

To Greatness, To Future

TowardPi Medical Technology Ltd.

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• Full-Range HD • **Anterior & Posterior SS-OCT**



* YALKAID

*

Device is not cleared by the CE/FDA.

TowardPi Medical

Full-Platform Supplier of Ophthalmic Medical Equipment

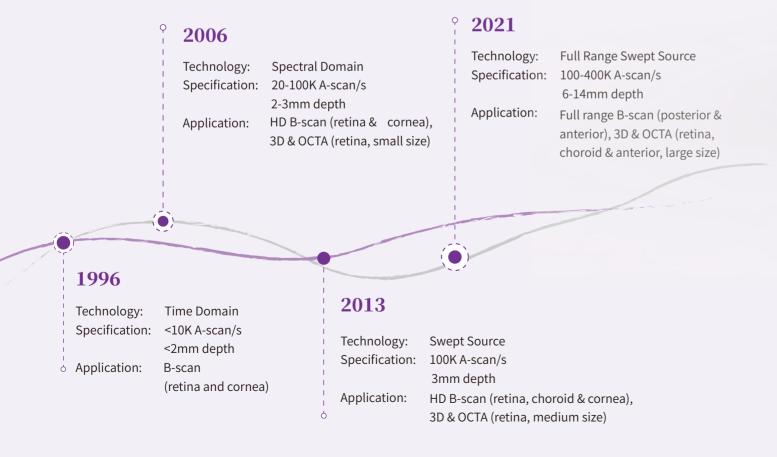
TowardPi Medical was established in October 2017, and its core technology comes from the transformation of Tsinghua University's scientific and technological achievements. The company has a team size of hundreds of people, nearly a hundred talents R&D teams. Currently, there are two R & D centers in Beijing and Shanghai.

The company has strong technology accumulation and full independent research and development capabilities in the fields of optics, machinery, electronic circuits, optoelectronics, embedded systems, software algorithms.

With abundant process experience and first-class industrial talents in the field of man-ufacturing, the company owns two major production and manufacturing bases in Beijing and Suzhou.

The development of OCT

The development of OCT leads us to the latest generation of full range swept source OCT technology. Go faster, deeper, wider and sharper!



TowardPi Swept Source OCT YALKAID

- 100KHz A-scan
- Full range anterior & posterior OCT
- Wide field anterior & posterior OCTA



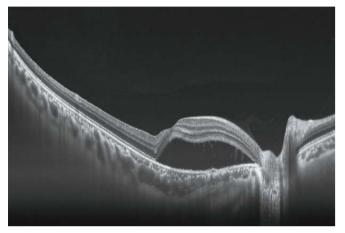


100,000 A-scan/sec SS-OCT

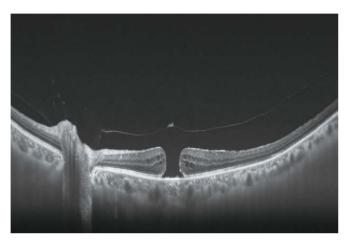
High definition B-scans

Resolution

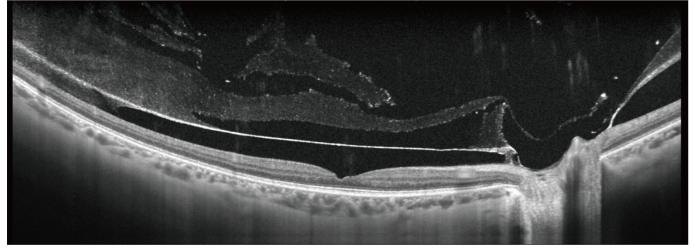
- Axial: ≤6um optical, 1.4µm digital
- Lateral: 10μm optical, 1.4μm digital



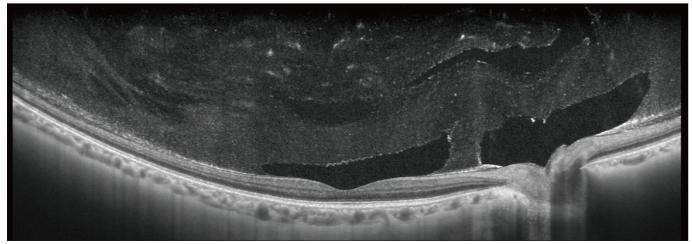
• Central Serous Retinopathy



• Macular Hole

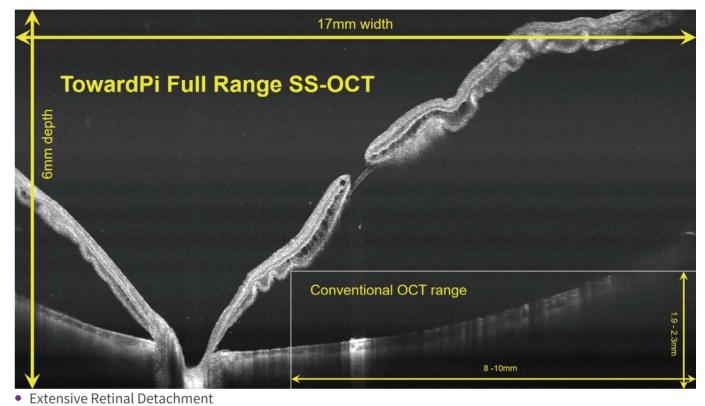


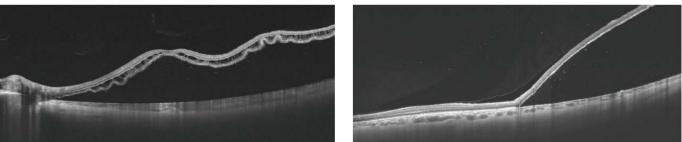
Posterior Vitreous Detachment



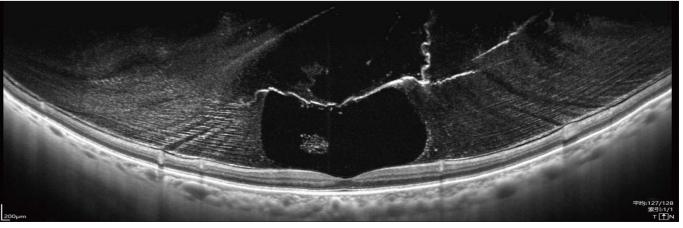
• Posterior Precortical Vitreous Pockets (PPVP)

- Better coherence ensures deeper visual field
- thickness imaging of retina and choroid
- ▶ Wide-field optic design extends the scanning length up to 17mm





• Retinal Detachment



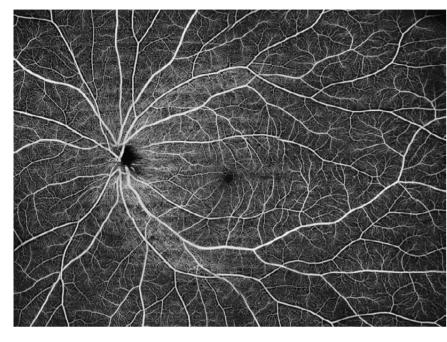
• Posterior Precortical Vitreous Pockets (PPVP)

Retina Scan, 17mm length, 6mm depth

6mm scanning depth makes scan easier with myopia staphyloma or extensive retinal detachment **1060nm wavelength** penetrates better in opacity such as cataract, vitreous hemorrhage, provides full

OCT Angiography

- Fast, non-invasive, high resolution OCT Angiography (OCTA)
- Optional upgrade on YAILKAID OCT system

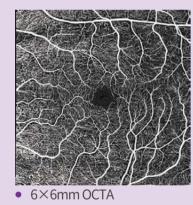


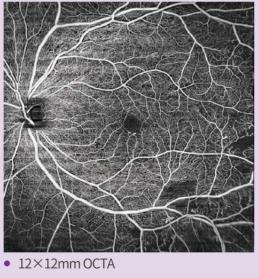
• Larger field montage from multiple scans

Full functional OCTA features

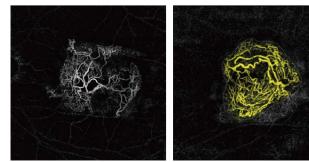


• 3×3mm OCTA





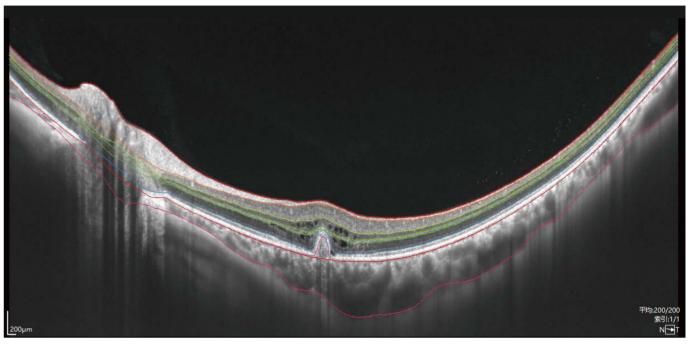
Diabetic Retinopathy



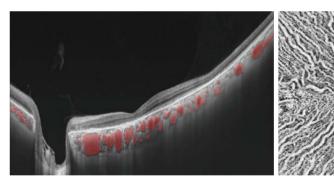


- Branch Retinal Vein Occlusion

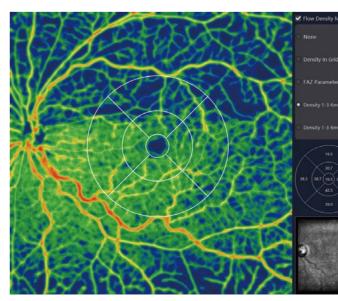
artifact removal. The algorithm detects anatomic boundaries of retina and choroid, evaluates thicknesses individually.



• Automatic segmentation

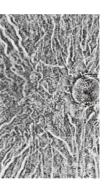


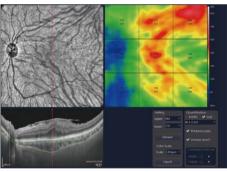
• Choroid vessels



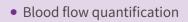
Posterior Analysis tools

Comprehensive analysis software provides automatic segmentation with flow projection





• Choroid Thickness Map



Multi-section flow density, CNV flow area, FAZ indexes, etc.

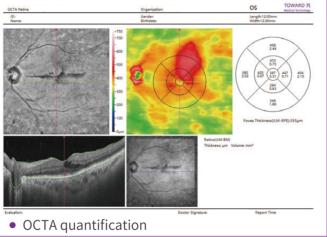
Comprehensive reports

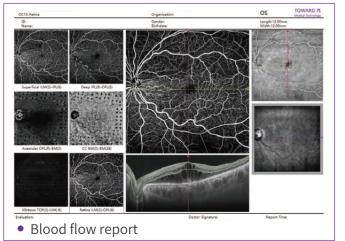


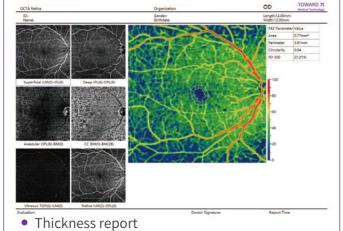
- B-scan report
- 3D tomography
- Thickness report
- Volume report
- Blood flow report
- Quantification report
- OU report
- Follow-up report



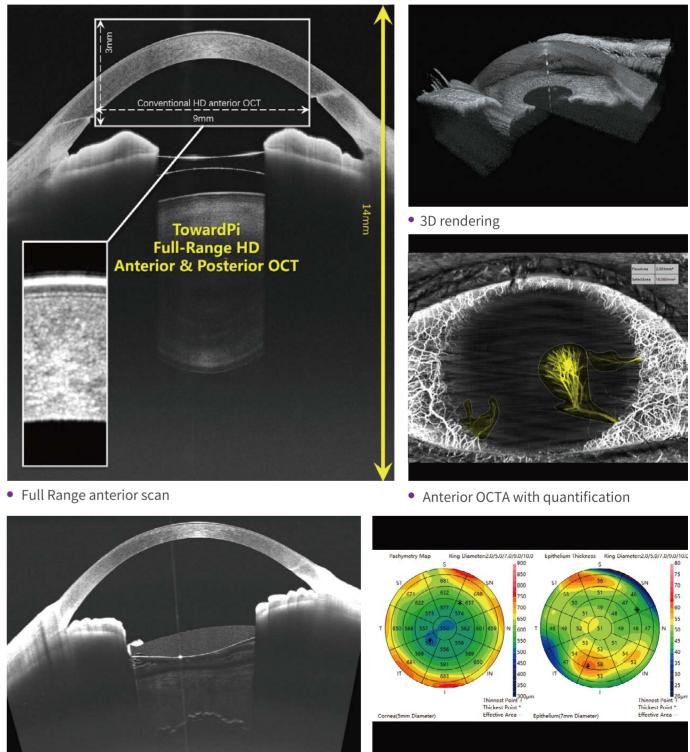


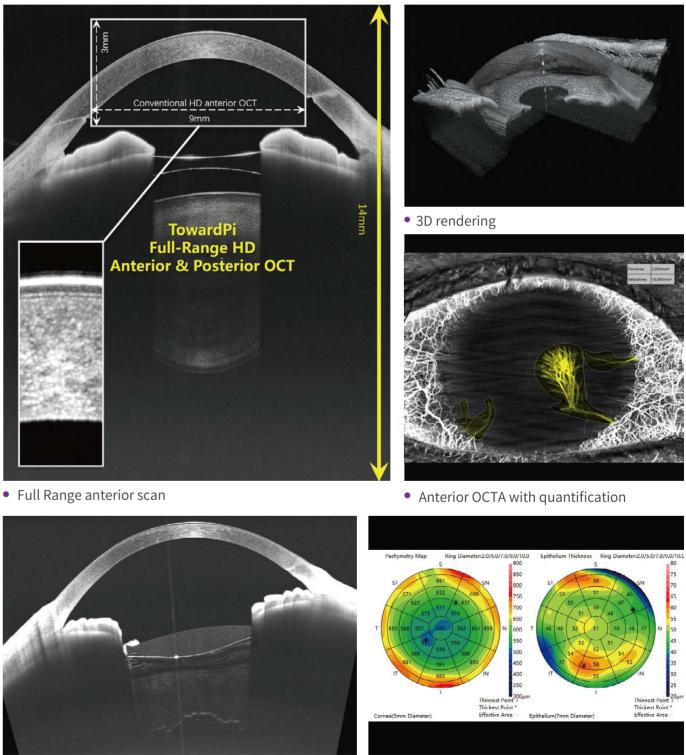






▶ Up to 24mm length, 14mm depth for anterior





• IOL & anterior hyaloid

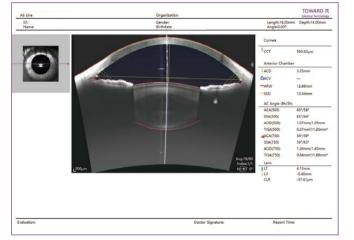
Full Range Anterior OCT

• Pachymetry & ETM

Glaucoma analysis

Comprehensive glaucoma reports include:

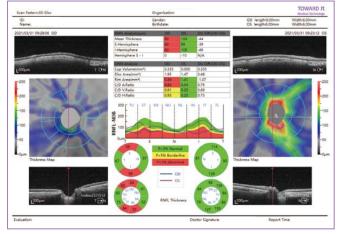
- Anterior parameters
- Optic nerve head analysis
- Ganglion map analysis
- Blood flow analysis



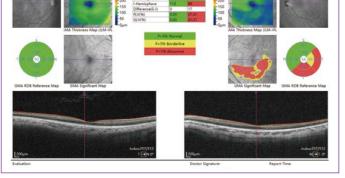
• Anterior parameters

- Blood flow analysis

Scan Patt



• Optic nerve head analysis



• Ganglion map analysis

Light source	Swept Source
Wavelength	1060nm (±5%)
Scanning speed	100,000 A-scan/second
Scan length(anterior)	24mm
Scan length(posterior)	17mm
Scan depth(anterior)	14mm
Scan depth(posterior)	6mm
Axial optical resolution digital resolution	≪6μm 1.4μm
Lateral optical resolution digital resolution	10μm 1.4μm
Dioptric range	-20D ~ +15D
Pupil size	≥ 2.0mm
► Fundus Image	
Module	LSO
Wavelength	840nm
Field of view	40°
Tracking speed	100Hz
▶ ОСТА	
Anterior	up to 16x16 mm
Posterior	up to 12x12 mm
Montage	up to 28x24 mm
Resolution	up to 768X768
▶ Network upgrade	

Specification (YG-100K)