DRI OCT Triton

Swept Source Optical Coherence Tomography

SS OCT + Multimodal Fundus Imaging
Optimise Your Clinical Workflow







TRITON OVERVIEW







Deep Penetration, **Including Through Media Opacities such as Cataracts** and Haemorrhages¹



Multimodal Imaging, SS-OCT, Colour, Red-Free, IR, FA², FAF², OCT-A³ and Anterior³



Optimise Your Practice Workflow by Simplifying and Speeding Up Data Capture, Analysis and Follow-Up4



Wide-Field³ OCT/OCT-A Up to 21mm Wide



Higher Signal-to-Noise Ratio OCT/OCT-A Images with Smart Denoise

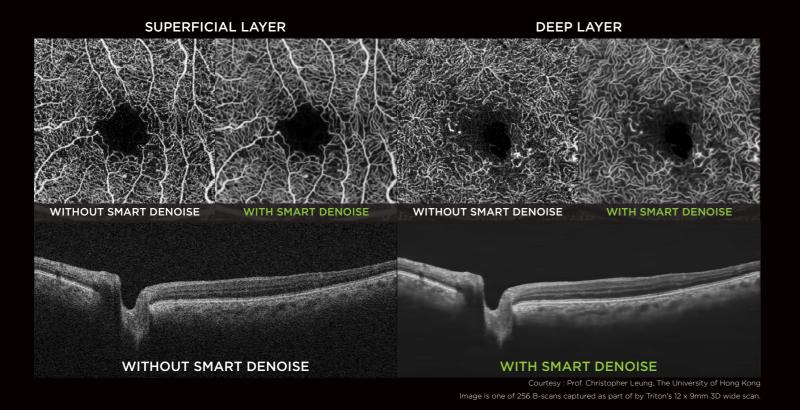
1 Hina Khan, Aamir Asrar, Bisma Ikram, Maha Asrar, Comparison of Image Quality between Swept Source and Spectral Domain OCT in Media Opacification,

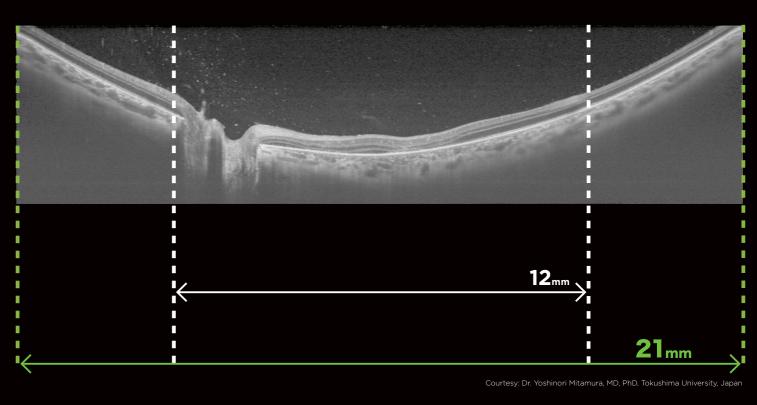
²Triton plus only

³Optional ⁴Rachel Hiscox, Clinical applications of optical coherence tomography: what should I know?, Optometry in Practice 2016, Col.17, Issue 2, 59-70

SMART DENOISE FUNCTION

WIDER OCT IMAGING





SMART DENOISE

Smart Denoise is an image processing algorithm which reduces artifacts and increases contrast. High quality OCT and OCT-A images with reduced noise signal are generated from every B-scan within the dense data cubes, through the use of Topcon's unique Al algorithm.



Image Processing by Topcon's Unique Al Algorithm



B-scan Smart Denoise for Dense 3D Scans



OCT-A Denoising for Superfical and Deep Slabs



Easy to Capture High Quality Images

WIDE-FIELD OCT

The optional wide-field attachment lens enables the capture of scans up to 21mm in length.

Gather more clinical insights with wide-field OCT and OCTA imaging is valuable in a wide variety of conditions.







Boosts Multimodal Imaging Capability



Quick and Easy to Attach the Lens



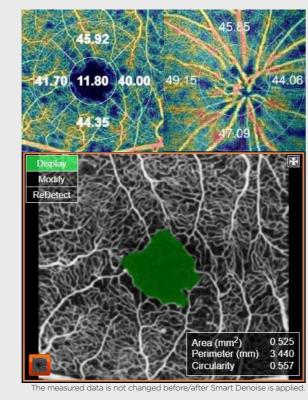
Wide-Field OCTA 21×21mm Wide

OCT Angiography with Swept Source OCT

TOPCON's SS OCT Angio TM combines OCT Angiography with Swept Source OCT technology and a long 1050nm wavelength. OCTARA TM , a proprietary image processing algorithm, provides highly sensitive angiographic detection 5 , allowing for visualisation of vascular structures.

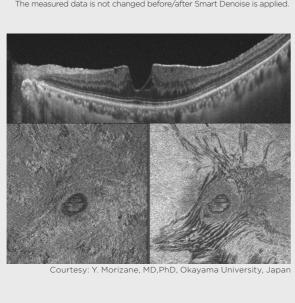
OCTA Metrics

Triton's SS OCT Angio displays OCTA density, the ratio between high and low signal areas, The information is displayed as a colour map with the ability to display values, for rapid comprehension.

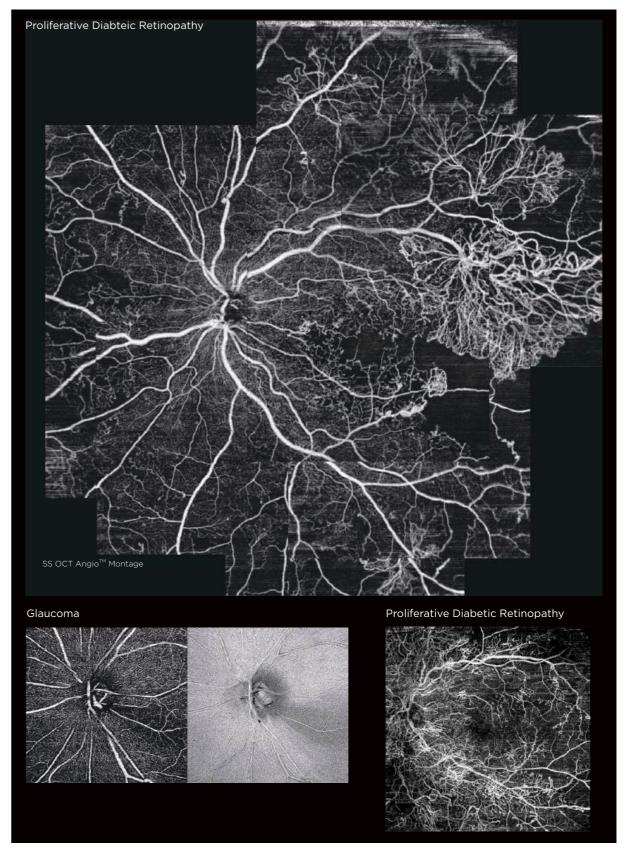


En Face OCT Imaging

En face imaging allows for independent dissection and examination of key layers, such as the vitreoretinal interface (ILM boundary), retinal pigment epithelium and choroidal layers.



⁵Magdy Moussa, Mahmoud Leila, Hagar Khalid. Imaging choroidal neovascular membrane using en face swept-source optical coherence tomography angiography. Clinical Ophthalmology 2017:11 1859–1869

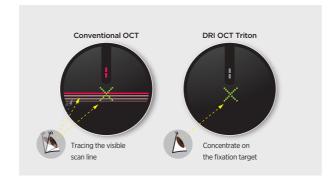


Swept Source OCT Technology; Scanning Speed of 100,000 A-scans/sec

A fast scanning speed of 100,000 A-scans/sec enables capture of a dense array of clear B-scans⁶ by acquiring more A-scans within a given image acquisition time. This helps to reduce artifacts from involuntary eye movements such as saccades and blinks.

Invisible Scan Lines

The invisible 1,050nm wavelength light helps patients concentrate on the fixation target during the scan, reducing involuntary eye movement. It supports more efficient workflow in a practice by reducing the need to rescan.



Multimodal Imaging

The DRI OCT Triton offers a true colour⁷, non-mydriatic fundus image. Fluorescein Angiography (FA) and Fundus Autofluorescence (FAF) are available to enhance the diagnostic capability of Triton plus^{*}. The all-in-one device supports efficient workflow in practice. DRI OCT Triton can acquire the OCT and fundus image in a single capture. PinPoint™ registration identifies the location of the B-scan on the fundus image. Comparison between the B-scan and fundus image can support efficient clinical diagnosis.



⁶ Shoji Kishi. Impact of swept source optical coherence tomography on ophthalmology. Taiwan Journal of Ophthalmology 6 (2016) 58-68

EVV (Enhanced Vitreous Visualization™)

EVV helps clinicians assess vitreous and vitreoretinal interface abnormalities⁸. Contrast can be quickly adjusted to the needs of the physician, depending on the area of greatest interest.

Triton's Dynamic Focus[™]

Triton's Dynamic Focus $^{\text{TM}}$ allows for acquisition of images with near uniform focus and image quality throughout the entire depth of the image, for example vitreous, retina and choroid.

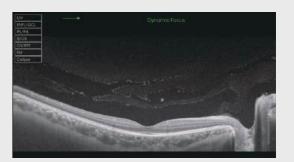
5 layer thickness map function/ Choroidal Thickness Map

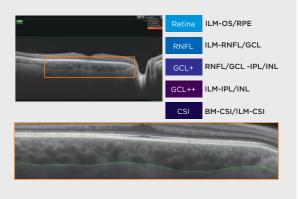
Retinal tissue layers are automatically segmented by the Topcon Advanced Boundary Software (TABSTM), enabling quantification of retinal thickness and sub layers^{9,10}. Triton provides clear visualisation of the choroid, and generates choroidal thickness maps to visualize choroidal structure and response to treatments.

Fundus Guided Acquisition (FGA)

OCT scan location can be easily set by selecting the area of interest on the fundus image. With FGA, the operator can choose to capture or import a fundus image, select the scan location and automatically acquire a B-scan or array of B-scans at that location.









⁸ Fabio Lavinsky, Daniel Lavinsky. Novel perspectives on swept-source optical coherence tomography. Int J Retin Vitr (2016) 2:25

 $^{^{7}\,\}text{Colour}$ fundus image with white light, with 24-bit colour.

^{*}Product name is DRI OCT Triton (plus)

⁹ Zhichao Wu, Denis S. D. Weng, Rashmi Rajshekhar, Abinaya Thenappan, Robert Ritch, Donald C. Hood. Evaluation of a Qualitative Approach for Detecting Glaucomatous Progression Using Wide-Field Optical Coherence Tomography Scans. Trans Vis Sci Tech. 2018;7(3):5.

¹⁰ Beatriz Abadia, Ines Suñen, Pilar Calvo, Francisco Bartol, Guayente Verdes, Antonio Ferreras. Choroidal thickness measured using swept-source optical coherence tomography is reduced in patients with type 2 diabetes. PLoS ONE 13(2): e0191977.

WORKFLOW ENHANCEMENT DIAGNOSTIC CAPABILITIES

Motion Correction Compensation/ Rescanning Function

Motion Correction

Corrects the Z direction movement

Compensation

Tracks the eye and then compensates for the X direction movement.

Rescanning Function

The rescanning function is available to minimise data loss due to blinking and Y direction eye movement during 3D OCT and 3D OCT Angiography scans.

$SMARTTrack^{TM}$

SMARTTrack[™] system enables to capture image of designated location by automated tracking of the eye. For the 3D OCT scan and OCT Angiography scan, rescan is performed when there is a data loss due to blink.

Projection Image

The projection image provides an easy means of confirming scan locations when the OCT image capture is not accompanied by a colour fundus image.

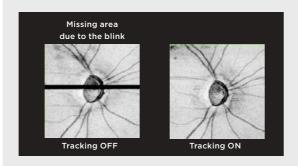
Alignment Navigation

Triton's alignment navigation guides simplify operation of the device and direct the operator to achieve optimal device positioning, reducing acquisition errors and supporting rapid capture.

Live Fundus View

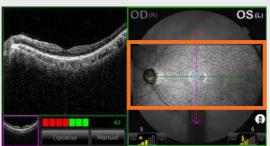
The fast scanning speed allows the Triton to create a live En Face fundus image, an ideal tool for precisely visualizing the scan position. This enables the operator to be sure they are capturing the correct area, even in patients with small pupils.











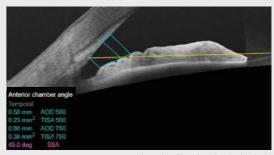
Follow-Up Function

This function allows you to retrieve and re-analyze the same location with follow-up scans, for seamless comparison of past and current scan data. Operators only need to select past data and Triton automatically captures the same area.

Anterior Segment Imaging

Triton's optional anterior segment imaging capabilities allow for visualisation of the cornea, anterior chamber angle, iris and anterior sclera. The anterior segment lens attachment is combined with quantitative analysis. The new anterior segment feature reaffirms Triton's value in comprehensive eye care settings.

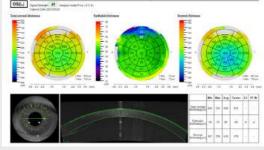




Anterior Chamber Angle Analysis



OCT image B-scan length in 16mm



Corneal Thickness Map Report



Hood Report

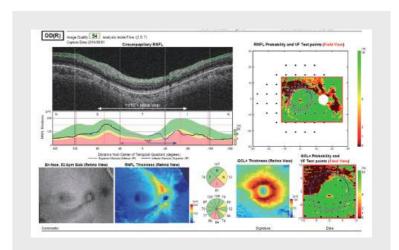
The Hood Report provides Retinal Thickness/ RNFL/ GCL and Circumpapillary Metrics in one scan. This report streamlines the decision-making process through the correlation of structural probability maps (GCC/RNFL) with function (overlay of visual field test locations)¹¹.

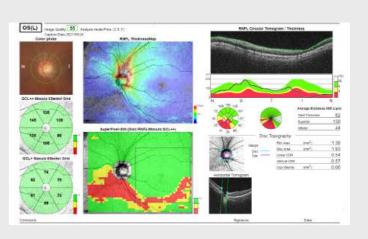
3D Wide Glaucoma Report

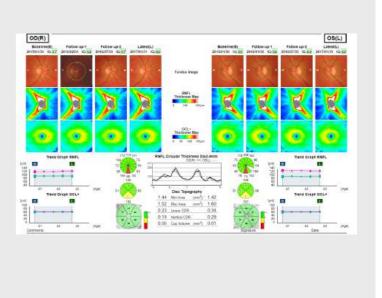
The 12x9mm wide-field scan covers the optic nerve and macula and can be captured in one acquisiton to provide a comprehensive assessment of the posterior pole with reference database comparison.

Trend Analysis Report

These reports show the change in thickness measurements over time. The layer displayed (RNFL/GCL+/GCL++) can be selected as required depending on the area scanned. Poor scans can be excluded and new baselines added when management changes.

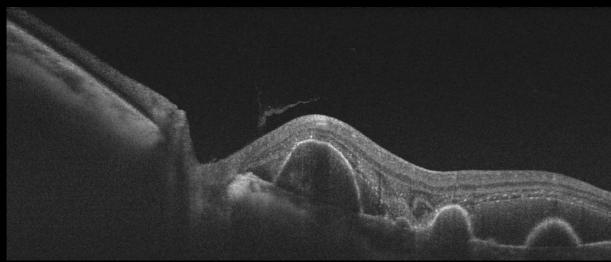


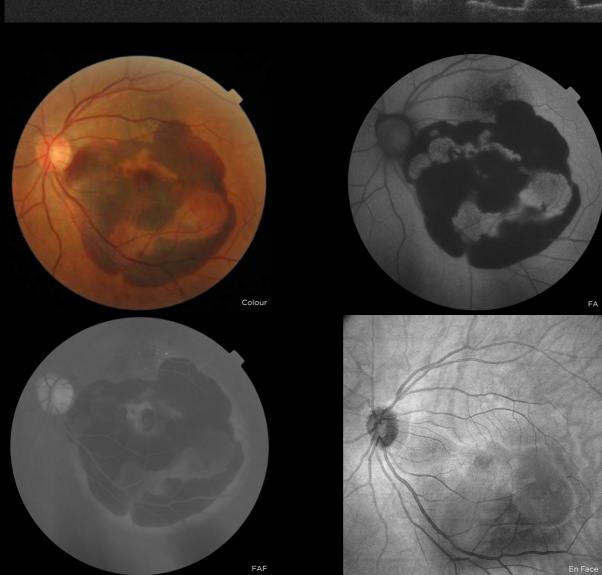




¹¹ Zhichao Wu, Denis S. D. Weng, Rashmi Rajshekhar, Abinaya Thenappan, Robert Ritch, Donald C. Hood. Evaluation of a Qualitative Approach for Detecting Glaucomatous Progression Using Wide-Field Optical Coherence Tomography Scans. Trans Vis Sci Tech. 2018;7(3):5.

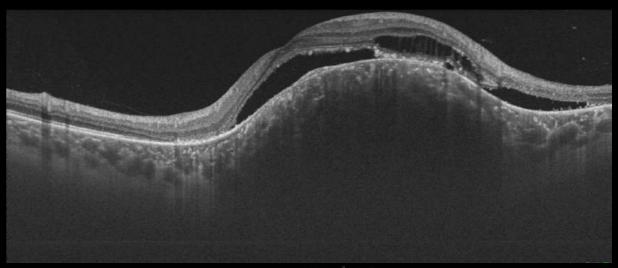
Polypoidal Choroidal Vasculopathy

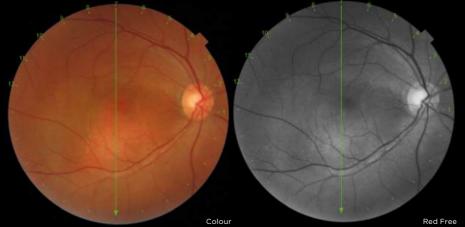




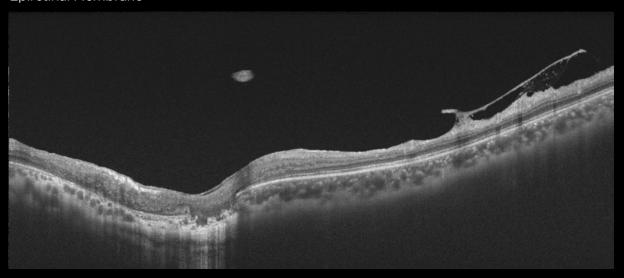
Courtesy: XZ,Zhang,Zhongshan Ophthalmic Centre, Sun Yat-Sen University

Choroidal Hemangioma



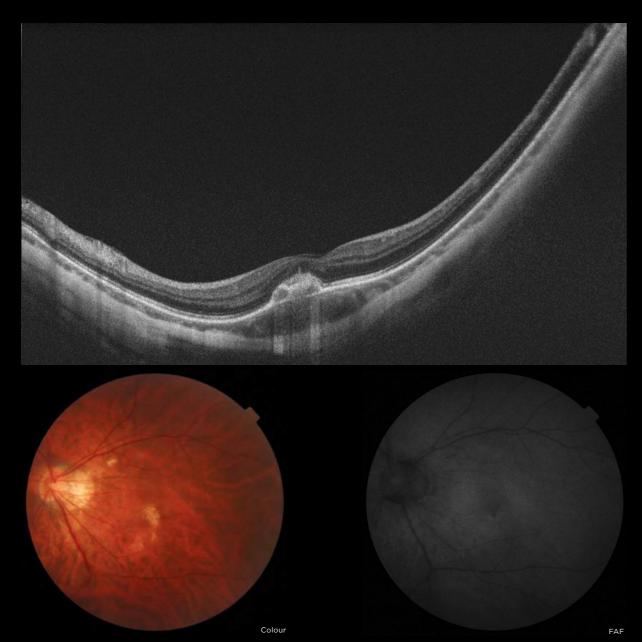


Epiretinal Membrane



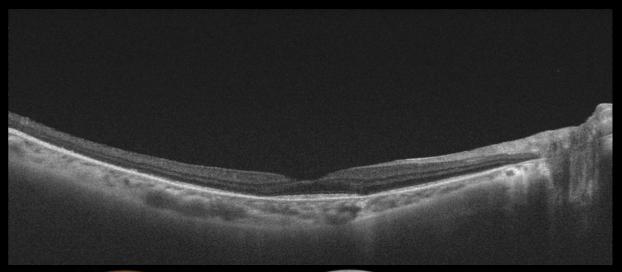
 ${\tt Courtesy: Prof.\ Wen,\ Zhongshan\ Ophthalmic\ Centre,\ Sun\ Yat-Sen\ University}$

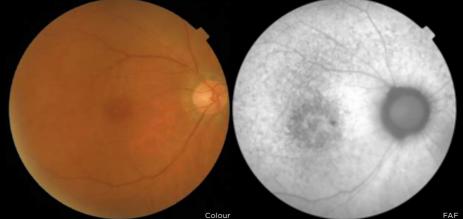
Punctate Inner Choroidopathy



Courtesy: Prof. Wen, Zhongshan Ophthalmic Centre, Sun Yat-Sen University

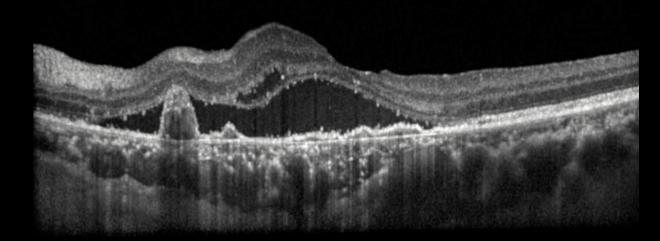
Uveitis





Courtesy: Prof. Min Wang, Eye, Ear, Nose and Throat Hospital, Fudan University

AMD



Courtesy: Dr. Kelvin Teo, MBBS, PhD, Associate Professor, Duke NUS Ophthalmology ACP Senior Consultant, Medical Retina Department, Singapore National Eye Centre

SPECIFICATIONS

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Measurable range of dioptric power for the patient's eye When the concave compensation lens :7D to +4DD Observation & Photography of Anterior Segment Image (**lose**) Observation & Photography of Anterior Segment Tomogram (**lose**) Scan range (on cornea) Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% Scan pattern 3D scan / Line scan (Line-scan/Radial-scan) Scan speed 100,000 A-scans per second Observation & Photography of Anterior Segment Image/Anterior Segment Tomogram (**lose**) Operating distance 17±0.5mm Internal fixation target LED target External fixation target LED target External fixation target Electric Rating Power input 250VA Dimensions & Weight Pinnensions 320-359 mm(W) X 523-554 mm(D) X 560-590 mm(H) Weight 18							
For the patient's eye When the concave compensation lens is used -33D to -5D							
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LED target External fixation target	Observation & Photography of Anterior Scan range (on cornea) Scan pattern Scan speed Observation & Photography of Anterior	Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% 3D scan / Line scan (Line-scan/Radial-scan) 100,000 A-scans per second Segment Image/Anterior Segment Tomogram (Note4)					
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Dimensions & Weight Dimensions 320-359 mm(W) X 523-554 mm(D) X 560-590 mm(H) Weight 21.8kg (DRI OCT Triton)	Observation & Photography of Anterior Scan range (on cornea) Scan pattern Scan speed Observation & Photography of Anterior Operating distance Fixation target	Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% 3D scan / Line scan (Line-scan/Radial-scan) 100,000 A-scans per second Segment Image/Anterior Segment Tomogram ^(Note4) 17±0.3mm Internal fixation target LED target External fixation target					
Dimensions 320-359 mm(W) X 523-554 mm(D) X 560-590 mm(H) Weight 21.8kg (DRI OCT Triton)	Observation & Photography of Anterior Scan range (on cornea) Scan pattern Scan speed Observation & Photography of Anterior Operating distance Fixation target Electric Rating Source voltage	Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% 3D scan / Line scan (Line-scan/Radial-scan) 100,000 A-scans per second Segment Image/Anterior Segment Tomogram (Note-4) 17±0.3mm Internal fixation target LED target External fixation target AC 100-240V					
Weight 21.8kg (DRI OCT Triton)	Observation & Photography of Anterior Scan range (on cornea) Scan pattern Scan speed Observation & Photography of Anterior Operating distance Fixation target Electric Rating Source voltage Power input	Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% 3D scan / Line scan (Line-scan/Radial-scan) 100,000 A-scans per second Segment Image/Anterior Segment Tomogram (Note4) 17±0.3mm Internal fixation target LED target External fixation target AC 100-240V 250VA					
Weight	Observation & Photography of Anterior Scan range (on cornea) Scan pattern Scan speed Observation & Photography of Anterior Operating distance Fixation target Electric Rating Source voltage Power input	Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% 3D scan / Line scan (Line-scan/Radial-scan) 100,000 A-scans per second Segment Image/Anterior Segment Tomogram (Note4) 17±0.3mm Internal fixation target LED target External fixation target AC 100-240V 250VA					
Weight	Observation & Photography of Anterior Scan range (on cornea) Scan pattern Scan speed Observation & Photography of Anterior Operating distance Fixation target Electric Rating Source voltage Power input Frequency Dimensions & Weight	Horizontal 3 to 16mm±5%, Vertical 3 to 16mm±5% 3D scan / Line scan (Line-scan/Radial-scan) 100,000 A-scans per second Segment Image/Anterior Segment Tomogram(Note-4) 17±0.3mm Internal fixation target LED target External fixation target External fixation target AC 100-240V 250VA 50Hz-60Hz					
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Note1: FA photography and FAF photography can be performed only with the DRI OCT Triton (plus).

Note2: Digital red free image processing of colour images to display them as pseudo Red-free images.

Note3: Observation & Photography of Wide field Fundus Tomogram are available only when using Wide field OCT attachment lens WA-1.

Note4: Observation & Photography of Anterior Segment Image and Tomogram are available only when using ANTERIOR SEGMENT ATTACHMENT KIT AA-1.

	Colour	FA	FAF	En Face	Red-Free	Anterior*	OCT-A*	WF OCT*
Triton	0	-	-	0	0	0	0	0
Triton plus	0	0	0	0	0	0	0	0





IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation cts, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability

TOPCON INSTRUMENTS (MALAYSIA) SDN. BHD.

(Regional Office for Topcon Healthcare Southeast Asia)
Unit 2, 4, Jalan Pensyarah U1/28, Hicom-glenmarie Industrial Park,
40150 Shah Alam, Selangor, MALAYSIA
Phone: +603-766 16260 Fax: +603-766 16261
Email: mys_tim_marketing_sm@topcon.com
www.topconhealthcare.my

TOPCON SINGAPORE MEDICAL PTE. LTD.

OPCON SINGAPORE MEDICAL PTE. LTD.
100G Pasir Panjang Road, #02-18, Interlocal Centre,
SINGAPORE 118523
Phone: +65-68720606 Fax:+65-67736150
E-mali: med.sales.sg@topcon.com
www.topconhealthcare.sg

TOPCON INSTRUMENTS (THAILAND) CO., LTD.

T/7/162 Sinnsathorn Tower, 37th Floor, Krungton, Dir T/7/162 Sinnsathorn Tower, 37th Floor, Krungtonbonburi Klongtonsai, Klongsarn, Bangkok 10600, THAILAND Phone: +66-02-440-1152 Fax: +66-02-440-1158 Email: tha_medical@topcon.com www.eyecare.topcon.co.th

MEHRA EYETECH PRIVATE LIMITED

VICHIKA ETELECH PRIVATE LIMITED

801 B Wing, Lotus Corporate Park, Graham Firth Steel Compound
Goregaon (East) Mumbai 400063 Maharashtra, INDIA
Phone: +91-22-61285455
E-mail: sales@mehraeyetech.in
www.topconhealthcare.in

TOPCON (BEIJING) MEDICAL TECHNOLOGY CO., LTD.

Room 2808, Tower C, JinChangAn Building, No.82, Middle Section East 4th Ring Road, Chaoyang District, Beijing 100124, P.R. CHINA Phone: +86-10-8794-5176

E-mail: cn_marketing@topcon.com
www.topcon-china.net/

OPCON KORE

TOPCON KOREA MEDICAL CO., LTD.

2F YK Building, 205, Dogok-ro, Gangnam-gu, Seoul, Republic of Korea Phone :+82-2-6959-7947 E-mail:tkm@topcon.com www.topconhealthcare.kr/





■ TOPCON CORPORATION

75-1 Hasunuma-cho, Itabashi-ku, Tokyo 174-8580, JAPAN. Phone: +81-(0)3-3558-2522/2502 Fax: +81-(0)3-3965-6898 www.topconhealthcare.jp

