



Specular Microscope

Specular microscope with easy operation and speedy analysis

SPM-700



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Easy, Speedy and Accurate

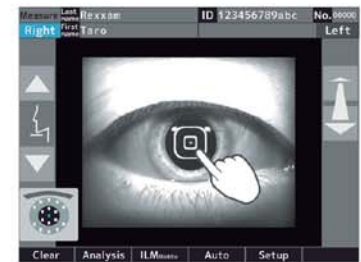
Quick Measurement & Analysis

By simple touch panel operation, alignment is achieved automatically, images are captured continuously in 2 sec., and analyzed in 1 sec.
High speed and accuracy specular microscope has been realized.



Continuous Capturing of 16 Images

16 images are captured in 2 sec. with our unique zoom function and auto alignment function by touching paracenter area.
※ Full-auto, semi-auto and manual can be selected in the operation mode.



Speedy Analysis Function

After the measurements, the best image is selected automatically from 16 images. After selecting the best image, analysis is finished in 1 sec.
※ The image can be selected from 16 images manually.

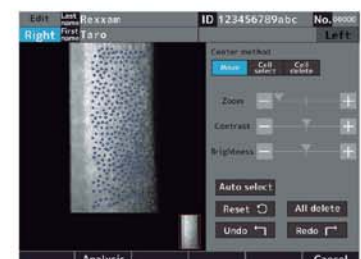


Corneal Thickness Measurement

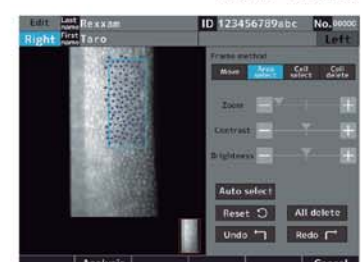
It is possible to capture the endothelial cell and to take a measurement of corneal thickness at the same time.

2 Manual Analyses

There are 2 manual analyses, center method and frame method.



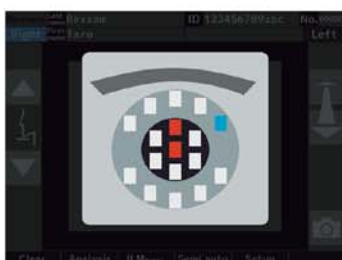
center method



frame method

Multiple Measurement Points

Total 17 measurement points including center, 6 in the paracenter and 10 in the periphery can be measured in the range of 0.25mm by 0.55mm.



Edit Function

This function enables to edit the contrast, brightness and analysis result of the endothelial cell image captured. Also, it allows to remove cells, add/delete lines and divide/merge cells.



Multiple Measurement Points

Edit Function

Simple & Easy Operation

The monitor can swivel 90 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.

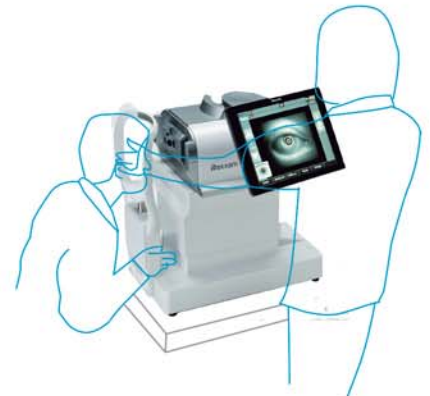
Wide Screen

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



Left/Right swivel
90°

Vertical tilt
40°



Output of Measurement and Analysis Result

2017/10/30 14:05	
No. 00001	
ID: 123456789abc	
Last name :	
First name :	
RIGHT	LEFT
CCT 544	562 μm
Num 606	276 cells
CD 3089	3167 cells/mm ²
AVG 324	316 μm ²
SD 148	148 μm ²
CV 46	47%
Max 944	1439 μm ²
Min 74	83 μm ²
6A 40	46%
Rexxam SPM-700	
ABCDEFGHIJKLMNQRSTUWXYZ	
abcdefghijklmnopqrstuvwxyz	

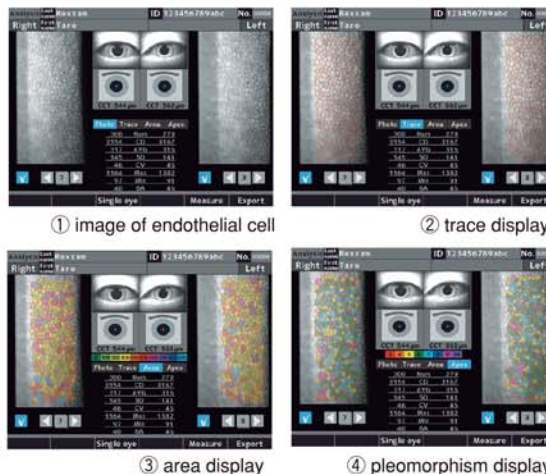
Built-in printer output

4 Types of Display Mode

The display mode can be selected from ① image of endothelial cell, ② trace display, ③ area display and ④ pleomorphism display.

Corneal endothelium analysis report		2017/10/30 14:05
No. 00000		
ID :		
Last name :		
First name :		
RIGHT	Message	
Corneal endothelium	Trace endothelium tissue	
CCT 516		
Num 319 cells		
CD 3111 cells/mm ²		
AVG 321 μm ²		
SD 132 μm ²		
CV 41%		
Max 1003 μm ²		
Min 78 μm ²		
6A 34%		
Area(Polygonation)	Area(Pleomorphism)	
0-11 100.00%	3 2%	
12-20 0.00%	4 2%	
21-30 0.00%	5 2%	
31-40 0.00%	6 2%	
41-50 0.00%	7 2%	
51-60 0.00%	8 2%	
61-70 0.00%	9 1%	
71-80 0.00%	10 1%	
81-90 0.00%		
91-100 0.00%		
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External report output



③ area display

④ pleomorphism display

Electric Chinrest

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



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Specifications

Capturing of corneal endothelial cell	Capturing position	Capturing range	0.25mm×0.55mm (W×H)
		Center	1 point
		Paracenter	6 points(2,4,6,8,10 and 12 o'clock directions)
		Periphery (optic angle: 27 degrees)	10 points (1,2,4,5,6,7,8,10,11 and 12 o'clock directions)
Measurement of corneal thickness	Range of corneal thickness measurement		400 to 750 μ m (step:1 μ m)
Analysis parameter	[Number]	[cells]	Number of endothelial cells
	[CD]	[cell/mm ²]	Density of endothelial cells
	[AVG]	[μ m ²]	Average endothelial cell area
	[SD]	[μ m ²]	Standard deviation of cell area
	[CV]	[%]	Coefficient of variation of cell area
	[Max]	[μ m ²]	Max.cell area
	[Min]	[μ m ²]	Min.cell area
	[6A]	[%]	Rate of cell hexagonality
Histogram	Polymegathism		
	Pleomorphism		
Monitor	10.4 inch touch panel colored LCD(XGA)		
Printer	Thermail printer (paper width 58mm)		
External interface	USB-A × 2, USB-B × 1, Ethernet (10/100Mbps) × 1		
Source voltage / frequency	AC100V-240V,50/60 Hz		
Power consumption	90VA		
Power saving function	OFF,3,5,10min(switchable)		
Size	H(503mm) × W(271mm) × D(459mm)		
Weight	19kg		

SPM-700 Standard Accessories

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

Design and specifications are subject to change without notice.

Manufacturer _____

Distributed by _____

Rexxam

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