

Specular Microscope

SP-1P



Wide Angle
PANORAMA
Photography

Functionality &
aesthetics combined:
SP-1P



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 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

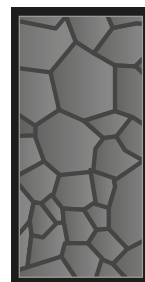


Substantial size increase of the analyzed area

PANORAMA PHOTOGRAPHY FUNCTION

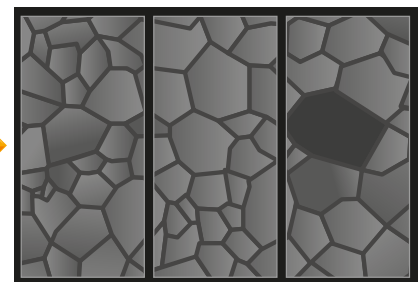
The “Panorama” function takes three images in three different areas: central, nasal and temporal and automatically combines them creating a larger area for the observation and analysis of endothelial cells*. Compared to conventional analysis, this larger area of cells allows for a faster and more complete 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

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

FAST AND EASY OPERATION

The SP-1P offers two 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.



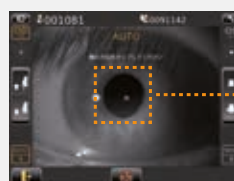
All operation can be done by the touch panel monitor, simply by following the instruction.



Patient registration

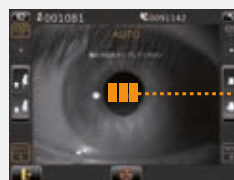


Select the photograph eye and location



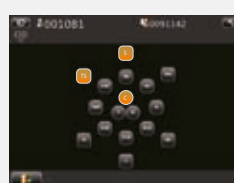
CENTRAL PHOTO

Tap the center of the pupil



PANORAMA

Center/Nasal/Temporal positions can be photographed and integrated



PERIPHERAL PHOTO

Photograph peripheral area

» Free style course

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 for a more flexible and quick analysis.



POWER ON



START PHOTOGRAPH

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 quickly performed automatically.

Speedy & smooth



OTHER FEATURES

EASY SCREEN LAYOUT

Photography screen



Display analyzed result

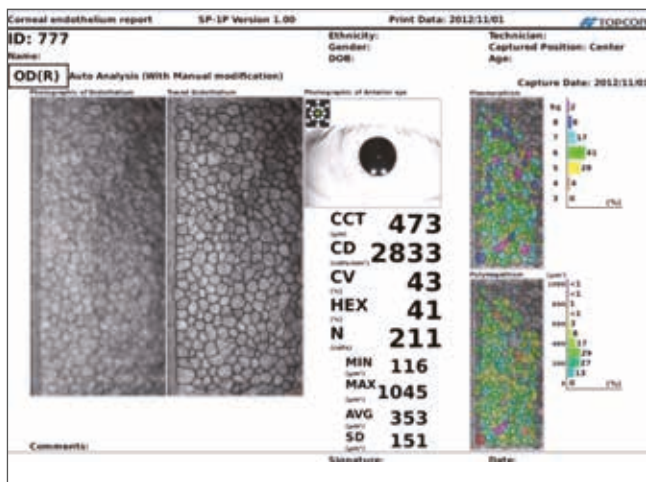


EASY REPORT

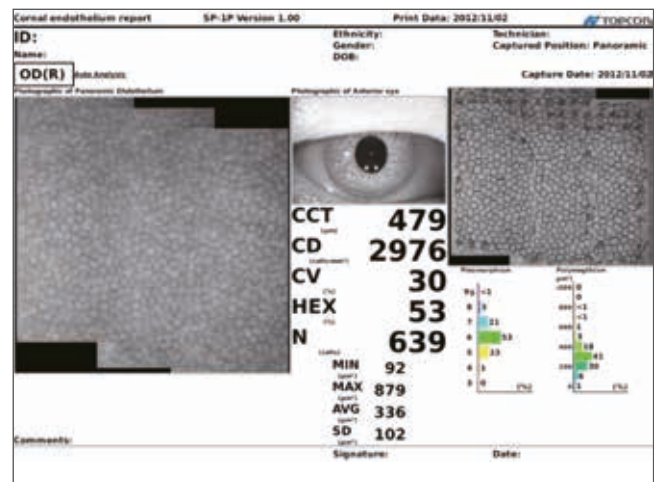
Sample report layout 1

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

Single



Panorama

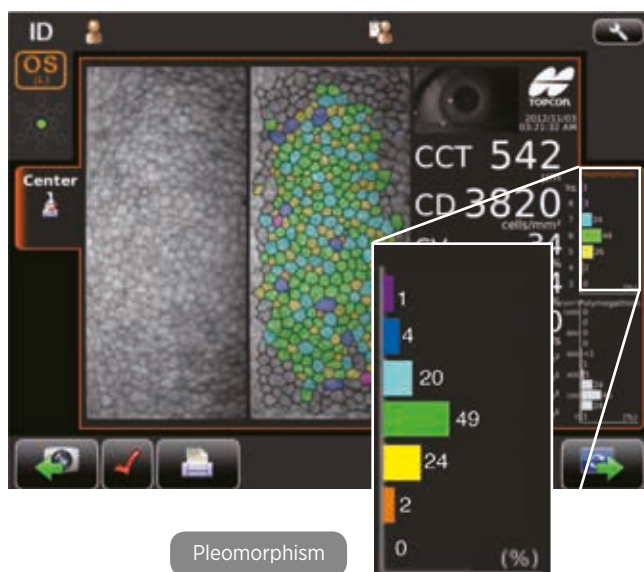


OTHER FEATURES

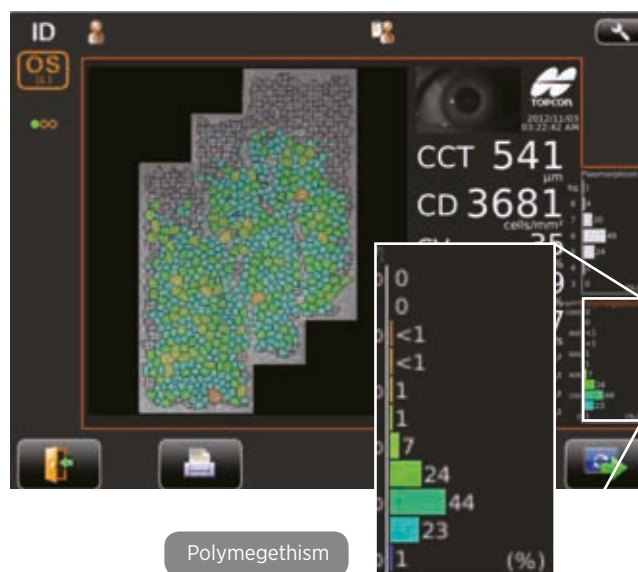
COMPREHENSIVE ANALYSIS SOFTWARE

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



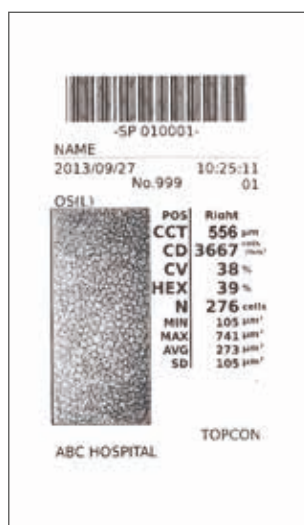
Panorama



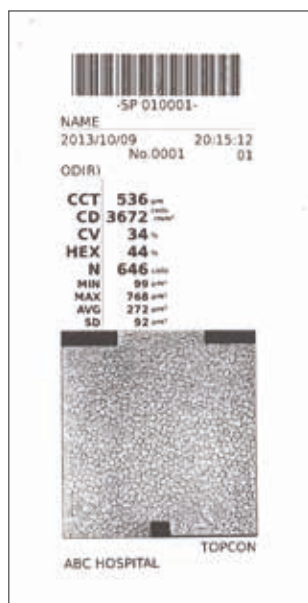
Sample report layout 2

Directly printout from the device.

Single



Panorama



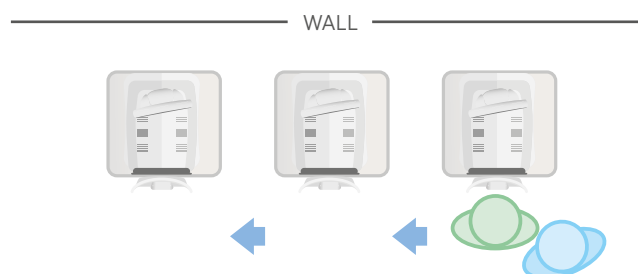
COMPACT AND STYLISH DESIGN

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.



Space saving

* Putting in row behind the wall.

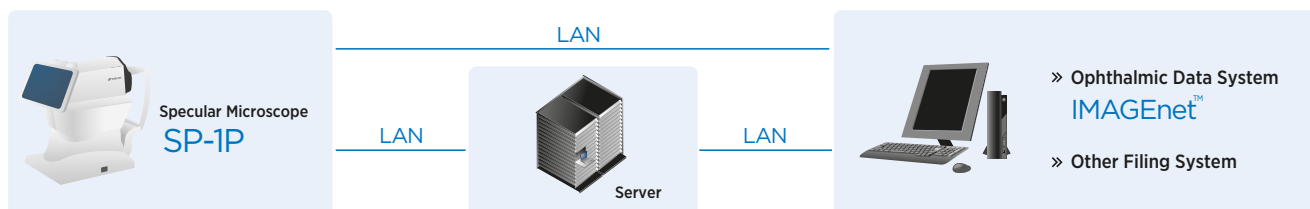


Specifications

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



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.

Topcon Europe Medical B.V.
Essebaan 11; 2908 LJ Capelle a/d IJssel; P.O. Box 145;
2900 AC Capelle a/d IJssel; The Netherlands
Phone: +31-(0)10-4585077; Fax: +31-(0)10-4585045
E-mail: medical@topcon.eu; www.topcon-medical.eu

Topcon Danmark
Praestemarksvej 25; 4000 Roskilde, Denmark
Phone: +45-46-327500; Fax: +45-46-327555
E-mail: info@topcondanmark.dk
www.topcondanmark.dk

Topcon Scandinavia A.B.
Neogatan 2; P.O. Box 25; 43151 Mölndal, Sweden
Phone: +46-(0)31-7109200; Fax: +46-(0)31-7109249
E-mail: medical@topcon.se; www.topcon.se

Topcon España S.A.
HEAD OFFICE; Frederic Mompou, 4;
08960 Sant Just Desvern; Barcelona, Spain
Phone: +34-93-4734057; Fax: +34-93-4733932
E-mail: medica@topcon.es; www.topcon.es

Topcon Italy
Viale dell'Industria 60;
20037 Paderno Dugnano, (MI) Italy
Phone: +39-02-9186671; Fax: +39-02-91081091
E-mail: info@topcon.it; www.topcon.it

Topcon France
BAT A1; 3 route de la révolte, 93206 Saint Denis Cedex
Phone: +33-(0)1-49212323; Fax: +33-(0)1-49212324
E-mail: topcon@topcon.fr; www.topcon.fr

Topcon Deutschland GmbH
Hanns-Martin-Schleyer Strasse 41;
D-47877 Willich, Germany
Phone: (+49) 2154-885-0; Fax: (+49) 2154-885-177
E-mail: med@topcon.de; www.topcon.de

Topcon Polska Sp. z o.o.
ul. Warszawska 23; 42-470 Siewierz; Poland
Phone: +48-(0)32-670-50-45; Fax: +48-(0)32-671-34-05
www.topcon-polska.pl

Topcon (Great Britain) Ltd.
Topcon House; Kennet Side; Bone Lane; Newbury
Berkshire RG14 5PX; United Kingdom
Phone: +44-(0)1635-551120; Fax: +44-(0)1635-551170
E-mail: medical@topcon.co.uk; www.topcon.co.uk

Topcon Ireland
Unit 276, Blanchardstown; Corporate Park 2
Ballycoolin; Dublin 15, Ireland
Phone: +353-18975900; Fax: +353-18293915
E-mail: medical@topcon.ie; www.topcon.ie