CellChek XL

Specular Microscope

THE CELLCHEK XL™ COMES WITH THE FOLLOWING STANDARD ACCESSORIES:

- 19” touch screen computer/monitor
- Analysis and storage software
- Electric table
- Photo printer
- Backup hard drive
- Mini keyboard
- Optical wheel mouse
- Network and EMR/EHR capability

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
Photography method	Non-contact: auto-alignment, auto-focus, auto-capture, and auto cell count
Photographic field	0.24 x 0.4 mm
Measuring accuracy of corneal thickness	±10 µm or better
Analytical accuracy	Cell area in the center method: ±5% Cell area in the cell screener method: ±15%
Camera	Built-in CCD image sensing element camera
Flash	Konan Xe tube
Illumination for focusing	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	Approximately 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

DISTRIBUTOR:

KONAN™
MEDICAL USA

4025 SPENCER STREET, SUITE 103
TORRANCE, CA 90503
USA

TEL: +1 (310) 370-6359
FAX: +1 (310) 370-6852

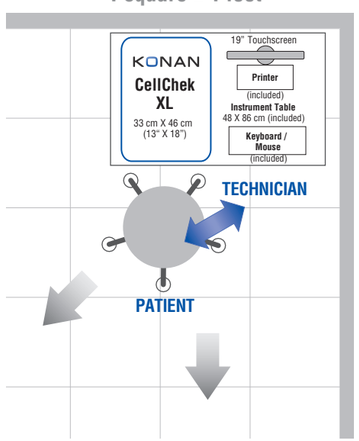
EMAIL: SALES@KONAN-USA.COM

WWW.KONAN-USA.COM

CE 0123

KONAN™
MEDICAL USA

1 square = 1 foot



WHY SPECULAR MICROSCOPY?

Konan's specular microscopes are regularly used for both well vision and medical patients.

*Corneal dystrophies are far more prevalent than glaucoma in patients over 40.**

The FDA requires specular microscopy as a primary end point for clinical studies for ophthalmic drugs and devices. Konan microscopes are recognized by eye care practitioners, regulatory groups, professional reading centers, and clinical trial experts as the gold standard for endothelial cell analysis. Changes in endothelial cell morphology, including cell loss, are a strong indication that the cornea is under stress. This is critical information for all patients who undergo corneal surgery such as LASIK, PRK, DSAEK, corneal inlays, intraocular lenses, phakic IOLs, and various keratoconus treatments.

Patient complaints including fluctuating vision, blurry vision, foreign body sensation, photophobia, contact lens intolerance, and haloes around lights can be indications of endothelial problems. Patients at risk for these problems include those who have diabetes, glaucoma, retinal disease, or recurrent iritis; those who use long term medications, have had prior anterior segment surgeries, or are long term contact lens wearers.

SIMPLE TO USE

The new CellChek XL™ specular microscope represents the latest in endothelial cell analysis algorithms and computer technology.

The instrument is simple to use and provides practitioners with essential information for procedures including DSAEK, corneal transplants, refractive IOLs, contact lens fitting and many others. The testing, from imaging to completion of automated analysis, fits easily into your patient flow. The broad range of patients who need this diagnostic modality also make it a wise economic decision.

The CellChek XL™'s side-by-side configuration allows you to place it against a wall or in a corner to minimize space requirements.

The equipment can further add value by providing data for case reports to journals, and allows you to monitor cell changes related to the use of new techniques.

"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

"Specular microscopy is one of the most underutilized, most profitable tests in optometry."

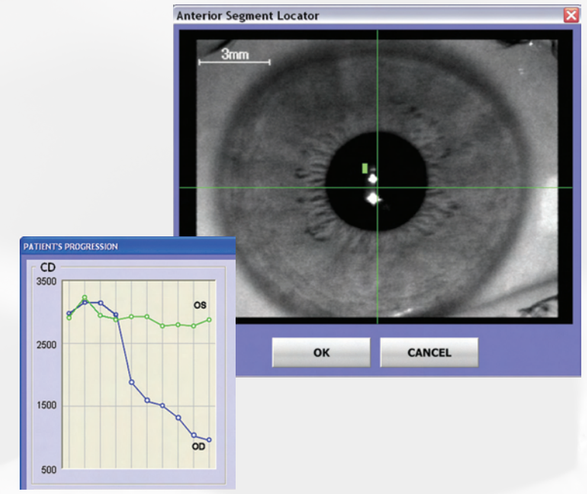
- John McGreal, OD

KONAN OFFERS MORE

Konan specular microscopes are the global leaders for specular endothelial analysis, both for routine clinical practice and clinical research.

PROVEN ACCURATE, EASY TO USE

Over 200 peer-reviewed studies and articles attest to the accuracy of Konan's analysis algorithms. All of the normative data for cellular morphology were developed on Konan devices and are only accurate for Konan devices. Featuring auto-focus, auto-alignment, auto-capture, and auto-cell counting, the CellChek XL™ easily captures consistent, high quality images of the patient's corneal endothelium using a patented method that identifies the position of the cellular interface.

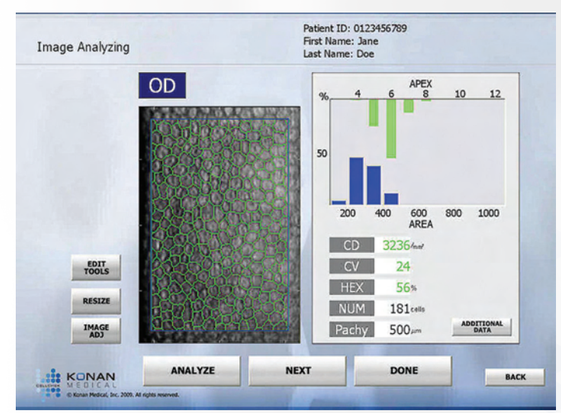


LOCATION SPECIFIC DATA SAMPLES

The CellChek XL™ software automatically records the location from which the data samples were acquired. One strong value of specular microscopy is to be able to assess and quantify change in the cornea over time. Without location data, trending is simply not accurate or reliable.

POWERFUL MULTI-POINT, ANALYTIC DETAIL

The CellChek XL™ offers five fixation points for image capture at the center and four peripheral sites, allowing a more comprehensive look at the cornea. This is particularly valuable in cases such as DSAEK, ALK, or in the presence of corneal dystrophies.



ADVANCED DATABASE FEATURES

New integrated database management system allows robust data mining and simplification of links to electronic medical records.

NON-CONTACT PACHYMETRY

Using non-contact optical pachymetry, the CellChek XL™ provides corneal thickness measurements at all five data sample sites. Independent studies have shown this to be as accurate as ultrasound pachymetry with less potential trauma to the cornea.*

SUPERIOR SERVICE

Konan offers complete installation and training, follow up training, access to experts for additional consultation regarding specific cases and corneal disorders, US-based service and technical support, and an excellent warranty program.

*Data available upon request.