

Auto Ref-Topographer

REF TOPO RET-700

Specifications

Function	Eye refraction measurement	Spherical power	-20D to +30D(step: 0.12D/ 0.25D) VD=0
		Cylindrical power	0D to ±10D (step: 0.12D/ 0.25D)
		Axis angle	1 to 180 degrees (step: 1°/5°)
	Corneal curvature radius	Measurement range of corneal curvature	φ 2.0mm
		Corneal curvature radius	4.90mm to 10.10mm (step:0.01mm)
		Corneal refractive power	68.88D to 33.42D (step: 0.12D/ 0.25D) * corneal refractivity = 1.3375
		Corneal astigmatism	0D to ±10D (step: 0.12D/ 0.25D)
	Measurement of corneal shape	Axis angle	1 to 180 degrees (step: 1°/5°)
		Measurement range	φ 0.4- φ 10.7 (R8)mm
		Pattern of measurement light	19 cocentric circle ring patterns
Measurement point		6,200	
Working distance		77.5mm	
Peripheral cornea		Approx. φ 16 (R8) mm	
Axial		<input type="radio"/>	
Tangential		<input type="radio"/>	
Elevation		<input type="radio"/>	
Refractive		<input type="radio"/>	
Zernike	<input type="radio"/>		
Fourier	<input type="radio"/>		
Type	Placid Dome		
Fitting of contact lens	<input type="radio"/>		
Dry eye observation function	<input type="radio"/>		
Meibomian observation function	<input type="radio"/>		
Measurement of pupil diameter	φ 2.0mm to φ 8.5mm(step:0.1mm)		
Alignment method	Manual alignment		
PC	Built-in		
Monitor	10.4 inches touch panel colored LCD (XGA)		
Printer	Thermal line printer (paper width 58mm)		
External interface	USB-A × 2, USB-B × 1, Ethernet (10/100Mbps) × 1		
Source voltage/frequency	AC 100 to 240V, 50/60Hz		
Power consumption	90VA		
Power saving function	OFF, 3, 5, 10 min. (switchable)		
Size	H (507mm) × W(346mm) × D(422mm)		
Weight	17kg		

RET-700
Standard Accessories

- Operation manual
- Power cord
- Printer paper
- Fuse
- Dust cover
- Model eye
- Chinrest paper
- Chinrest paper pin



Auto Ref-Topographer

All-in-one model including auto ref, keratometer, topographer, PC and database

Auto Ref-Topographer with pursued functionality and operability

All in one & Multi Functions

The refractometer which can measure auto ref, kerato and topography with single alignment has been realized.
A variety of analysis functions backed by absolute reliability.



All-in-one

Measurements of the auto ref, kerato and topography are taken at the same time. Maximum 6 images of topography are captured continuously.

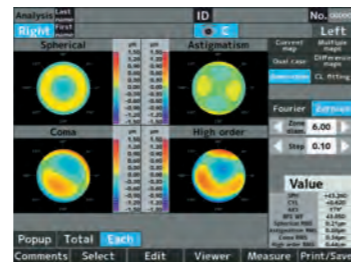


A Variety of Analysis Function

A variety of analysis display includes Current map, Multiple map, Dual case, Difference map, Aberration and CL fitting etc.



Difference map



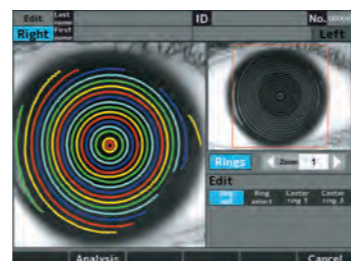
Aberration



CL fitting

Ring Edit Function

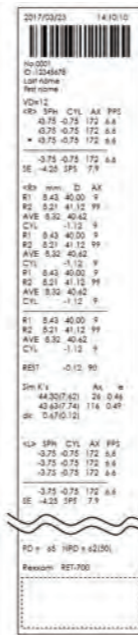
A ring can be assigned manually if the ring cannot be measured automatically.



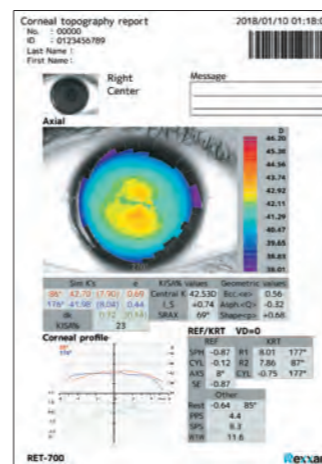
Simple & Easy Operation

The monitor can swivel 45 degrees each from center horizontally and tilt 40 degrees upward.
The swivel/tilt function allows both operator and patient's easy measurement and satisfaction.
The high-intensity colored LCD with touch panel is equipped.

Output of Measurement and Analysis Result



Built-in printer output



External report output

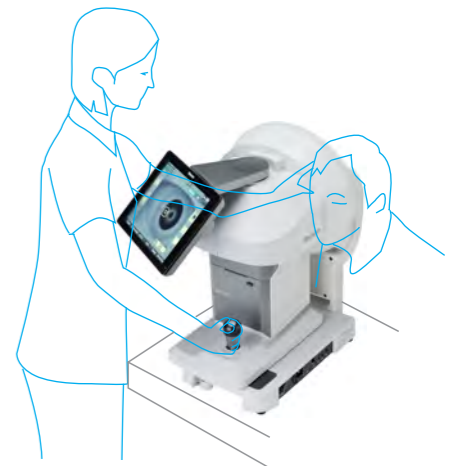
Wide Screen

10.4 inch wide color screen
The swivel/tilt function allows the operator to support easily the patient during operation.



Left/Right swivel 45°

Vertical tilt 40°



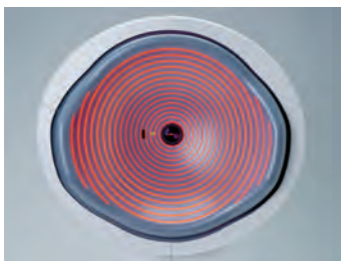
Electric Chinrest

It is easy to align the eye position of the patient with the eye mark.



Wide Topo Measurement Range

The measurement range is from 0.4mm to 10.7mm (R8.0).
Also, the peripheral corneal (approx. 16.0mm) is measurable.



Database

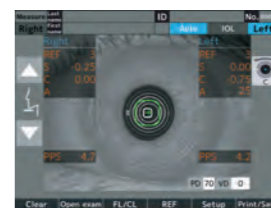
Measurement data can be stored and accessible any time.



Scotopic & Photopic Pupil Diameter Measurement

Measurement of scotopic pupil size (S.P.S function)

Measurement of photopic pupil size (P.P.S function)



Both scotopic and photopic measurements are available.