

RODENSTOCK Instruments

TopaScope®

NON-CONTACT TONOMETER WITH PACHYMETRY



R RODENSTOCK



Agenda

1. Product features
2. Operation and control
3. 3D auto-tracking and auto-measurement
4. IOP measurement
5. Pachymetry
6. Data handling
7. What are your benefits



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Product features

- Fully automatic
- Non-contact IOP measurement
- Non-contact CCT measurement
- User-friendly 10.1" touch interface
- Database
- Built in printer



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TopaScope

Operation and controls



- All controls are performed through the large 10.1” LCD touch screen
- 3rd party wireless keyboard and mouse may be connected by USB-Port
- Very structured and intuitive user interface
- WIN10 platform

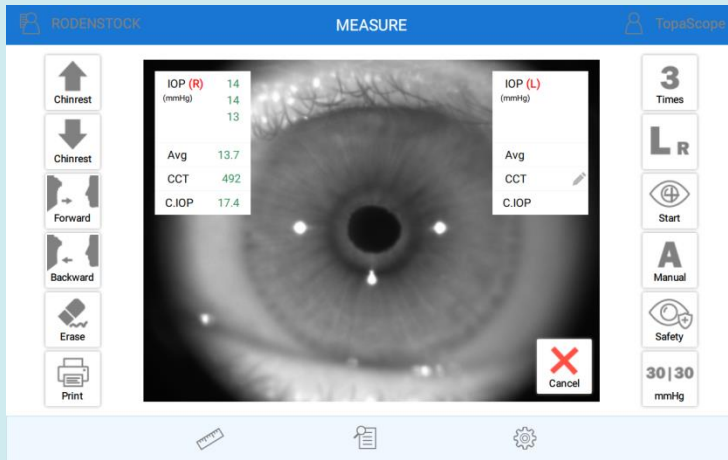


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TopaScope

3D auto-tracking and auto-measurement



Full auto turned on

- Measurement is obtained fully automated for both eyes

Full auto turned off

- Measurement is obtained fully automated for one eye

Manual Mode

- Air puff is triggered by a tap on the center of pupil
- Z-Axis auto alignment only



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IOP measurement

Non-contact measurement with two modes:

Normal mode

Normal air puff intensity

Recommended for

- Every day use
- If only 1x IOP measurement is applied



IOP measurement

Non-contact measurement with two modes:

Soft mode

Air puff with less intensity.

Please note

The measurement for the first shot may be unstable for patients with high IOP.



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Pachymetry

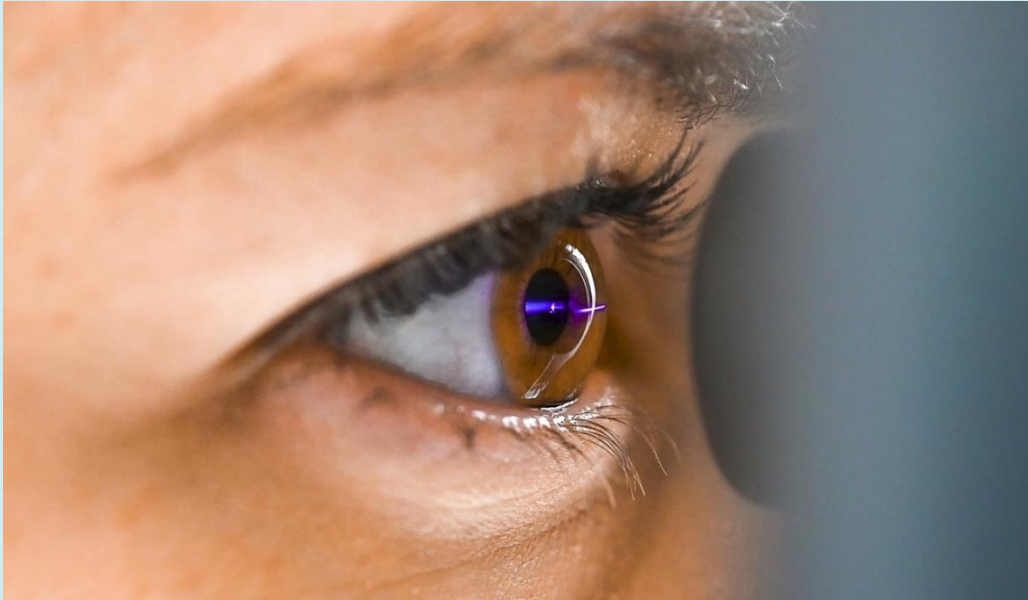
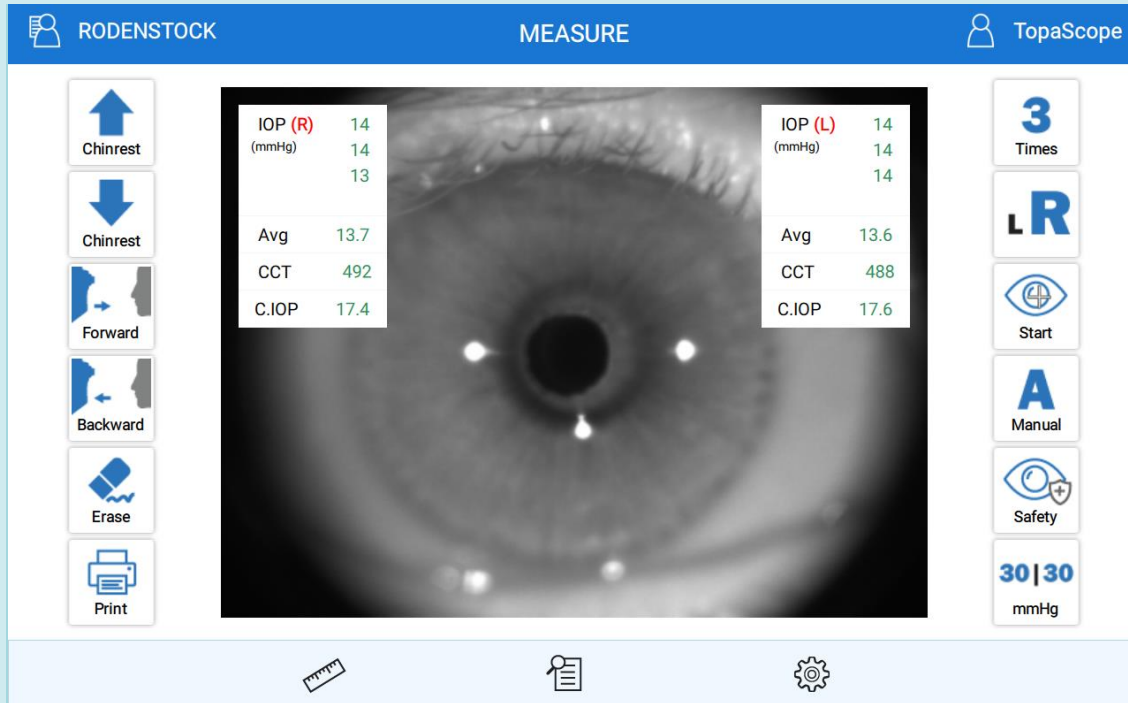


Image of Scheimpflug slit on cornea

AUTO CCT measurement

- Technology of Scheimpflug camera
- Automatic measurement of central corneal thickness
- Intended to compensate the IOP
- Range of 400 μ m to 800 μ m

Pachymetry



Why taking the CCT?

- Thinner corneas will result in lower readings – under-estimation of IOP
- Thicker corneas will result in higher readings – over-estimation of IOP

Pachymetry

Compensated IOP

RODENSTOCK CALIBRATION 0000021

$$C.IOP = IOP - (CCT - \underline{545}) \times \underline{0.07}$$

A formula is already inserted from factory

It's possible if not even recommended to put in an individual choice of formula

Ehlers, et al

Study	Mean CCT	Correction value per 10µm difference to mean CCT	
			Data entry
Stodtmeister	575 µm	0.725 mmHg	0.0725 µmHg
Shah	550 µm	0.5 mmHg	0.05 µmHg
Kohlhaas	550 µm	0.4 mmHg	0.04 µmHG



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Data handling



Database

- Operator list
- Patient list
- History graph

Data handling

The screenshot shows a web application interface for 'RODENSTOCK OPERATOR'. The top navigation bar is blue and contains the text 'RODENSTOCK OPERATOR' and a user profile icon labeled 'TopaScope'. Below the navigation bar, the main content area is titled 'Operator List' and features a search icon. A table with two columns, 'Unknown' and 'Operator1', is displayed. The 'Unknown' column contains the text 'RODENSTOCK' with a blue edit bar containing a pencil icon and a close 'X' icon. The 'Operator1' column contains the text 'Operator2'. A green circular button with a white plus sign is located in the bottom right corner of the table area. At the bottom of the interface, there is a light blue footer bar with three icons: a ruler, a document, and a gear.

Individual operators may be assigned

Database

- Operator list
- Patient list
- History graph

Data handling

RODENSTOCK PATIENT 0000021

Patient List

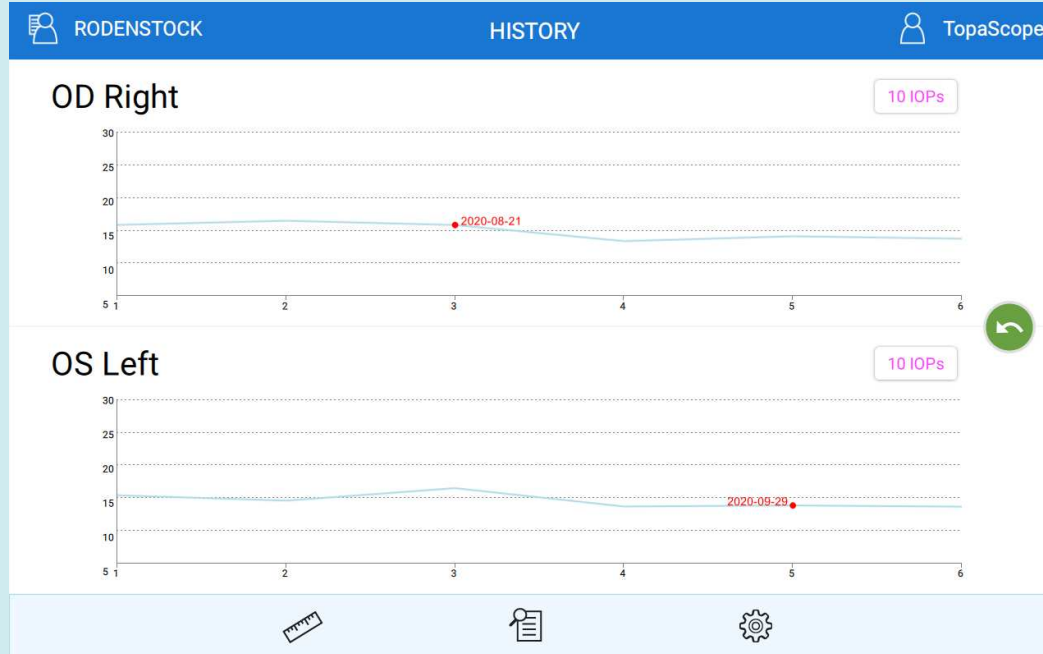
Unknown	tony
peter	brian
ted	moon
river	Daniel
Amy	Rita
Hailey	Evan
Joe	Alex
Lifen	Wensheng

Unlimited patients may be assigned with ID

Database

- Operator list
- Patient list
- History graph

Data handling



Graph shows the progression of IOP

Database

- Operator list
- Patient list
- History graph

Data handling



Data print / export

- Inbuilt thermal printer with auto cut
- Data export by RS-232C

```
RODENSTOCK
                        Rodenstock
C.IOP  16.0           14.0
CCT     548           556
Avg.    16.0           15.0
-----
                18           16
                17           15
                17           16
                16           15
                16           14
                16           14
                Right       Left
-----
                mmHg       mmHg
-----
                2020-08-21 05:03:35
Patient ID: 1234
TopaScope|
```



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What are your benefits



2 in 1 combination

Compensated IOP by CCT
Measurement



Added value

Offer new services and increase
customer frequency



Competency

Acquire more expertise in the
field of vision screening



Consistent quality

Measurements you
can rely on



Saves time

Get the measurements
done quickly



Intuitive operation

User-friendly application



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