The DRI OCT-1 Triton Series consists of the DRI OCT-1 Model Triton and the DRI OCT-1 Model Triton (plus).
Welcome to the New Frontier in OCT Imaging

The DRI OCT-1 Triton Series combines the world’s first swept source OCT technology with multimodal fundus imaging. Multimodal All-in-One fundus imaging tool will bring the next level of diagnostic capability to you and your patients.

Unprecedented image quality
Triton’s swept source with its fastest scanning speed and longer 1,050nm wavelength results in stunningly clear, detailed images, even into the deepest layers of the eye with short acquisition time. You will not only see the retina and vitreous, but also the choroid and the sclera like never before.

Remarkable diagnostic capability
Seeing deeper makes it possible to have a better understanding of many ocular pathologies, and may provide the advantage of early disease detection and monitoring. Combined with unique features such as OCT Angiography and En-face imaging, Triton empowers you to take proactive steps to preserve your patients’ eye health.

Greater clinical efficiency
A wealth of automated and intuitive functions, including single-scan captures and the new SMARTTrack™ system, are designed to optimize your practice workflow by simplifying data capture, analysis, and follow-up.

“I find Swept Source OCT an essential tool to look for biomarkers of disease regression or progression.”

Prof. P. E. Stanga,
Manchester Royal Eye Hospital, Manchester Vision Regeneration (MVR) Lab at NIHR/
Welcome Trust Manchester CRF & University of Manchester
Proliferative diabetic retinopathy

Central serous retinopathy

*FA photography and FAF photography can be performed using only DRI OCT-1 Model Triton (plus).

Courtesy: Prof. P. E. Stanga, Manchester Royal Eye Hospital, Manchester Vision Regeneration (MVR) Lab at N IHR/ Welcome Trust Manchester CRF & University of Manchester

Lateral: 12mm
**Pathological myopia**

![Image of pathological myopia with annotations]

*Lateral: 12mm*

*Courtesy: Prof. P. E. Stanga, Manchester Royal Eye Hospital, Manchester Vision Regeneration (MVR) Lab at NIHR/Welcome Trust Manchester CRF & University of Manchester*

**Macular pucker**

![Image of macular pucker with annotations]

*Lateral: 12mm*

*Courtesy: Prof. P. E. Stanga, Manchester Royal Eye Hospital, Manchester Vision Regeneration (MVR) Lab at NIHR/Welcome Trust Manchester CRF & University of Manchester*

**Image through cataract**

![Image of image through cataract with annotations]

*Lateral: 12mm*

*a)*

*Courtesy: Kazuya Yamagishi, MD (Hirakata Yamagishi Eye Clinic, Japan)*

*b)*

*c)*
Swept Source Takes OCT Technology to a Whole New Dimension.

**Envision the possibilities**
The DRI OCT-Triton Series swept source OCT technology and long wavelength 1,050nm light enable both a deeper imaging range and a better tissue penetration, compared with the conventional spectral domain OCT. The OCT images captured by the DRI OCT-Triton Series are clearly described from vitreous, retina and choroid in a single capture, without degrading OCT image quality in deeper depth. The longer wavelength reduces risks of light attenuation by cataract and vitreous opacity, making OCT imaging more feasible for the patients with those diseases. Advantages of the DRI OCT-Triton Series technology improvement over the conventional spectral domain OCT will provide more information for your diagnosis and more comfort for your patients. Its advanced technology that everyone can appreciate.

**Optimized wavelength for retinal imaging: 1,050nm**
The longer wavelength light provides better tissue penetration, allowing visualization into the deepest layers of the eyes – even through cataracts, hemorrhages, and blood vessels.

**Swept Source OCT technology: the world's fastest scanning speed**
Swept source technology provides the world's fastest 100,000 A-scan/sec in the current conventional Spectral Domain OCT. The faster scanning speed enables capturing a clear B-scan by acquiring more A-scans within a given image acquisition time. It helps to reduce error of the involuntary eye movement.

**Invisible scan lines**
The invisible 1,050nm wavelength light helps patient to concentrate on the fixation target during the measurement, reducing involuntary eye movement. It supports more efficient workflow in a practice by reducing re-scan.

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**Swept Source OCT Angiography**
OCT Angiography is a novel and non-invasive imaging technique to visualize the microvascular network. It is now available any time you need it. The optional OCT Angiography module offers non-invasive observation of the microvascular structures reducing the need for conventional fluorescein angiography.

- By utilizing cutting-edge swept source technology with a 1,050nm wavelength, high-quality OCT Angiography images are acquired
- Easier recognition of abnormalities by using layer by layer “tissue peeling” intuitive graphical user interface
- Improved patient comfort*4 - no dyes or dilation required, rapid capture with our intuitive graphical user interface
- Direct comparison and registration with fundus images in IMAGEnet 6

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**Swept Source OCT Angiography scanning line may be visible during capture to some people under certain conditions**

**Viewing an OCT Angiography image is possible only in combination with IMAGEnet 6. Not available for sale in the US**

**OCT Angiography is optional software**

**Compared to conventional fluorescein angiography**

**Optional software. Not available for sale in the US.**

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*According to the TOPCON survey May 2015

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*Courtesy: Professor Jose Maria Ruiz Moreno, University of Albacete, Spain.

*Courtesy: Dr. A. Ishibazawa and Prof. A. Yoshida (Asahikawa Medical Univ., Japan)

*According to the TOPCON survey May 2015

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*Compared to conventional fluorescein angiography

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*Optional software. Not available for sale in the US.
Improved Clinical Efficacy With Sophisticated Analysis Functions.

en face OCT imaging
en face imaging allows for independent dissection of the vitreoretinal interface, retina, retinal pigment epithelium (RPE), and choroid by flattening B-scan image. Pathology throughout the posterior pole can be studied and correlated with a patient’s symptoms, their abnormality, and its progression.

To visualize vitreous
Dynamic Focus™
To enhance weak signal in vitreous part, the DRI OCT-1 Triton Series advanced capturing technique, named “Dynamic focus”, enables the acquisition of high-quality and uniform image quality with a focus uniformly focused across the entire imaging range.

EVV (Enhanced Vitreous Visualization™)
Improved vitreous visualization with DRI OCT-1 Triton Series helps assess the nature of vitreoretinal interface abnormalities. Contrast can be quickly adjusted to the needs of the physician, depending on the area of greatest interest.

Normative database1 with swept source OCT
The DRI OCT-1 Triton Series includes a normative database for statistical comparison of the thickness maps and parameters. By comparing individual measurement value with the corresponding normative range, the DRI OCT-1 Triton Series provides you with a powerful reference tool to enhance your analysis in both research and patient diagnosis.

7 boundaries segmentation/5 layers thickness map/caliper function
Retinal tissue layers are automatically segmented by the Topcon Advanced Boundary Software (TABS™), enabling to quantify the internal thickness for change analysis.

Accurate choroidal thickness maps
The choroid reveals valuable information about the health of the eye. High-speed choroidal thickness maps are crucial for early disease recognition and monitoring of inflammatory abnormalities. For example, a thin choroid can be an indication of myopic or choroidal atrophy. A thick choroid may indicate the presence of choroiditis, Central Serous Chorioretinopathy (CSCR) or hyperopia.

1. Not available for sale in the US.

1. Not available for sale in the US.
DRI Meets Multimodal Fundus Imaging: See the Whole Picture.

Swept Source OCT incorporates multimodal fundus imaging
The DRI OCT-1 Triton Series can acquire the OCT and fundus image in a single capture. Pinpoint Registration™ identifies the location of B-scan on the fundus image. Clear comparison between the B-scan and fundus image can support clinical efficiency during diagnosis.

Stereo photography
Three dimensional visualization of color fundus image can be achieved by acquiring the images in stereo photography mode. The DRI OCT-1 Triton Series monitor guidance provides quick and easy operation with auto alignment function for a stereo pair.

Panoramic wide field photography
In addition to macula and disc image, the DRI OCT-1 Triton Series allows you to acquire wide coverage of the retina. With these images, a panoramic graphic can be created on the optional software.

High-quality fundus images
The DRI OCT-1 Triton Series offers a color, non-mydriatic fundus image. Fundus Angiography (FA) and Fundus Autofluorescence (FAF) are available to meet your needs. The all in one device supports efficient workflow in practice.*

*DRI OCT-1 Model Triton (plus):
   OCT (Anterior OCT (option)), OCT Angiography (option), Color / Red-Free
   FA / FAF
   DRI OCT-1 Model Triton
   OCT, Anterior OCT (option) / OCT Angiography (option), Color / Red-Free

Color red free
DRI Meets Multimodal Fundus Imaging: See the Whole Picture.
SMARTTrack™ makes tracking ingeniously simple

The new SMARTTrack™ tool enhances the tracking and follow-up ability of Triton with a variety of functions designed to enhance its user-friendliness:

- Fundus-Guided Acquisition (FGA)
- Follow-up Function
- Tracking photography

**Smart Guided Acquisition (FGA)**

OCT scan location can be easily set by selecting the scan area on the fundus image, making fundus abnormalities viewable with no additional operator steps required. With FGA, the operator can choose to take or import a fundus image, select the scan location, and automatically acquire a B-scan.

**Follow-up function**

This function allows you to retrieve and reanalyze the same location at follow-up, for comparison of past and current images. All an operator needs to do is simply select the past data, and the DRI OCT-1 Triton Series automatically captures the same area. Comparison of the same area supports diagnostic accuracy.

**Motion Correction / Compensation / Rescanning Function**

- **Motion Correction**
  Corrects the Z direction movement
- **Compensation Function**
  Tracks the eye and then compensates for the X direction movement.
- **Rescanning Function**
  The scanning area may be missed due to Y direction eye movement. In such a case, the rescanning function automatically activates. It automatically rescans the missing scan area.

**Alignment navigation**

When an operator wishes to acquire an image, the DRI OCT-1 Triton Series monitor guides the operator to reduce potential errors and make operation simple.

- Auto focus and auto shoot, in color/FAF mode
- Auto focus, auto-Z and Z-lock function, in OCT mode

**The small pupil solution**

- **Live Fundus View**
  The fast scanning speed allows the DRI OCT-1 Triton Series to create a live en face fundus image, an ideal tool for precisely locating the scan position. Therefore the disc, retinal vessels and scanning position are easy to see, even in patients with small pupils.
- **OCT capture mode without retinal photography**
  The DRI OCT-1 Triton Series can also capture a 3D scan, with or without color fundus photography, to avoid a mistic response and better meet the needs of patients with small pupils.
Powerful reporting for enhanced decision making
The DRI OCT-1 Triton Series comprehensive data analysis options make it easy to monitor patients with individual measurement data and corresponding normative data range. Therefore, you can have better support for the diagnosis, treatment and management of patients with glaucoma and macular degeneration, as well as other conditions.

Combination scan
This new scan pattern provides both 3D wide scan (12mm x 9mm) and Line / 5 line cross / radial scan. Now TOPCON OCT models offer the option to capture B-scan and 3D images at the same time. The new combination scan provides a thickness map, 3D image and an overlapped clear B-scan image in a single capture.

Anterior segment imaging
The DRI OCT-1 Triton Series has optional anterior imaging capabilities to enhance anterior segment data collection. The anterior segment attachment ensures sharp images, even in the periphery and the anterior chamber.

Anterior segment attachment kit*
1. Anterior segment attachment
2. Head rest attachment

*Observation & photography of the anterior segment can be performed only when the optional anterior segment attachment kit is used.

Image samples
OCT image B-scan length 16mm
Anterior segment in Radial scan
Anterior segment in 3D scan
View Any Data, Anywhere, Any Time.

Transform the way you manage ophthalmic data and images

Widely Connected
IMAGEnet 6 uses a web-based application, your patient data can be accessed from any PC or tablet in your practice or hospital network.

With accessibility from any devices which you pick up at that time, more convenience and more flexibility will support your efficient work flow.

Impressively Comprehensive
Now you can review all data captured by any TOPCON device with one software application.** All the data you need can be shown on one screen to support a deeper understanding of your patient’s condition.

Remarkably Easy
The data you need is just a click away. IMAGEnet 6 was developed to give you a simple and efficient way to review data with informative one-page Graphical User Interface (GUI) and fast response time.** Web-based application requires no installation to each device for easy maintenance. It allows you to spend more time on what matters—your patients.

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** TOPCON instrument only.
** Internal hospital only.
** Capture software is required.
** Compared to current OCT software.

Line-up

<table>
<thead>
<tr>
<th></th>
<th>SS-OCT</th>
<th>Color</th>
<th>Red-free</th>
<th>FA</th>
<th>FAF</th>
<th>Anterior OCT</th>
<th>OCT Angiography</th>
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<tbody>
<tr>
<td>DRI OCT-1 Triton</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>-</td>
<td>-</td>
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<td>✔</td>
<td>✔</td>
<td>Option</td>
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</tr>
</tbody>
</table>
### Specifications

#### Observation & Photography of Fundus Image

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Photography Type</strong></td>
<td>Color, FA*, FAF*, Red-free**</td>
</tr>
<tr>
<td><strong>Picture Angle</strong></td>
<td>45°</td>
</tr>
<tr>
<td><strong>Operating Distance</strong></td>
<td>34.8mm</td>
</tr>
<tr>
<td><strong>Photographable Diameter of Pupil</strong></td>
<td>Normal: φ 4.0mm or more</td>
</tr>
<tr>
<td></td>
<td>Small pupil diameter: φ 3.3mm or more</td>
</tr>
</tbody>
</table>

#### Observation & Photography of Anterior Segment

- **Photography type**: IR
- **Operating distance**: 17mm
- **Scan range (on cornea)**: Horizontal Within 3 to 16mm, Vertical Within 3 to 16mm
- **Scan pattern**: 3D scan, Linear scan (Line-scan/Radial-scan)
- **Scan speed**: 100,000 A-Scans per second
- **Fixation target**: Internal fixation target
- **Operating distance**: 17mm
- **Scan range (on cornea)**: Horizontal Within 3 to 16mm, Vertical Within 3 to 16mm
- **Scan pattern**: 3D scan, Linear scan (Line-scan/Radial-scan)
- **Scan speed**: 100,000 A-Scans per second
- **Fixation target**: Internal fixation target

#### Electric Rating

- **Power Source**: Voltage: 100-240V, Frequency: 50-60Hz
- **Power input**: 250VA

#### Dimensions / Weight

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>320-359 mm(W) X 523-554 mm(D) X 560-590 mm(H)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>21.8kg (DRI OCT-1 Model Triton), 23.8kg (DRI OCT-1 Model Triton (plus))</td>
</tr>
</tbody>
</table>

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*: FA photography and FAF photography can be performed in only DRI OCT-1 Model Triton (plus).

**: This digital red-free photography, the color image is processed and is displayed as a pseudo red-free photographed image.

***: Observation & photography of anterior segment can be performed only when the anterior segment attachment kit is used.