



US Edition

THE ART OF EYE CARE



Paracentral Specular Microscopy

In addition to conventional central and peripheral specular microscopy, the CEM-530 includes a unique function to capture paracentral images. The paracentral images are captured at eight points, 5° visual angle within a 0.25 mm x 0.55 mm field and enable enhanced assessment surrounding the central image.



Auto Indication of the Optimal Image



Optimal image

16 images are captured and automatically sorted based on quality and the ability to be analyzed. The optimal image for analysis is indicated with orange highlight.

This feature aids the clinician in the selection of the most suitable image for analysis and enhances reliability of the data.

3-D Auto Tracking, Auto Shot, and Tiltable Touch Screen

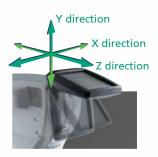
The 3-D auto tracking, auto shot, and tiltable touch screen provide ease of use, allowing faster and more accurate measurement.

Instant Printout with Built-in Printer

The built-in printer provides an instant printout of the analyzed data and images of the endothelial cells.

LED Light Source for Flash

The CEM-530 utilizes a LED light source for flash, which reduces power consumption, lasts longer, and saves on operational costs.





Two-second Auto Analysis

Rapid analysis increases the efficiency of the practice. Once the image is selected, complete analysis is automatically performed in two seconds with the CEM-530. The analysis screen allows visualization of the endothelial cells in four modes, trace, photo, area, and apex, which helps the clinician to verify analysis values with the correspondent cell images.



Analysis result (trace)

ei of Cells NUM

Cell Density (Cl

erage Area (AVQ)

Standard Deviation (3)

fut

Win Ares (AIN)

rah isolices a appropriate at a se

Hecaporal Cells (HES Corneal Thickness (CT)

setticiest of Variation (3

Name NIDES, CEM-53



Cell image (photo)

Cell image (apex)

The CEM-530 provides comprehensive analysis including two histograms of variation in shape (pleomorphism) and size (polymegathism). For detailed analysis, the range of analysis can be changed and the cells to be excluded can be selected at the user's discretion.



Change of analysis range



Selection of cell

Center Point Manual Analysis Function

Detail analysis (trace)

The center point manual analysis is initiated by selecting the approximate center of a cell. Adjoining cells are then detected based on the surrounding points. This method is particularly effective for areas where groups of cells are clumped together. The versatility of automated and manual analysis allows speed and precision.

228

2711

369

63

18

947

138 72

525

cell

μn

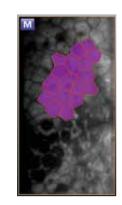
Am Polymegathism(Area)

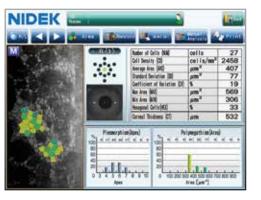
Area [am*]

cell/s



NIDEK





CEM-530 Specifications

Endothelial image capture		
Capture field	0.25 (W) x 0.55 (H) mm	
Capture position	Central	1 point
	Paracentral	8 points (5° visual angle, 45° spacing)
	Peripheral	6 points (27° visual angle, 60° spacing)
Pachymetry		
Measurement range	300 to 1,000 μm	
Accuracy	±10 μm	
Auto tracking / Auto shot	X-Y-Z directions	
	Auto shot	
Display	Tiltable 8.4-inch color LCD touch screen	
Printer	Built-in thermal line printer	
	External video printer (optional)	
Interface	LAN, USB, Video output (BNC connector for video printer)	
Power supply	AC 100 to 240 V	
	50 / 60 Hz	
Power consumption	100 VA	
Dimensions / Mass	291 (W) x 495 (D) x 457 (H) mm / 20 kg	
	11.5 (W) x 19	.5 (D) x 18.0 (H) " / 44 lbs.



Caution: U.S. Federal Law restricts this device to sale, distribution and use by or on the order of physician or other licensed eye care practitioner. Specifications may vary depending on circumstances in each country.

Specifications and design are subject to change without notice.



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