Technical Parameters

Measurement	Axial resolution(in tissue): 5μm (in tissue) Horizontal resolution(tissue): 10μm (in tissue)
Scanning	Maximum A scanning speed: 20KHz , tolerance±5% Maximum scanning depth: ≥2.65mm(in tissue) , tolerance±3% Maximum scanning range: 12mm×12mm , tolerance±5%
Light source	Central wavelength: 843nm Light power: ≤750μw (at the cornea) Refractive compensation range: -20D ~ +20D
Fundus image light source	Light power: ≤1.5mW
Fundus image	Method: LSLO Central wavelength: 780nm Range: 42.0°×42.0°
B-scan	Area scan: 512*64 , range 6mm×6mm 512*64 , range 12mm×12mm HD one line scan: 1024*30 , length 6mm; 2048*30 , length 12mm Multi lines scan: 5 lines parallel scan , Radiation scan , Circular scan
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, Disc automatic identification, Internal fixation target and external fixation target, RNFL clock hours, Eye-tracking, Fovea localization .
PC and Printer	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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SHTOPVIEW top view

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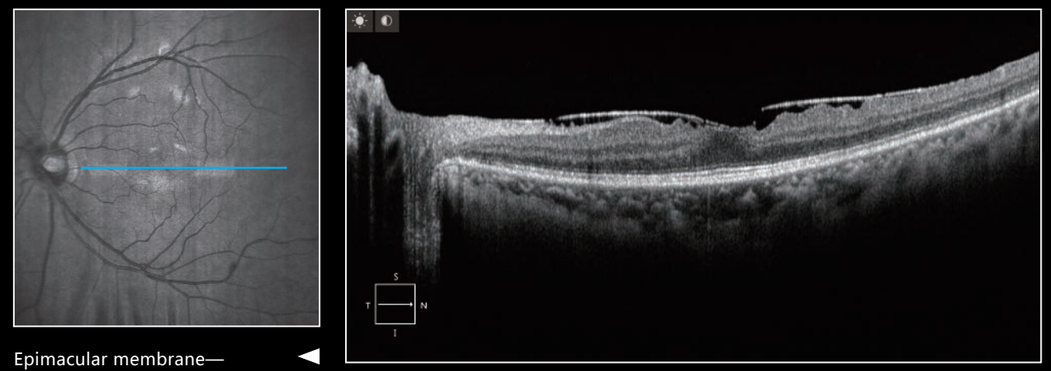
ZD Medical focuses on research, manufacturing and sales of high end ophthalmic devices, with China FDA, CE and ISO13485 certificated. We have complete research center, production center and sales team.

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.

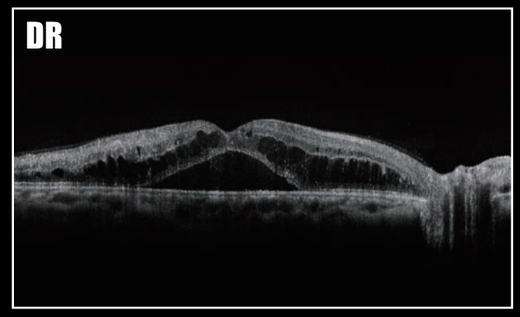
OCT2020 is a new generation OCT, with upgraded function, clear image and smooth system. It is equipped with professional analysis software to accurately identify retinal diseases, help screen and reduce the missed diagnosis of the initial examination, which can greatly improve the clinical use efficiency.

Fundus imaging

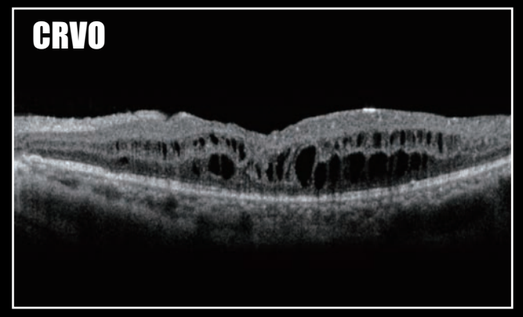
Clear image collected by OCT2020, help you diagnose the disease.



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

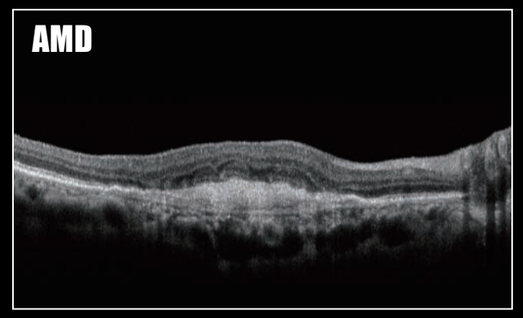


DR—together with serous retinal detachment, cystoid macular edema after retinal detachment, and cystic space

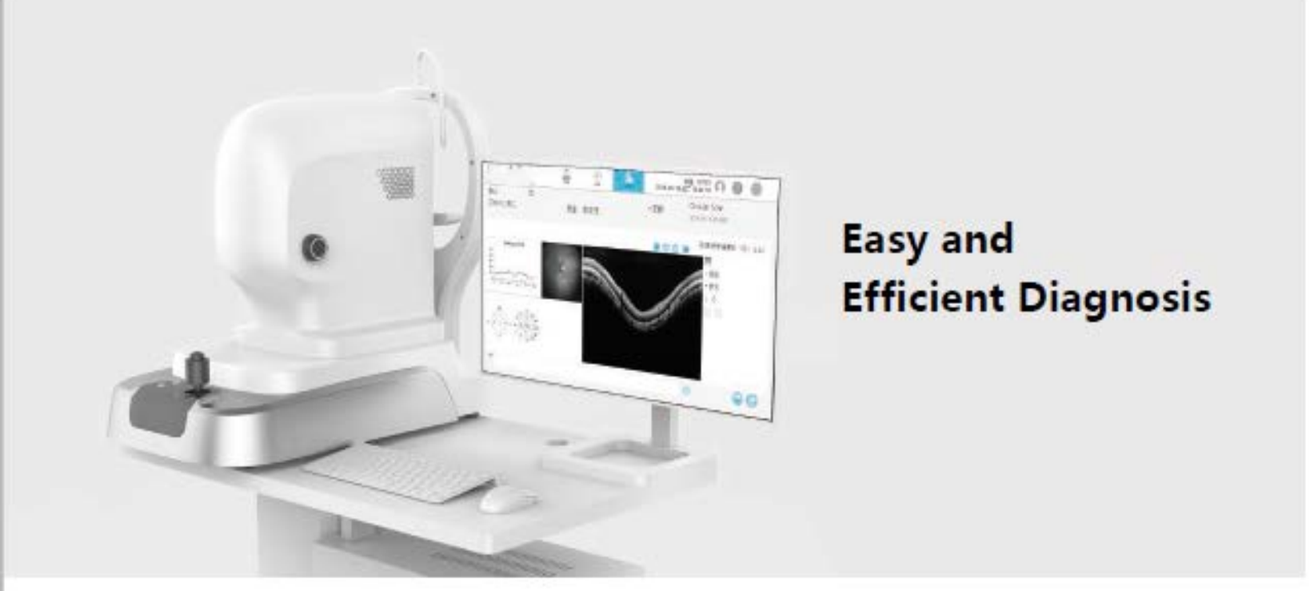


CRVO—together with diffuse retinal edema and cystoid macular edema

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



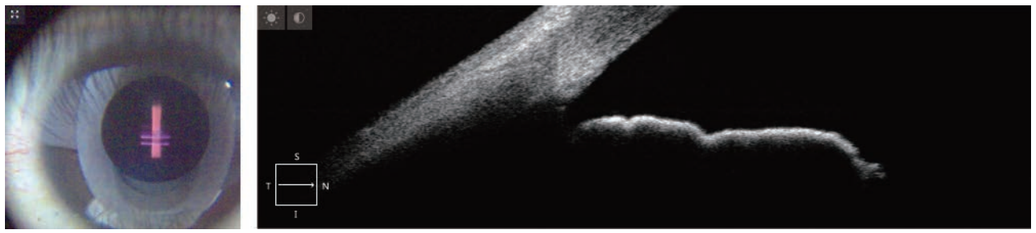
Wet (neovascular or exudative) AMD—together with organizational scar



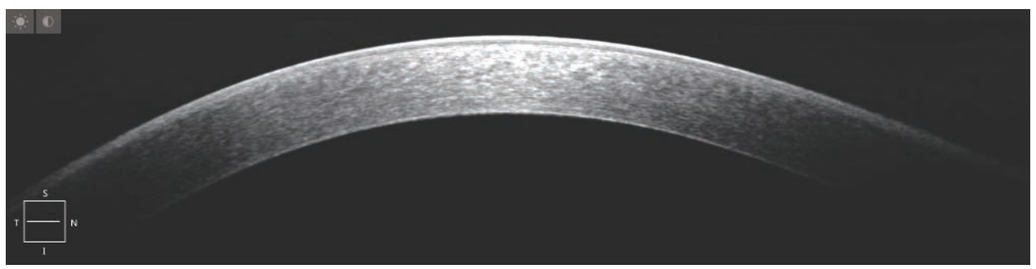
Anterior Segment Examination

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

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.

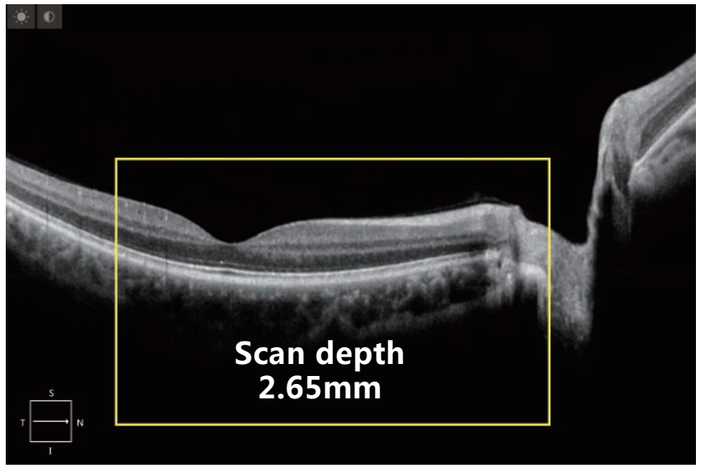
Deep to the Bottom of Fundus

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

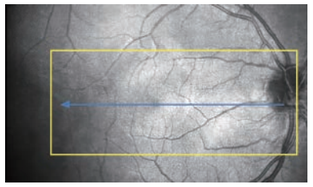
The scan depth (imaging depth) is one of the most important performance parameters in the OCT system. OCT2020 has an obvious advantage in depth, that is, the choroid imaging is clearer without affecting the axial resolution. It has significant advantages for fundus diseases involving high depth and high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

Wide to the Edge of Vision

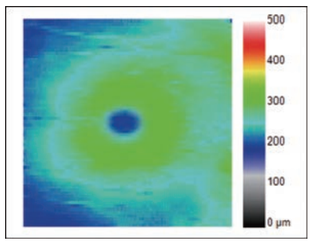
Large scanning range, clear macular area and optic disc area at a glance.



B-Scan fundus image(12mm×12mm)



LSLO Fundus imaging



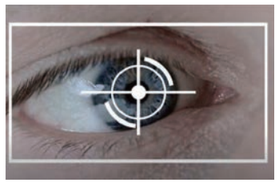
Macular thickness topography

Fundus Disease Analysis

ZD Medical OCTA2020

Auto Focus

OCTA2020 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.

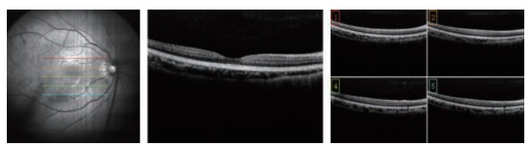


Scan Mode

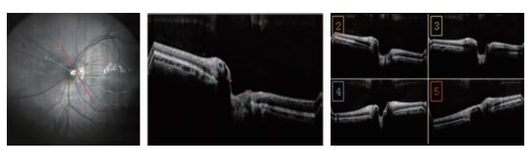
OCTA2020 has a variety of scan modes, including area scan, HD one line scan and multilines scan.

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

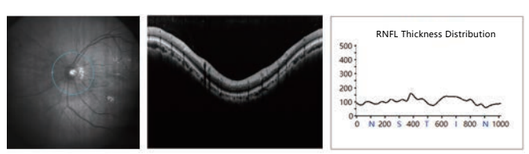
5 lines parallel scan
1024*5*4 , length 6/12mm
depth 2.65mm , spacing1.0mm



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



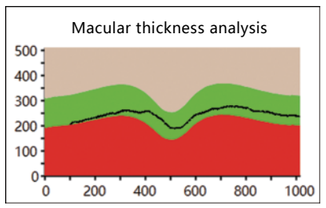
Circular scan
Circular scan line , 1024*8
diameter 3mm , depth 2.65mm

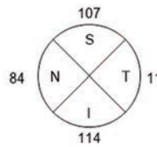


Glaucoma Analysis

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.

OCTA2020 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.