

Nidek RSD OCT

WHICH SCAN SHOULD I CHOOSE?



Nidek RSD features:

- Fully automated spectral domain OCT and 12-megapixel fundus camera
- User friendly capture
- Flexible scan pattern selection

4 capture modes:

Combo

- a customisable program of scan patterns to be taken automatically

OCT/FC

- a single selected OCT scan pattern with fundus photography



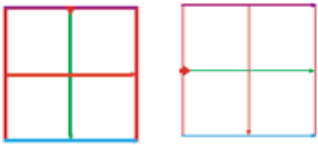
OCT

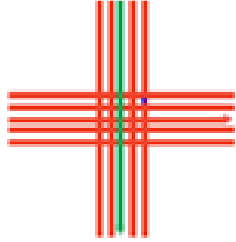
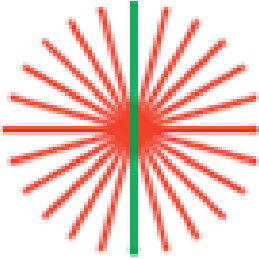

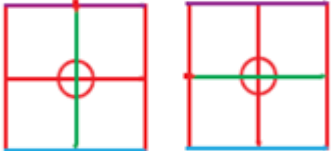
- a single selected OCT scan pattern

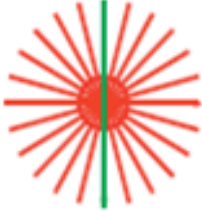




FC

- fundus photography mode

OCT Scan Patterns:

Scan Pattern	Image	Description	Uses and advantages
Macula Line		A single OCT line scan, taking a slice of retina centred on the macula	<ul style="list-style-type: none"> • Very quick scan time, ideal for patients with excessive blinking • Performs well through media opacities
Macula Cross		A single horizontal and single vertical OCT line scan, centred on the macula	<ul style="list-style-type: none"> • Very quick scan time, ideal for patients with excessive blinking • Performs well through media opacities • Increased retinal coverage than 'Macula Line' • Cross over of scan lines centrally, increases resolution of central macula
Macula Map		High resolution Macula cross scan through the central retina followed by 64 or 128 horizontal or vertical scans covering a 12x9mm area.	<ul style="list-style-type: none"> • The most comprehensive scan pattern to give an overview of patient retinal health • Very wide scan area • Comparison to normative data • 3D viewing

<p>Macula Multi</p>		<p>5 horizontal and 5 vertical OCT line scans centred on the macula</p>	<ul style="list-style-type: none"> • Extensive central cross over of scan lines for high resolution imaging of central macular • Scan width can be altered between 3mm, 6mm and 9mm • Scan pitch can be altered to separate scan lines and create grid scan • Scan position can be altered to scan peripheral retinal points
<p>Macular Radial</p>		<p>12 scan lines in a clock like fashion centred on the macula</p>	<ul style="list-style-type: none"> • Reduced distance between scan lines resulting in a greater area coverage than the Macular Multi • Extensive central cross over of scan lines for high resolution imaging of central macular, useful for disease differential diagnosis • Scan width can be altered between 3mm,6mm and 9mm • Scan position can be altered to scan peripheral retinal points
<p>Disc Circle</p>		<p>A circular OCT scan at 3.06mm diameter around the optic nerve head</p>	<ul style="list-style-type: none"> • Very quick scan time, ideal for patients with excessive blinking • Performs well through media opacities
<p>Disc Map</p>		<p>A disc circle, OCT cross and 128 vertical OCT scans covering a 9x9mm area</p>	<ul style="list-style-type: none"> • The most comprehensive scan pattern to give an overview of optic nerve health • Comparison to normative data • 3D viewing

Disc Radial		<p>12 scan lines in a clock like fashion centred on the disc</p>	<ul style="list-style-type: none"> • Extensive central cross over of scan lines for high resolution imaging of optic nerve head, useful for disease differential diagnosis • Scan width can be altered between 3mm,6mm and 9mm • Scan position can be altered to scan peripheral retinal points
Corneal Line		<p>A single OCT line scan centred on the cornea</p>	<ul style="list-style-type: none"> • Very quick scan time, ideal for patients with excessive blinking
Corneal Cross		<p>A single horizontal and single vertical OCT line scan, centred on the cornea</p>	<ul style="list-style-type: none"> • Very quick scan time, ideal for patients with excessive blinking • Cross over of scan lines centrally, increases resolution of central macula
Corneal Radial		<p>12 OCT scan lines in a clock like fashion centred on the cornea</p>	<ul style="list-style-type: none"> • Extensive central cross over of scan lines for high resolution imaging of central cornea, useful for disease differential diagnosis • Pachymetry map for the assessment of corneal thickness and ectasia • Scan width can be altered between 2mm, 4mm, 6mm and 9mm
ACA Line		<p>A single OCT line scan to image the anterior chamber angle</p>	<ul style="list-style-type: none"> • Quick scan time for assessment of structures of the anterior chamber angle

Photography:

The Nidek RSD OCT has the photography features, resolution and specifications as the Nidek AFC 330 automated fundus camera.

4 photography options (within 'FC' capture mode):

Normal

- automated macular centred photography to approximately 45 degrees field of view

Stereo

- 2 images captured 1mm nasal and 1mm temporal to the macula to create stereoscopic viewing

NB: Additional stereo viewer required for image analysis

Panoramic

- Automated program to capture 9 peripheral and central locations using internal fixation lights.

Field of view will be patient dependent up to around 75 degrees.

Anterior

- manual capture of anterior eye structures

