

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



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Specular Microscope

Specular microscope with easy operation and speedy analysis

SPM-700

# Specular microscope with easy operation and speedy analysis

## 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.



#### 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.



#### 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

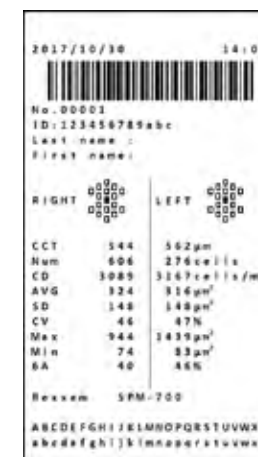


frame method

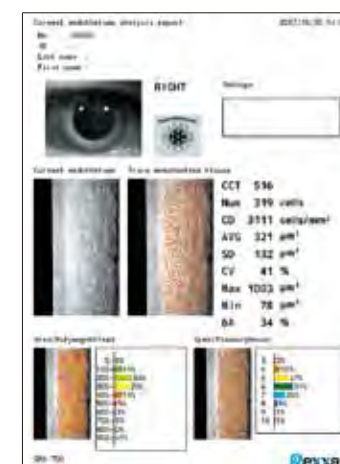
### Simple & Easy Operation

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.

#### Output of Measurement and Analysis Result



Built-in printer output

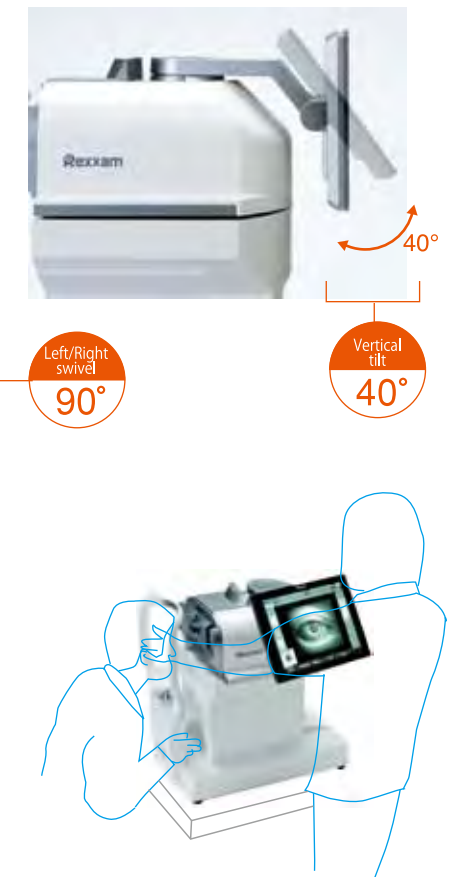


External report output



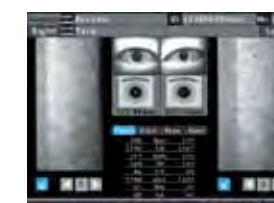
#### Wide Screen

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

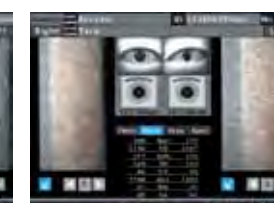


#### 4 Types of Display Mode

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



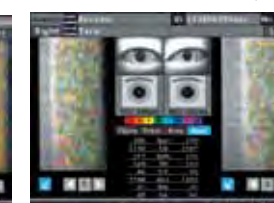
① image of endothelial cell



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.

