

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/mm ²]	Density of endothelial cells
	[AVG]	[μm^2]	Average endothelial cell area
	[SD]	[μm^2]	Standard deviation of cell area
	[CV]	[%]	Coefficient of variation of cell area
	[Max]	[μm^2]	Max.cell area
	[Min]	[μm^2]	Min.cell area
Histogram	[6A]	[%]	Rate of cell hexagonality
	Polymegathism		
Pleomorphism			
Monitor	10.4 inch touch panel colored LCD(XGA)		
Printer	Thermal 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

Available in the UK through Grafton Optical
sales@graftonoptical.com
 01923 233980

 graftonoptical.com



Specular Microscope

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.



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.



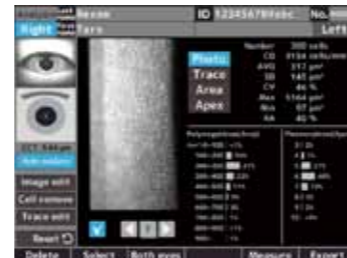
Continuous Capturing of 16 Images

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

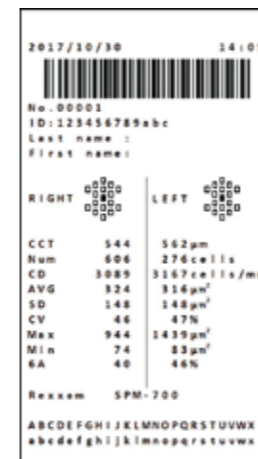


frame method

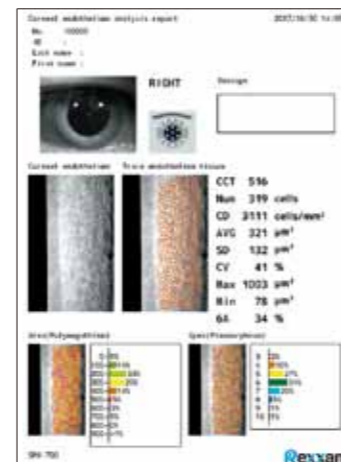
Simple & Easy Operation

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



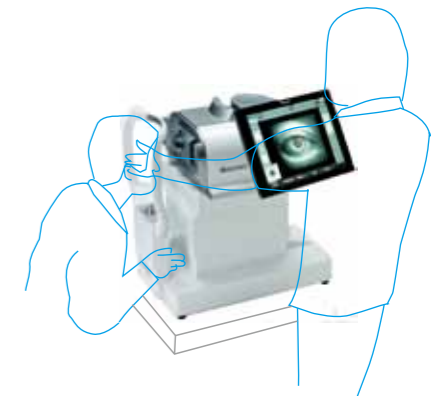
Wide Screen

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



Left/Right swivel 90°

Vertical tilt 40°



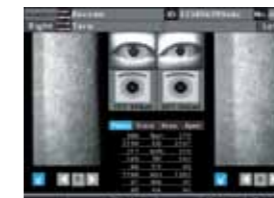
Electric Chinrest

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



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