

## Specifications

Type	Class I, Type B equipment
Photographic field	0.25 x 0.55 mm
Photographic capability	Automatic
Photographic location	Center, Peripheral locations (0, 45, 135, 180, 225, 315 degrees.)
Central corneal thickness	Measureable
Flash	LED
Analytical method	Fully automated / Semi automated / Center Method / Flex-Center Method
Analysis result	Cell density (mm <sup>2</sup> ), Coefficient of variation, Standard deviation, Percentage of hexagonal cells, Numbers of calculated cells, Average cell area (μm <sup>2</sup> ), Maximum cell area (μm <sup>2</sup> ), Minimum cell area (μm <sup>2</sup> ), Distribution of number of sides histogram (%), Distribution of area histogram (%)
Output function	USB3.0 x 4, LAN, Bluetooth (optional), Wireless LAN (optional)
Integrated monitor	10.6" Capacitive touch panel with a 180 degrees flexible horizontal & vertical movement capability
Connections	EMR connection / DICOM capability (optional)
Input voltage	100-240 VAC, 50/60 Hz
Power consumption	100 VA
Dimensions	310(W) X 459(D) X 451(H) mm (with the monitor at the rear-side)
Weight	19.8 Kg



Specular  
Microscopy &  
Optical Pachymetry




## CellChek 20

Even Quicker, Even Simpler. Just a single touch to complete your exam. Konan's specular microscopes are the global gold standard for precision assesment of the most critical layer of the cornea, the endothelium.

Brand-new Konan's specular microscope, CellChek Eighteen.

Manufacturer

**KONAN MEDICAL, INC.**

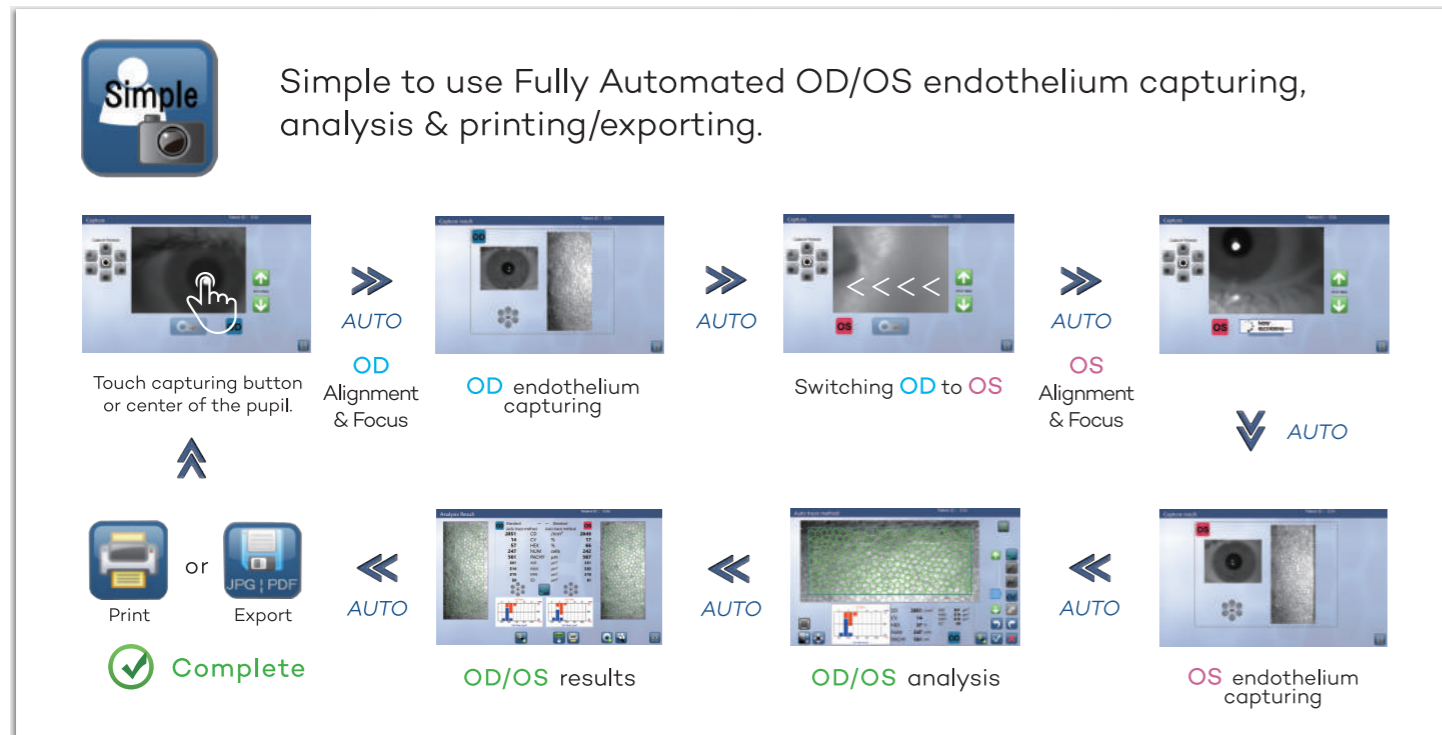
10-29, Miyanishicho, Nishinomiya, Hyogo 662-0976, JAPAN

TEL +81-798-36-3455

URL <http://www.konan.com/>

E-mail: [request@konan.com](mailto:request@konan.com)

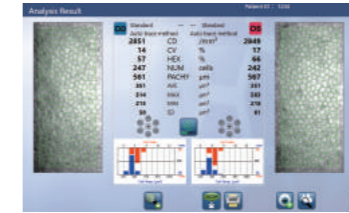
Just a single touch to complete capturing, analysis & output of OD/OS exam. New Easy-to-Use feature “Simple” mode.



### Analysis

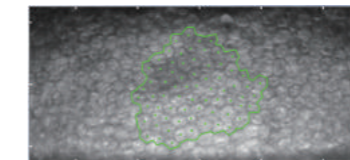
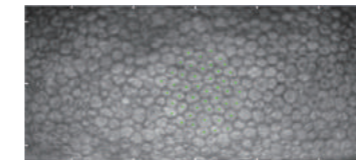
#### Fully automated analysis

The refurbished automatic analysis algorithm enables the higher precision of the analysis results, showing the results rapidly.



#### Gold Standard Center & Flex-Center Method

The Center Method is mentioned in FDA panel minutes as being the “gold standard” and is used by virtually every professional reading center. The Flex-Center Method is an additional tool for advanced stage diseased corneas in which only a very few cells are visible.



### Multi-Touch!

The multi-touch display makes your Center and/or Flex-Center Method analysis much easier and simpler.

Enlarged cell image enables better and fine tunes of the existing cell dot locations.

### Image capturing

#### Enhanced image capturing capability

By comparison with our conventional model\*, CellChek X8 provides approx. 11% quicker capturing time, and approx. 25% better resolution. The image field became 0.25 x 0.55mm, that is approx. 43% wider. Approx. 35% shorter booting time enables even faster exam. \*Compared with Konan CellChek SL.

#### Automatic capturing retry feature

In case of capturing failure occurs because of patient's blinks and/or lashes interference, CellChek X8 automatically retries the capturing until the preset counts. This feature will reduce the capturing error and make your exam smoother.

#### Non-Contact Pachymetry

Central corneal thickness can be measured simultaneously.

#### Location identification

Detailed image of the anterior segment with green rectangle showing location of cell sample is valuable for your pre & post surgery assessment as well as informed consent.



Sample screen shot of the normal capturing mode

Central and 6 peripheral locations can be captured.

With the normal capturing mode, max. 5 pairs of OD/OS endothelium images can be captured and analyzed.

### Output & Data management

#### Output

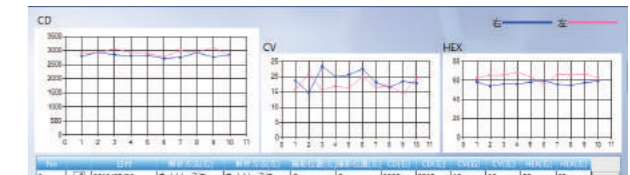
Compatible with various types of external printers. DICOM capability (optional).

#### Enhanced filing features

Endothelium images and analysis data are to be automatically recorded, and can be sorted quickly. The exam data from existing Konan's specular microscopes also can be utilized.

#### Trend Analysis

Clear, automated assessment of changes over time.



Sample image of trend analysis

### Compact & Space saving design

#### Flexible monitor direction

10.6" wide touch screen can be turned and tilted flexibly. Can be operated with various positions, and the operator can support the patient more easily than before.

All-in-one compact and light weight design with a small footprint does not have any moving parts during the exam, so will contribute-serve to a space saving.

