



Specular Microscope  
**CEM-530**



THE ART OF EYE CARE



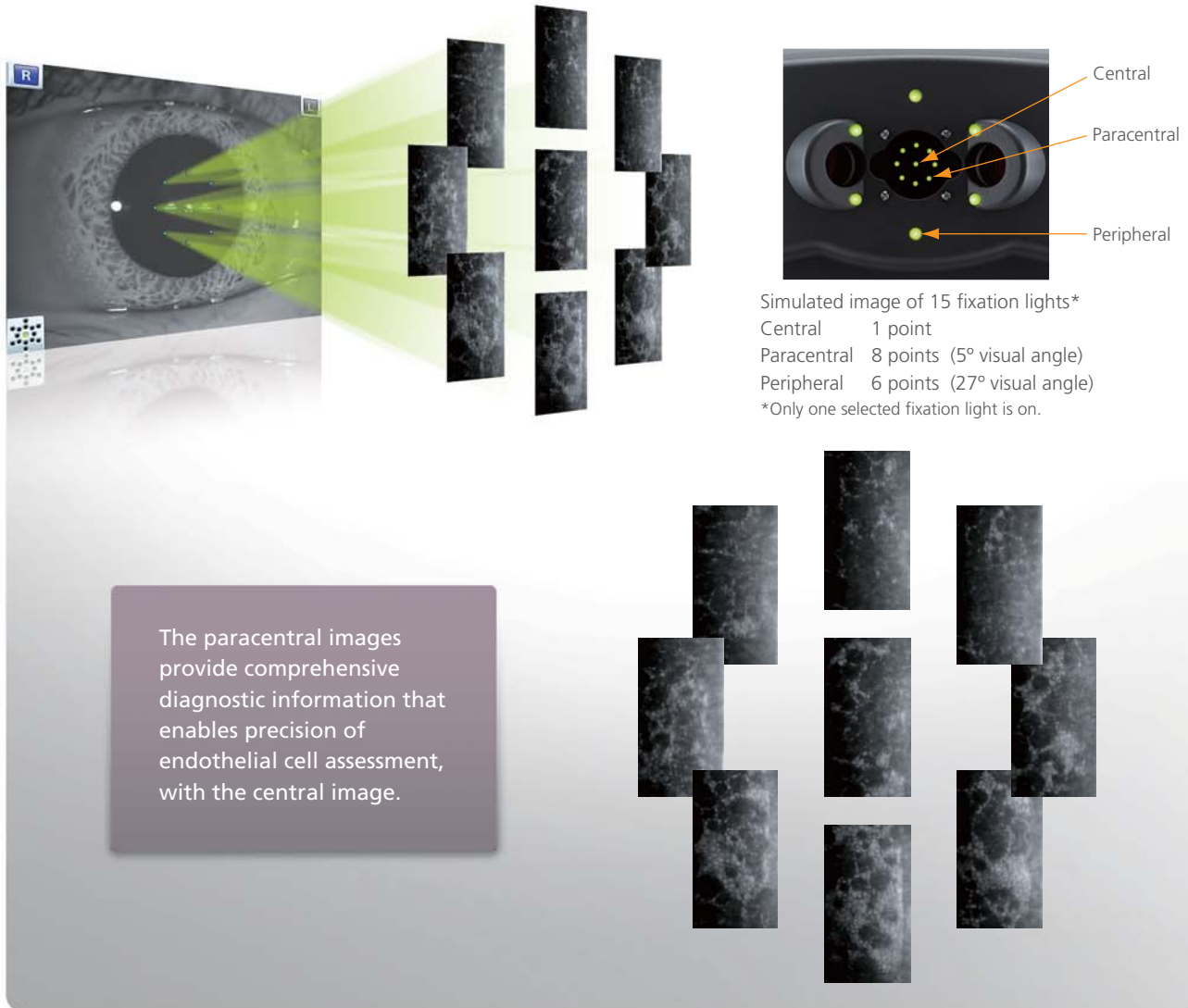
# CEM-530

## SPECULAR MICROSCOPE



### 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.



## 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.



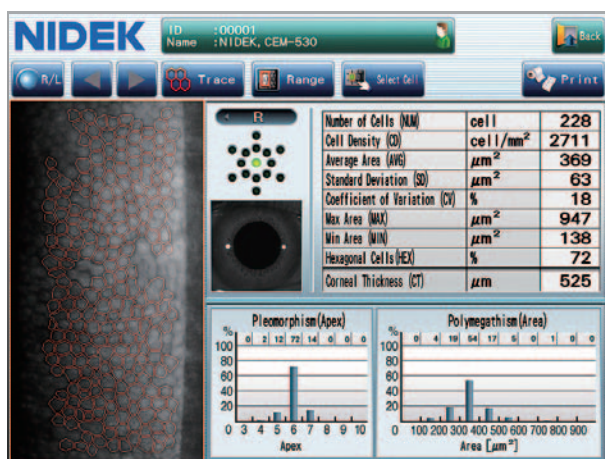
Analysis result (trace)



Cell image (photo)

Cell image (area)

Cell image (apex)



Detail analysis (trace)

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

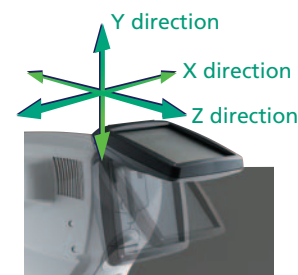


Selection of cell



## 3-D Auto Tracking, Auto Shot, and Tilttable Touch Screen

The 3-D auto tracking, auto shot, and tilttable 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.

## 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	Tilttable 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.



Specifications and design are subject to change without notice.



Eye & Health Care

**NIDEK CO., LTD.**

#### HEAD OFFICE

34-14 Maehama, Hiroishi  
Gamagori, Aichi 443-0038, Japan  
Telephone: +81-533-67-6611  
Facsimile : +81-533-67-6610  
URL : <http://www.nidek.co.jp>

[Manufacturer]

#### TOKYO OFFICE

(International Div.)  
3F Sumitomo Fudosan Hongo Bldg.,  
3-22-5 Hongo, Bunkyo-ku, Tokyo  
113-0033, Japan  
Telephone: +81-3-5844-2641  
Facsimile : +81-3-5844-2642  
URL : <http://www.nidek.com>

#### NIDEK INC.

47651 Westinghouse Drive  
Fremont, CA 94539, U.S.A.  
Telephone: +1-510-226-5700  
: +1-800-223-9044 (US only)  
Facsimile : +1-510-226-5750  
URL : <http://usa.nidek.com>

#### NIDEK S.A.

Europarc  
13, rue Auguste Perret  
94042 Créteil, France  
Telephone: +33-1-49 80 97 97  
Facsimile : +33-1-49 80 32 08  
URL : <http://www.nidek.fr>

#### NIDEK TECHNOLOGIES Srl

Via dell'Artigianato, 6 / A  
35020 Albignasego (Padova), Italy  
Telephone: +39 049 8629200 / 8626399  
Facsimile : +39 049 8626824  
URL : <http://www.nidektechnologies.it>

