

# SP-1P

Specular microscope



# Functionality & aesthetics combined



## The next generation in specular microscopy

The Topcon specular microscope SP-1P introduces a modern ergonomic design and innovative features that simplifies its use and increases its efficiency. A large 10.4 inch rotatable touchscreen eliminates the need for a control lever, and can be turned to various angles for better interaction with the patient.

By simply tapping on the center of the patients' pupil displayed on the monitor, the SP-1P automatically centers, focuses, acquires and analyzes the endothelial cell image. The entire operation takes a few seconds and it is fast and smooth, requiring minimum training.

The SP-1P offers space saving features and has a very easy to use interface.

## Features

### Compact and stylish design

- 10.4 inch rotatable touchscreen

### Quick automatic measurement and analysis

- Instant acquisition of the analysis results
- Intuitive operation

### Panorama photography function

- Substantial size increase of the analyzed area

### Easy report

- Built-in printer
- Export to storage

### Two photography modes

- Sequence mode
- Free style mode

### Easy to read screen and comprehensive analysis software

- Frequently referred values are shown on top
- A pleomorphic / polymorphic histogram can be shown with color



# Features



## Compact and stylish design

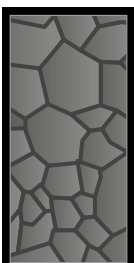
Topcon specular microscope SP-1P offers comfort for patients, ease of use, and increased operation speed. The SP-1P can be placed against the wall, because of the rotatable touchscreen.



## Quick automatic measurement and analysis

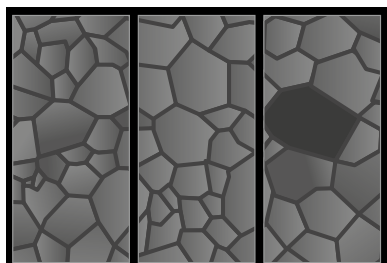
The SP-1P photographs and displays analyzed data by simply tapping the screen. All functions, alignment, photography and analysis are quickly performed automatically.

Conventional analysis area



Eg. N 40

Panorama



Eg. N 100

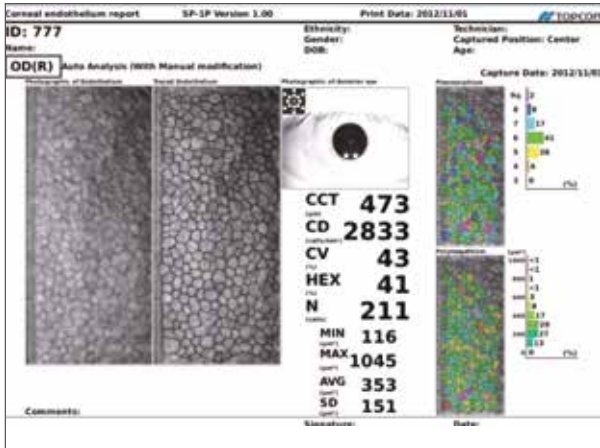
## Panorama photography function

The 'panorama' function takes three images in three different areas: central, nasal and temporal and automatically combines them creating a larger area for the observation and analysis of endothelial cells\*. Compared to conventional analysis, this larger area of cells allows for a faster and more complete evaluation of the patients' endothelium condition. The 'panorama' function is especially useful when the cells of the patient are decreased and the available number of cells is limited. The increased analyzed cells improve on the reliability of the examination result.

\* The analysis of combined images is available after photographing a minimum of 2 areas (center and either adjacent nasal / temporal).

# Features

## Single

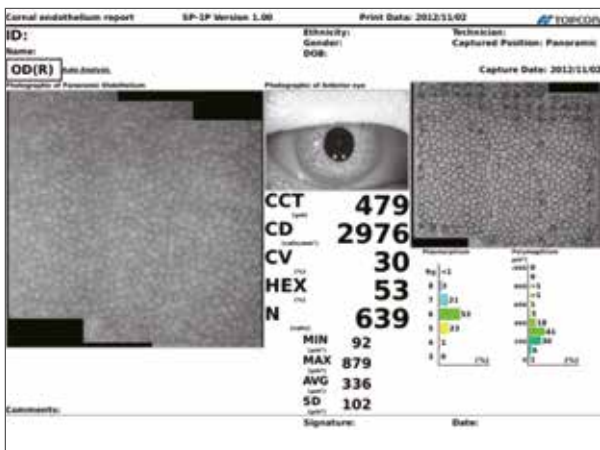


## Easy report

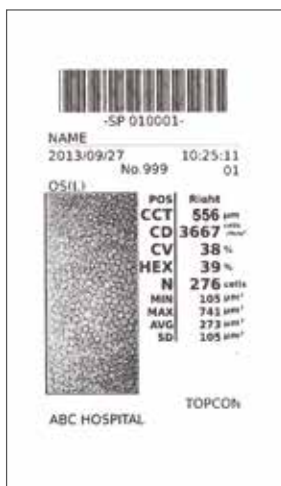
### Sample report

After photography the report will be transferred to the selected storage location.

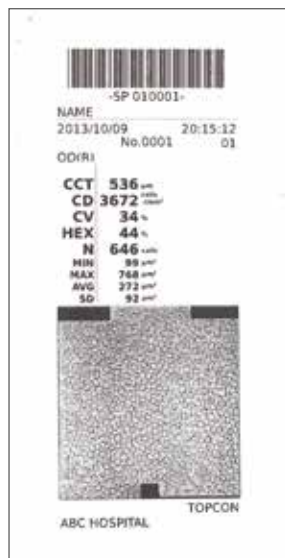
## Panorama



## Single



## Panorama



### Sample printout

Direct printout from the device.

# Features

## Two photography modes

The SP-IP offers two photography modes. The examiner can select between sequence mode and free style mode.

### Sequence mode

The examiner can enter patient information prior to photographing and then perform the photograph

and analysis of the different areas of the cornea. This ensures that all necessary information on the patient is saved.



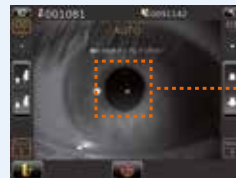
All operation can be done by the touchscreen, simply by following the instructions.



Patient registration

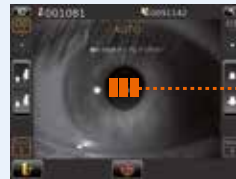


Select the eye and location to examine



### Central Photo

Tap the center of the pupil



### Panorama

Center/Nasal/Temporal positions can be photographed and integrated



### Peripheral Photo

Photograph peripheral area(s)



1  
Power on

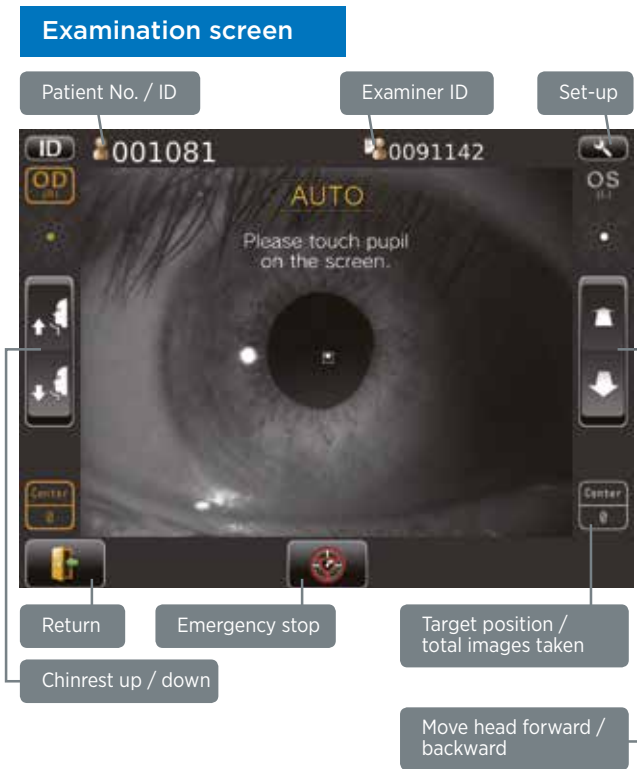


2  
Start examination

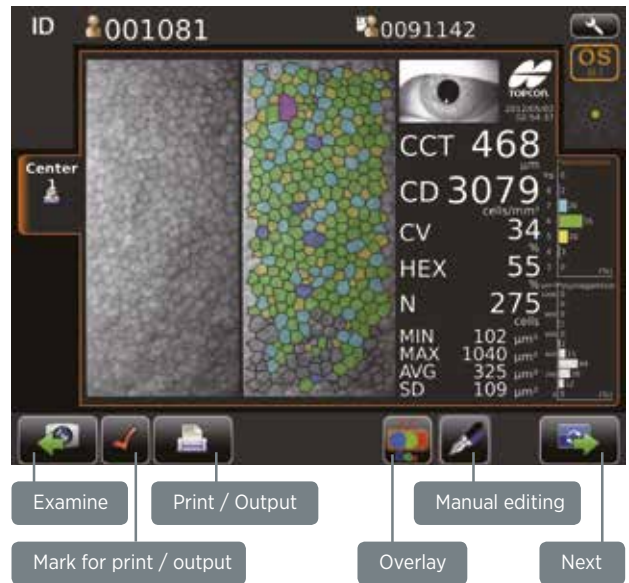
### Free style mode

Immediately after turning on the device, the examiner will be able to take pictures. Even during the examination, the examiner can change or add the area to be photographed which allows a more flexible and quick analysis.

## Easy to read screen



## Display analyzed result

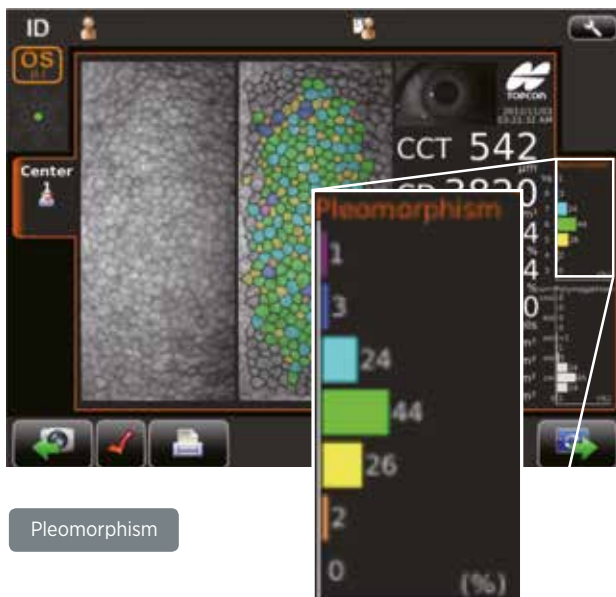


## Comprehensive analysis software

All relevant values such as corneal thickness (CCT), cell density (CD), coefficient of variation (CV) and percentage of cell hexagonality (HEX) are displayed

in large font size on top of the measurement screen. By tapping the overlay button at the bottom, the analysis graph can be changed to a pleomorphic or polymegathic histogram.

### Single



### Panorama

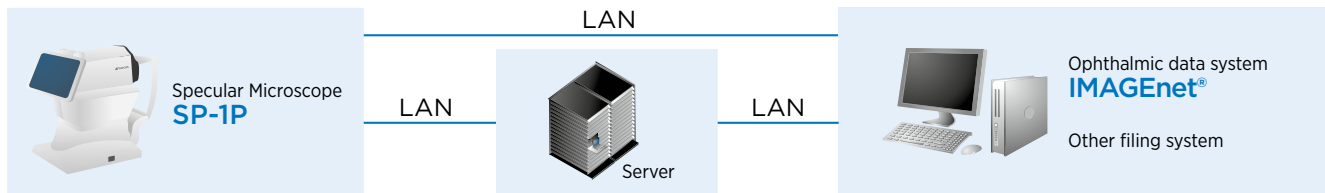


## Specifications

<b>Corneal endothelium photography</b>		
<b>Photography magnification</b>		254x (on the control panel)
<b>Photography range</b>		0.25 mm x 0.55 mm
<b>Revolving power</b>		More than 125 line/mm
<b>Fixation target</b>		Central and (semi) peripheral
<b>Corneal thickness measurement</b>		
<b>Measurement range</b>		0.400 - 0.750 mm Display unit: 0.001 mm step display
<b>Other specifications</b>		
<b>Dimensions</b>		286 - 468 mm (W) x 445 - 592 mm (D) x 486 - 681 mm (H)
<b>Weight</b>		17 kg
<b>Power supply</b>	Source voltage	100-240V AC, 50-60Hz
	Power input	70-120VA

\* Corneal thickness is measured only when taking a photograph using the central fixation target.

## System chart



### IMPORTANT

Subject to change in design and/or specifications without advanced notice.  
In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.  
Medical device Class Im. Manufacturer: Topcon Corporation.



TOPCON CORPORATION

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