

# OPD-SCAN III VISUAL SYSTEM





# Experience the Visual System

The OPD-Scan III VS is an aberrometer providing optimal and facilitated eyeglass prescription with detailed measurement data.

The easy-to-understand reports displayed on a tablet allow simple explanation of examination results.

This unit opens a variety of business possibilities as a new communication tool.



## Comprehensive Vision Analysis

OPD-Scan III VS is a device that mainly measures corneal shape (topographer) and refractive error (refractometer).

It clarifies causes of vision difficulties through wavefront analysis of information measured over a wide area.



### Wavefront Aberrometer

Unprecedented assessment of visual acuity and quality of vision.

### Auto Refractometer

Exceptionally accurate refraction for various pupil diameters even under photopic and mesopic conditions.

### Topographer

Intuitive maps and numerical data of the corneal surface.

### Auto Keratometer

Conventional keratometry and novel corneal surface descriptors.

### Pupillometer

Measurement of photopic and mesopic pupil diameters.

## Superior Examination

By communicating with TRS-6100, the high quality measurement and fast examination provide for an even more enhanced experience. The report image can be displayed on the large control console screen of the TRS-6100.



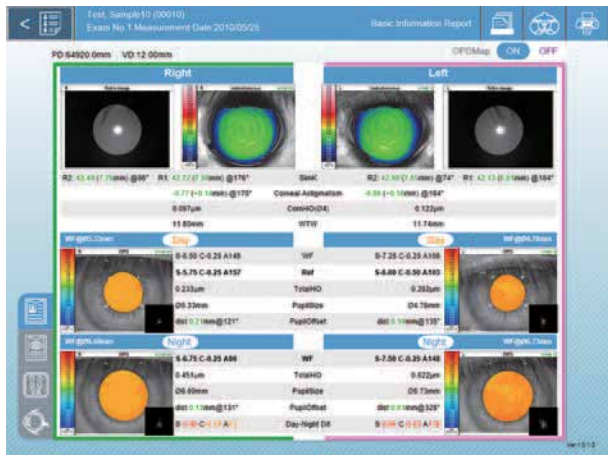
# Solutions for Face-to-face Consulting

Tablet viewer provides four kinds of easy-to-understand reports for explanation and consulting.



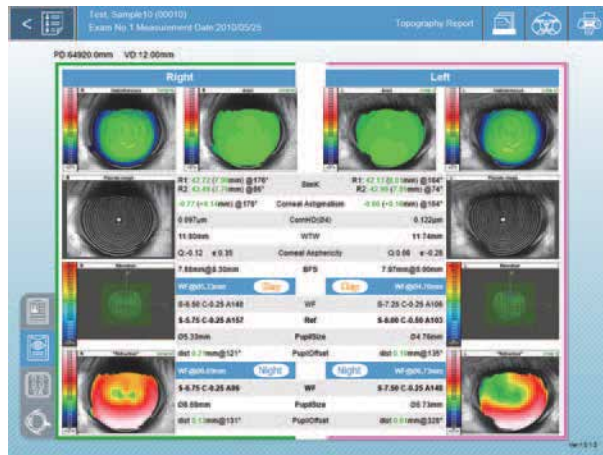
## Basic Information Report

Basic information to generally judge the patient's eye conditions.



## Topography Report

Intuitive maps and numerical data for comprehending the corneal surface.



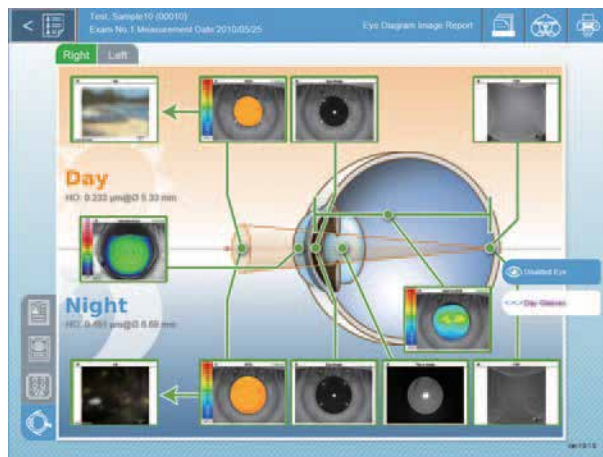
## Simulation Report

Visual performance simulations and MTF graphs for a variety of conditions.

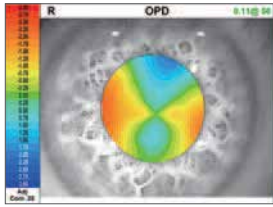


## Eye Diagram Image Report

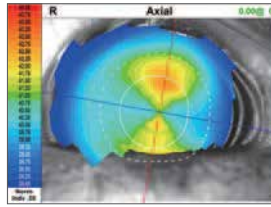
Eye model to visually understand eye conditions ranging from eye fundus to cornea.



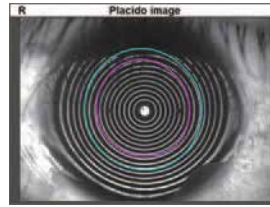
# Wide Range of Display Patterns



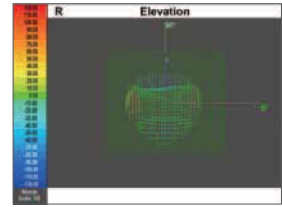
OPD map  
Distribution of refractive power



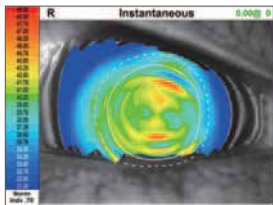
Axial map  
Distribution of corneal curvature radius / corneal refractive power



Placido image  
Placido ring image



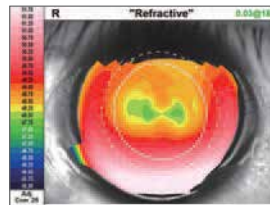
Elevation map  
Simulation of the difference in elevation between cornea and overlaid reference sphere



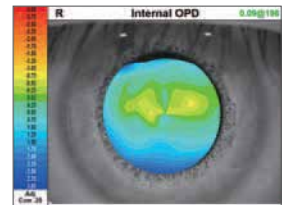
Instantaneous map  
Distribution of corneal curvature radius / corneal refractive power



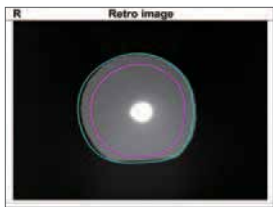
Eye image  
Image of anterior eye segment



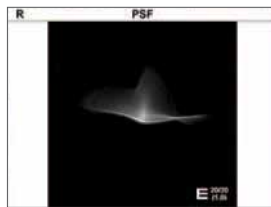
"Refractive" map  
Distribution of corneal surface refractive power



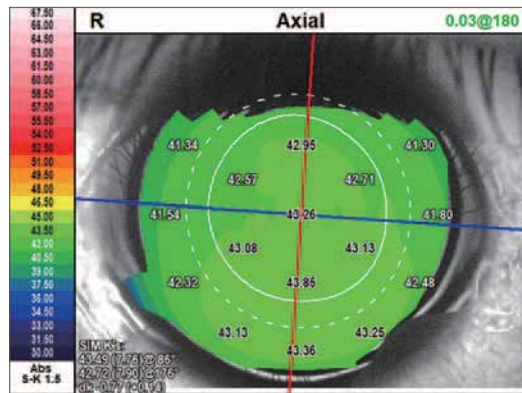
Internal OPD map  
Distribution of internal eye refractive error



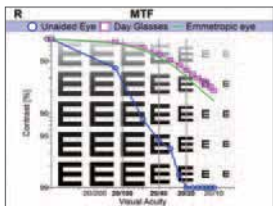
Retro image  
Retroillumination image



PSF (Point Spread Function) map  
Simulation of how the point-source light appears to the patient



Additional indication  
Text and numerical data display on some maps for more detailed confirmation.



MTF (Modulation Transfer Function) graph  
Graph of contrast analysis



VA (Visual Acuity) map  
Simulation of how the VA chart appears to the patient  
\*Landolt/ETDRS/Snellen/Image charts are available.

## OPD-Scan III <sup>(VS)</sup> Specifications

Wavefront aberrometer	
Measurement principle	Automated objective refraction (dynamic skiascopy)
Spherical power range	-20.00 to +22.00 D
Cylindrical power range	0 to ±12.00 D
Axis range	0 to 180°
Measurement area	ø2.0 to 9.5 mm (7 zone measurement)
Data point	2,520 points (7 x 360)
Map type	OPD, Internal OPD, PSF, MTF graph, Visual Acuity
Topographer	
Measurement rings	33 vertical, 39 horizontal
Measurement area	ø0.5 to 11.0 mm (R = 7.9 mm)
Data point	11,880 points and more
Map type	Axial, Instantaneous, "Refractive", Elevation
Auto refractometer	
Measurement range	Sphere -20.00 to +22.00 D Cylinder 0 to ±12.00 D Axis 0 to 180°
Minimum measurable pupil diameter	ø2.6 mm
Auto keratometer	
Measurement range	Curvature radius 5.00 to 10.00 mm Refractive power 33.75 to 67.50 D (n = 1.3375) Astigmatism 0 to ±12.00 D Axis 0 to 180°
Measurement area	ø3.3 mm (R = 7.7 mm)
Pupillometer/Pupillographer	
Measurement diameter	1.0 to 10.0 mm
Image type	Photopic, Mesopic
Auto tracking	X-Y-Z directions
Display	10.4-inch color LCD touch screen
Printer	Built-in thermal type line printer for data print
Interface	RS-232C, LAN: 1 port each USB: 4 ports
Power supply	100 to 240 V AC 50/60 Hz
Power consumption	110 VA
Dimensions/Mass	284 (W) x 525 (D) x 533 (H) mm / 23 kg 11.2 (W) x 20.7 (D) x 21.0 (H)" / 51 lbs.
Standard accessories	Printer paper, Power cord, Dust cover, Chinrest paper, Fixing pins for chinrest paper, Spherical model eye, Touch pen, Touch pen stand, Ferrite core, Installation CD for OPD Web Viewer System, Installation manual for OPD Web Viewer System
Optional accessories	Communication cable, Eye Care card system, Barcode reader, Magnetic card reader

Brochure and listed features of the device are intended for non-US practitioners.

Specifications may vary depending on circumstances in each country.

Specifications and design are subject to change without notice.

The tablet described in this brochure is not included or sold with the OPD-Scan III VS.