

Specifications

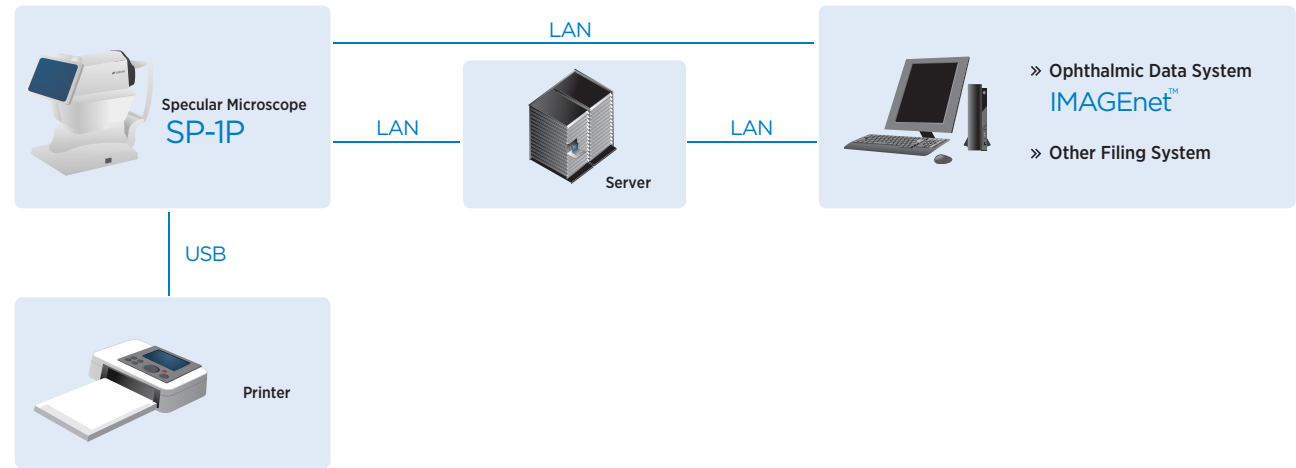
Corneal endothelium photography	
Photography magnification	254x (on the control panel)
Photography range	0.25x0.55mm
Resolving power	More than 125 line/mm
Fixation target	Central and peripheral

Corneal thickness measurement	
Measurement range	0.400-0.750mm
	Display unit: 0.001mm step display

Other Specifications		
Dimensions		286-468mm(W) x 445-592mm(D) x 486-681mm(H)
Weight		17Kg
Power Supply	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



* Not available for sale in the United States.
* A report can be also printed out from the recommended digital video printer as an option.
For detail system composition, please contact your nearest Topcon distributors.
* 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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Specular Microscope
SP-1P

Wide Angle
PANORAMA
Photography



The Next Generation in Specular Microscopy

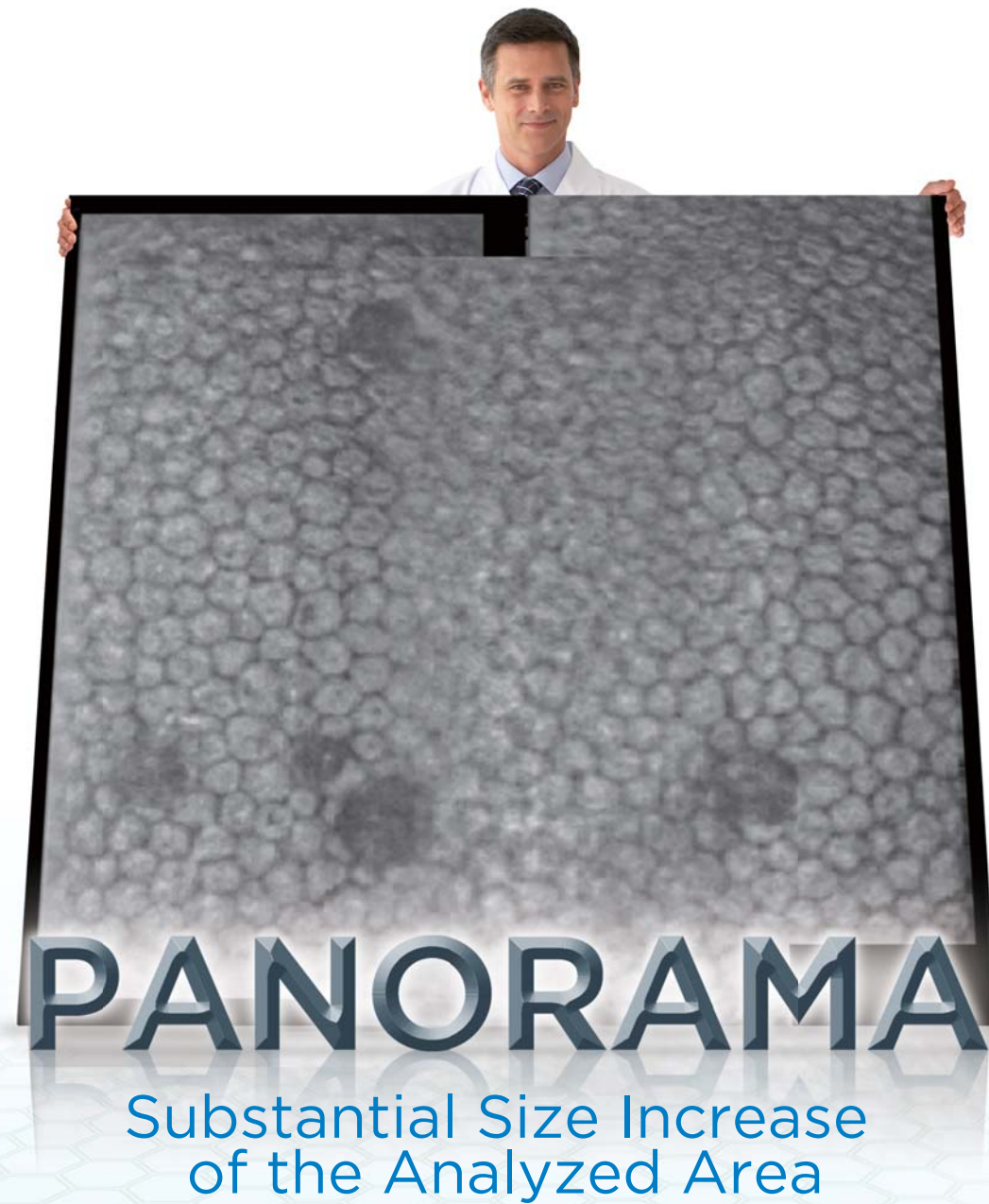
The new Topcon Specular Microscope model SP-1P introduces a modern ergonomic design and innovative features that simplifies its use and increases its efficiency. A large 10.4 inch rotatable touch panel monitor eliminates the need for a control lever, and can be turned to various angles, for better interaction with the patient. By simply tapping on the center of the patient's pupil displayed on the monitor, the SP-1P automatically centers, focuses and acquires the endothelial cell image. The entire operation takes a few seconds and it is fast and smooth, requiring minimum training. The space saving features combined with its ease of use makes the SP-1P the instrument for a new generation in eye care.

Features

- » **Wide Angle "Panorama" Photography Mode**
 - Substantial size increase of the analyzed area
- » **Two Specific Photography Modes**
 - Sequence Course & Free Style Course
- » **Quick Automatic Measurement and Analysis**
 - Instant acquisition of the analysis result
 - Intuitive operation
- » **Easy-to-Read Screen and Comprehensive Analysis Software**
 - Frequently referred values are shown on top
 - A pleomorphic / polymegathic histogram can be shown with color
- » **Compact and Stylish Design**
 - 10.4" rotatable touch panel monitor

Functionality & Aesthetics Combined
in the **NEW SP-1P**

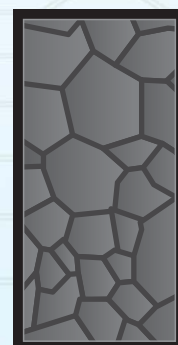




Panorama Photography Function

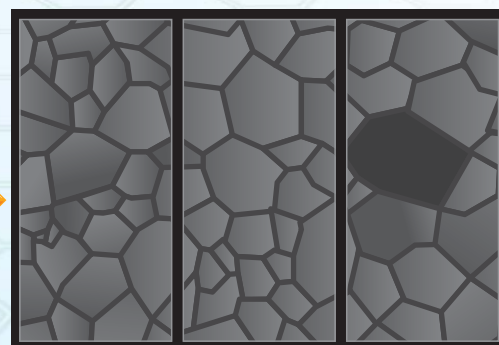
The "Panorama" function takes three images in three different areas: central, nasal and temporal and automatically combines them creating a larger area for the observation and analysis of endothelial cells*. Compared to conventional analysis, this larger area of cells allows for a faster and more complete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

Conventional Analysis Area



Eg.)N40

PANORAMA



Eg.)N100

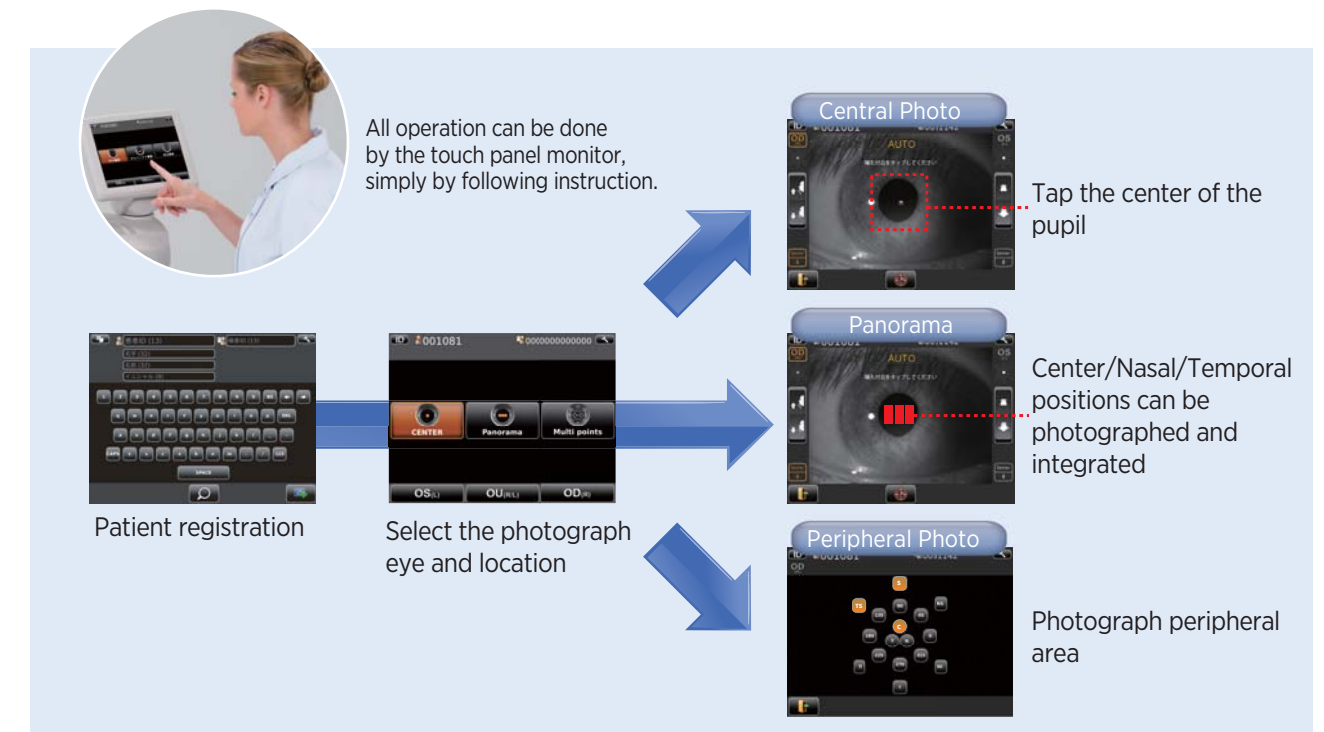
Fast and Easy Operation

The SP-1P offers 2 selectable photography modes.
The examiner can select between Sequence Mode and Free Style Mode.

Two Selectable photography modes

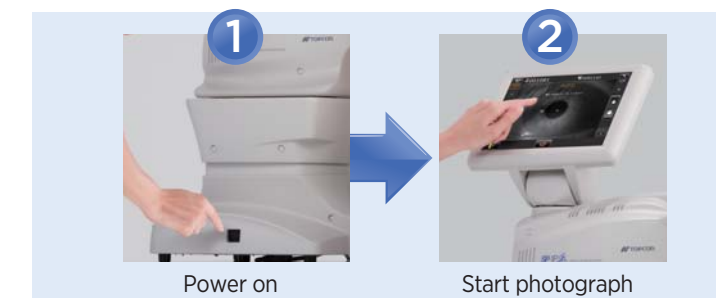
Sequence Course

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.



Free Style Course

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



Quick Automatic Measurement and Analysis

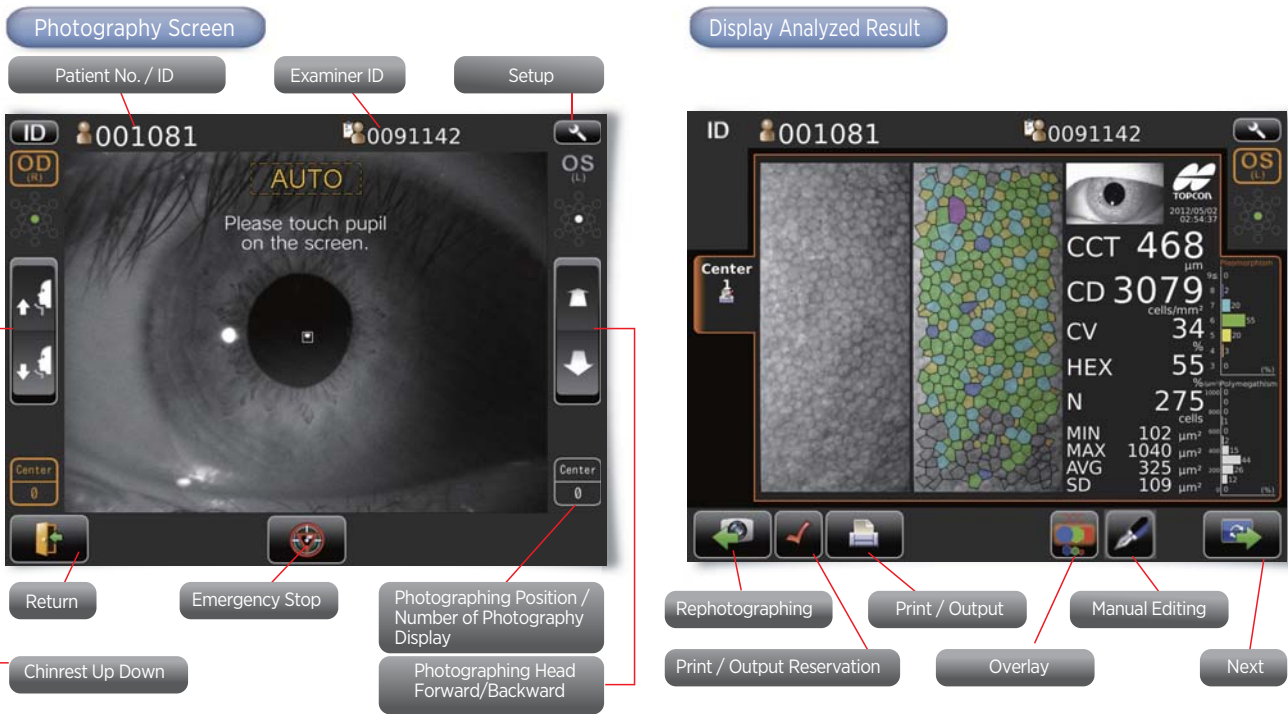
The SP-1P photographs and displays analyzed data by simply tapping the screen. All functions, alignment, photograph and analysis are performed automatically.

Speedy
&
Smooth



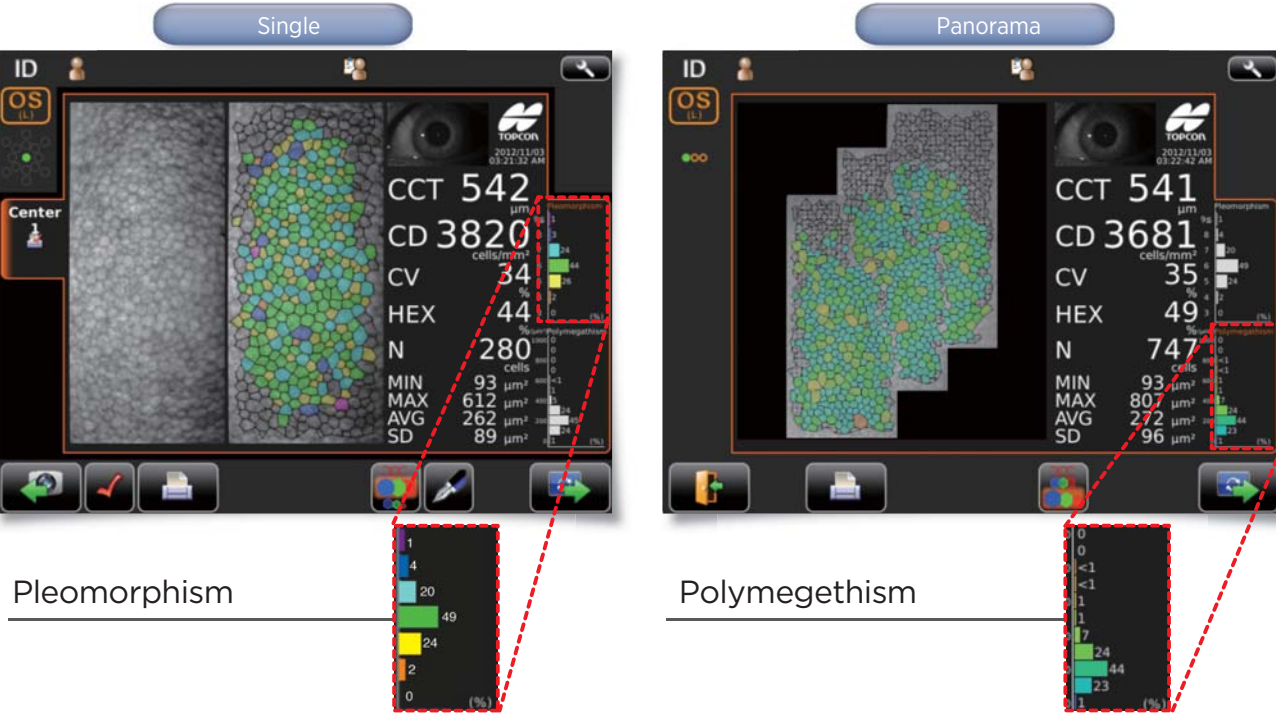
* The analysis of combined images is available after photographing a minimum of 2 areas (center and either adjacent nasal / temporal).

Easy-to-Read Screen Layout



Comprehensive Analysis Software

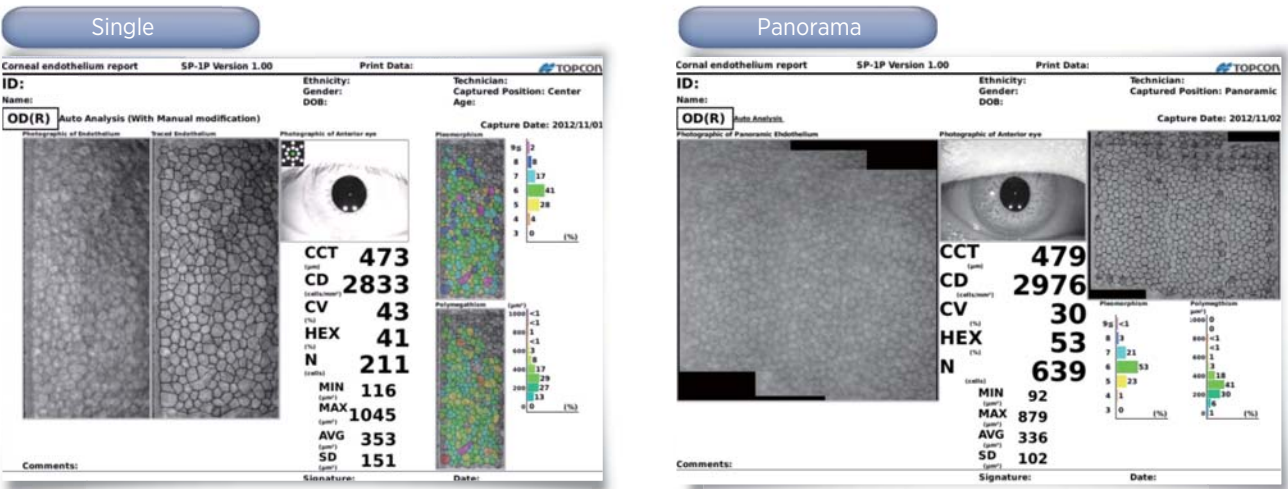
All relevant values such as corneal thickness (CCT), cell density (CD), coefficient of variation (CV) and percentage of cell hexagonality (HEX) are displayed in large font size on the top of the measurement screen. By tapping the overlay button at the bottom, the analysis graph can be changed to pleomorphic or polymegathic histogram.



Easy-to-Understand Report

Sample Report Layout 1

After photography the below report will be transferred to the imaging files or can be printed out from the external printer.



Sample Report Layout 2

Directly printout from the device.



Compact and Stylish Design

Topcon Specular Microscope SP-1P offers patient's comfort, ease of use, and increased operation speed. The SP-1P continues the trend of other Topcon automated instruments such as the KR-1 and CT-1/CT-1P designing user-friendly devices that benefit patient and examiners as well.

