



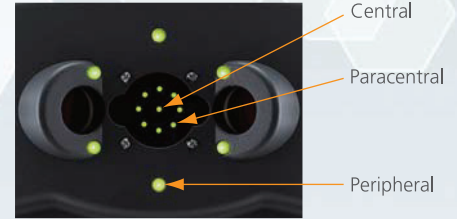
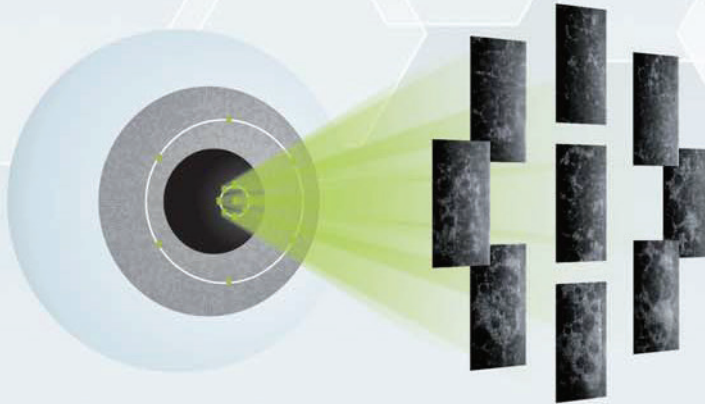
Specular Microscope
CEM-530
US Edition



THE ART OF EYE CARE

Multi Area Specular Microscopy

In addition to conventional central and peripheral specular microscopy, the CEM-530 includes a NIDEK original function that captures paracentral images. The combination of central, paracentral, and peripheral imaging provides a broader, overall view that can be used for detailed morphological and quantitative evaluation of the endothelial layer and individual cells.

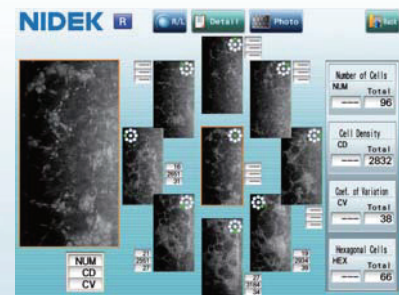


The position of fixation lights
 Central 1 point
 Paracentral 8 points (ø1.3 mm*)
 Peripheral 6 points (ø7.3 mm*)
 * When R=7.8 mm

Paracentral mode provides a total image of endothelial cells.

The paracentral mode allows detailed evaluation of cell shape, which is important for preoperative assessment. For example, assessment of corneal guttata using a central image only is often clinically ineffective due to the limited number of countable cells.

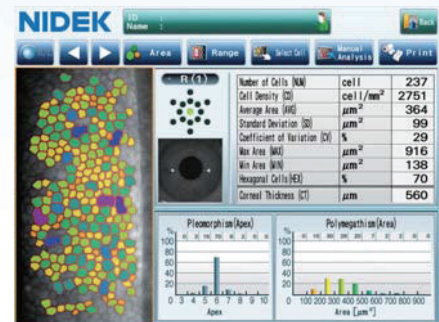
Supervisor: Prof. Yuichi Ohashi
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Paracentral image

Enhanced Usability and Quick Analysis

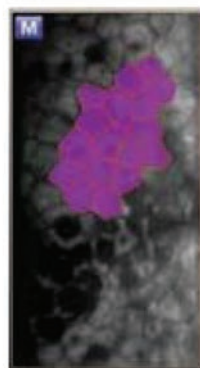
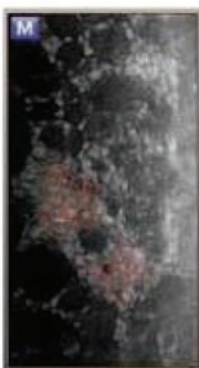
The 3-D auto tracking and auto shot functions result in a user friendly and patient friendly experience. Data analysis within 2 seconds allows efficient patient flow.



Detail analysis

Center Point Manual Analysis Function

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.



CEM Viewer for NAVIS-EX

CEM Viewer is software used for viewing and working with CEM-530 data via NAVIS-EX. working with CEM-530 data via NAVIS-EX. This function enhances the capability of the CEM-530 with additional features and increases the efficiency of any clinic.



NAVIS-EX is image filing software that enables data from the NIDEK diagnostic devices to be centralized in the NAVIS-EX database. It was initially developed for NIDEK's retinal products and has been expanded to network with the CEM-530.

*NAVIS-EX is optional software and is required for use of the CEM Viewer.



Data Management and Endothelial Cell Count

Unlimited NAVIS-EX database is available for review on the CEM Viewer. The basic functions of the CEM-530 such as endothelial cell count are available on the CEM Viewer.

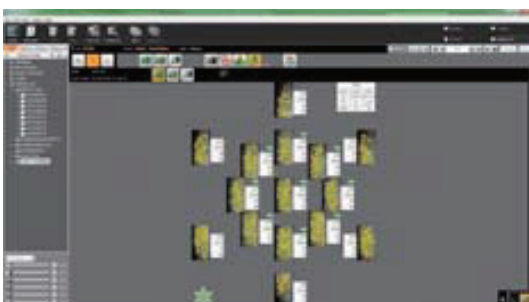
Progression Follow-up and Comparison

Multiple examination data sets are displayed in chronological order for follow-up. Additionally, two data sets are displayed for comparison. Endothelial changes can be monitored over time with this function.



Paracentral Display with Peripheral

The images and analyses of the paracentral and peripheral areas are displayed providing a comprehensive image of endothelial cells.



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	X-Y-Z directions
Auto shot	Available
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 a 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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