



SPECULAR MICROSCOPE

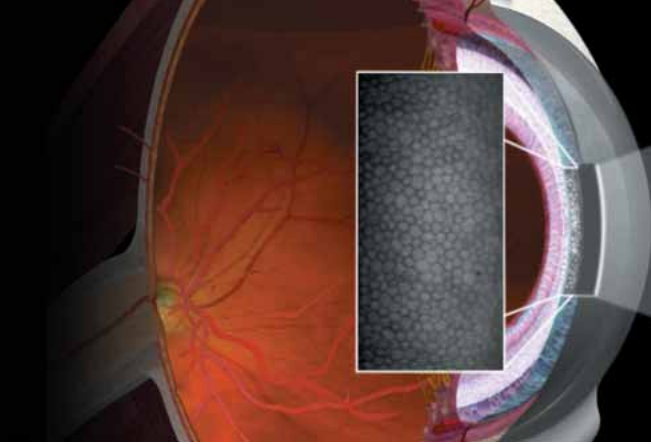
SP-3000P

NEW



Advanced end

Assists in Contact Lens Fitting.
The SP-3000P covers all the
easy to use functions and a



SPECULAR MICROSCOPE

SP-3000P **NEW**

Ergonomic design and state-of-the-art software place the SP-3000P in a category of its own, incorporating features and specifications that fully meet the needs of the demanding practitioner. Measuring endothelial cell density and corneal thickness, the SP-3000P provides ease of use, reliability and patient comfort. The non-contact measuring system makes its operation safe and simple, with minimum need for technical knowledge and experience. An advanced algorithm calculates reliable and repeatable data in every reading.



endothelial cell evaluation and pachymetry

Benefits Teaching Institutions, Aids in Pre and Post Surgical Evaluation, meets needs for endothelial cell analysis and pachymetry with reliable, broad range of options.

● Three modes for image capture

The SP-3000P offers three capturing modes adapting to every condition of the patient's eyes.

AUTO : With auto alignment and auto firing, this mode requires virtually no training and is quick and convenient for any user.

SEMI-AUTO : Manual alignment allows the user more control on the location of the reading. Auto firing simplifies the capture. Useful in patients with fixation difficulty or with irregular corneas.

MANUAL : Offers total control with manual alignment and manual firing. Basic method, useful in corneas with weak reflection or other anomalies.

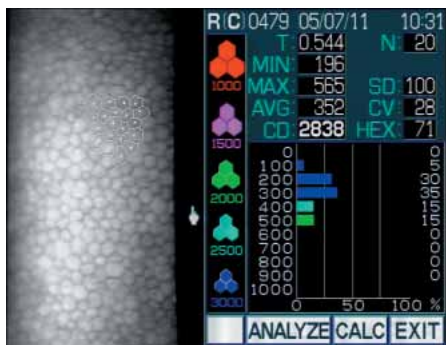
● 3-D auto alignment

Three motors working in conjunction with infrared sensors, automatically align and center the instrument at the precise working distance to obtain consistent and repeatable images of the corneal endothelium.



● Color LCD Screen

The bright and clear color LCD screen shows the corneal images in vivid detail allowing for an immediate visual evaluation of the patient's eye condition.



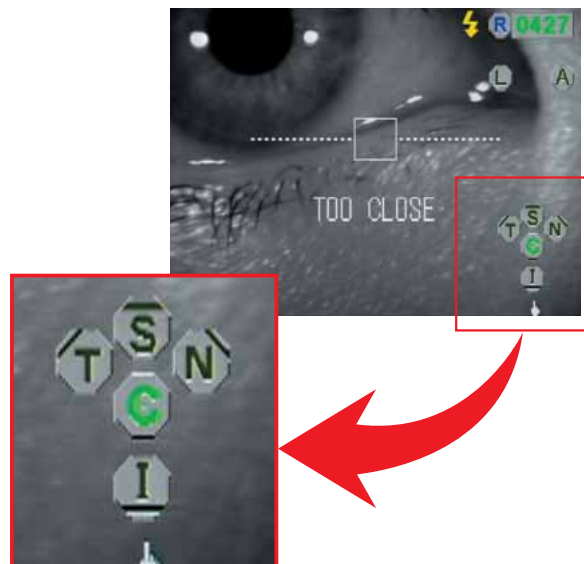
● Motorized Chinrest

The SP-3000P's motorized chinrest aids inpatient comfort and compliance, reducing stress and improving posture



● Fixation Targets

Strategically located, the five fixation targets of the SP-3000P allow for central, nasal, temporal, superior, and inferior views and measurement of the patient's cornea. Endothelial cell analysis and corneal thickness can be simultaneously measured in each one.



chymetry

ation...

■ System Configuration



SP-3000P with Video Printer

The quickest and easiest way to obtain printouts from the analyzed images. Connecting the SP-3000P to a video printer produces detailed prints of the monitor display in just a few seconds.



SP-3000P with Notebook PC and CellCount Software

This stand-alone software installed in a PC notebook provides higher accuracy in the analysis and is the convenient and cost-effective. USB2.0 connection is used for data transfer.



SP-3000P with PC, IMAGEnet™ Cell Analysis Software

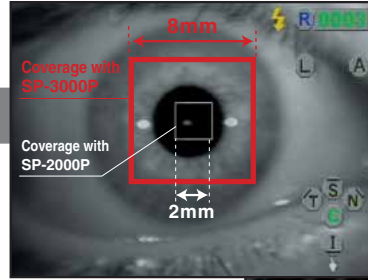
Complete digital configuration of SP-3000P. The Cell Analysis Software installed in IMAGEnet™ provides superior analysis capabilities as well as archiving, managing and interfacing with other Topcon instruments such as Slit Lamps and Retinal Cameras.



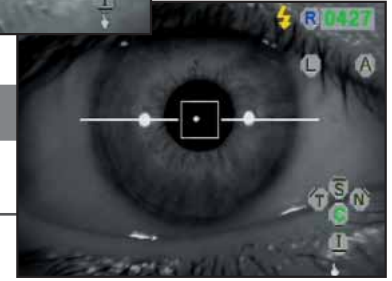
Capturing Procedure

1. Alignment

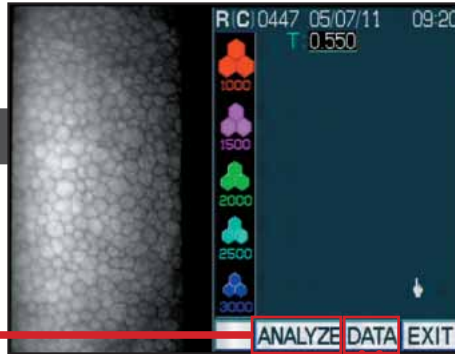
Wider auto alignment simplifies the capturing procedure. Just bring the central anterior eye segment to the center of the screen. The auto tracking system will then take over in an area of 8mm x 8mm and precise focus and centering is automatically obtained.



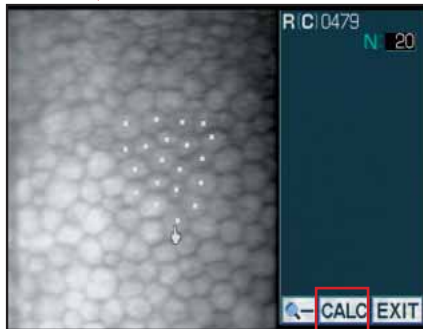
2. Capturing



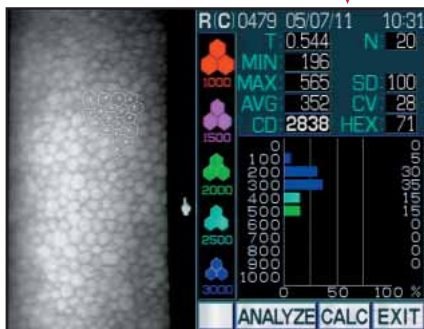
3. Click!



Click on "ANALYZE"



Click on "CALC"

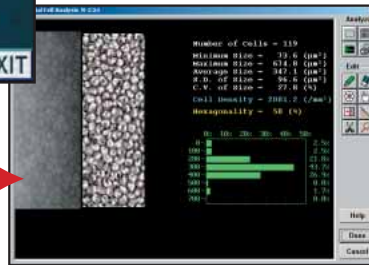


Obtaining cell measurements

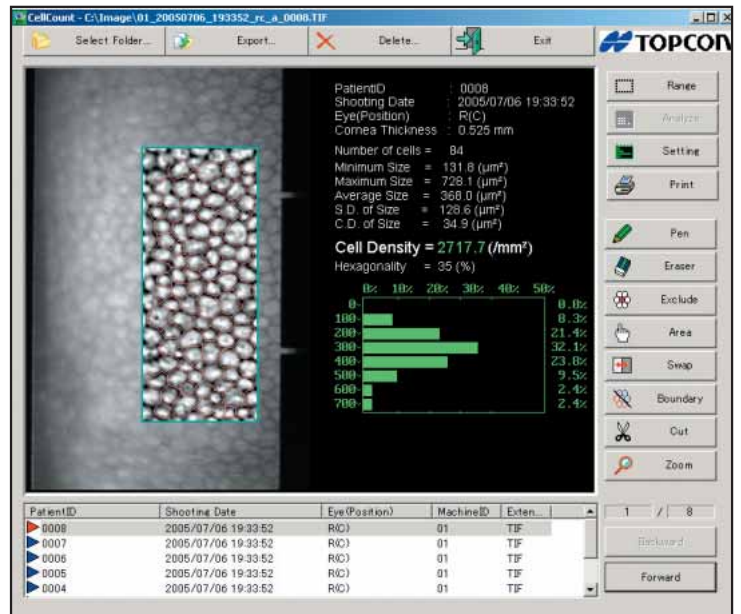
With 50 cells selected, the calculation will be done in about 17 seconds. The basic built in software will provide minimum, maximum and average cell size, cell density, standard deviation, coefficient of value and hexagonal cell ratio. This is the ideal for screening purposes and for use in reduced spaces.

IMAGEnet™ Cell Analysis Software

This optional software is part of the well-known family of IMAGEnet™ products. It provides enhanced data and information on the endothelial cell layer and can be interfaced with other Topcon products. Comprehensive data management and image transfer are possible when using this option.



Click on "DATA"



CellCount Software

To obtain the endothelial cell count, just click on the "DATA" button. The software will proceed automatically. The captured image will be transferred to the PC where the Cell Count Software will specify the area to be analyzed and provide a highly precise analysis of the endothelial cell layer. The procedure is totally automatic and the software can be installed in any PC running under Windows 2000 or XP. Images can be transferred via USB and setup is simple and convenient.

Specification

Photographic Coverage	0.25 x 0.5 mm	
Capturing Magnification	150 x	
Pachimetry Measurement	0.01 mm step	
Working Distance	25 mm	
Flash Intensity	High / Low	
Fixation Target	1 central	4 Peripheral (S, T, I, N / 12, 2, 6, 10 o'clock)
Photo mode	Auto / Semi-auto / Manual	
Image Memory	5 images for each eye (total 10 images)	
Monitor	5.6 " Color LCD	
Base Travel	X ±46mm, Y ±14mm, Z ±20mm	
Head Travel	X ±10mm, Y ±14mm, Z ±10mm	
Chinrest Adjustment	Motorized 65 mm	
Power Voltage	100V - 240V	
Power Consumption	Normal 65VA, Maximum 190 VA	
Dimensions	W274 x D485 x H445	
Weight	22 Kg	

Optional Accessory



Adjustable Instrument Table
AIT-16



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Certificate No.JP00/18661QA
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*Subject to change in design and/or specifications without advanced notice.

IMPORTANT

In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.



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