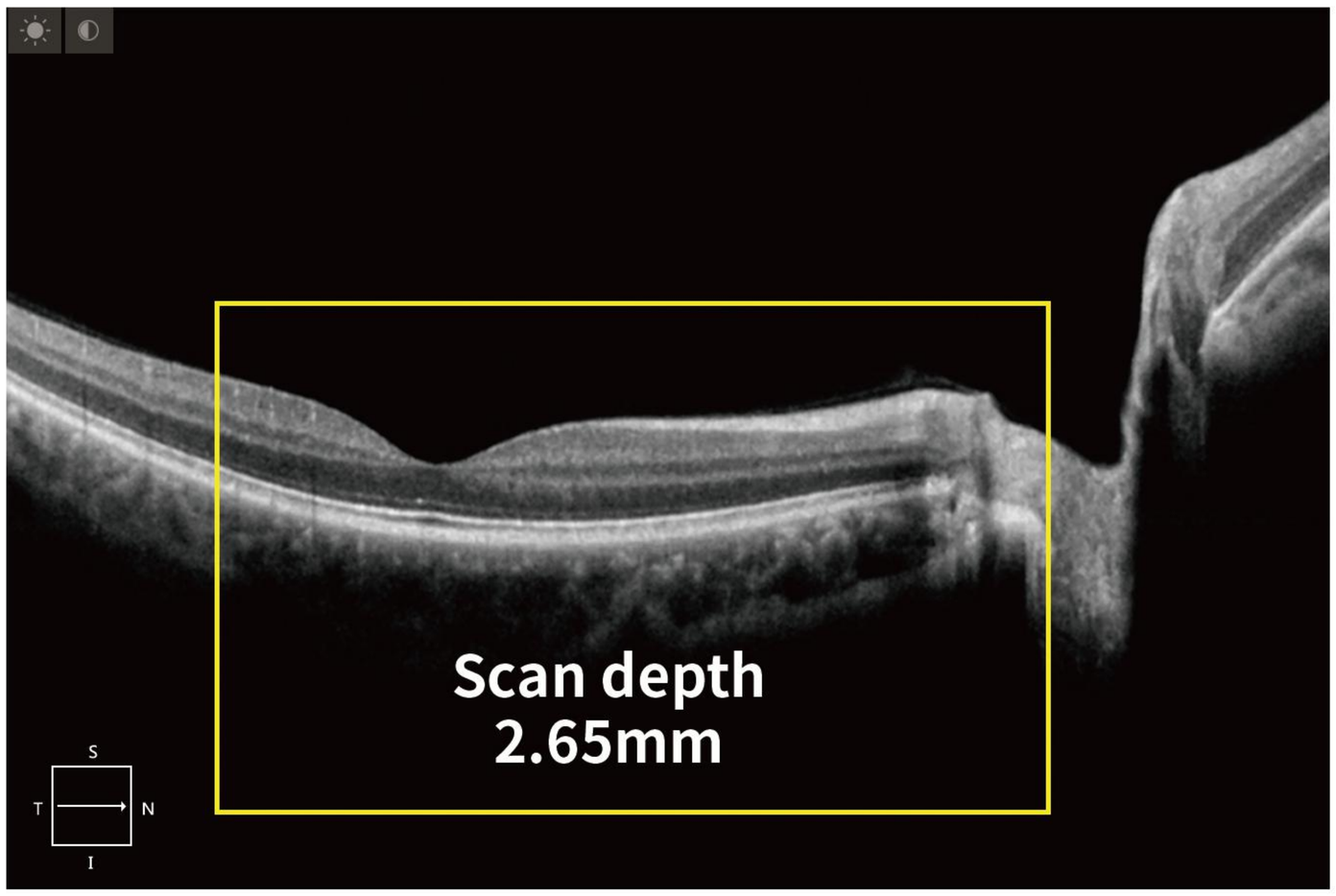
Deep to the Bottom of Fundus

The scan depth is up to 2.65mm, reaching to the choroid and even the sclera. Fully display of all layers during one scan.

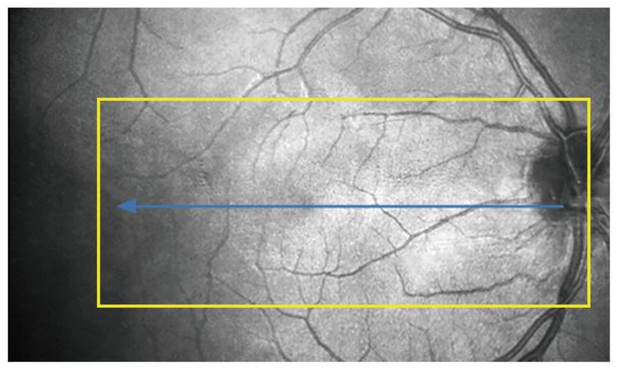
The scan depth (imaging depth) is one of the most important performance parameters in the OCT system. OCT2020 has an obvious advantage in depth, that is, the choroid imaging is clearer without affecting the axial resolution. It has significant advantages for fundus diseases involving high depth and high resolution, such as choroid disease diagnosis.

Wide to the Edge of Vision

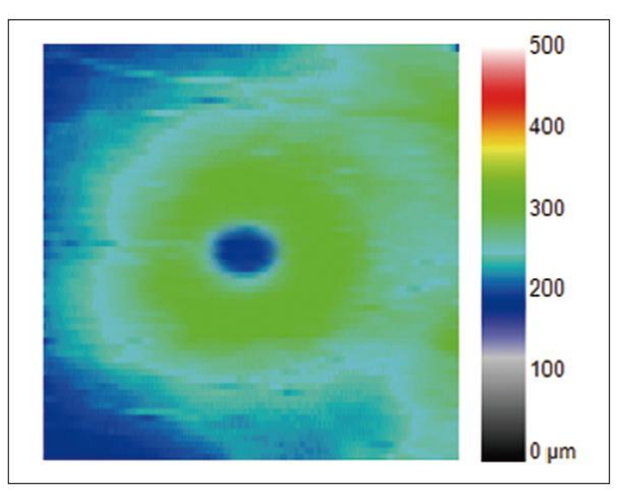
Large scanning range, clear macular area and optic disc area at a glance.



B-Scan fundus image(12mm×12mm)



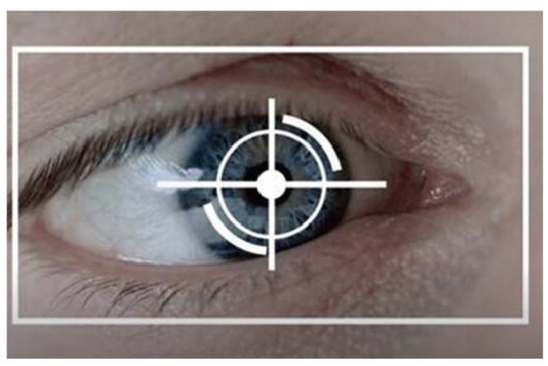
LSLO Fundus imaging



Macular thickness topography

Auto Focus

OCT2020 can automatically complete the tracking of fundus and macula, detect and calibrate the central part of the pupil, detect and adjust the focus and fault position, and display retina layers of high-definition. The whole acquiring time is limited to 5 seconds, greatly saving the diagnosis time for clinicians.



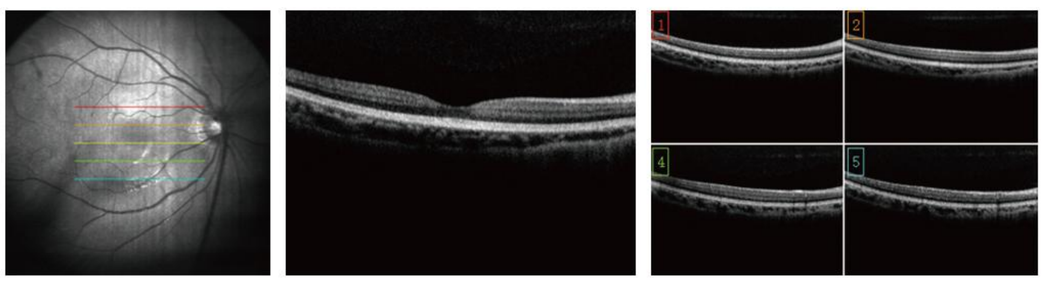
Scan Mode

OCT2020 has a variety of scan modes, including area scan, HD one line scan and multilines scan.

Area scan: 512*64, range 6mm*6mm\range 12mm*12mm
HD one line scan: 2048*30, length 6mm; 1024*30, length 12mm
Multilines scan: 5 lines parallel scan, Radiation scan, Circular scan

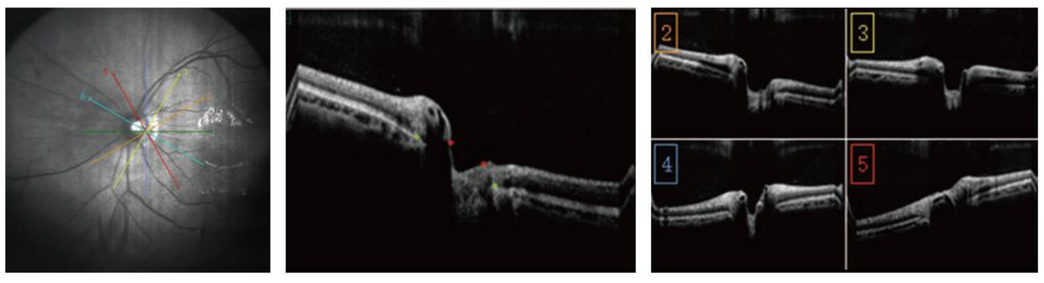
5 lines parallel scan

1024*5*4, length 6/12mm
depth 2.65mm, spacing1.0mm



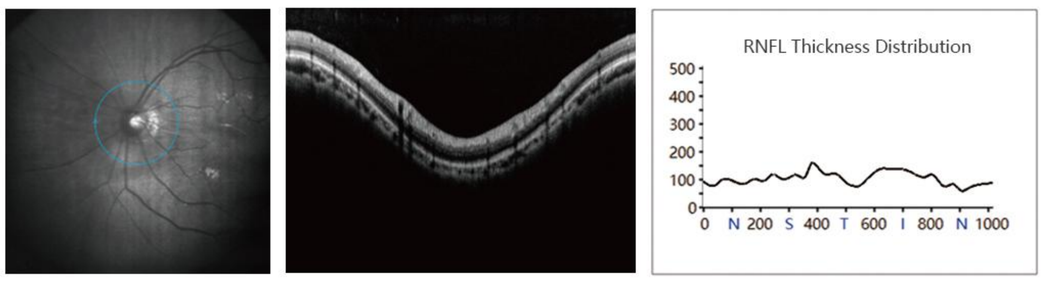
Radiation scan

6 lines, 1024*6*4
depth 2.65mm, fixed spacing



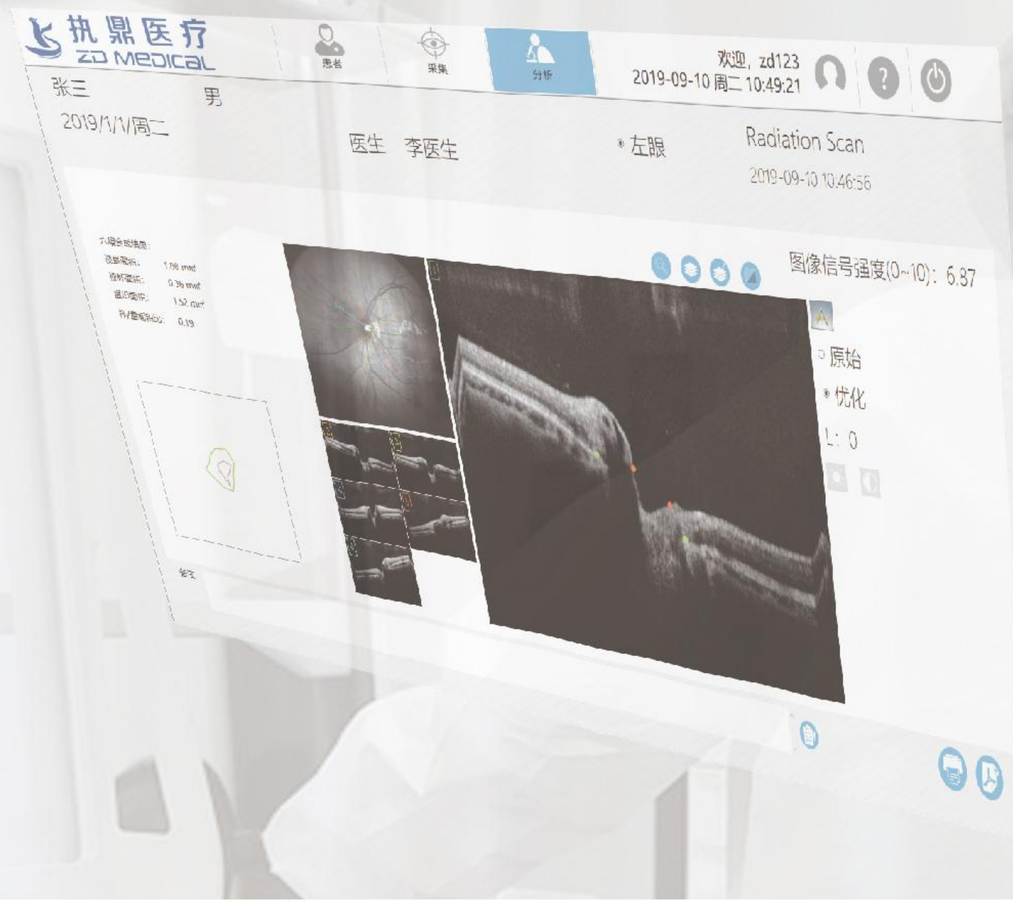
Circular scan

Circular scan line, 1024*8
diameter 3mm, depth 2.65mm



Fundus Disease Analysis

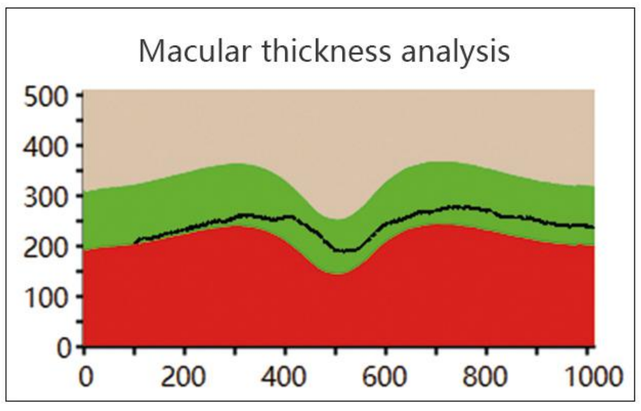
ZD Medical OCT2020

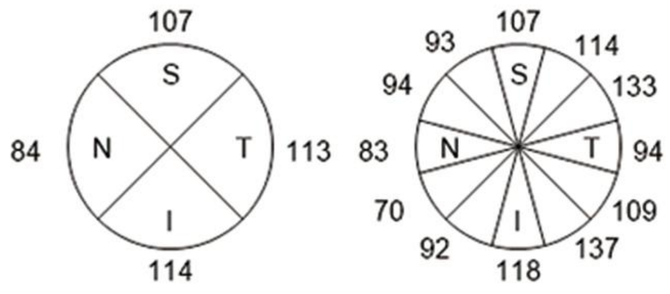


Glaucoma Analysis

Accurately measure the retinal thickness around the fovea and compare it with the age-related normal data to analyze the deviation of patient’ s retinal thickness, which helps clinicians diagnose glaucoma.

Perform circular scan around the optic papilla, automatically quantify the optic nerve thickness, and compare the thickness with database, so as to examine the atrophy of the optic nerve as an early sign of glaucoma.

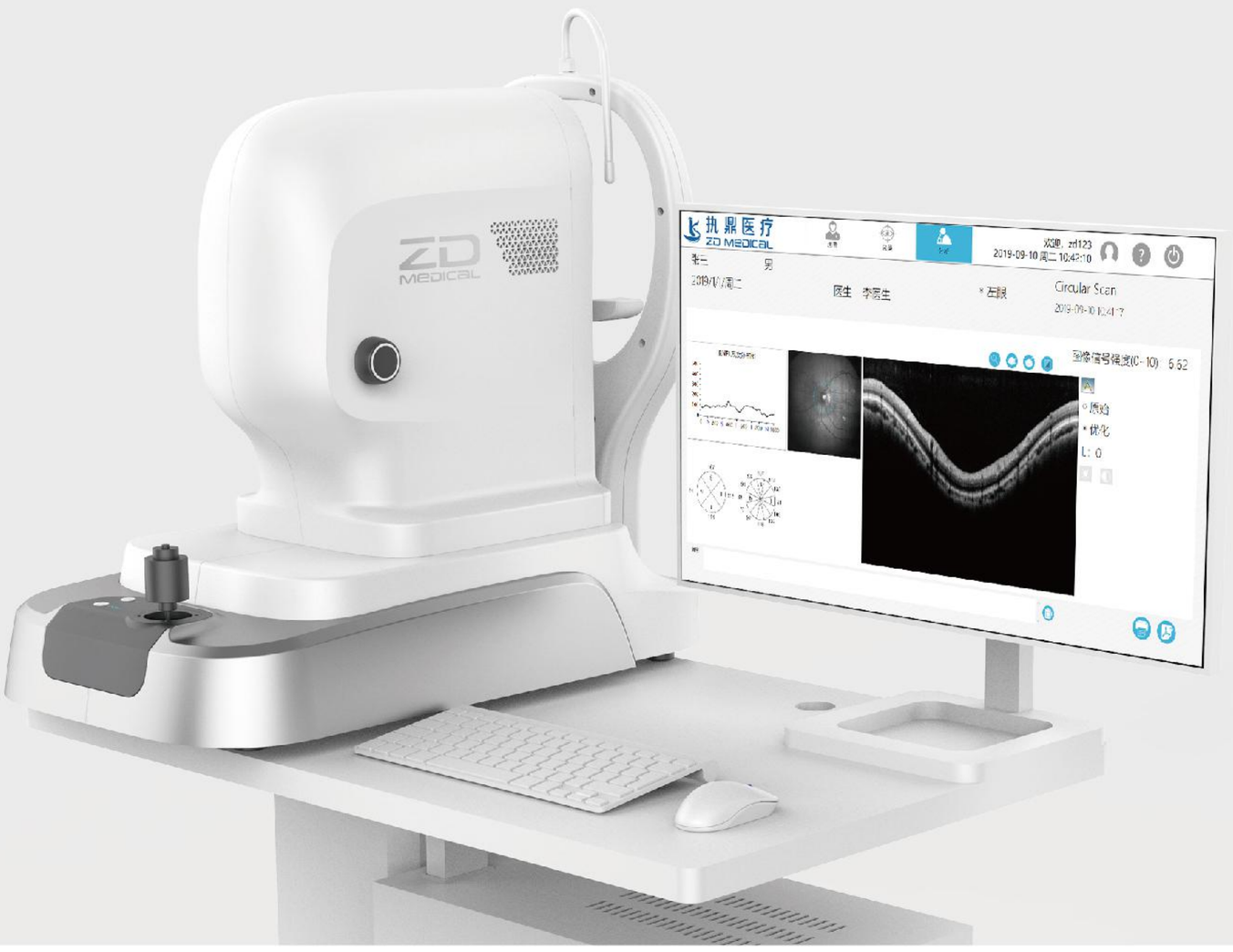




Follow-up, a More Efficient Patient Management

Accurate and rapid scan helps follow up the disease changes, making diagnosis more efficient and easier.

OCT2020 can automatically record current scanning position of macular and eyeball and intelligently locate the previous scanning position in the later follow-up examination, to ensure that two scans are in the same position. Based on the trend analysis of retinal thickness in different stages, perform long-term follow-up examinations and trend analysis.

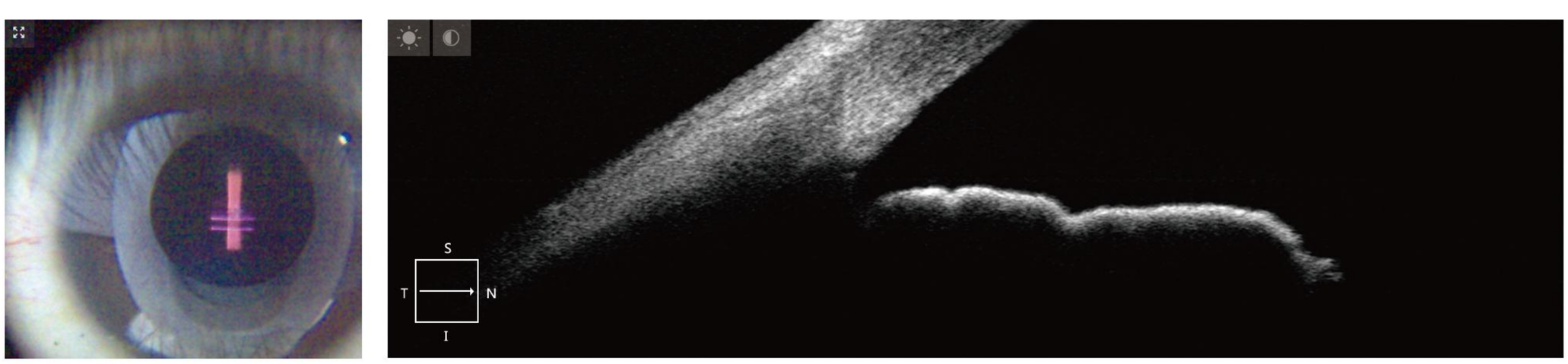


Easy and Efficient Diagnosis

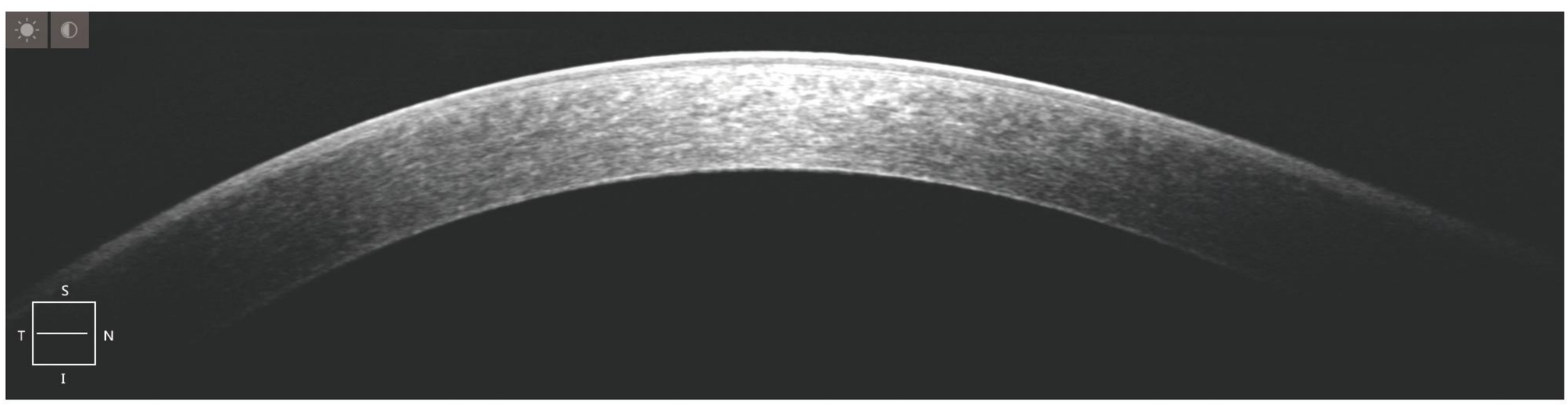
Anterior Segment Examination

Cornea scan

- HD scan, multiple images combined to produce better image, clear cornea structure
- Auto measurement and manual measurement for each cornea layer thickness



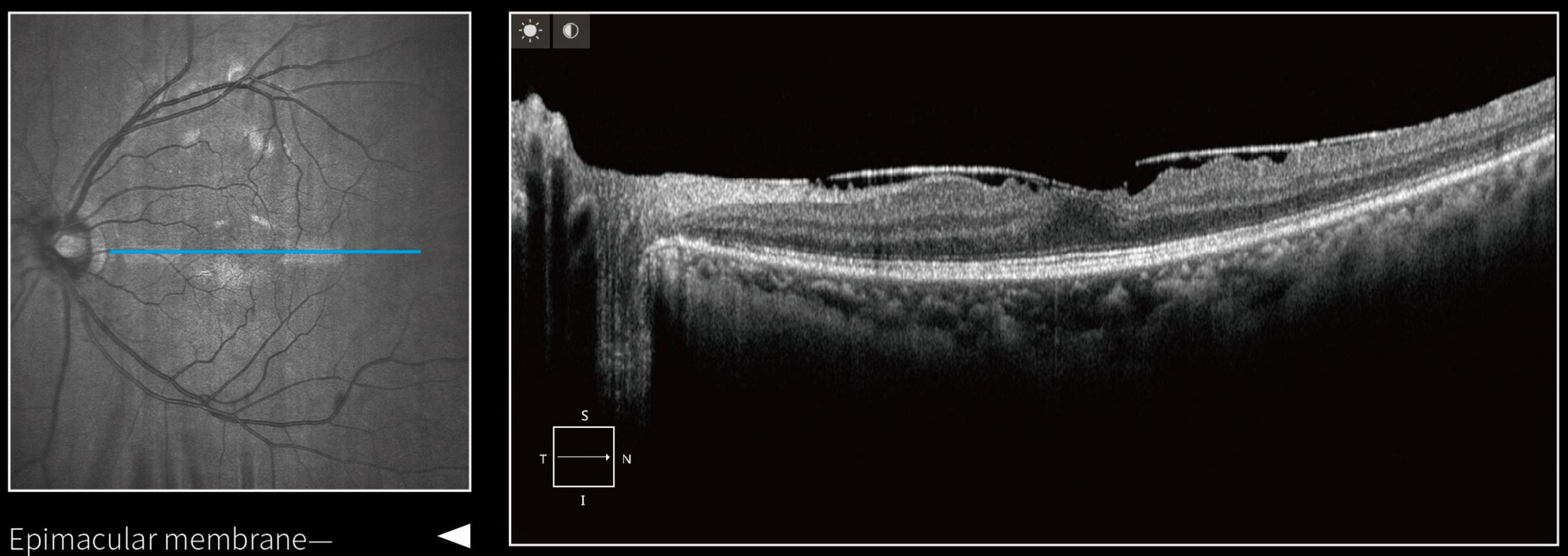
Clearly showing the cornea and iris
Precisely scanning the chamber corner, clearly showing the chamber corner structure



HD cornea image, clearly showing the corneal epithelial layer, anterior elastic layer and corneal stroma

Fundus imaging

Clear image collected by OCT2020, help you diagnose the disease.



Epimacular membrane—
together with folds which generate because of stretched retina

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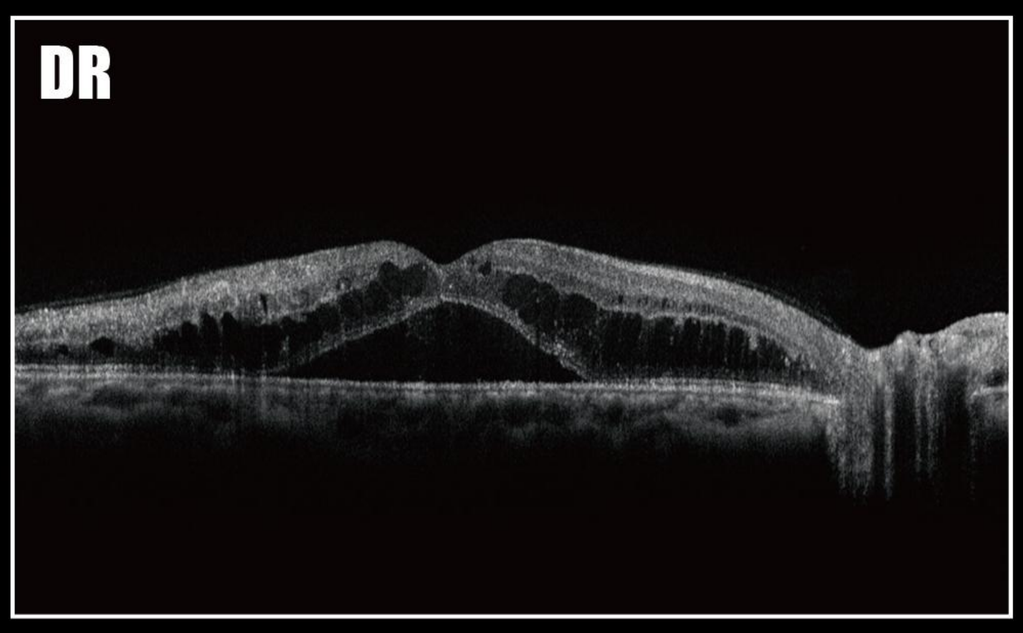
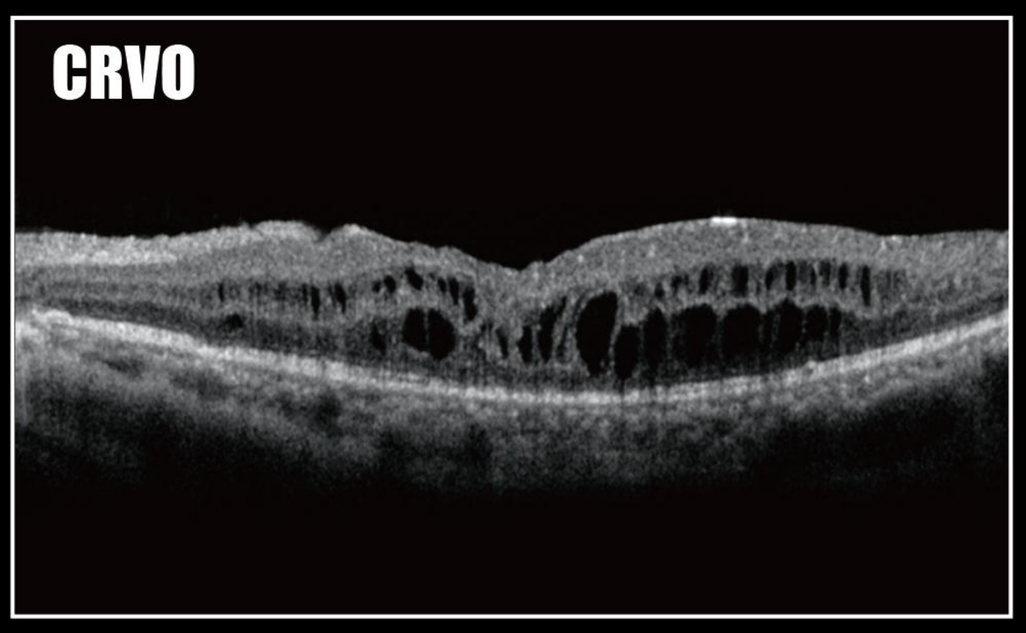


DR—together with serous retinal detachment, cystoid macular edema after retinal detachment, and cystic space



CRVO—together with diffuse retinal edema and cystoid macular edema

CSC—slurry neuroepithelial detachment, no reflection signal in the slurry detachment zone

Wet (neovascular or exudative) AMD—together with organizational scar

Technical Parameters

Measurement	Axial resolution: ⩽5μm (in tissue) Horizontal resolution: ⩽13μm (in tissue) X direction resolution (along the scanning direction) : ⩽13μm Y direction resolution (vertical to the scanning direction): ⩽13μm
Scanning	Scanning speed: 20KHz Maximum scanning depth: 2.65mm(in tissue) Scanning range: 13mm×13mm (in tissue)
Light source	Central wavelength: 843nm Full width at half maxim: 35nm Light power: ⩽750μw (at the cornea) Refractive compensation range: -20D ~ +20D
LSLO light source	Light power: ⩽1.5mW Central wavelength: 780nm
Fundus image	Method: LSLO Range: 45.0°×45.0°
B-scan	Six scan modes: Area scan, HD one-line scan, 5 lines scan, Radiation scan, Circular scan, Anterior segment scan Area scan: 512, range 6mm*6mm, range 12mm*12mm HD one-line scan: 1024, length 6mm; 12048, length 12mm 5 lines parallel scan:1024, length 6/12mm,depth 2.65mm, interval 1.0mm Radiation scan: 6 radial lines, 1024*6*4, depth 2.65mm, fixed interval Circular scan: circular lines, 1024*8, diameter 3mm, depth 2.65mm
Other functions	Follow-up, Auto focus, Auto reference arm, Automatic segmentation and- manual segmentation, Anterior segment, Pseudo color, Glaucoma analysis, Macular thickness analysis (macular topographic map), Automatic identification for fovea centralis, Internal fixation target and external fixation target, RNFL clock hours, Eye-tracking, Cataract image enhancement, Common case library, Patient data management, Chamber angle measurement, high-precision thickness measurement, Multi-image superposition optimization
PC	Hard disc: 2T CPU: I7-8700 GPU: RTX2060 6G RAM: DDR4 16G Display: 24-inch LCD screen

For more information about ZD Medical, please visit the following Wechat pubic accounts or log in the official website: www.zd-med.com

*Design and parameters are subject to change without prior notice.

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