

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 $\pm 10D$ (step: 0.12D/ 0.25D)
		Axis angle	1 to 180 degrees (step: 1°/ 5°)
		Measurement range of corneal curvature	$\phi$ 2.0mm
	Corneal curvature radius	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 $\pm 10D$ (step: 0.12D/ 0.25D)
		Axis angle	1 to 180 degrees (step: 1°/ 5°)
	Measurement of corneal shape	Measurement range	$\phi$ 0.4- $\phi$ 10.7 (R8) mm
		Pattern of measurement light	19 cocentric circle ring patterns
		Measurement point	6,200
		Working distance	77.5mm
		Peripheral cornea	Approx. $\phi$ 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	$\phi$ 2.0mm to $\phi$ 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 $\times$ 2, USB-B $\times$ 1, Ethernet (10/100Mbps) $\times$ 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) $\times$ W(346mm) $\times$ D(422mm)		
Weight	17kg		

### RET-700 Standard Accessories

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



Design and specifications are subject to change without notice.

Manufacturer \_\_\_\_\_

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Distributed by \_\_\_\_\_

Auto Ref-Topographer

All-in-one!  
Auto-Ref, Kerato & Topographer

## REF TOPO RET-700

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.

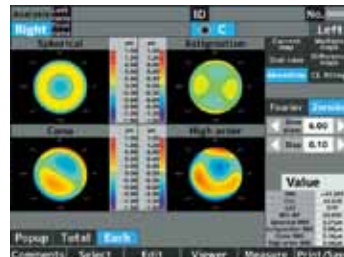


### A Variety of Analysis Function

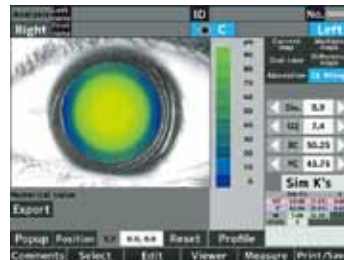
A variety of analysis display includes Current map, Multiple map, Dual case, Difference map, Aberration and CL fitting etc.



Difference map



Abberation



CL fitting

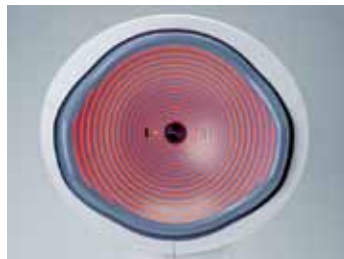
### Ring Edit Function

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



### 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.



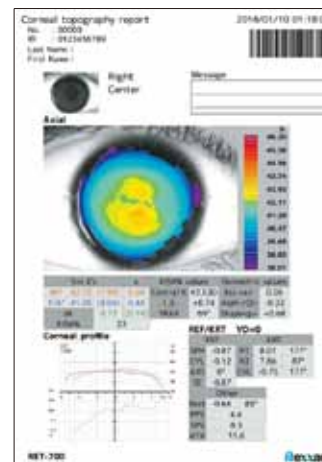
## Simple & Easy Operation

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



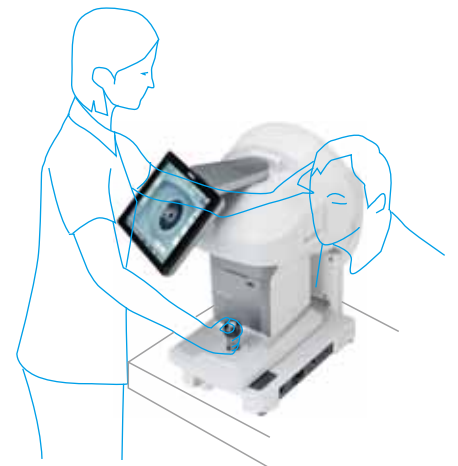
### Wide Screen

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.



### 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.