KONAN MEDICAL

See what you've been missing™

CELLCHEK® SL

PREMIER ENDOTHELIAL ANALYTICS

Specular Microscopy

CELLCHEK® SL

PREMIER ENDOTHELIAL ANALYTICS

Konan's specular microscopes are the global gold standard for precision assessment of the most critical layer of the cornea, the endothelium.

Clinical Benefits

Contact Lens Patient Management

CellChek provides a detailed analysis of contact lens-related endotheliopathies caused by poor hygiene, low oxygen transmission or incorrectly fitted lenses. CellChek imaging also supports recommendations for premium lenses, patient compliance, and aids decision making for treatment plans or corrective action.

Pre-Operative Risk Assessment for Cataract, Refractive and Implant Surgery

As a "predictor of success" – endothelial analysis provides critical insight for surgeons regarding the stability of the cornea that can be used to improve outcomes, manage patient expectations (especially for patients considering premium IOLs) - and mitigate potential liability.

Post-Operative Care and Co-Management

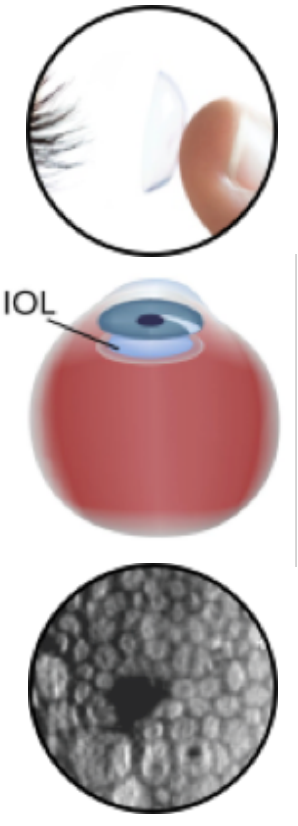
Post-operative assessment is essential to quantify surgical trauma and monitor tissue rejection from ocular surgery. Even during uneventful phacoemulsification, endothelial cell loss can be as high as 15%, therefore monitoring subsequent cell morphology during the healing process is critical. It may also be useful for monitoring signs of tissue rejection, for example post DMEK.

General Assessment of the Cornea

CellChek is a quick and effective method of screening for unsuspected changes and can aid the diagnosis and proper treatment of corneal diseases as such as Fuchs' Dystrophy, keratoconus, other corneal dystrophies and trauma.

"We utilize the Konan specular microscope after all of our DSAEK surgery. The information that the specular microscope provides is valuable for assessing the long term effects of the surgical trauma of the procedure, and specular microscopy is critical to understanding your personal outcomes with DSAEK."

Mark Terry, MD
Devers Eye Institute, Portland, OR USA



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Gold Standard Analysis Methods

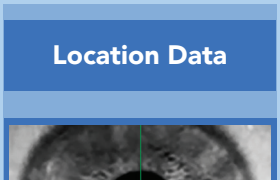
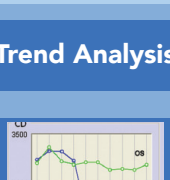
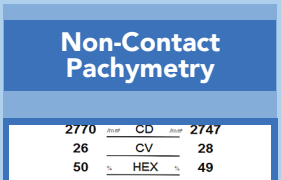
All Konan specular microscopes feature Center Method™ and Flex-Center™ semi-automated analysis tools. Center Method is mentioned in FDA panel minutes as being the "gold standard" and is used by virtually every professional reading center for independent assessment of corneal endothelial analytics.

The Center Method provides high precision and repeatability for specular images in which relatively small continuous areas of cells are present.

The Flex-Center™ method is an additional tool for advanced stage diseased corneas in which only a very few cells are visible. With this semi-automated, perimeter-count method, again high precision and repeatability is achieved. Only Konan provides the rich set of analytic tools for reliable assessment of the entire spectrum of corneal conditions.

Fully automated analysis is also available, but is only recommended for relatively healthy corneas with large areas of visible cells.

Konan Exclusive Features

Location Data	Trend Analysis	FDA Cleared Device & Database	Non-Contact Pachymetry	IOL | ICL Mode
				
Detailed image of the anterior segment with green rectangle showing location of cell sample location. Automatically records the location from which the data sample was acquired.	Clear, automated assessment of changes over time. Statistically valid trends can only be obtained if you are comparing data from the same location.	Integrated database management allows robust data mining and simplified data management with most popular EMR / EHR systems and optional DICOM compatibility.	Independent studies have shown the pachymetric values to be as accurate as ultrasonic pachymetry, with less potential trauma to the cornea.	Automatic measurement may be difficult for patients with an intraocular lens or other device implanted. Easily view the index of refraction using IOL | ICL mode.

KonanCare

CellChek SL comes with one year of extra protection through the highest priority support system.

- White-gloved installation and initial training
- 90-day follow-up remote training support
- Remote technical support
- Priority service call back
- Software updates

CELLCHEK® SL

PREMIER ENDOTHELIAL ANALYTICS

> *"My Konan specular microscope is the best investment that I have ever made."*
>
> *Steven Bovio, OD*
> *Gulf Coast Eye Center, Sarasota, FL, USA*

Integrated touch-screen computer

All-in-one compact design

Auto inter-eye positioning

Single motorized chin rest

Accurate and Repeatable Specular Microscopy

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Specifications	
Type	Class I, Type B electrical equipment
Operating conditions	Ambient temperature: 10 to 40°C Relative humidity: 30 to 85% (no condensation) Atmospheric pressure: 70 to 106 kPa Ordinary equipment (no protection against ingress of water) Operation mode: continuous operation
Photographic capability	Automatic or Manual
Photographic location	Center, Peripheral locations (12 o'clock, 2 o'clock. 10 o'clock, 6 o'clock)
Imaging method	Non-contact: auto-alignment, auto-focus, auto-capture, auto cell count
Imaging field	0.1 mm2
Measurement accuracy (corneal thickness)	±10 µm or better
Analytical accuracy	Cell area (Center Method): ±5% Cell area (Cell Screener Method): ±15%
Camera	Built-in CCD image sensing element camera
Flash	Konan Xe tube
Focusing illumination	Konan Halogen lamp
Output function	Video terminal (NTSC signal)
Input function	Mouse terminal, exclusive remote control terminal
Input voltage	100-240VAC, 50/60 Hz
Fuse	3A (250V) x 2 (Fast Blow 5 x 20)
Power consumption	70 VA
Weight	20.5 Kg
Dimensions	~ 420(H) X 334(W) X 486(D) mm
Transport and storage condition	Ambient temperature: -20 to 60°C Relative humidity: 30 to 95% (no condensation) Atmospheric pressure: 50 to 106 kPa

USA Reimbursement: CPT 92286

Konan specular microscopy offers remarkable value both clinically and financially.

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