CellChek® D | D+

Eye Bank Specular Microscopes

Designed to improve patient outcomes, CellChek® D+ redefined specular microscopy in Eyebanking.

It was quickly and widely adopted by many of the world's finest Eye Banks.


CELLCHEK D
KONAN
MEDICAL


Multi-Sample Average
CD 2,237
CV 44
HEX 62
SD 197
Total Area 58,599
Total Num 131
Cornea ID: 6666
Eye: Right(OD)
Age: 0
Type: Corneo-Scleral
Temp: -
Pach: -
Tech:
Notes
Diameter 12.3
Length 12.6
Area 6.1
DELL

CellChek® D+

Introducing the first multi-imaging system for donor corneal analysis. CellChek® D+ provides an amazing view into the cornea that simply has never been seen before defining the structure of the endothelium, stroma and epithelium. Comprehensive imaging to assist both eye banks and corneal surgeons to make better decisions on implantable material.

Now featured in Cornea June 2018 Supplement: Current and New Technologies in Corneal Donor Tissue Evaluation Comparative Image

Atlas. Especially check out S7 “Wide-Field Ex Vivo Dual Imaging Microscopy.”

Download Atlas

Request More Information

Clinical Applications

Donor cornea tissue assessment

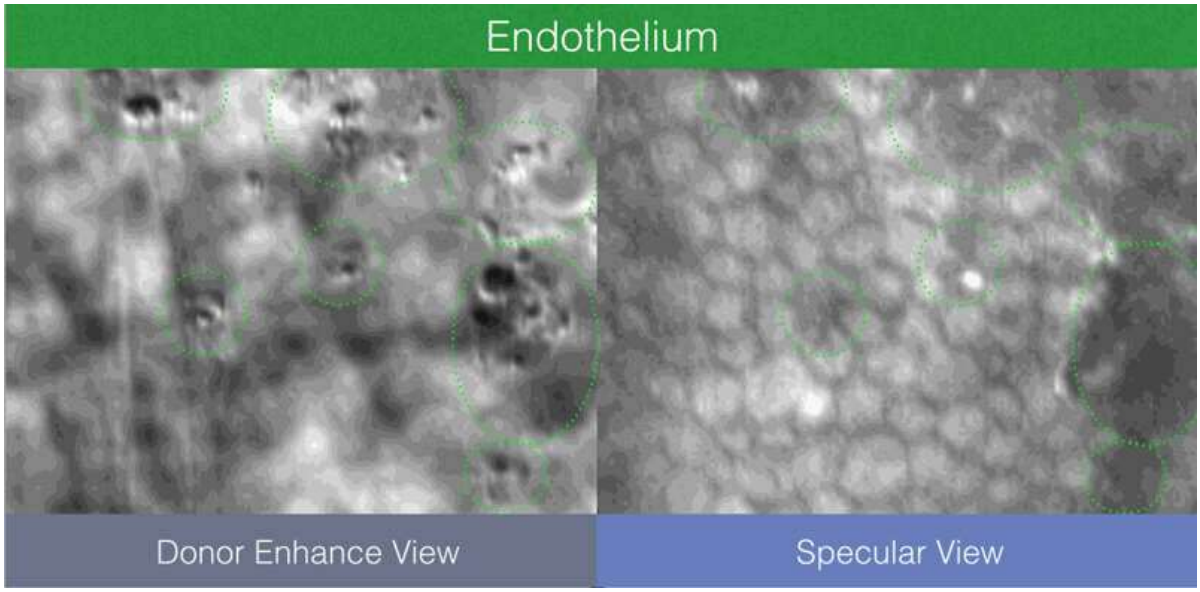
Clinical Benefits

Provides remarkable views of endothelium, intra-stomal structure and the epithelium

For the first time, visualize blood cells, fungus, rough keratome cuts, dead cells, and epithelial anomalies

Regulatory

CE Marked
In Vitro USA

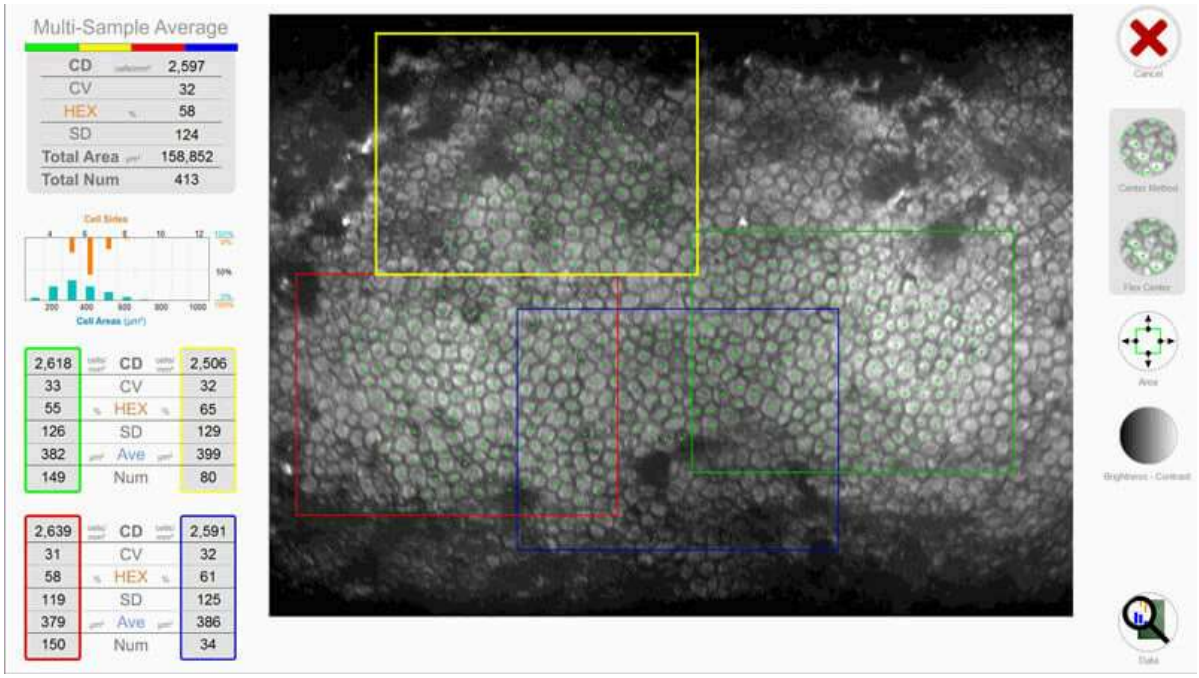


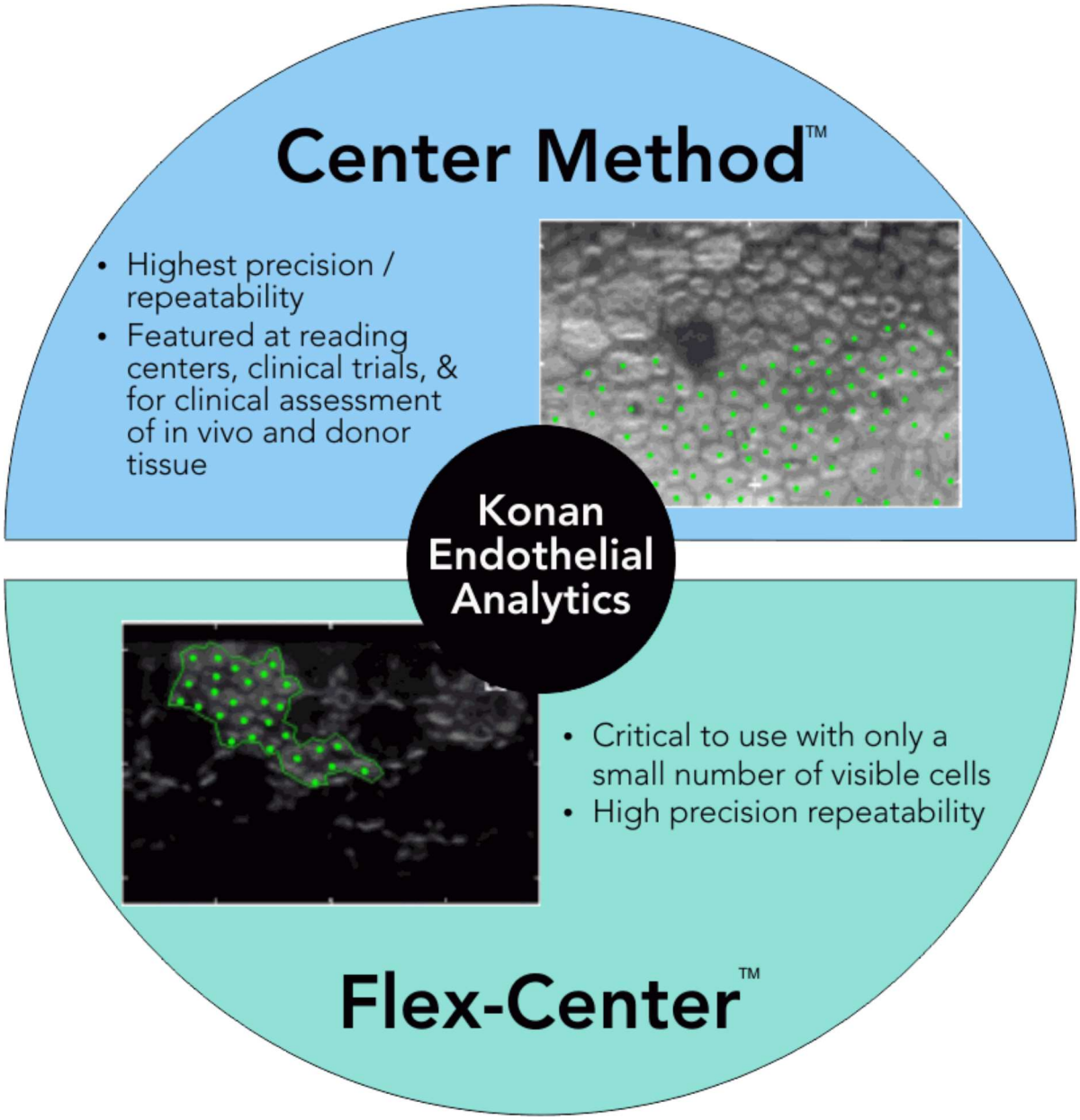
New “Donor Enhanced” Imaging System

CellChek® D+ features a patent applied for “Donor Enhance” imaging system that provides remarkable views of endothelium, intra-stomal structure, and the epithelium. The range of new information from which to make better clinical decisions is spectacular (pun intended): blood cells, fungus, rough keratome cuts, dead cells, epithelial anomalies. Never have we had this view of pre-implanted material. Corneal surgeons are finding this information to be illuminating in helping to understand graft success and failure.

Broad overview but with large multi-sample analytic areas

CellChek® D and D+ feature a new finder feature with digital measuring / documenting tools.


Multi-Sample Average
CD 2,597
CV 32
HEX 58
SD 124
Total Area 158,852
Total Num 413
Cell Sides
Cell Areas (μm²)
2,618 CD 2,506
33 CV 32
55 HEX 65
126 SD 129
382 Ave 399
149 Num 80
2,639 CD 2,591
31 CV 32
58 HEX 61
119 SD 125
379 Ave 386
150 Num 34



Patented Cellular Analysis Methods

All Konan specular microscopes feature the Center Method of analysis. 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.[1] Unlike full-auto assessments, the Center Method provides high precision and repeatability for specular images in which relatively small continuous areas of visible cells are visible.

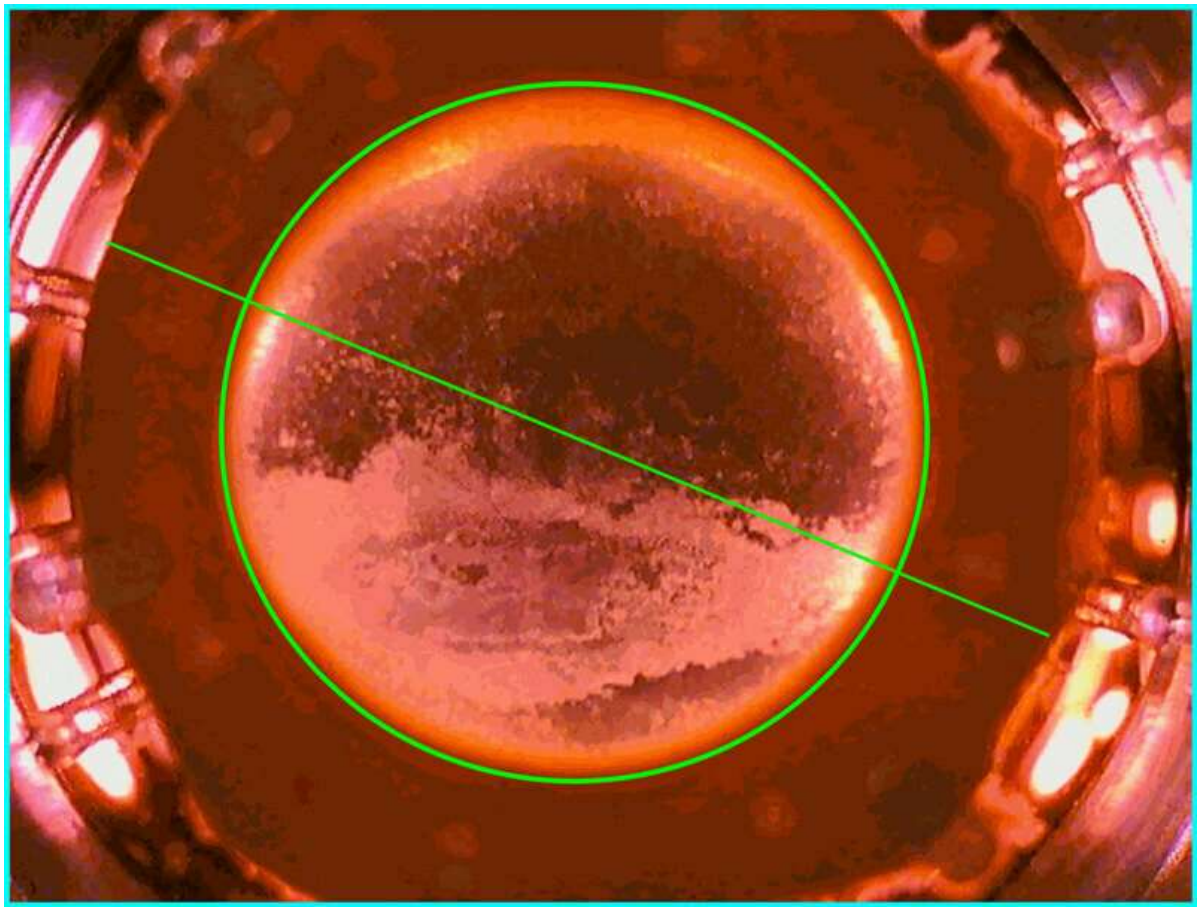
The Flex-Center method is the third tool for advanced stage diseased corneas in which only a very few number of cells are visible. With this

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.

It is not surprising that Konan is the global gold standard in corneal endothelial assessment.

Full Graft Imaging

CellChek® D and D+ provide a total picture of the cornea. Use digital measurement tools to identify, measure and document cornea dimensions, defects, and scars.



Clinical and Scientific Publications

As a corneal specialist for the last 22 years I would feel incomplete without my ability to perform specular in the clinical and eye bank setting. I have Konan units from the earliest to the most recent, all in service currently. They are reliable, accurate, and serve an essential role in my clinical practice and eye bank operations. The service delivered by Konan is some of the best I have experienced in the ophthalmic field. Specular microscopy provides a superb method of clinical screening for disease, an educational training tool for patients, their families and office and eye bank personnel, as well as a tissue evaluative method for eye banking. It is time and cost effective. I wouldn't want to practice without a Konan specular microscope.

George O. Rosenwasser, MD

Central Pennsylvania Eye Institute - Medical Director, Gift of Life Donor Program Eye Bank

I have used Konan's eye bank specular microscopes since November 2000. During that time we have processed over 45,000 corneas for transplant. Konan's microscopes have been proven to be extremely reliable day in and day for a 24/7 operation.

The specular microscope is one of the most vital pieces of equipment for any eye bank. I have enjoyed working with Konan's professional team as they are always readily available for any question or issue that may arise. I am looking forward to the new CellChek® D and CellChek® D+ which will be the new generation of donor cornea imaging & assessment.

Jason K. Woody

President & CEO, Lions Eye Institute

What Konan Medical Customers Say

The service delivered by Konan is some of the best I have experienced in the ophthalmic field. Specular microscopy provides a superb method of clinical screening for disease, an educational training tool for patients, their families and office and eye bank personnel, as well as a tissue evaluative method for eye banking.

George O.D. Rosenwasser, MD

Central Pennsylvania Eye Institute – Medical Director, Gift of Life Donor Program Eye Bank

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