Specification (BM-400K)

1 Speed	400,000 A-scan/sec	3 Depth (posterior)	6mm	5 Max. Length (Line)	24mm
2 Axial optical resolution	3.8μm	4 Depth (anterior)	6mm	6 Max. width (OCTA)	24mm

TOWARD π
Medical Technology

i-tek
medikal sistemler

TowardPi (Beijing) Medical Technology Ltd.

Add: 4F, Bldg. 3, Courtyard 9, ShengMingYuan Rd
ChangPing District, Beijing, China
Tel: 010-61586818
Email: info@topimedical.com

İ-TEK Medikal Sistemler A.Ş.

Altayçeşme Mah. Kiraz Sk. No:15 Maltepe,
34843 İstanbul,Türkiye
Tel:+90 216 594 51 29
Email: info@i-tekmed.com
Web: www.i-tekmed.com

TOWARD π
Medical Technology

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medikal sistemler

BMizar

| 400KHz | Full-Range SS-OCT |

Founded in 2017, originated from top scientific and technological achievements of Tsinghua University. Supported by billions size industry funds. TowardPi develops cutting–edge swept source OCT and optical biometers. More hi–end ophthalmic devices including endoscopic OCT, microscope, ultra–wide–field fundus camera, etc. are in the line of our R&D as well.

OCT

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!

1996

Technology: Time Domain
Specification: <10K A–scan/s
<2mm depth
Application: B–scan (retina and cornea)

2006

Technology: Spectral Domain
Specification: 20–100K A–scan/s
2–3mm depth
Application: HD B–scan (retina & cornea),
3D & OCTA (retina, small size)

2013

Technology: Swept Source
Specification: 100K A–scan/s
3mm depth
Application: HD B–scan (retina, choroid & cornea),
3D & OCTA (retina, medium size)

2021

Technology: Full Range Swept Source
Specification: 100–400K A–scan/s
6–14mm depth
Application: Full range B–scan (posterior & anterior),
3D & OCTA (retina, choroid & anterior, large size)

BMizar

400KHz A–scan speed

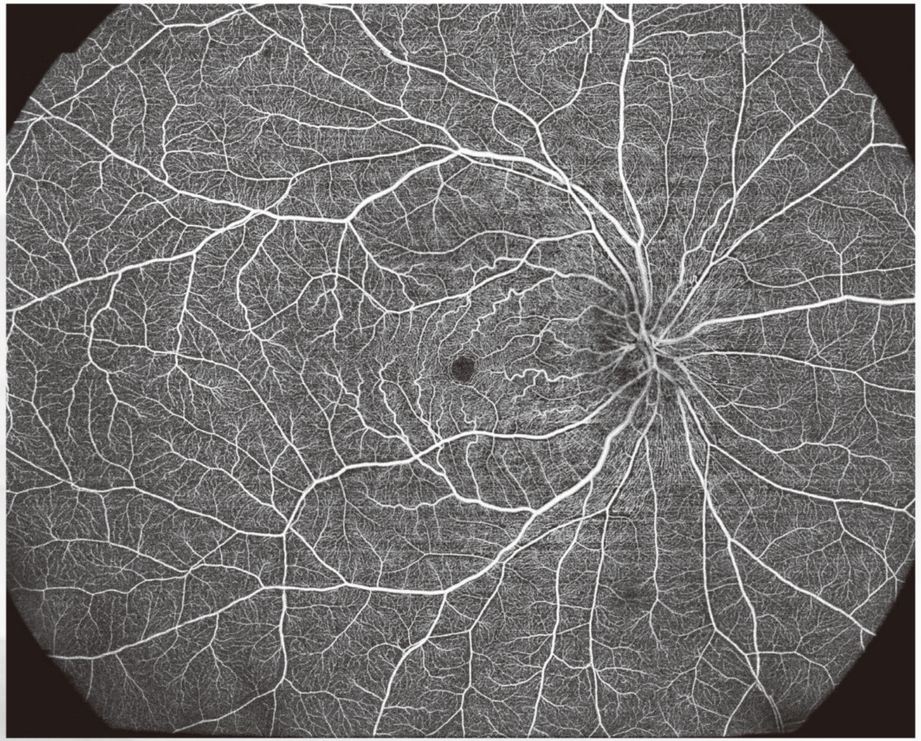
Full–Range wide–field with high resolution

- ◎ 6mm scanning depth
- ◎ 24mm B-scan length
- ◎ 24 x 20mm OCTA
- ◎ 3.8 μm Axial optical resolution
- ◎ 1060nm wavelength
- ◎ 10 Billion maximal voxels
- ◎ Structure and flow quantification

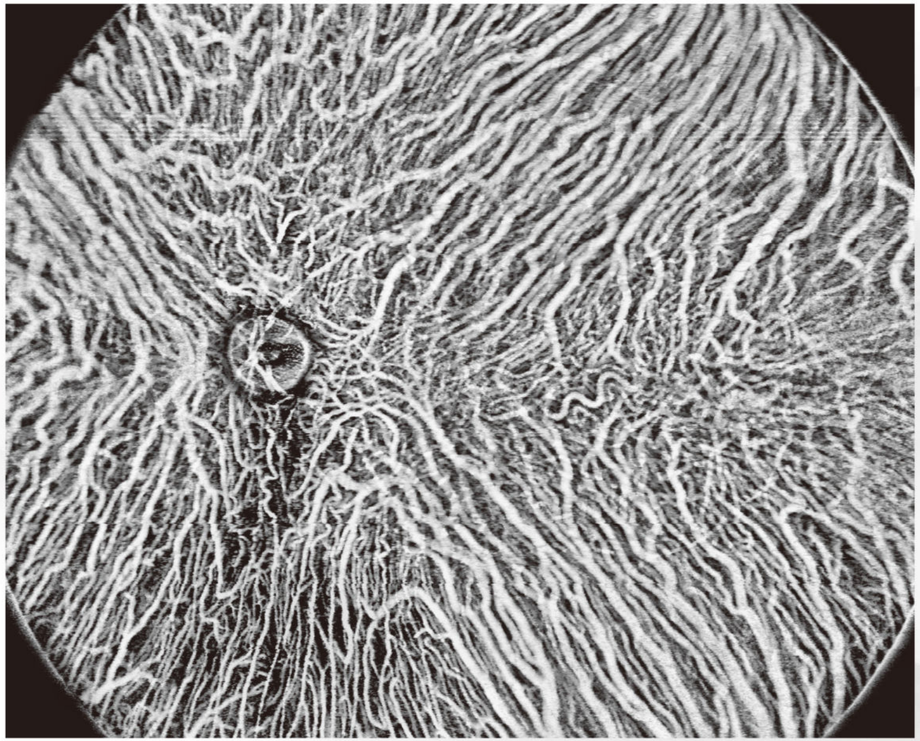
Full Range Swept Source OCT

TowardPi New Flagship

One
Capture
Non-montage



Full Range retina vessels



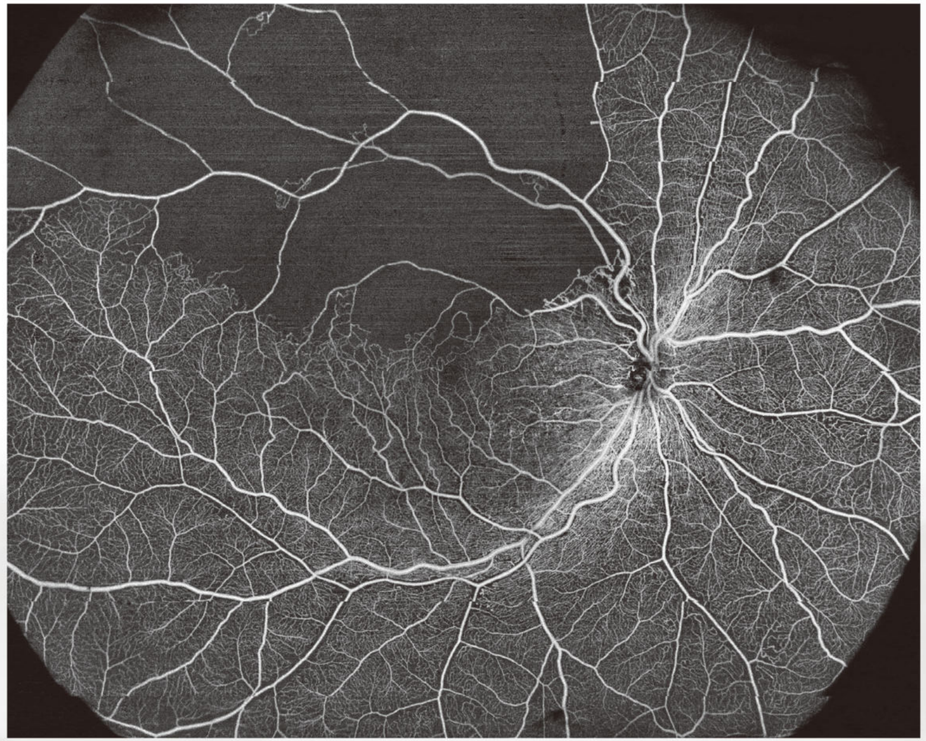
Full Range Choroid vessels

24 x 20 mm

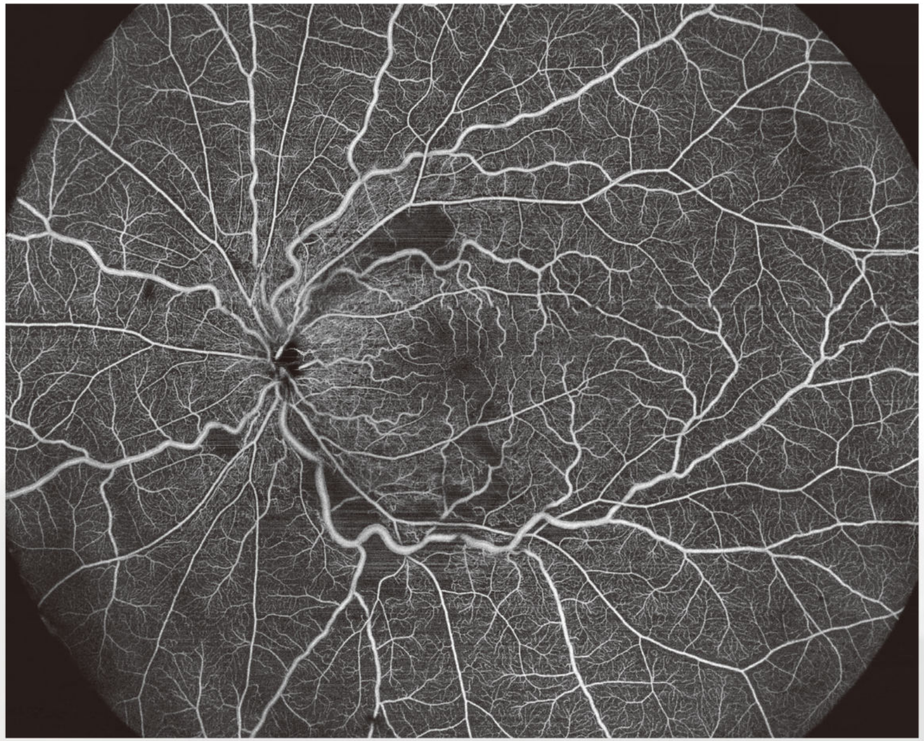
OCTA

(Acquisition time ≈ 15 seconds)

Full Range Wide–field OCTA



Branch Retinal Vein Occlusion Image courtesy: Prof. MingWei Zhao

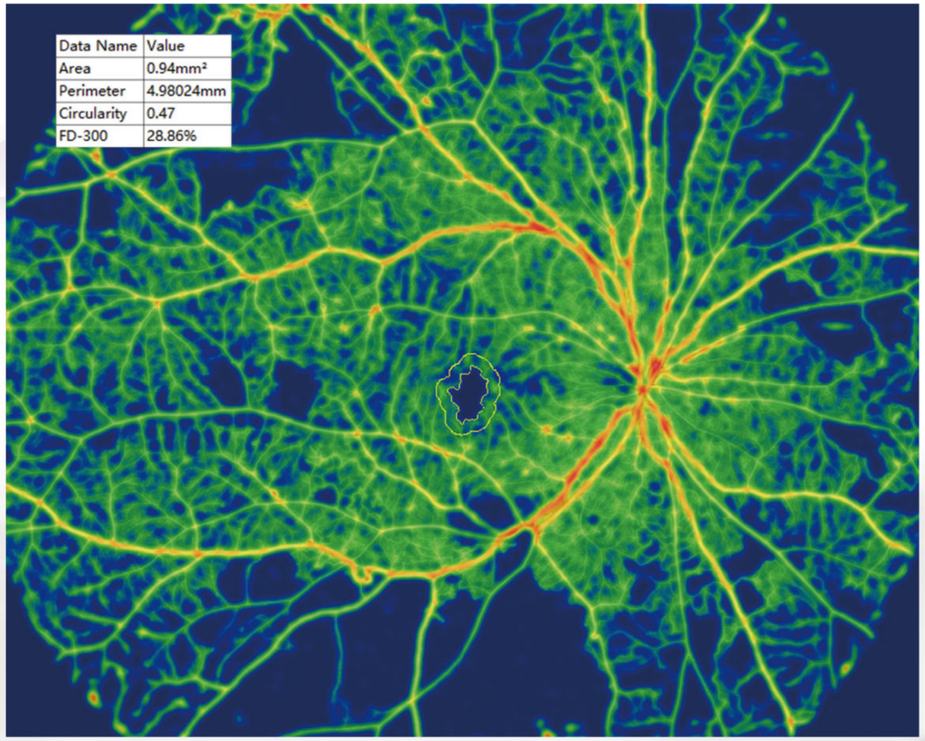


Retinal Vasculitis Image courtesy: Dr. YaoYao Sun

One Capture Non-montage

Full Range Wide–field OCTA

Proliferative Diabetic Retinopathy with NVD Image courtesy: Prof. YouXin Chen



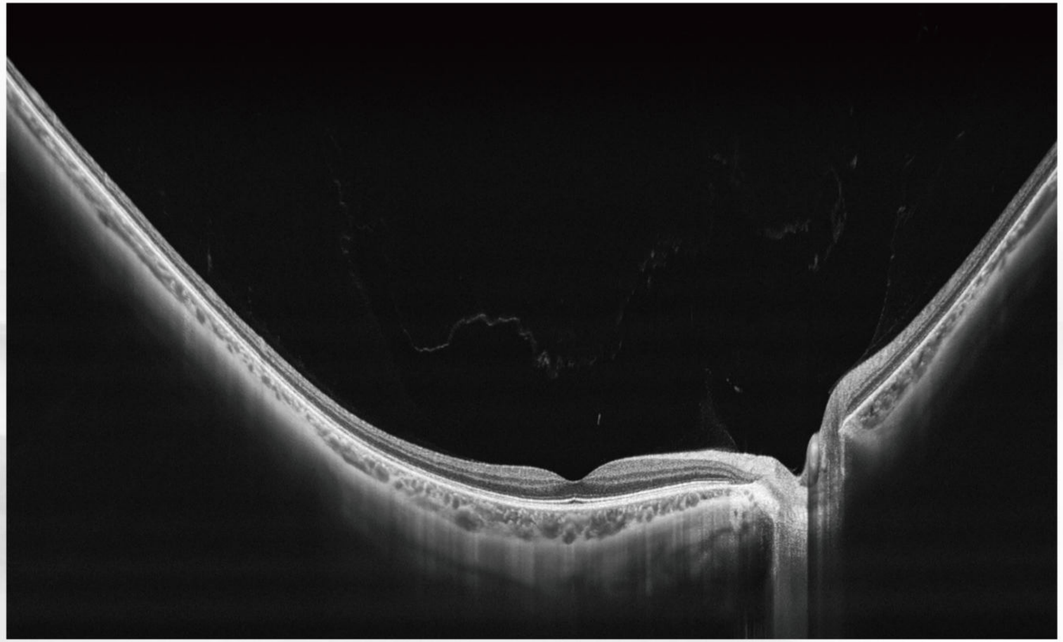
Flow density & FAZ indexes, Diabetic Retinopathy Image courtesy: Prof. HuiJun Qi

24 x 20 mm OCTA

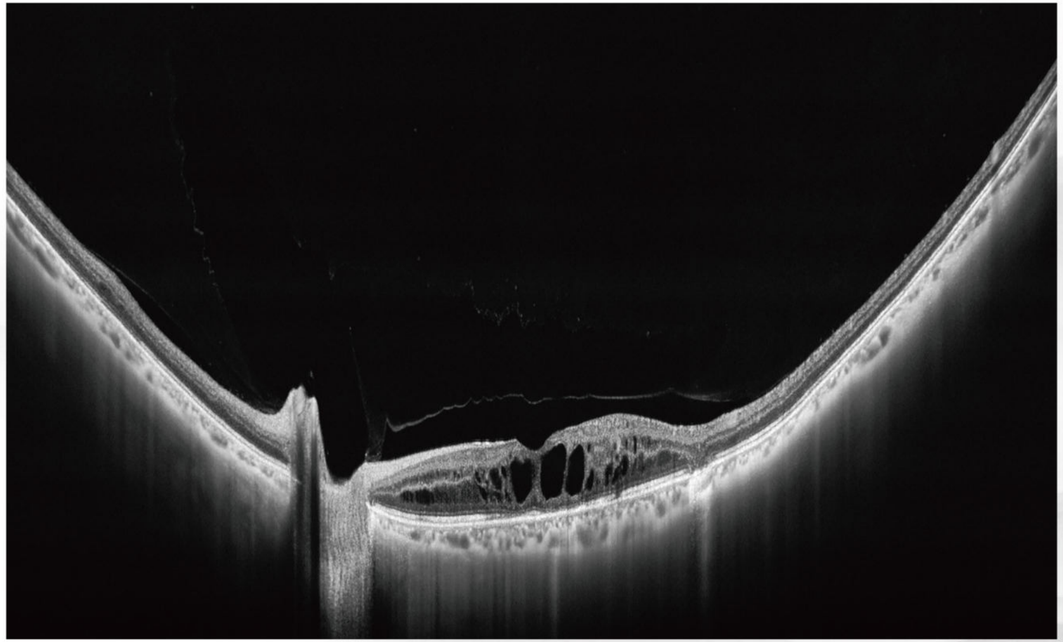
(Acquisition time ≈ 15 seconds)

One Capture Non-montage

24mm length, 6mm depth OCT B–scan

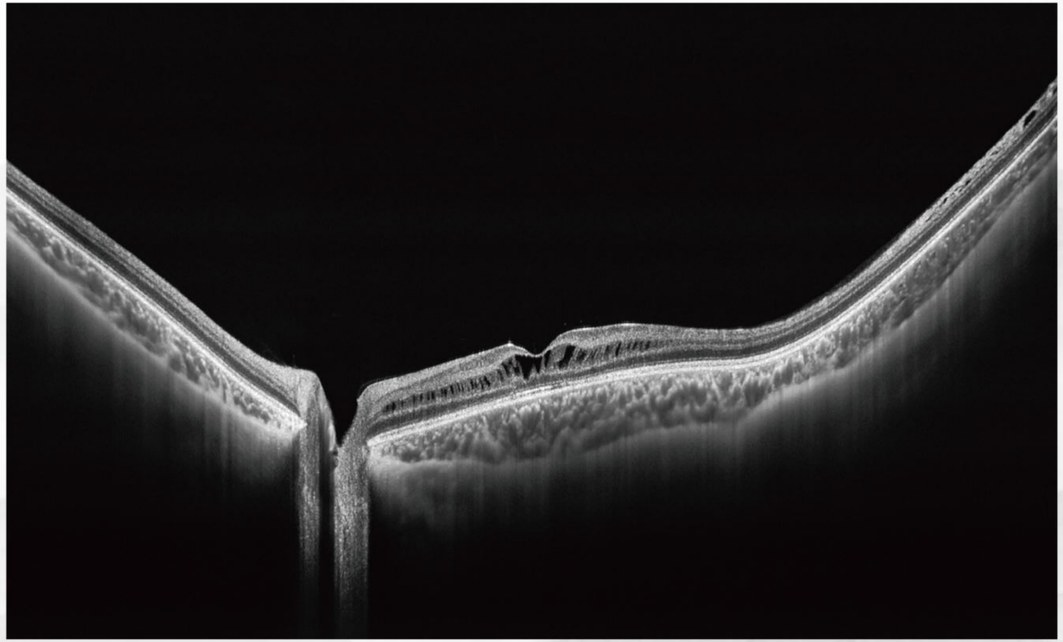


Normal Eye (vitreous, retina and choroid)



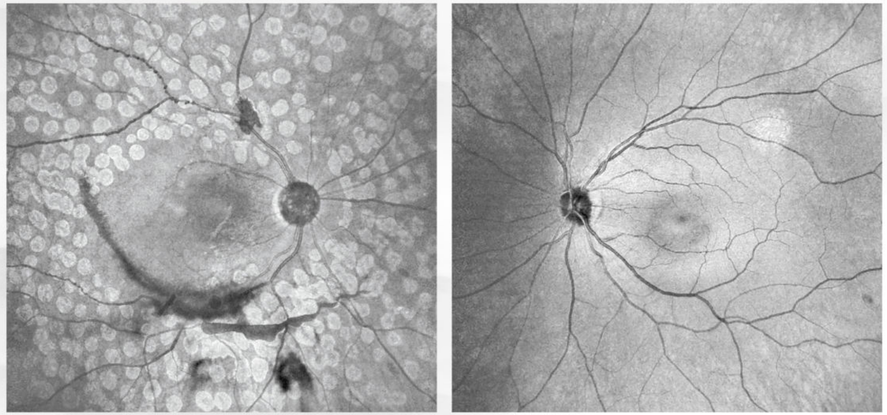
Cystoid macular edema

One Capture Non-montage



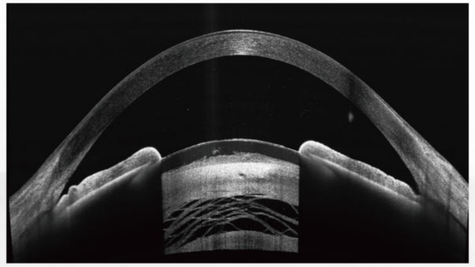
Retinoschisis

Confocal scanning laser ophthalmoscopy (SLO) 80° field of view

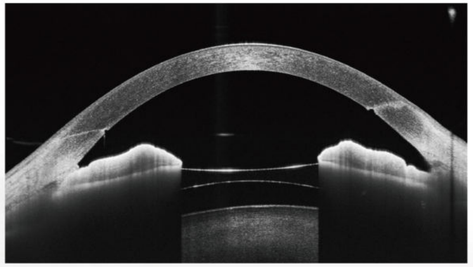


SLO fundus image

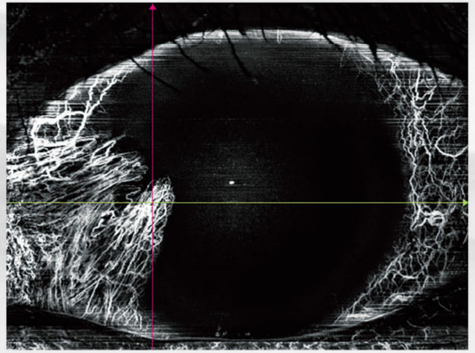
HD Anterior Scan

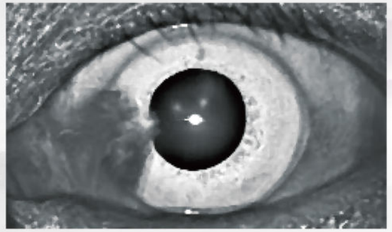


Cataract



Phakic IOL (ICL)

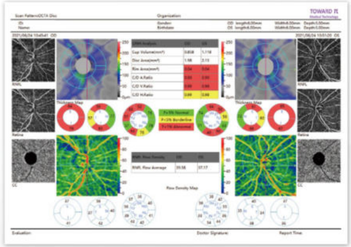




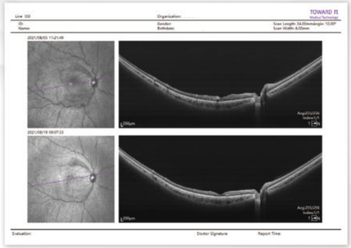
Anterior OCTA
(Pterygium, Image courtesy: Prof. HaiFeng Xu)

Comprehensive Reports

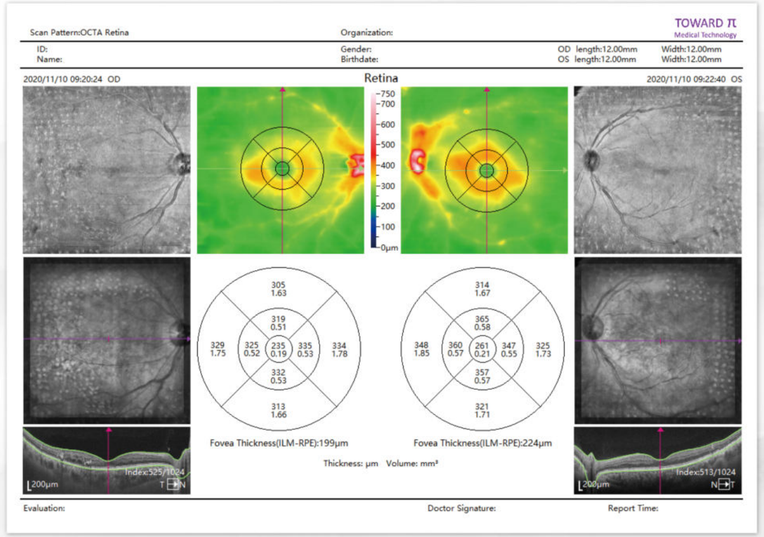
Scan reports can be derived with numerous content according to patterns, slices, slabs, measurements, analysis, etc.



Glaucoma analysis (structure & flow)



Follow–up report



OU report