# Maestro2

## Robotic Optical Coherence Tomography with True Color Fundus Camera


**VERSATILE.**
**EASY TO USE.**
**COMPREHENSIVE REPORTING.**

TOPCON Healthcare


# Maestro2

Fully Automated, Robotic OCT & True Color Fundus Camera.

## Overview

- User-friendly **Robotic OCT** + Fundus Camera
- OCT and **True Color**[1] Fundus Photography
- Single Touch, **Automated Capture**
- **12x9mm 3D Wide** Scan with Hood Report for Glaucoma
- Anterior Segment OCT[2]
- **Reference Database**
- Full 360° Rotating Monitor **Allows Operator Distance**
- Small Footprint. **Space Saving**

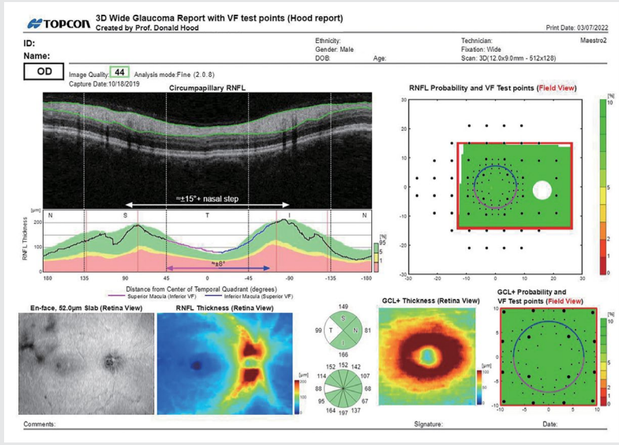
## Comprehensive Scan Reports

### Widefield OCT Scan

12x9mm widefield OCT scan encompasses both macula and disc with thickness metrics and reference database for a comprehensive assessment of eye health.


### Hood Report for Glaucoma

Analyze structure-function in glaucoma suspects and patients with retinal thickness/ RNFL and GCL probability maps alongside visual field test locations.*

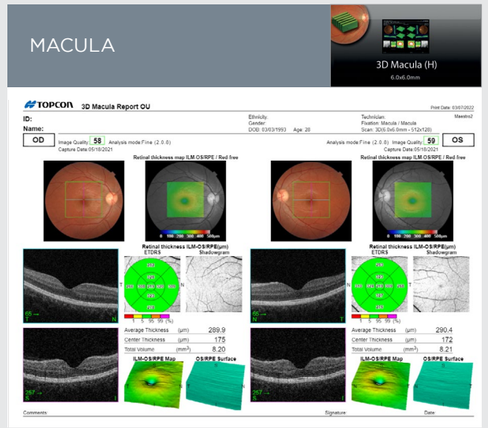



*Donald C. Hood PhD, Translational Vision Science & Technology No.6 Vol.3 2014: Evaluation of a One-Page Report to Aid in Detecting Glaucomatous Damage.

# Guidance for Diagnosis

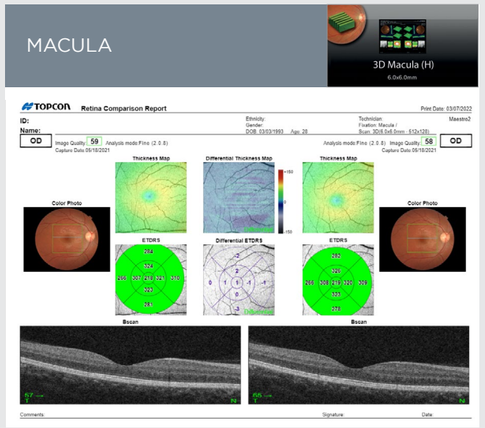
Maestro2 provides rich analysis of the macular and disc regions. Reports can be auto-exported, quickly printed or sent to your image management system or EHR in common file formats.

## Reports | Retina




### 3D MACULA REPORT (OU) RETINA ANALYSIS

6x6 mm bilateral scan report includes true-color and red-free fundus photography with OCT thickness overlay, retinal thickness with reference database, high-resolution OCT scans and thickness surface.

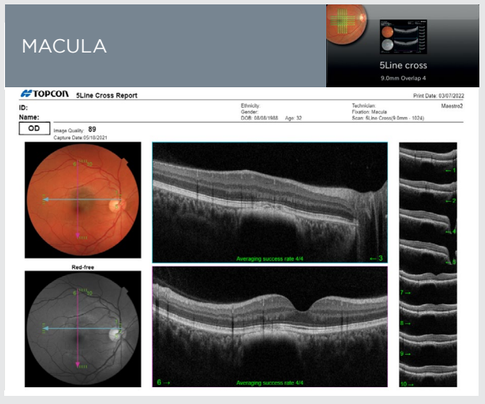



### COMPARE REPORT - CHANGE ANALYSIS

Unilateral visit-to-visit change report with 45°true-color fundus photography, intervisit-registered OCT scans (3D Macula or 3D Wide), ETDRS. Map and Differential ETDRS displaying thickness variance in +/- microns.


### SINGLE LINE SCAN

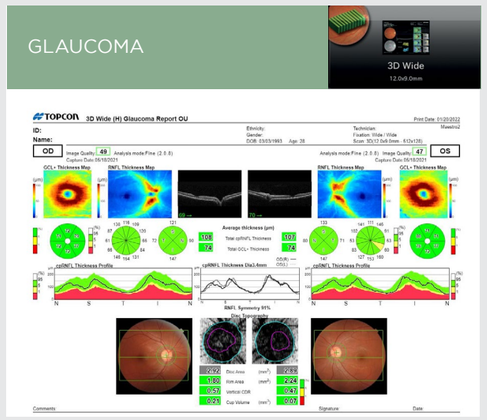
45° true-color and red-free fundus photographs with the high resolution OCT scan.




### 5 LINE CROSS SCAN

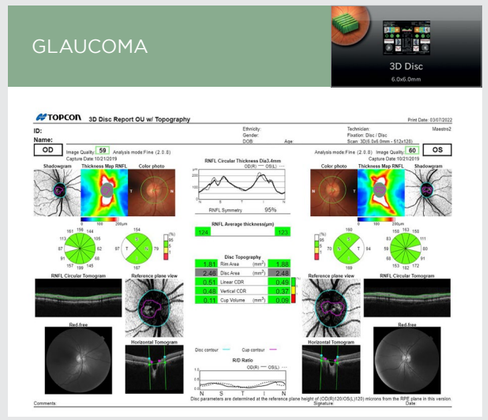
5-line cross scan displays horizontal and vertical B-scans (6mm, 9mm).

## Reports | Glaucoma



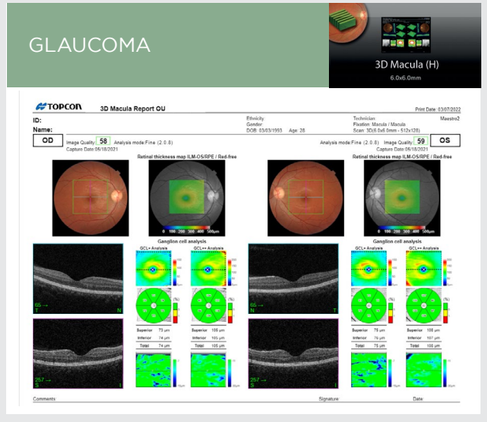

### 3D WIDE (H) GLAUCOMA REPORT OU

Wide, 12x9mm OU OCT scan report. Includes 45° true-color fundus photograph, RNFL thickness, disc topography, GCL+ thickness all with reference data.



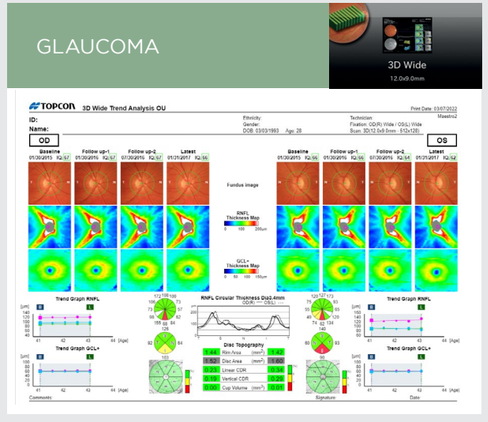

### 3D DISC REPORT (OU) WITH TOPOGRAPHY

Optic nerve 6x6 mm OCT scans offering conventional analyses with photography in a bilateral report.




### 3D MACULA REPORT (OU) - GCL ANALYSIS

GCL+, GCL++ thickness maps and comparison with reference data and symmetry analysis.




### 3D WIDE TREND ANALYSIS OU

Baseline and subsequent visits can be examined over time. Trends are provided for disc parameters, RNFL and GCL thickness along with a reference database comparison.

**GCL+:** The thickness of GCL and IPL. **GCL++:** The thickness of GCL, IPL and RNFL.

# Fundus Photography

## True Color Fundus Photography[1]

Integrated true color fundus camera enables simultaneous capture of the OCT image and fundus photo. PinPoint Registration allows multimodal observation of suspected pathology. Small pupil mode and fundus only capture are also available.

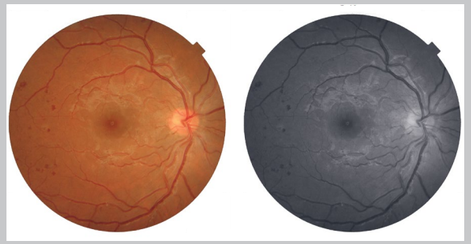


Image courtesy: Michael H. Chen, O.D.

## Peripheral Fundus Photography

Automatically select nine standard fields or manually manipulate the patient's fixation to create a mosaic image with the AutoMosaic software.

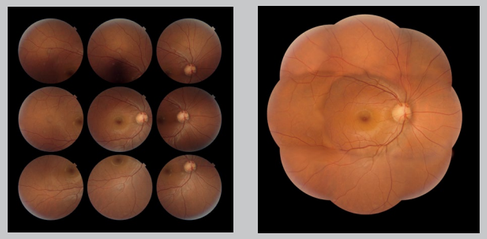
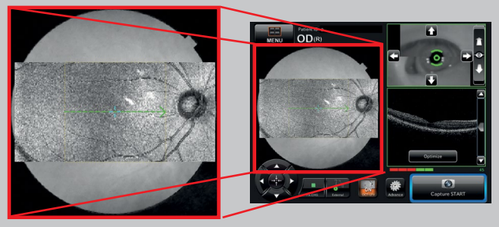


Image courtesy: Michael H. Chen, O.D.

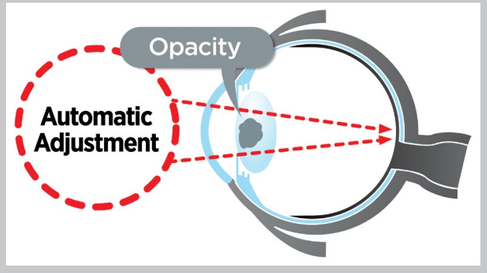
## Live Fundus View™ (LFV)

OCT-LFV is a live projection image of the retina that makes the disc, retinal vessels and scanning position easy to see.




## Cataract Mode

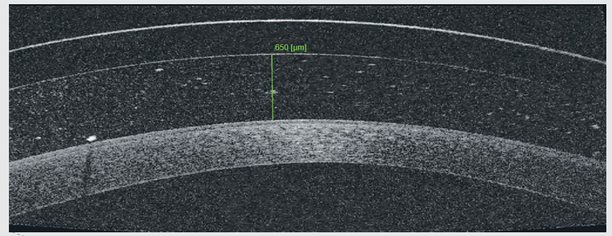
Cataract mode automatically adjusts the scanning position to minimize the impact of any opacities such as cataracts.

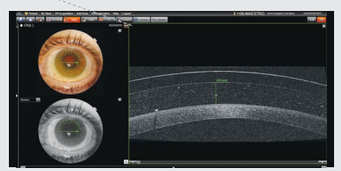


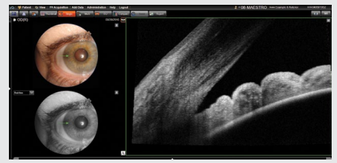

# Anterior Segment OCT

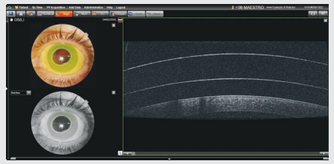
## Anterior Segment OCT[2]

Capture cornea and anterior chamber scans and measure corneal thickness and contact lens clearance with manual caliper tools.[3,4]





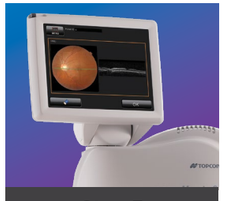


3. www.reviewofoptometry.com/article/12-ways-to-get-more-out-of-your-oct-1
4. www.optometrytimes.com/view/use-oct-to-determine-scleral-lens-clearance

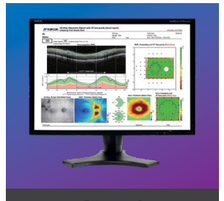
## Auto Align. Auto Focus. Auto Capture.

**Step 1**
Select a scan type.

**Step 2**
Capture.



**Step 3**
Results are displayed instantly.



**Step 4**
Report displayed automatically.

Full 360° rotating monitor allows operator distance.

**Optional Accessory**

Anterior segment attachment (HA-2)

# Specifications

| Item | Specifications |
|---|---|
| **Observation & photography of the fundus** | |
| Type of photography | Color, Red-free (Note 1) & IR (Note 3) |
| Picture angle for photography | 45° ±5% or less<br>30° or equivalent (digital zoom) |
| Operating distance | 34.8 ±0.1mm (when taking a picture of fundus) |
| Photographable diameter of pupil | ø4.0mm or more : When small pupil diaphragm is NOT used.<br>ø3.3mm or more : When small pupil diaphragm is used. |
| Fundus image resolution (on fundus) | Center : 60 lines/mm or more<br>Middle (r/2) : 40 lines/mm or more<br>Middle (r) : 25 lines/mm or more<br>IR photography : Center: 5 lines/mm or more (Note 3) |
| **Observation & photographing of the fundus tomogram** | |
| Scan range (on fundus) | Horizontal direction 3 – 12mm ±5% or less<br>Vertical direction 3 – 9mm ±5% or less |
| Scan pattern | 3D scan (horizontal/vertical)<br>Linear scan (Line-scan/Cross-scan ) |
| Scan speed | 50,000 A-Scans per second |
| Lateral resolution | 20μm or less |
| In-depth resolution | 6μm or less<br>Pixel spacing: 2.6μm ±2% |
| Photographable diameter of pupil | ø2.5mm or more |
| **Observation & photographing of the fundus image/fundus tomogram** | |
| Fixation target | Dot matrix type organic ELD display |
| **Observation & photographing of anterior segment** | |
| Type of photography | Color & IR (Note 3) |
| Operating distance | 62.6 ±0.1mm (when taking a picture of anterior segment) (Note 2) |
| **Observation & photographing of the anterior segment tomogram** | |
| Operating distance | 62.6 ±0.1mm (when taking a picture of anterior segment) (Note 2) |
| Scan range (on cornea) (Note 2) | Horizontal direction 3 – 6mm ±5% or less<br>Vertical direction 3 – 6mm ±5% or less |
| Scan pattern | Linear scan (Line-scan/Radial-scan) |
| Scan speed | 50,000 A-Scans per second |
| **Electric rating / Dimensions & weight** | |
| Source voltage<br>Power input | AC 100 - 240V 50-60Hz<br>70 - 150VA |
| Dimensions<br>Weight | 340 - 480mm (W) x 543 - 680mm (D) x 530 - 735mm (H)<br>25kg |

(Note 1) Digital Red-free photography that processes a color image and displays it in pseudo-red-free condition.
(Note 2) When the attachment for anterior segment is included in the system configuration.
(Note 3) This is used only for recording the position where a tomogram is captured.

1. True, full color fundus image simultaneously captured with white light, 24-bit color.
2. Optional attachment required.

**IMPORTANT** In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.

Not available for sale in all countries. Please check with your local distributor for availability in your country.
3D Optical Coherence Tomography | 3D OCT-1 (Type: Maestro2)

CLASS 1 LASER PRODUCT (IEC60825-1:2007) PRODUIT LASER DE CLASSE 1 (CEI60825-1:2007)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