INTRODUCTION

Thank you for purchasing the TOPCON DRI OCT Triton Optical Coherence Tomography.

INTENDED USE / INDICATIONS FOR USE

PC SOFTWARE EDITION

The TOPCON DRI OCT Triton is a non-contact, high-resolution tomographic and bio-microscopic imaging device. It is indicated for in-vivo viewing, axial cross-sectional and three dimensional imaging, and measurement of posterior ocular structures, including the retina, retinal nerve fiber layer, ganglion cell plus inner plexiform layer, ganglion cell complex, macula, optic nerve head, and choroid. The DRI OCT Triton is intended for use as a diagnostic device to aid in the detection and management of ocular diseases including, but not limited to, macular holes, cystoid macular edema, diabetic retinopathy, age-related macular degeneration, and glaucoma.

OCT Viewer for DRI OCT Triton
To analysis fundus image and optical coherence tomography.

FEATURES

This instruction manual has been created with the purpose of providing users with instructions on operating methods for the DRI OCT Triton software and OCT Viewer for DRI OCT Triton, and as a reference during use. This instruction manual does not provide information on image photography methods or diagnosis methods for photographed images. See the "DRI OCT Triton USER MANUAL (for instrument body) for information on image photography methods.

This instructions manual applies to the following devices.
Applicable devices:DRI OCT Triton,DRI OCT Triton plus.

Photography functions may differ depending on the devices connected.

DRI OCT Triton* :Not equipped with the FA/FAF photography function
DRI OCT Triton(plus)* :Equipped with the FA/FAF photography function
("Each of "DRI OCT Triton" and "DRI OCT Triton(plus)" is Model number.)

PURPOSE OF THIS MANUAL

This manual explains the details of the function and use method to make a good use of the DRI OCT Triton analysis software and OCT Viewer for DRI OCT Triton. Before using the software, carefully read this manual to ensure that you operate it efficiently and safely. Always keep this manual at hand to make a good use of it.

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• The Instruction manual is made on an assumption that the user already has knowledge about the operation system of the personal computer and Microsoft Windows. The Instruction manual does not describe the details on how to handle common operation procedures of the personal computer and Microsoft Windows.
Topcon Corporation shall not take any responsibility for the results caused by wrongly operating the personal computer and/or Microsoft Windows.
• The specifications of the software and description of the Instruction manual are subject to change without advance notice.

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2. The contents of this manual are subject to change without prior notice and without legal obligation.
3. The contents of this manual are correct to the best of our knowledge. Please inform us of any ambiguous or erroneous descriptions, missing information, etc.
4. Original Instructions
   This manual was originally written in English.
DISPLAYS AND SYMBOLS FOR SAFE USE

To encourage safe and proper use and to prevent danger to the operator and others or potential damage to property, warnings and cautions are placed on the instrument body and inserted in the manual. We suggest that everyone understand the meaning of the following display, icons and text before reading the "GENERAL SAFETY INFORMATION" and observe all listed instructions.

DISPLAY

<table>
<thead>
<tr>
<th>Display</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOTE</td>
<td>Useful functions to know. Paying attention to these will prevent the noted problems.</td>
</tr>
</tbody>
</table>

SYMBOL

<table>
<thead>
<tr>
<th>Symbol</th>
<th>IEC/ISO Publication</th>
<th>Description</th>
<th>Description (French)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ISO 7000-3082</td>
<td>Manufacturer</td>
<td>Fabricant</td>
</tr>
<tr>
<td>[ ]</td>
<td>ISO 15223-1</td>
<td>Authorised Representative in the European Community</td>
<td>Représentant autorité pour l'Union européenne</td>
</tr>
</tbody>
</table>

GENERAL SAFETY INFORMATION

You ("User") are expected to comply with the following terms in relation to usage of this software ("Software"). Upon usage of the Software, User acknowledges and agrees to take appropriate precautions to prevent unauthorized use by any third party or leakage of data.

- User shall take necessary and appropriate precautions and exercise the reasonable degree of care insafeguarding user ID and password assigned to each employee of User who use the Software and operates the computer on which the Software runs, to prevent unauthorized use or access by any third party.
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- The data and/or database files obtained through the Software based on client-server configuration maybe placed on network. User shall be responsible for access control of the files as well as the folders that record such files.
- User shall properly manage computers, devices and media that record data obtained through use of the Software and back up data to prevent theft or unauthorized use by any third party.
### Environment for Operation

The following tables show the performance of the commercial personal computer (PC) to which the analysis software can be installed and the image display monitor which should be combined with the PC.

<table>
<thead>
<tr>
<th>NOTE</th>
<th>When changing the display (for example, zooming in/zooming out the image) repeatedly, sometimes part of the image cannot be displayed due to the personal computer status. In this case, the image is displayed correctly by changing the display status again.</th>
</tr>
</thead>
</table>

#### Performance of the commercial personal computer

| OS | • DRI OCT Triton software:  
Microsoft Windows® 8.1 Pro 64bit  
• OCT Viewer for DRI OCT Triton:  
One of the following types of software must be used.  
Microsoft Windows® 8.1 Pro 64bit  
Microsoft Windows® 7 Professional 64bit SP1 or higher |
| --- | --- |
| CPU | Intel Core i7 2600 (3.4GHz) or other CPU having higher speed  
[Recommended: Intel Core i7 3930K (3.2GHz)] |
| Memory (RAM) | 8GB or more  
[Recommended: 16GB] |
| Hard disk | 2TB or more  
(Recommended: RAID configuration) |
| Drive | DVD-Multi drive |
| Graphics card | VRAM of 1GB or more with OpenGL capability |
| Network card | Applicable to PCI Express Gigabit (for connecting DRI OCT Triton).  
When connecting to the network in medical facilities, another LAN terminal is necessary. |
| Database | One of the following servers must be installed.  
Microsoft SQL Server 2012  
Microsoft SQL Server 2008 R2 |
| Browser | When Windows® 8.1 is used:  
Internet Explorer 11  
When Windows® 7 is used:  
One of the following browsers must be installed.  
Internet Explorer 11, Internet Explorer 9, Internet Explorer 8 |

| NOTE | • When using Express Edition as a database, it does not operate correctly if the system manages an enormous amount of patients/photographed data. In this case, please use Standard Edition or higher.  
• If you use other browsers except the specified ones, a report cannot be created. Please use the specified browsers. |

#### Image display monitor

| Resolution | 1280x1024 pixels or more  
[Recommended: 1680x1050 pixels] |
| Display color | Full-color display |
| Screen DPI setting | 100% |
OPERATING AND USAGE METHOD

Starting and Exiting the DRI OCT Triton/OCT Viewer Program

• Starting
  1. To Start the DRI OCT Triton/OCT Viewer Program
     Double-clicking the [DRI OCT Triton] icon on the desktop will start DRI OCT Triton.
     To start the OCT Viewer, double-click the [OCT Viewer] icon on the desktop.

  2. Enter the user ID and password on the log-in screen.
     Main screen appears.

• To Exit the DRI OCT Triton/OCT Viewer Program
  1. Click X or Close.

• Tool bar Icons
  To use the DRI OCT Triton and OCT Viewer program, click each icon to select the function from the screen.

Icons on the tool bar

<table>
<thead>
<tr>
<th>Icon</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Save" /> <strong>Overwrite save</strong></td>
<td>When the image is changed, the current image is overwritten and then saved.</td>
</tr>
<tr>
<td><img src="image" alt="Print Screen" /> <strong>Print Screen</strong></td>
<td>Prints the displayed image with the connected printer.</td>
</tr>
<tr>
<td><img src="image" alt="Select" /> <strong>Select</strong></td>
<td>Returns to the patient selection window.</td>
</tr>
<tr>
<td><img src="image" alt="Capture" /> <strong>Capture</strong> (This is not displayed on OCT Viewer.)</td>
<td>The user can perform photography.</td>
</tr>
<tr>
<td><img src="image" alt="Viewer" /> <strong>Viewer</strong></td>
<td>The user can perform analysis.</td>
</tr>
<tr>
<td><img src="image" alt="Report" /> <strong>Report</strong></td>
<td>The user can display, edit and print the report.</td>
</tr>
<tr>
<td><img src="image" alt="Compare ALL" /> <strong>Compare ALL</strong></td>
<td>The user can compare the images of different scan modes.</td>
</tr>
<tr>
<td><img src="image" alt="Compare" /> <strong>Compare</strong></td>
<td>Displays the comparison screen.</td>
</tr>
<tr>
<td><img src="image" alt="Trend" /> <strong>Trend</strong></td>
<td>Displays the &quot;Trend Analysis&quot; screen.</td>
</tr>
<tr>
<td><img src="image" alt="Selection of layer detection display (fundus)" /> <strong>Selection of layer detection display (fundus)</strong></td>
<td>Changes the tomogram layer of fundus.</td>
</tr>
<tr>
<td><img src="image" alt="Color set" /> <strong>Color set</strong></td>
<td>Displays the color adjustment window of the OCT image.</td>
</tr>
</tbody>
</table>
2. Options Settings
   Make changes to various options.
   Selecting [Tools] - [Options...] from the menu displays the Options dialogue box.
Capturing Tomograms (Excluding the OCT Viewer)

From the "Main" screen, you can shift to the screens for patient registration, patient selection, data selection, photography, "View" and data management.

1. Selecting the Patient
   Select the patient you want to photograph. If they are a new patient, click the Register New Patient button.

   2.1 To Register a New Patient
      1) Enter the patient information in the dialog box, as desired. Be sure to input the ID.
      2) You can enter the eyeball refraction data to [Ocular Parameters].

   2.2 Selecting the photography mode

2. Photography Window
   Click the Capture button after selecting the added patient, or from the patient search panel if patient information is already saved in the database.

3. Fundus Tomography Data Display
   After scan pattern is selected in the instrument body and photographing is finished, the photographed image is displayed.
   Can be used with the following scan patterns.
   • Line Scan
   • 5Line Cross Scan
   • Radial Scan
   • 3D Macula(H) Scan
   • 3D Disc Scan
   • 3D Wide(H) Scan
   • 3D Macula(V) Scan
   • 3D Wide(V) Scan
   • Combination Scan (3D(H)+Line Scan, 3D(H)+5Line Cross Scan, 3D(H)+ Radial Scan, 3D(V)+Line Scan, 3D(V)+5Line Cross Scan, 3D(V)+ Radial Scan)
   • OCT Angiography

4. Anterior Segment Photography Data Display
   After scan pattern is selected in the instrument body and photographing is finished, the photographed image is displayed.
   Can be used with the following scan patterns.
   • Radial Anterior Segment Scan
   • Line Anterior Segment Scan
   • 3D Anterior Segment Scan
5. Fundus Photography Data
Select the "Fundus Photo" mode in the OCT instrument body. The top screen is changed and the system shifts to the fundus grabber mode. You can edit or output the photographed fundus image. You can also access the fundus grabber mode by clicking [Fundus mode] on the Fundus mode bar.

Setting
Shift to the grabber setting screen of the "Fundus photography" tab in OCTSet.exe (OCT software configuration) to set a variety of data related to the fundus grabber.

* In the OCT instrument of the type without the color fundus photography function, the fundus grabber mode cannot be used.

6. Saving and Deleting Captured Tomograms
To Save a Tomogram
After imaging and overlapping, the captured tomogram is automatically saved. The saved thumbnail is marked with "S". Then, analysis is automatically done. After analysis, the thumbnail is marked with "P".

To Delete a Tomogram
Highlight the thumbnail and click the [Delete] button in the [Thumbnail] panel.

7. Display Report of the Photographed Tomogram
• Displaying the report
• Editing the report
• Printing the report
• Export of report
• Making the both eyes report
Displaying Tomograms

On the Main window, you can navigate to the Select Patient, Select Data, "View" and Manage Data windows.

1. Selection Mode Window
   The selection mode window has three types of interfaces and you can select them by the following tabs (at the upper left corner on the screen).
   1) Grid (default)
   2) Thumbnail
   3) Date

2. Selecting and Retrieving the Patient
   Select and retrieve the patient from the Search Patient Panel.
   Click the name of the patient whose image is to be displayed from the patient list of the Search Patient Panel.
   Only one line of data (only one patient) can be selected at a time. The selected patient's name is highlighted in orange, and their tomogram data is displayed in the data list.
   Retrieve the patient list by using the following items in the Patient Search Box:
   • ID
   • First Name
   • Last Name
   • Diagnosis
   • Physician
   • Last Visit

3. Operating through Data List
   Data List Content
   Selecting the desired patient from the Search Patient Panel sorts the photography data by the following items and displays them in the Data List.
   Date : The date when the picture was captured
   Time : The time when the picture was captured
   Scan Mode : Scan mode used for photographing
   Eye : Right eye (OD (R)) or left eye (OS (L))
   Fixation : Fixation type set in photography
   Capture Mode : Photography mode of the captured image (IR/Color/FAF)
   FollowUp : Shows that the data was obtained by "Follow Up" photography (Follow) or it was "Base-Line" of the selected data (Base).
   Analysis : Indicates whether or not the data was analyzed and the analysis mode.
   File No. : Name of the file that saves the captured and analyzed data.
   Archive Disk : The archive disk number where the image data resides
   Revised : Times of the data revision
4. View Window

Double-click "Data list", and the View Window appears. On View Window, in 3D (excluding "3D: Macula (V)/3D: Wide (V)" /Radial Scan, the 2D/3D selector tab is displayed and you can change the 2D mode display to the 3D mode display and vice versa. In the combination scan ("3D(H)+Line", "3D(H)+5 Line Cross", "3D(H)+Radial"), the B-Scan/Volume 2D/Volume 3D selector tab is displayed and you can select the B-Scan mode, 2D mode and 3D mode alternately. In the case of other scan pattern modes, the tomogram is displayed in 2D mode. (The 2D/3D mode selector tab is not displayed.)

5. Volume
On/Off
Set to On by default. On/Off shows or hides the tomogram.

Cropping
Function that crops the image (= trimming or displaying a certain area).

Subvolume
Function that is used to divide the entire 3D tomogram into certain parts, and to move and display each part.
There are two functions, "Peeling" (to cut the 3D tomogram laterally) and "Move" (to display Layers separately).

6. Slicing

The "Slicing" function is used to slice the whole 3D tomogram by one plane and display the sliced image. Click [slicing], and the sliced image will be displayed on Window C for the 3D tomogram. This tool is helpful in visualizing the spatial relationship between each individual slice in either X (horizontal), Y (vertical) or Z (height) dimension and the 3D tomogram.

7. ILM, RNFL/GCL, IPL/INL, IS/OS, OS/RPE, BM, CSI

Select one layer from ILM, RNFL/GCL, IPL/INL, IS/OS, OS/RPE, BM and CSI optionally, and the corresponding layer is displayed.

8. Bookmark and Right-click Menu

Bookmark
Create "Bookmarks" to save the viewing angle of the 3D tomogram and the amount of cropping (slicing) for future reference.

Right-click Menu
Clicking the right mouse button on Window A while a tomogram is displayed will display the following menu.

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Main menu</th>
<th>Sub menu</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D</td>
<td>Lights</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Interator Style</td>
<td>Terrain</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Trackball Camera</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Joystick Camera</td>
</tr>
<tr>
<td></td>
<td>Volume Mapping</td>
<td>Ray Casting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3D Textures</td>
</tr>
<tr>
<td>2D</td>
<td>Apply Filter</td>
<td>-</td>
</tr>
</tbody>
</table>
Pin-point Registration

Shadowgram

A shadowgram image is created by summing up all data points obtained from the 3D tomogram data in a longitudinal orientation, and is displayed as a B/W image. The fundus features (for example, blood vessel pattern) can be displayed in the shadowgram image.

Automatic Positioning

Analysing the image will automatically position the shadowgram and colour fundus image.

Pin-point Registration

After the shadowgram image is positioned with the fundus image, the 3D tomogram data is linked with the color fundus image. Then, they can be scrolled. By scrolling the tomogram, the correspondence between the features seen in the color fundus image and the features seen in the tomogram at an optional position is displayed.

Making / Saving Movies

Analysing Tomograms

1. Analysing and Modifying Layers
   When layers have already been detected in some data, the user can analyze and modify layers. (When the photography data are stored, the layers are automatically detected by Macro Function.)

2. Analysing the Optic Disc
   Select the data to be analysed. The automatic optic disc analysis can be used for "3D Disc Scan (6.0 × 6.0 mm, 512 × 256 / 512 × 128 pixels, Fixation: Disc / External fixation)" and "3D Wide(H) Scan(12.0 × 9.0mm, 512 × 256 / 512 × 128 pixels, Fixation / External fixation)" data.

3. Fundus Image Analysis
   Analyse the colour fundus image.

4. Red-free Fundus Image Analysis
   Analyse the red-free fundus image.

5. Trend Analysis
   The "Trend Analysis" function is used to display the results of two or more analysis operations with the lapse of time on one screen. This function makes it easy to understand the changes of eye status. You can also analyze the trend from the changes of eye status by this function.

6. Glaucoma Analysis in the Macula
   The "Glaucoma Analysis in the Macula" function analyzes indirectly the reduction of the ganglion cells.
   This function can analyze thickness, of RNFL (between ILM and RNFL/GCL), GCL+ (between RNFL/GCL and IPL/INL) and GCL++ (between ILM and IPL/INL).

7. Comparison with Normative data and display
   The thickness of each layer is compared with Normative data and the result is displayed as a color map.

8. "EnView" display
   Access data. Then, select [Tools] on the menu bar and then [EnView] or press the [EnView] button on the tool bar. The "EnView" window appears.
Comparing Analysis Results

1. Types of Comparison
   You can compare the results obtained by a variety of analysis.

   • Both eyes display:
     Displays the right and left eyes data of the same analysis mode.
   • Comparison:
     Displays the one eye data of the same analysis mode. ("One eye data" means "Comparison between two data of the left eye or the right eye").
   • Comparison: Advanced:
     Displays the 3D-scan one eye data.
   • Compare ALL:
     On "Both eyes display" and "Comparison", the images of the same scan mode can be compared. When you use "Compare ALL", you can compare the images of different scan modes.

2. Saving Analysis Results
   Once analysed results have been saved, motion compensation and boundary drawings do not need to be repeated next time.

Outputting Results

After the analysis and comparison for data have been performed, the results output data is created.
You can create the results output data by the following methods.
• Exporting tomograms
• Printing images
• Making reports

Macro Function

When the user clicks [ReAnalyze] icon on the Data list, it initiates the Batch Processing Macro Function which analyzes the scan data automatically in the background. Once the Macro process has started, the [DRI OCT Triton Batch Processing] icon is displayed in the system tray at the lower right on the screen.

Managing Data

• Allows patient data to be edited or deleted.
• Allows recorded data to be archived/backed up.
DRI OCT Triton/OCT Viewer for DRI OCT Triton PC SOFTWARE
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(1) (a) a stand-alone-type single computer, or
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3D OPTICAL COHERENCE TOMOGRAPHY

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DRI OCT Triton (plus)
PC SOFTWARE EDITION

Viewer Software for the OCT

OCT Viewer for DRI OCT Triton

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