Specular Microscope

SPM-700

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 μm (step:1 μm)
Analysis parameter		[Number] [cells]	Number of endothelial cells
		[CD] [cell/mm²]	Density of endothelial cells
		[AVG] [μm²]	Average endothelial cell area
		[SD] [μm²]	Standard deviation of cell area
		[CV] [%]	Coefficient of variation of cell area
		[Max] [μm²]	Max.cell area
		[Min] [μm²]	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 (10/100 Mbps) × 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

Rexxam

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Rexxam

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Specular microscope with easy operation and speedy analysis

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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.

Simple & Easy Operation

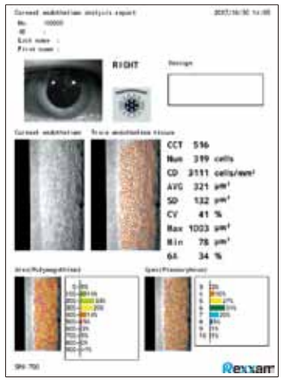
The monitor can swivel 90 degrees each from center horizontally and tilt 40 degrees upward.
The swivel/tilt function allows both operator and patient's easy measurement and satisfaction.
The high-intensity colored LCD with touch panel is equipped.

Wide Screen

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

Output of Measurement and Analysis Result

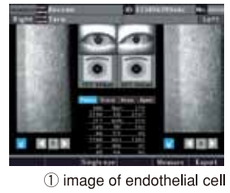
Built-in printer output



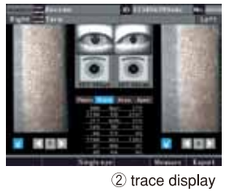
External report output

4 Types of Display Mode

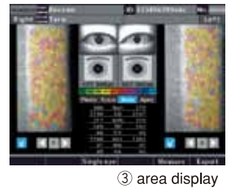
The display mode can be selected from ① image of endothelial cell, ② trace display, ③ area display and ④ pleomorphism display.



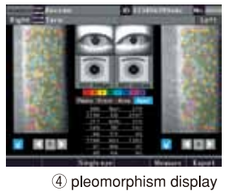
① image of endothelial cell



② trace display



③ area display



④ pleomorphism display

Electric Chinrest

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