



# Topcon Healthcare Instruments Product Portfolio

# Who is Topcon



## AGRICULTURE

Topcon addresses global population growth and resulting food insecurity by improving efficiency and productivity of farm operations through enhanced precision automation and data solutions.



## INFRASTRUCTURE

Topcon addresses rising infrastructure demand and shortage of skilled labor by enhancing the automation of the construction process for improved productivity and quality results.



## HEALTHCARE

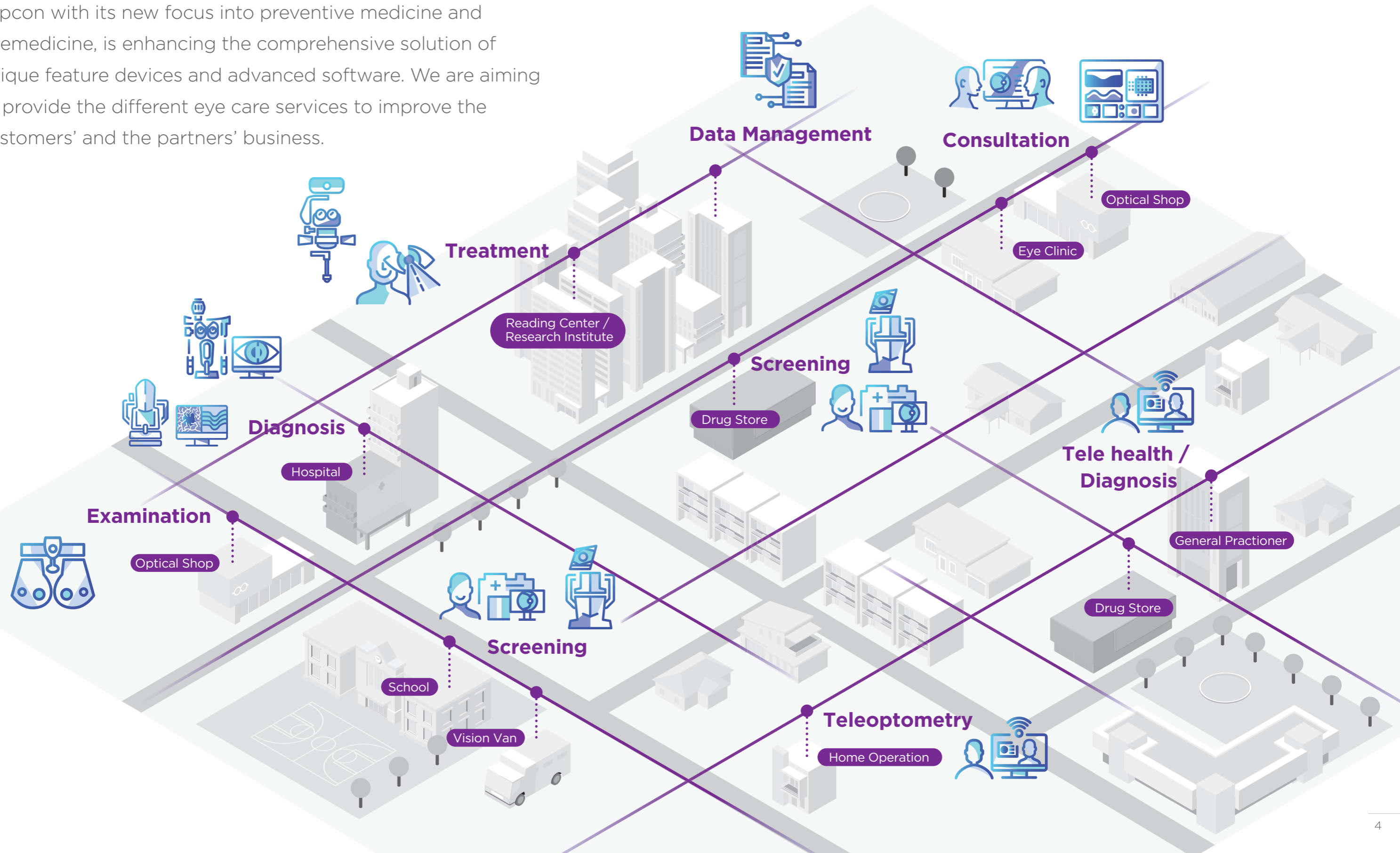
Topcon Healthcare addresses eye disease among the aging population by empowering providers with advanced imaging, diagnostic solutions and intelligent data technology.

### INDEX

<b>1</b>	<b>Who is Topcon</b>	
<b>3</b>	<b>About Topcon Healthcare</b>	
<b>6</b>	<b>SOLUTION PRODUCTS</b>	
	- Harmony	
	- IMAGEnet® 6	
<b>10</b>	<b>OPTICAL COHERENCE TOMOGRAPHY</b>	
	- DRI OCT Triton series	
	- SS OCT Angio™	
	- The OCTARA™ Difference	
	- 3D OCT-1 (Type:Maestro2)	
<b>14</b>	<b>SLIT LAMPS</b>	
	- SL-2G	
	- SL-D4 LED	
	- SL-D701	
	- SL-D2	
	- SL-D301	
	- DC-4	
<b>17</b>	<b>RETINAL CAMERAS</b>	
	- NW500	
	- TRC-NW400	
	- TRC-NW8 / 8F	
	- TRC-50DX / TRC-50DX(Type IA)	
<b>21</b>	<b>ADVANCED EXAMINATION</b>	
	- KR-1W	
	- ALADDIN	
	- MYAH	
	- CA-800	
	- SP-1P	
	- Henson 9000	
<b>25</b>	<b>TREATMENT</b>	
	- CYCLO G6	
	- IQ532	
	- IQ577	
	- OcuLight SLx	
	- PASCAL Synthesis series	
	- OMS-800 series (OFFISS / Pro / Standard)	
	- OMS-90	
<b>30</b>	<b>EXAMINATION</b>	
	- CV-5000PRO	
	- VT-10	
	- PC-50 / PC-50S / PC-50SB	
	- MC-5 / MC-5S	
	- ACP-8	
	- SOLOS	
	- CL-300 / CL-300PDL	
	- LM-8 / LM-8C	
	- KR-1 / RM-1	
	- CT-1 / CT-1P	
	- TRK-2P	
	- KR-800PA / KR-800A / KR-800S / KR-800 / RM-800	
	- CT-800A / CT-800	
	- Chronos	
<b>37</b>	<b>MORE SERVICES WE OFFER</b>	

# Topcon Visionary Healthcare

Topcon with its new focus into preventive medicine and telemedicine, is enhancing the comprehensive solution of unique feature devices and advanced software. We are aiming to provide the different eye care services to improve the customers' and the partners' business.



# Topcon Healthcare

empowers providers with **advanced imaging, diagnostic solutions and intelligent data technology**, offering a more fully integrated approach to diagnosis and treatment in eyecare.



SOLUTION PRODUCTS

# Harmony

Harmony is a web-based software solution that connects all examination instruments, eye care professionals, and the latest technologies to ensure the best possible patient care and customer experience.

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**VENDOR NEUTRALCONNECTIVITY**  
Connect all your devices regardless of their type and brand.

**CUSTOMIZABLE REPORTING**  
Create layouts for pre-selected examination items, adjust images, increase efficiency and productivity within your staff.

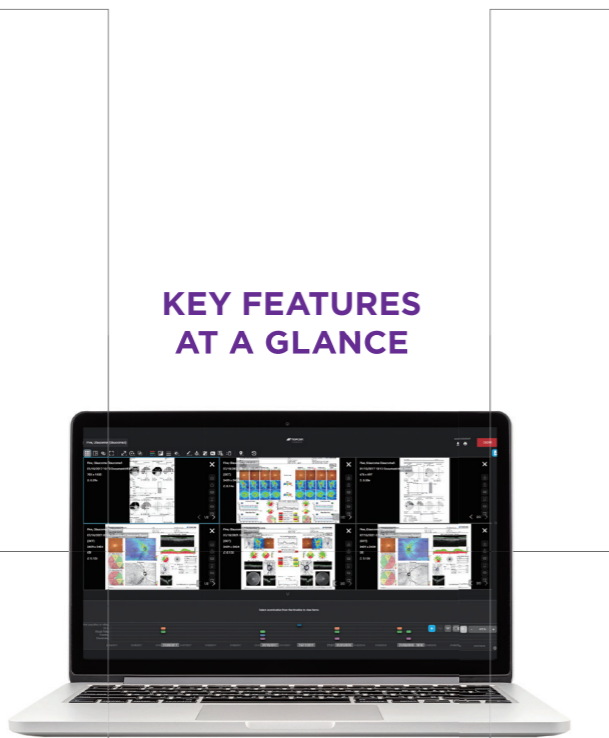
**TIMELINE VIEW**  
Get an overview of the patient's examination history, and easily navigate between examinations and images.

**INTEGRATIONS**  
Seamless integration to examination devices, EMR's and other information systems such as PACS and National Health Records.

**SHARED CARE PORTAL**  
Secure portal for 2nd opinion consulting and referrals.

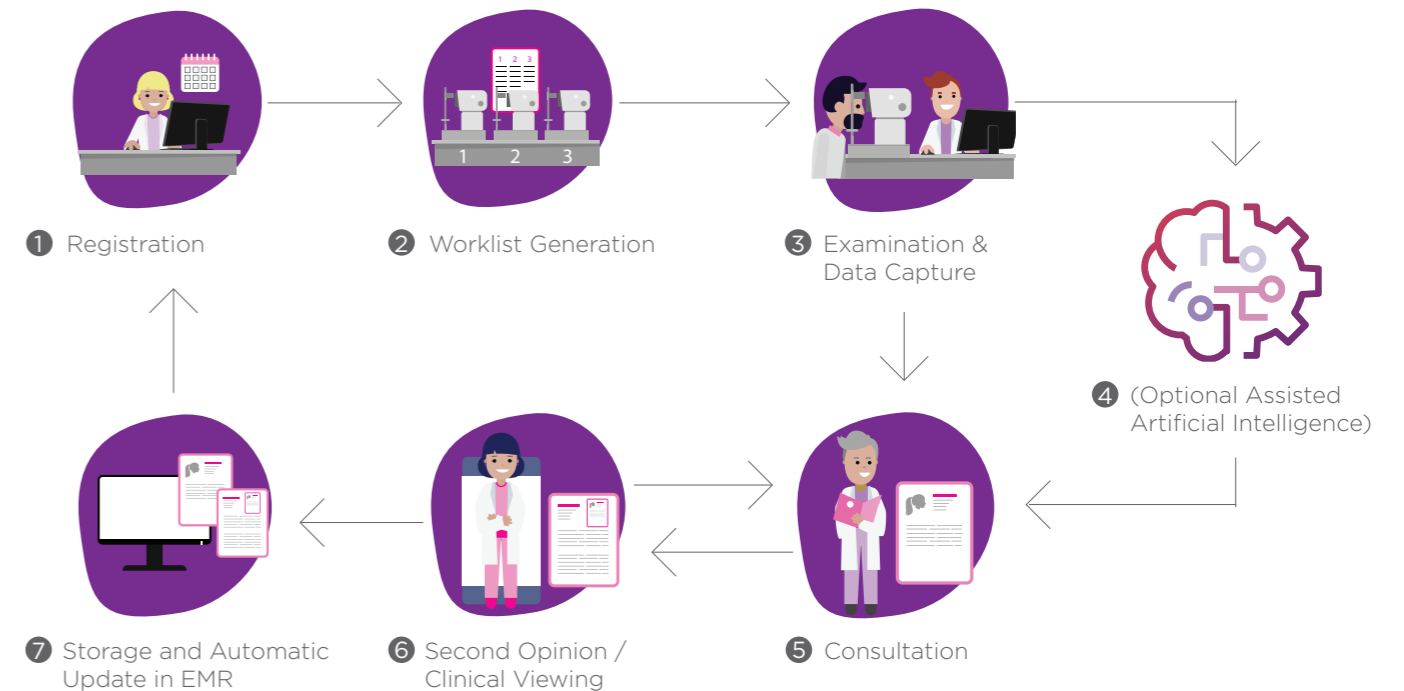
**SECURE BROWSER-BASED ACCESS**  
Secure and store data to be easily accessible via a browser from anywhere & anytime.

**ANALYTICS**  
Tools for clinical analytics and business intelligence.

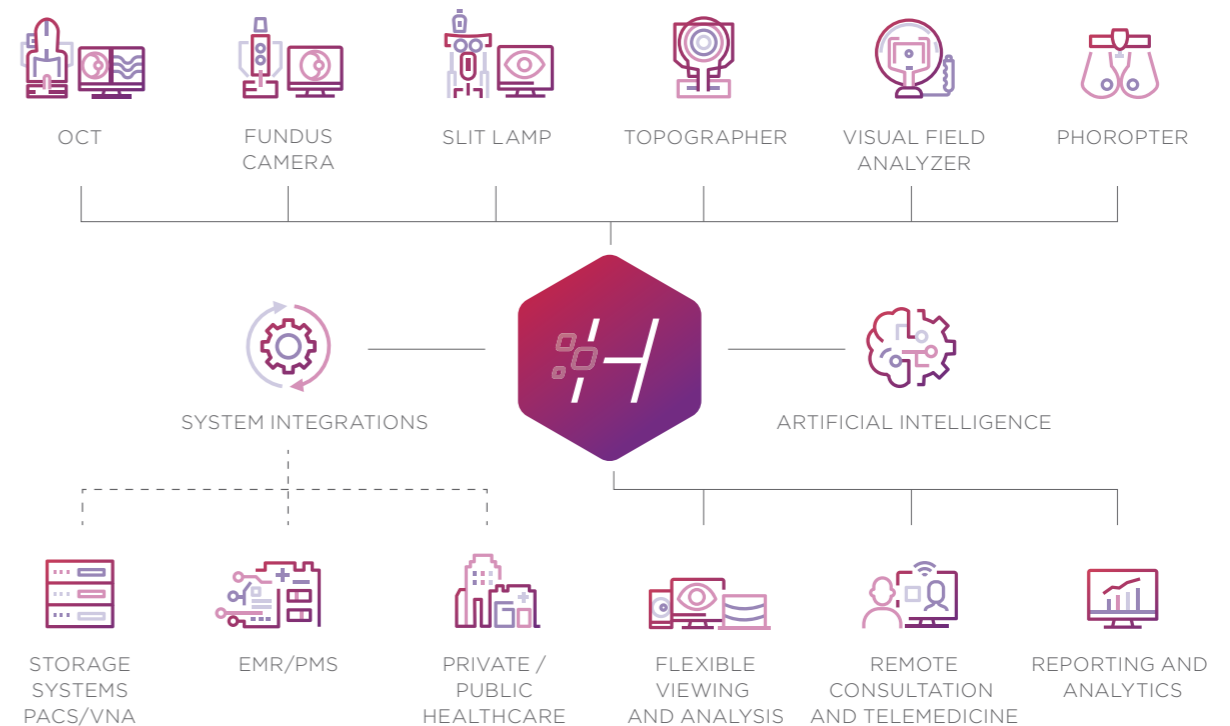


## KEY FEATURES AT A GLANCE

### Clinical Communication. Seamless. Secure.



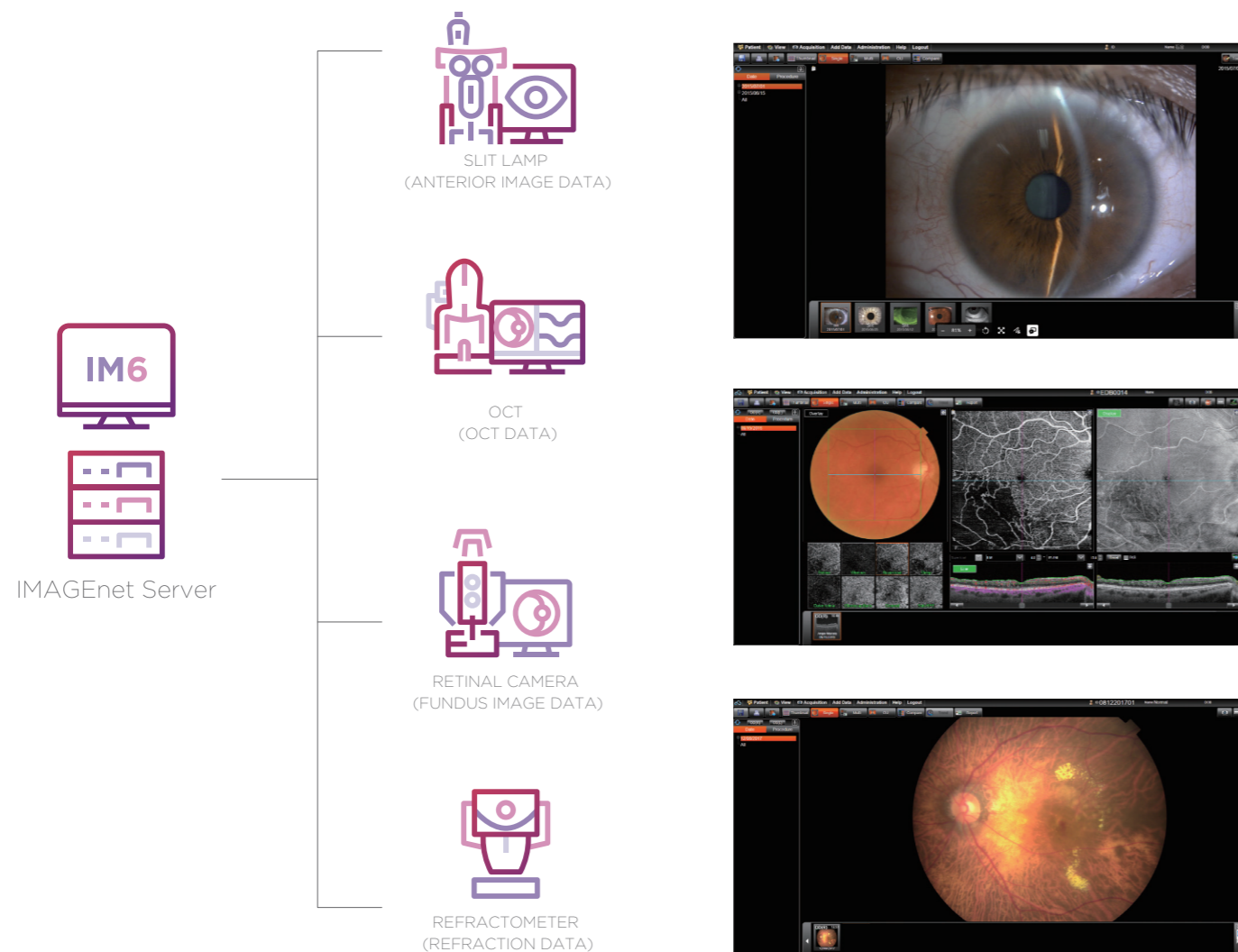
### ALL Ophthalmic Data. Centralised. Accessible.



## IMAGEnet® 6

Topcon's IMAGEnet® 6 provides clinicians access to detailed patient exam information that gives them the ability to make more informed clinical decisions.

- Web-based application
- Multimodal display
- Integrates with any Topcon devices



OPTICAL COHERENCE TOMOGRAPHY

## DRI OCT Triton series

### Swept Source Optical Coherence Tomography

- Unprecedented image quality with Swept Source OCT
- Multimodal imaging
- SS OCT-Angiography
- Rich report and analysis

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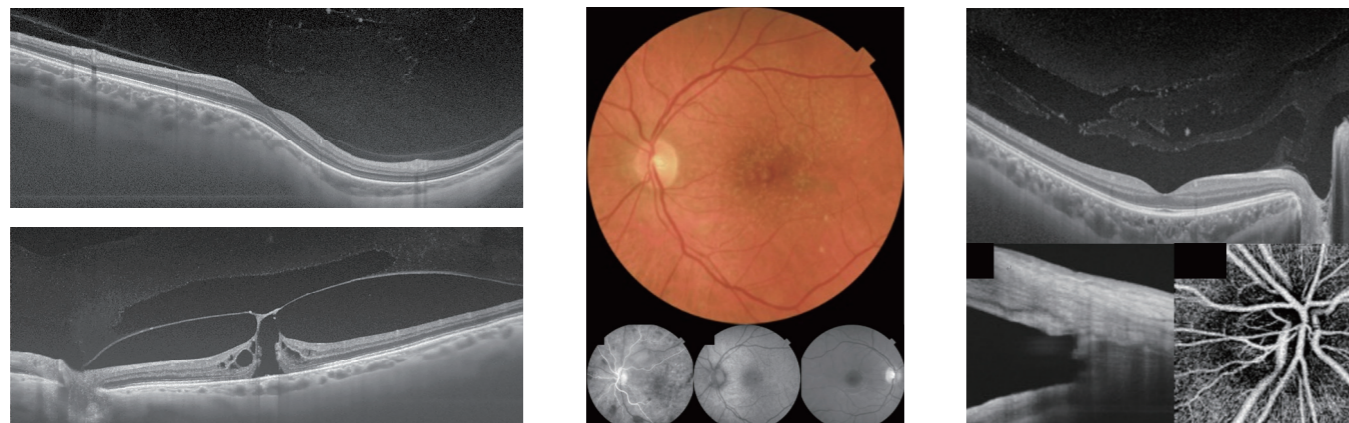


#### Line-up

	SS-OCT	Color	Digital Red-free	FA	FAF	Anterior OCT	OCT Angiography
Triton	○	○	○	-	-	Optional	Optional
Triton plus	○	○	○	○	○	Optional	Optional

### Optimized wavelength for retinochoroidal 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.



Courtesy: Carl Glittenberg, MD Karl Landsteiner Institute for Retinal Research and Imaging

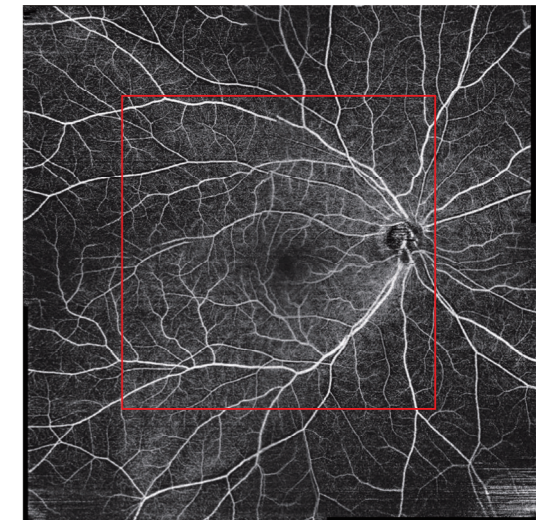
Courtesy: Kazuya Yamagishi, MD Hirakata Yamagishi Eye Clinic, Japan, Prof.P.E.Stanga, Manchester Royal Eye Hospital

## SS OCT Angio™

### Panoramic SS OCT Angio™

The panoramic image captured by the panorama mode is automatically composed. A maximum of 7 internal fixation targets are available, which offers you flexible options in your practice. The maximum width of the panorama image is approximately 25mm. \*

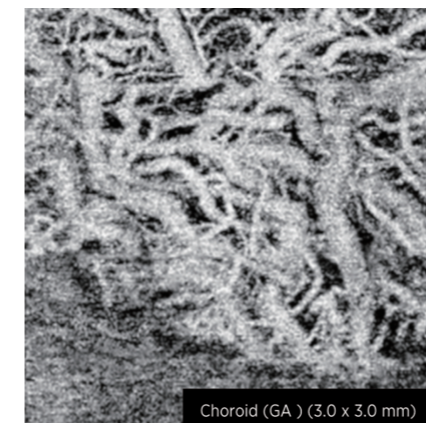
\* 25mm is theoretical value.



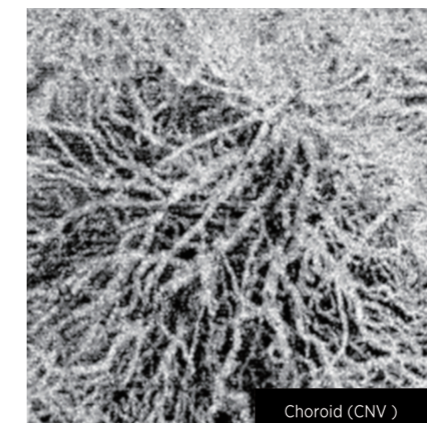
Area of 12mm x 12mm scale. This panoramic image was captured by panorama mode composed by 4 internal fixation targets.

## The OCTARA™ Difference

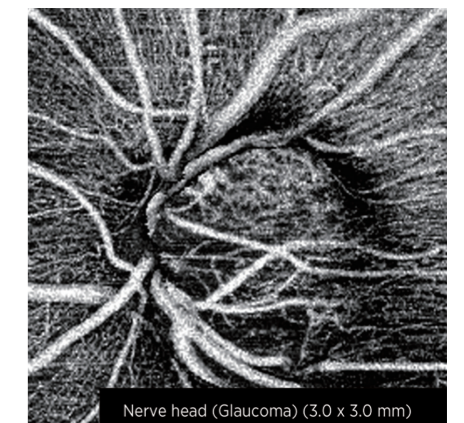
OCTARA is the image processing technology which extracts the signal changes derived from vascular flow using multiple OCT B scans acquired at the same position. It demonstrates high sensitivity for the detection of low blood flow in microvasculature. It is anticipated that OCTARA will be useful for detecting microaneurysms or capillary abnormalities.



Courtesy: Srinivas R. Sadda, M.D., Doheny Eye Institute, UCLA



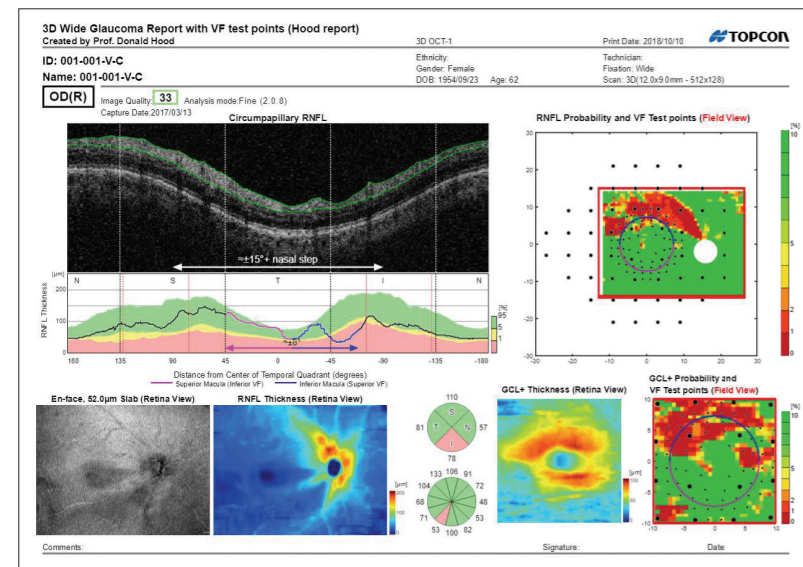
Courtesy: Srinivas R. Sadda, M.D., Doheny Eye Institute, UCLA



## 3D OCT-1 (Type:Maestro2)

### Optical Coherence Tomography

- Fully automated OCT & true color fundus camera
- Fully automated OCT-Angiography (optional)
- Compact and space-saving design
- Swivel monitor for socially distanced positioning



### 3D Wide 12 x 9mm Scan Hood Report

For Maestro2 and Triton: Retinal Thickness/RNFL/GCL and Optic Nerve Metrics in just one fast scan. **The Hood Glaucoma Report** is now available. This innovative report streamlines and accelerates the decision-making process through the correlation of structure (GCC/RNFL) with function (overlay of Visual Field test locations).



SLIT LAMPS

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Slit Lamp LED type



**SL-2G**

**LED Slit Lamp**

Basic, economical and environmentally friendly, the SL-2G meets all the needs for a clinical exam.



**SL-D4 LED**

**Digital Slit Lamp**

A complete Slit Lamp with expanded magnification range, quality optics and LED illumination.



**SL-D701**

**Digital Slit Lamp**

A fully featured compact slit lamp with expanded magnification range and quality optics.

Slit Lamp halogen type



**SL-D2**

**Digital Slit Lamp**

A basic slit lamp with digital capability that doesn't compromise on features and optical quality.



**SL-D301**

**Digital Slit Lamp**

High performance on an entry level slit lamp with tower style illumination and digital capture option.



**DC-4**

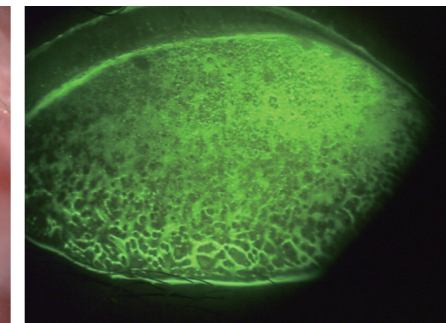
**Digital Camera**

- Smart capture function
- Live view
- Video capability
- Meibomian gland observation \*

\* BG-5 is required for this feature.



Courtesy of the images: Zhang Yang, M.D, Beijing Tongren Hospital



Courtesy for the images: Toru Noda, MD, Department of Ophthalmology, Tokyo Medical Center



Courtesy for the Meibomian gland images, Reiko Arita, MD, PhD, Itoh Clinic, Department of Ophthalmology, the University of Tokyo School of Medicine

**Optional Accessories**



Background Illumination BG-2GN



Background illumination BG-5



Patient grip PG-1



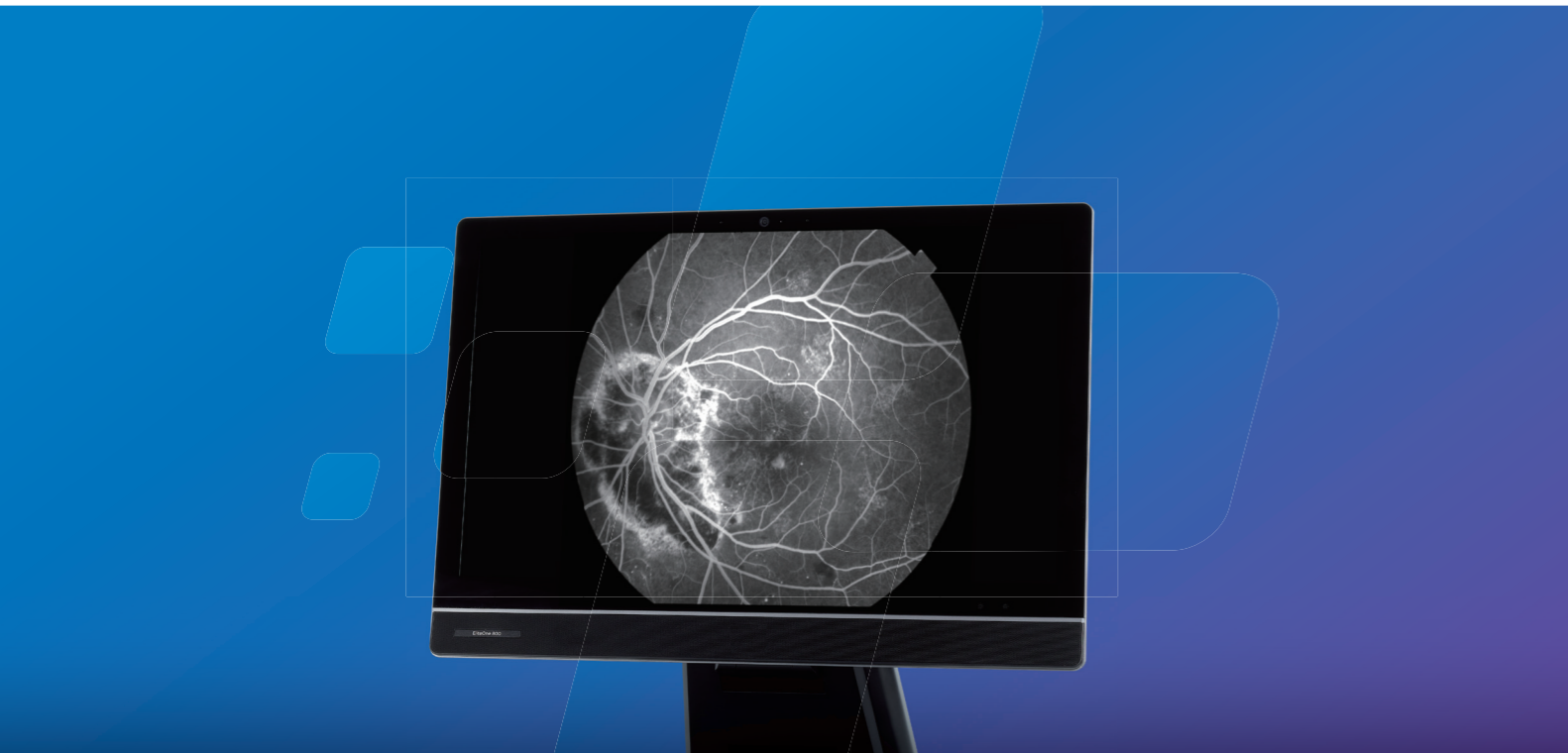
TV Relay Lens



Observation Tube



Yellow Filter Unit



RETINAL CAMERAS



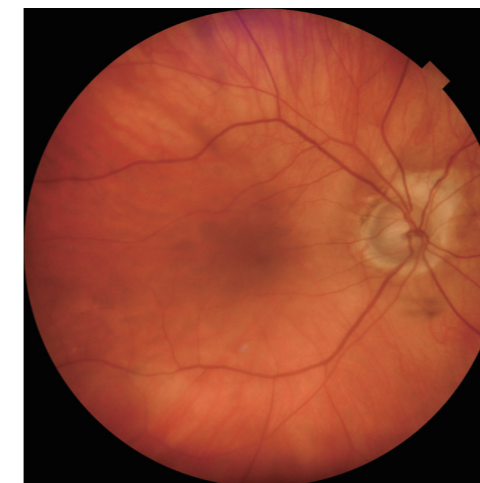
## NW500

### Non-Mydriatic Retinal Camera

- Small pupil photography with  $\phi 2.0\text{mm}$  or more<sup>1</sup>
- Enhanced quality 12MP image sensor<sup>2, 3</sup>
- Rapid and fully-automatic capture by single touch
- 50° wider angle of view (approx. 74.9° at the spherical center of the eye)<sup>4</sup>
- Various connectivity options<sup>5</sup>

### Introducing New Slit Scan Photography

Innovative slit scan illumination and rolling shutter mechanism available in the NW500 make obtaining an excellent quality colour fundus image with less flare and less shadow possible.<sup>2</sup>



Cataract Eye, pupil size:  $\phi 2.0\text{mm}$



Panoramic<sup>6</sup>

Courtesy: Silicon Valley Eyecare Optometry and Contact Lenses in Santa Clara, CA

<sup>1</sup> Confirmed with model eye

<sup>2</sup> As compared to Topcon non-mydriatic retinal camera TRC-NW400

<sup>3</sup> Actual image size is 71MP.

<sup>4</sup> Xincheng Yao, Devrim Toslak, Taeyoon Son, Jiechao Ma. Understanding the relationship between visual-angle and eye-angle for reliable determination of the field-of-view in ultra-wide field fundus photography. Biomedical Optics Express, 2021 Sep 30;12(10):6651-6659.

<sup>5</sup> Multiple connection with Direct DICOM, Ez Capture, IMAGEnet\*6, Shared folder and Direct Storage(USB/LAN)

<sup>6</sup> IMAGEnet\*6 is required to generate panoramic images.

LEARN MORE



## TRC-NW400

### Non-Mydriatic Retinal Camera

- Fully automated photography
- True color fundus images
- Space-saving design
- Swivel screen for safe-distanced positioning



## TRC-NW8 / 8F

### Non-Mydriatic Retinal Camera

- Multimodal capability
- High resolution imaging
- Auto focus, Auto shoot
- Easy to use



	Color	Red-Free	FA
TRC-NW8	○	○	-
TRC-NW8F	○	○	○

## TRC-50DX / TRC-50DX(Type IA)

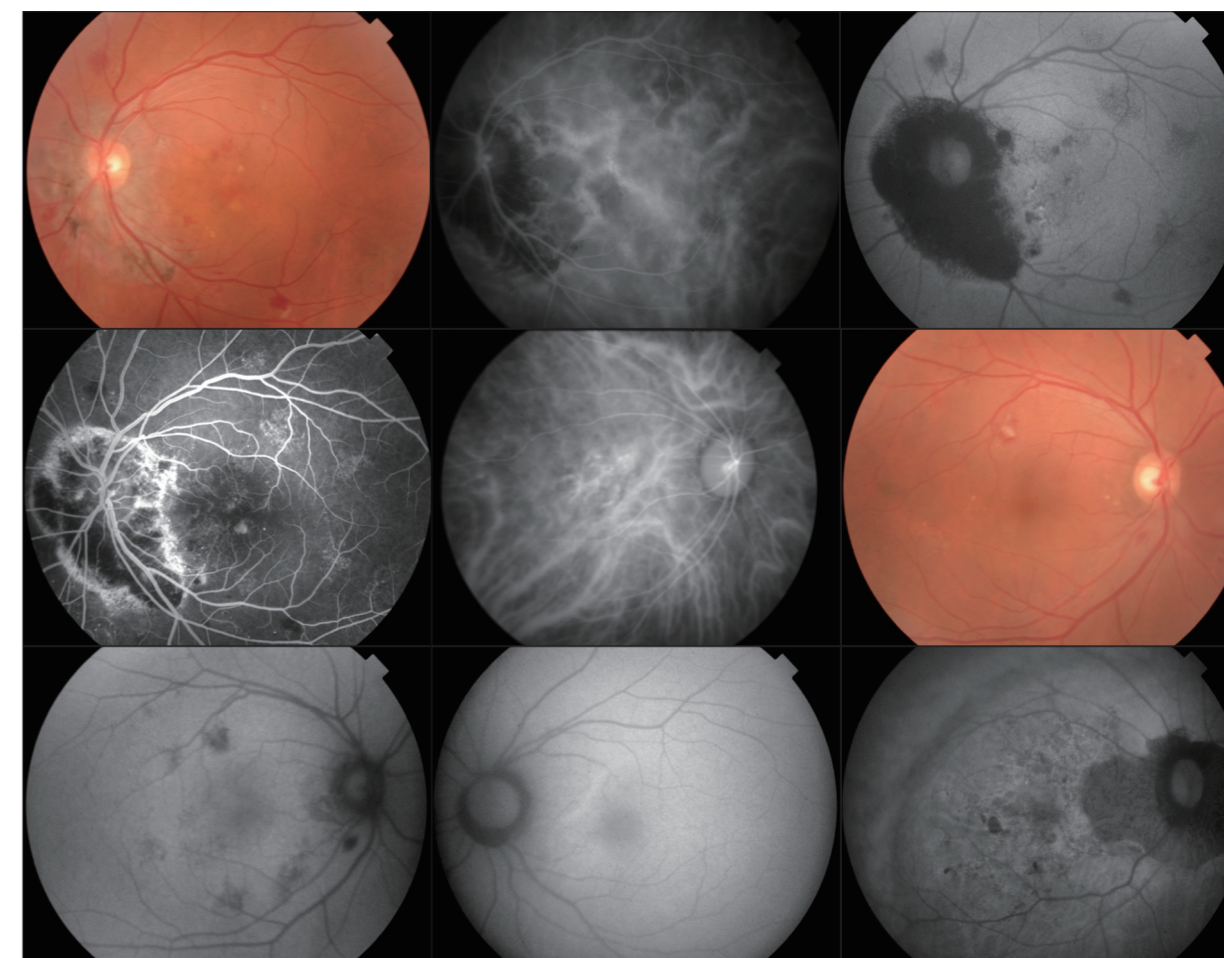
### Retinal Camera

- Gold standard retinal camera for professional photographer
- Live observation through eye piece
- High resolution imaging
- Multimodal photographic capability

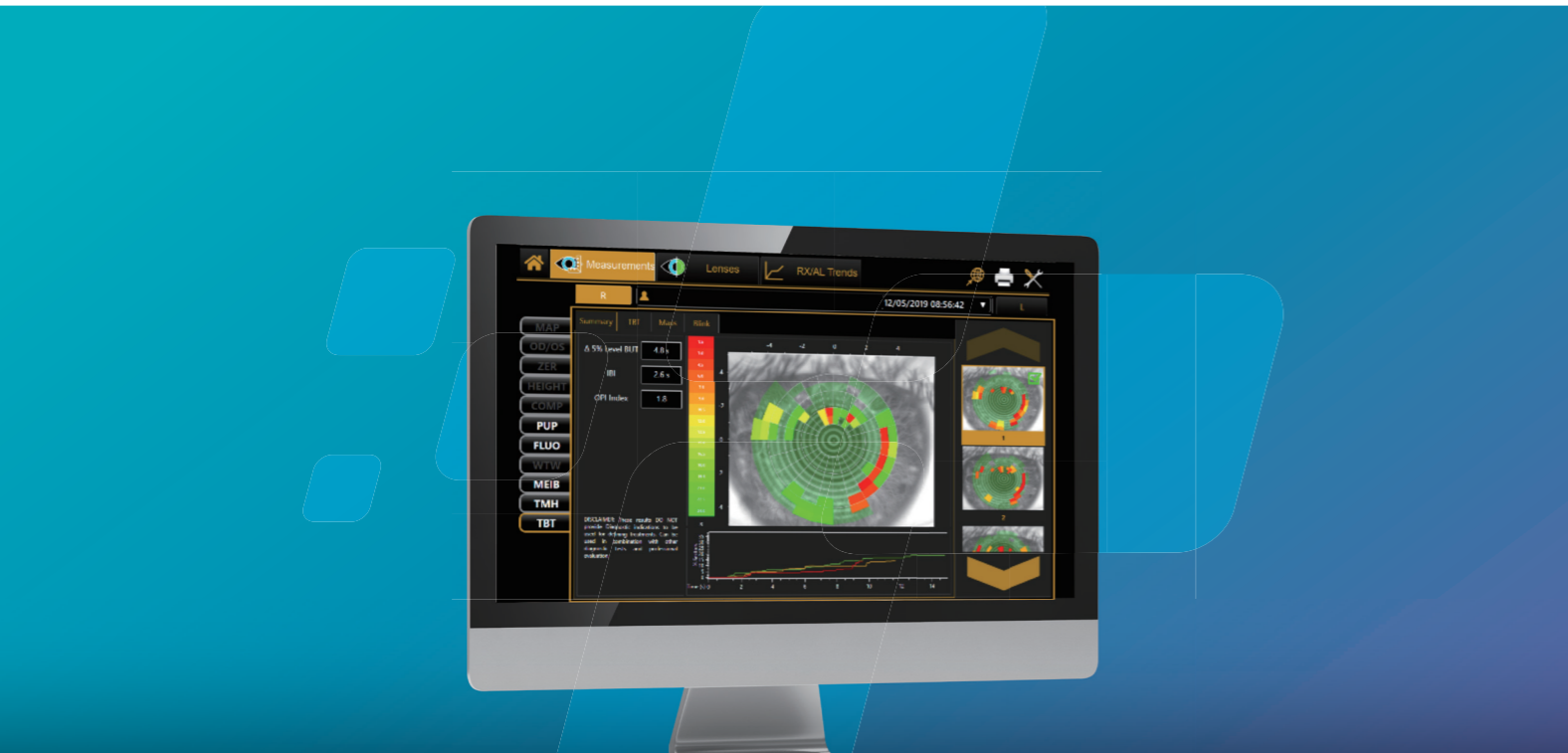
	Color	Red-Free	FA	FAF	ICG
TRC-50DX	○	○	○	-	-
50DX(Type IA)	○	○	○	○	○



### Images by TRC-50DX



\* Image courtesy of Adachi Keiyu Eye clinic, Japan.



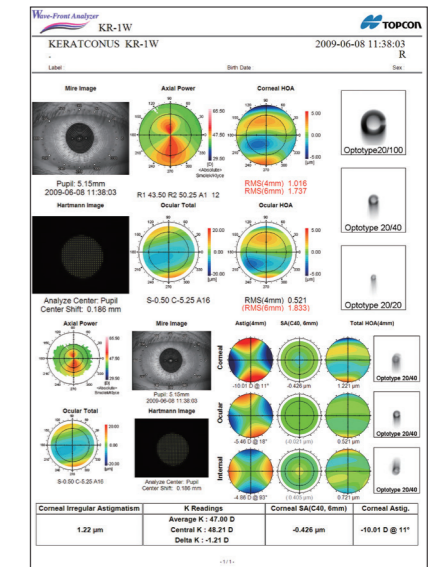
ADVANCED EXAMINATION

## KR-1W

### Wavefront Analyzer

5 functions  
in 1 device

- Auto-refraction
- Keratometry
- Aberrometry
- Topography
- Pupillometry

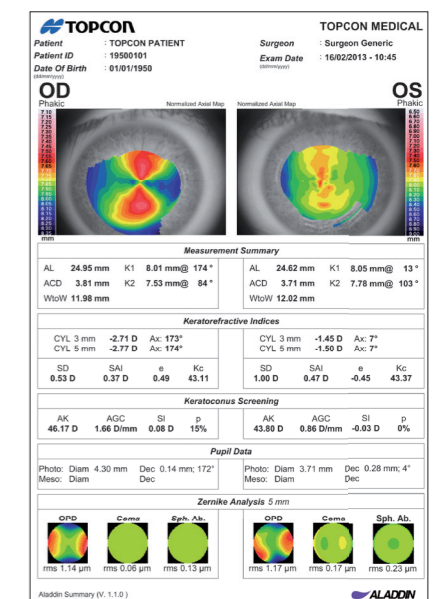


## ALADDIN

### Biometer

Rich functions

- Axial length
- Keratometry
- Topography
- Anterior chamber depth
- Pupillometry
- White to white
- Central corneal thickness
- Lens thickness



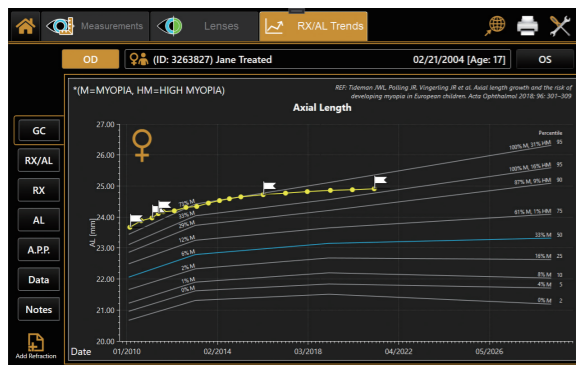
## MYAH

### Optical Biometer + Corneal Topographer

- Keratoconus screening and pupillometry
- Axial length measurement
- Progression report for treatment analysis
- Dry eye assessment tools
- Patient-friendly rapid capture
- Compact, space-saving, easy-to-operate



Growth Curves



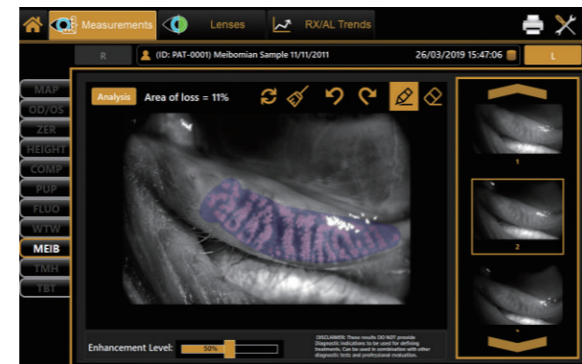
Corneal Topography



Dynamic Pupillometry



Dry Eye Assessment



## CA-800

### Corneal Topographer

- On-board PC for standalone operation
- Topography, keratoconus screening, pupillometry, meibomian gland, FA and fluorescein imaging
- Fast and easy-to-use
- Smooth report generation
- Various maps for follow-ups



## SP-1P

### Specular Microscope

- Quick automatic measurements and analysis
- Space-saving design
- Swivel screen for safe-distanced positioning
- Central corneal thickness



## Henson 9000

### Visual Field Analyzer

- Innovative tests for detecting and monitoring changes
- Full suite of analytical tools (Smart Supra, ZATA)
- Networking capabilities
- Compact, modern, low-maintenance design

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## CYCLO G6

### Glaucoma Laser System

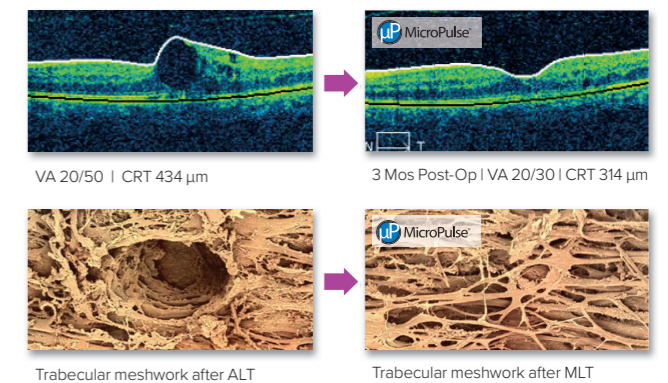
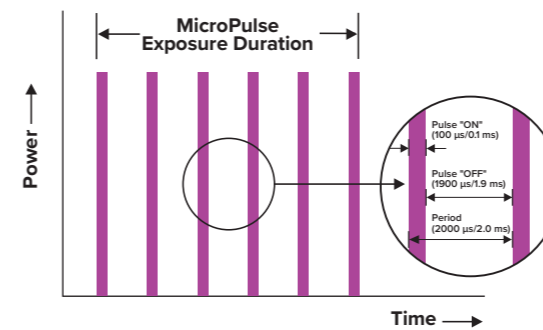


- MicroPulse® P3 Glaucoma Device
- Non-Incisional
- Minimal to no inflammation post-op
- Patient downtime is significantly low
- Repeatable and predictable

### What is MicroPulse Technology?



MicroPulse mode finely controls thermal elevation by “chopping” a CW beam into an envelope of repetitive short pulses. Low-energy MicroPulse laser treatment allows tissue to cool between pulses to limit and confine the therapeutic photothermal effect within the tissue directly targeted by the laser. No tissue reaction is visible during or post treatment.



## IQ532

### Green 532 nm Laser with MicroPulse® Technology\*

- High power for range of therapy alternatives
- Dual port for efficient setup of alternate devices
- Repeatable laser sessions for retinal diseases\*

\* Possible with optional MicroPulse module



## IQ577

### True-Yellow 577 nm Laser with MicroPulse® Technology

- High transmission through dense ocular media
- Dual port for efficient setup of alternate devices
- Repeatable macular and foveal laser sessions\*
- Maximize workflow efficiency

\* Possible with optional MicroPulse module



## OcuLight SLx

### 810nm Infrared Solid-State Laser

- Multiple therapeutic indication
- Three different energy modalities
- Broad spectrum of treatment options

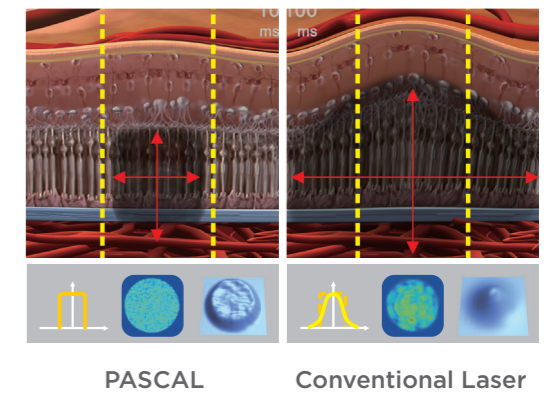


## PASCAL Synthesis series

### Photocoagulator

- Less pain for patients
- Faster procedure by pattern scanning treatment
- Precision spot with unique fiber beam design

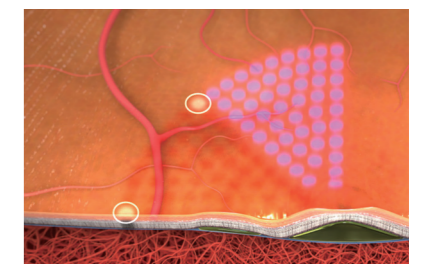
		Yellow	Green	Twinstar
SL-PA04	Y4_PA04	○	-	-
	G4_PA04	-	○	-
	T4_PA04	-	-	○
SL-D7	Y7	○	-	-
	G7	-	○	-



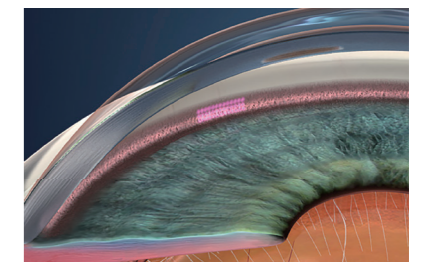
### Optional Software for PASCAL



- Sub-threshold
- Landmark™ patters
- Easy operation



- Non-destructive procedure
- Precise treatment for IOP reduction



## OMS-800 series (OFFISS / Pro / Standard)

### Operation Microscope

- OFFISS lenses for state-of-art observation
- Superb image quality for cataract and vitreous surgery

### Components

	OMS-800 OFFISS	OMS-800 Pro	OMS-800 Standard
OFFISS	○	—	—
Electromagnetic locking	○	○	—
Coarse focusing	○	○	—
Inverter	○	—	—
Apochromatic optics	○	○	○
Beam splitter	○	○	○
Illumination angle	Full Illumination ( $\pm 2^\circ$ , $+4^\circ$ ) / $\pm 2^\circ$ / Yellow Filter ( $+4^\circ$ )		



### OFFISS Lens set



**Small 40D Lens** (Outer Diameter  $\Phi 23$ )   
 **40D Lens** (Outer Diameter  $\Phi 28$ )   
 **80D Lens** (Outer Diameter  $\Phi 19.4$ )   
 **120D Lens** (Outer Diameter  $\Phi 23.5$ )   
 **Small 120D Lens** (Outer Diameter  $\Phi 18$ )   
 **Anterior Lens** (Outer Diameter  $\Phi 34$ )

## OMS-90

### Operation Microscope

- Coaxial illumination
- Stain-proof coated objective lens
- Parallel binocular tube
- PD adjustment knob
- Built-in yellow filter
- Compact base



EXAMINATION



## CV-5000PRO

### Compu Vision

- Quick lens rotation
- Customized refraction course
- Circular polarization
- Smart cross cylinder and Topcon cross cylinder
- Safe-distanced refraction



### Controller Option

#### KB-50S/ Tablet\*

The KB-50S is a dedicated controller for CV-5000PRO. This controller enables easy and intuitive operations of the system. Wireless tablet control is also for more flexible operation.



#### Operating software on external PC\*

CV-5000PRO can be controlled with Windows PC. It enables you to use other software simultaneously on your own PC.

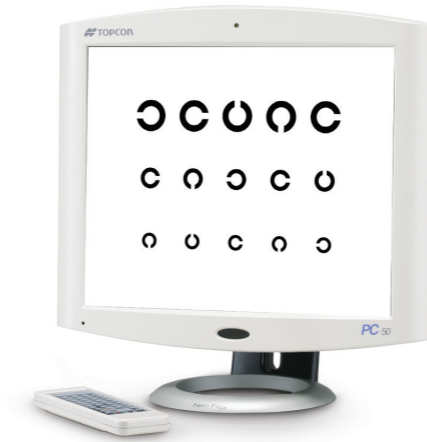


\*Please check with your distributor about available types of tablets and PC.

## VT-10

### Manual Vision Tester

- Wide testing range
- Clear scales



## PC-50 / PC-50S / PC-50SB

### Pixel Chart

- LCD chart
- Comprehensive range of optotypes
- Variety of charts, Images with videos

	PC-50	PC-50S	PC-50SB
Stand Alone	○	-	-
Circular Polarization	-	-	○
3D Contents	-	○	○
Open binocular vision test *	-	-	○

\* The open binocular vision test is done per eye.

## MC-5 / MC-5S

### Mirror Chart

- Space-saving and flexible installation
- Circular polarization\*
- Fewer components
- Various chart options

\*Available on MC-5S only



## ACP-8

### Auto Chart Projector

- Codeless remote controller



## SOLOS

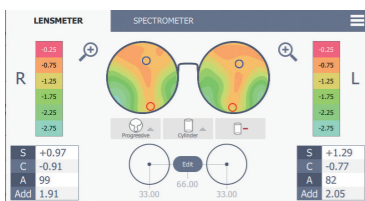
### Automatic Lens Analyzer

- Measuring both lenses with a single touch
- Single, progressive, multifocal lens mapping
- Automatic marking
- Light transmittance measurements
- Green e-line light source
- Wireless data transfer

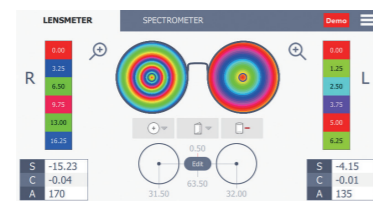
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### Comprehensive Measurements



Progressive Lens



Sphere, Cylinder, Axis, Add and Pupil Distance



Transmittance Percentages

## CL-300 / CL-300PDL

### Computerized Lensmeter

- LCD touch panel
- Progressive lens measurement mode



## LM-8 / LM-8C

### Lensmeter

- Clear visible marking spots



## KR-1 / RM-1

### Auto Kerato-Refractometer

- Simple and quick operation
- Color touchscreen control panel
- Space-saving design
- Swivel screen for safe-distanced positioning

	KR-1	RM-1*
Auto-keratometer	○	-
Auto-refractometer	○	○

\* RM-1 availability depends per region.

## CT-1 / CT-1P

### Computerized Tonometer

- Simple and quick operation
- Space-saving design
- Swivel screen for socially distanced positioning



## TRK-2P

### Auto Kerato-Refracto Tonometer

- 4 in 1 diagnostic functions
  - Refractometer
  - Keratometer
  - Tonometer
  - Pachometer
- Central pachimetry : IOP value can be adjusted automatically.



## KR-800PA / KR-800A / KR-800S / KR-800 / RM-800

### Auto Kerato-Refractometer

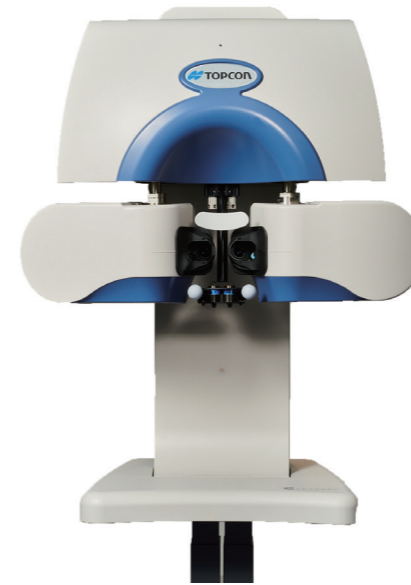
	KR-800PA	KR-800A	KR-800S	KR-800	RM-800
Corneal Mapping	○	-	-	-	-
3D Auto alignment	○	○	-	-	-
Subjective test	-	-	○	-	-
Corneal Curvature Measurement	○	○	○	○	-
Refractive Power Measurement	○	○	○	○	○
Easy LAN network setup	○	○	○	○	○



## CT-800A / CT-800

### Computerized Tonometer

- 3D auto alignment function (CT-800A)
- IOL measurement mode
- Easy LAN network set-up



## Chronos

### Refraction System

- Binocular objective testing
- Binocular subjective refraction
- Seamless testing with multiple distances
- Unique operability with SightPilot™
- Time-saving by optimized workflow
- Tablet control for all testing
- Space saving

LEARN MORE



3 measurements in 1 instrument



Chronos



Autorefractometer

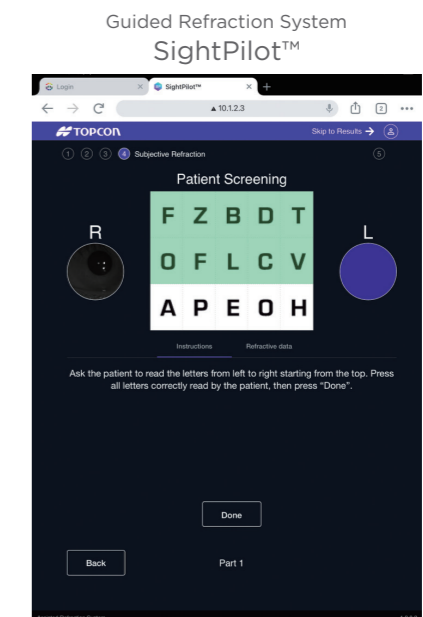


Phoropter



Vision Charts

### Tablet Control for All Testing



# EYE CARE MEETS **TELEHEALTH**

Enrich and optimize your daily practice with Topcon Healthcare's remote exam/diagnosis options.

## EXAMINATION

### From Exam Room

Remote Tablet Control (RTC) realizes social distancing at your daily examinations.



CONTACT US  
TO LEARN MORE



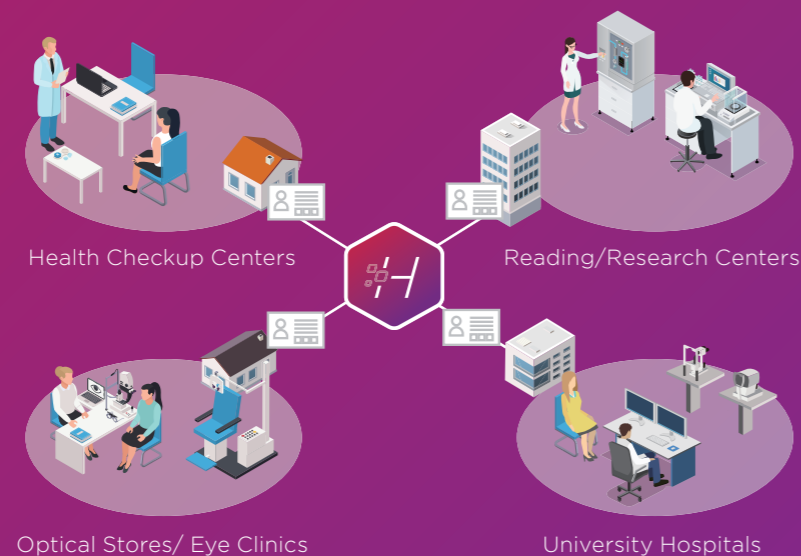
### From Anywhere

Operators can control Chronos/CV-5000PRO and communicate with patients/customers remotely from their own office far away from the exam room.



## DIAGNOSIS

Harmony Referral System allows both non-eyecare professionals and eyecare professionals to send requests for referrals or 2<sup>nd</sup> opinions as well as receive responses remotely.



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

Not all products, services or offers are approved or offered in every market, and products vary from one country to another. Contact your local distributor for country-specific information and availability.

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