

	TowardPi BMizar	TowardPi Yalkaid	Zeiss Elite 9000	Optovue SOLIX	Canon S1	Zeiss Cirrus 500/5000	Zeiss Cirrus 6000	Topcon Triton	Heidelberg Spectralis	comments
Laser source	Full range swept source	Full range swept source	Swept source	Spectral domain	Swept source	Spectral domain	Spectral domain	Swept source	Spectral domain	Swept source is the latest OCT technology. Full range SS is the 2nd generation of SS, better resolution and depth.
Wavelength	1060nm	1060nm	1050nm	840nm	1060nm	840nm	840nm	1050nm	840nm	Longer wavelength empowers better penetration of opacities, less attraction due to invisible light
A-scan Speed	400,000Hz	100,000Hz	200,000Hz	120,000Hz	100,000Hz	68,000Hz	100,000Hz	100,000Hz	85,000Hz	Speed is not only about acquisition time. OCTA image quality is highly depend on speed.
Optical axial resolution	3.8um	3.8um	6.3um	5um	8um	5um	5um	8um	5um	Optical, not digital! (lower the value, better the resolution)
Lateral resolution	10um	10um	20um	15um	30um	15um	15um	20um	15um	Optical, not digital! (lower the value, better the resolution)
Max. length retina	24mm	16mm	16mm	16mm	23mm	10mm	12mm	12mm	9mm	
Max. length cornea	18mm	24mm	N/A	18mm	?	12mm	16mm	16mm	9mm	
Max. depth retina	6mm	6mm	6mm	6.25 mm	5.3mm	2.3 mm	2.9 mm	2.9 mm	1.9 mm	
Max. depth anterior	6mm	14mm	N/A	6.25 mm	5.3mm	2.3 mm	6 mm	2.9 mm	1.9 mm	
Tracking speed	128Hz	100Hz	20-24Hz	30Hz	?	20-24Hz	20-24Hz	15Hz	15Hz	faster tracking reduces the motion artifact significantly, and improves
Color Fundus	N/A	N/A	N/A	Yes	N/A	N/A	N/A	Yes	N/A	
Max. OCTA resolution	1536x1280	768x768	1024x1024	600X600	920X807	512X512	768x768?	768x768?	?	
Max. OCTA size	24x20mm (HD)	12X12 mm	15X12 mm	12X12 mm	23x20mm (SD only)	9X9 mm	12X12 mm	12X12 mm	9x4.5mm	
OCTA acquisition time (6mm)	<2 secs	3-8 secs	3-8 secs	3-8 secs	3-8 secs	6-8 secs	6-8 secs	5-20 secs	≈30 secs	
OCTA acquisition time (>23mm)	≈15 secs (HD)	N/A	N/A	N/A	≈30 secs (SD only)	N/A	N/A	N/A	N/A	