RODENSTOCK

DNEye® Scanner 2.

The most innovative eyesight test of all time for
the sharpest Rodenstock lenses.

BECOME PART OF THE SUCCESS STORY.

DNEye® Scanner 2.

Similar to the successful predecessor model, the DNEye® Scanner 2 calculates both the low and high order aberrations for distance and near vision, as well as the individual pupil reaction to brightness and distance.

THE DEVICE IMPRESSES WITH:

- High-resolution wavefront analysis with brightness-dependent pupillometry
- Integrated corneal topography as well as tonometry and pachymetry unit
- Consideration of distance and near vision measurement
- Fully automatic, operator-independent measurement in real time using intelligent eye tracking
- Detailed visualisation of the wavefronts and simulation of ametropia
- Accurate transmission to 1/100 diopters thanks to WinFit® Reference connection

Aberrometry for near vision

Topography

Aberrometry for far vision

Pupillometry

Opacity

Pachymetry

Tonometry
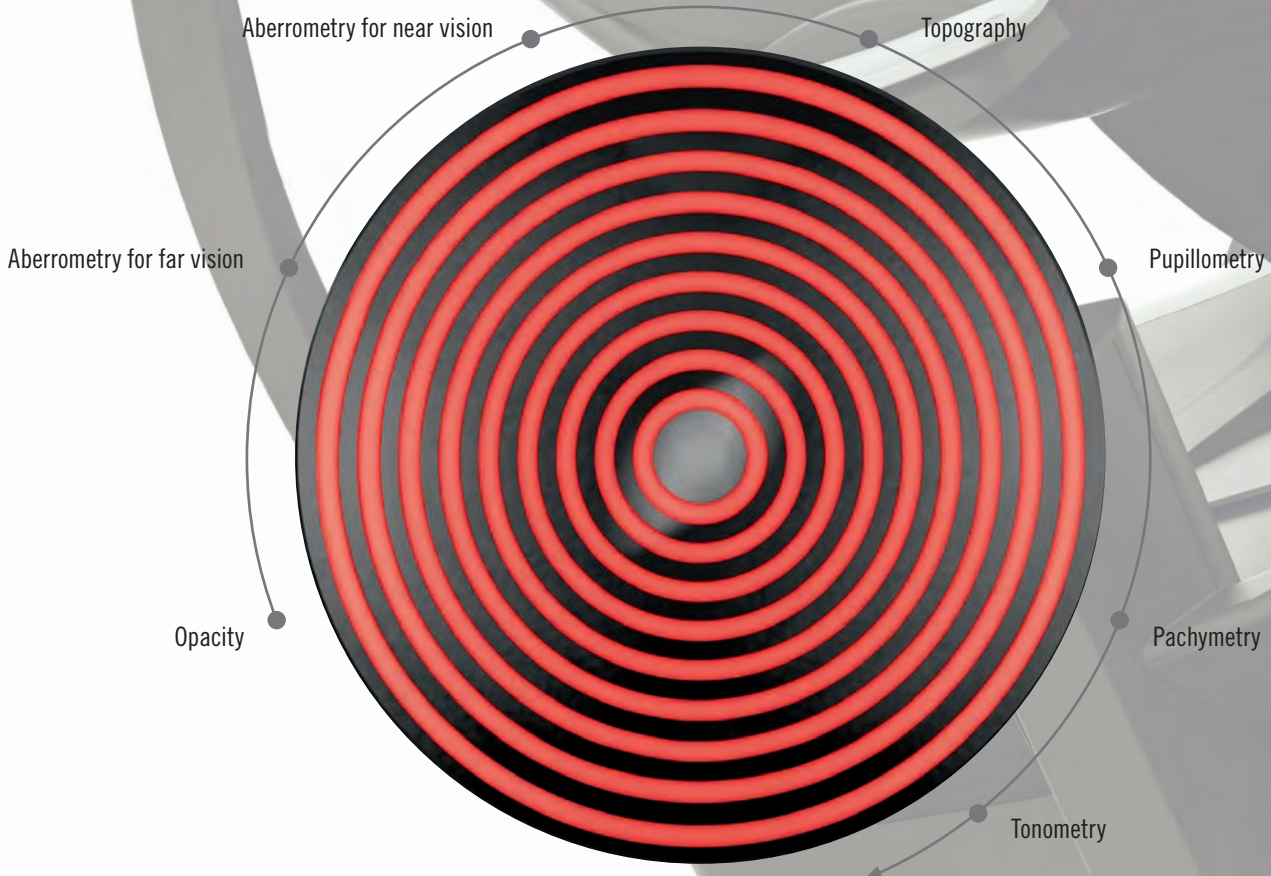
SEE BENEFITS AND TAKE OPPORTUNITIES.

- Strengthen your competence in consulting by positioning yourself as an expert for the sharpest vision
- Save time based on valid aberrometric measurement values
- Increase your added value with DNEye® PRO technology
- Save space with the DNEye® Scanner as a multi-device, which replaces several devices
- Stand out from your competitors and impress your customers with the most innovative eyesight test of all time

PREMIUM BENEFITS FOR YOUR CUSTOMERS.

- Highest degree of individualisation due to innovative 3D eye measurement
- Determination of ideal fields of vision for every customer
- Enhanced service with additional measurements
- DNEye® optimised lenses guarantee the best compatibility and the sharpest, high-contrast vision

CONSULTING MADE EASY:

Explain in detail the benefits of DNEye® PRO lenses to your customers using the Rodenstock consulting software and the apps for the iPad:

- DNEye® PRO consulting module in Rodenstock Consulting
- Rodenstock Virtual Consulting app
- EyeConsulting+ 2.0 app

All Rodenstock apps can be downloaded in the iTunes app store.

RODENSTOCK

EVEN MORE PRECISE.
EVEN MORE EFFECTIVE.
EVEN MORE HOLISTIC.

patented

Eye Lens Technology
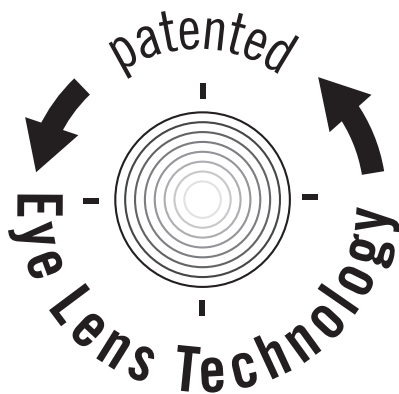
Eye Lens Technology (EyeLT®)
It is possible with the patented technology to implement near refraction in a lens irrespective of the distance refraction. This globally unique technology guarantees largest fields of vision at near and in the intermediate zone.

DNEye® Scanner 2 and DNEye® PRO Technology
The DNEye® Scanner 2 delivers quickly and comfortably extremely accurate aberrometric measurement data of the eye for near and far. Thanks to the new DNEye® PRO technology, Rodenstock is able to measure the individual anatomy of the eye and is the only manufacturer in the world who transfers the acquired biometric values to the lens.

The perfect customer promise:

"YOU RECEIVE THE MOST INDIVIDUAL RODENSTOCK LENSES AND THUS THE SHARPEST VISION OF ALL TIME."

ENTHUSIASTIC CUSTOMERS.[1]

High customer satisfaction.
96%
feel very comfortable with their new DNEye® lenses.

More visual comfort.
88%
experience greater visual comfort with their DNEye® spectacles compared to their old spectacles.

New visual experiences.
92%
see with their new lenses sharper than before.

Enthusiastic customers.
98%
would recommend Rodenstock lenses with DNEye® to others.

Better vision at dusk
among **80%**.

Enhanced contrast vision
among **84%**.

[1] Study with independent opticians in cooperation with Rodenstock (Switzerland) AG (283 end consumers), May 2017 to January 2018. Corresponds to selection 1 + 2 on rating scale between 1–4 (1 = fully agree, 4 = not at all)

FOUR FACTORS OF SUCCESS.

1. UNIQUE ADDITIONAL COMPONENTS.

With the DNEye® Scanner 2 and the opacity, pachymetry and tonometry functions, your customers benefit from additional service:

DNEye® Scanner 2/2+

Opacity:
The opacity of the refractive media is shown using retro illumination.

Pachymetry:
The integrated Scheimpflug pachymeter measures the corneal thickness and provides a detailed analysis of the anterior eye chamber incl. the determination of the iridocorneal angle and the anterior chamber depth.

DNEye® Scanner 2+

Tonometry:
The DNEye® Scanner 2+ also offers an air blast applanation tonometer for contactless measurement of intraocular pressure. The combination of the pachymetry (corneal thickness) and tonometry offers a more precise and meaningful result for the calculation of the intraocular pressure.
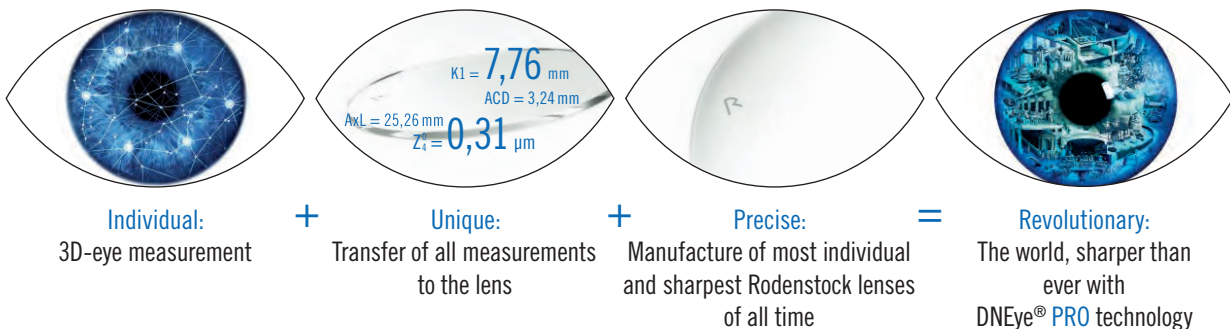
2. THE NEW STANDARD FOR THE SHARPEST VISION.

Already in 2012, Rodenstock successfully launched the DNEye® to help you optimally utilise the vision potential of your customers. But we wouldn't be Rodenstock if we were content with the status quo. We have developed the unique and innovative DNEye® technology constantly further.

The breakthrough in ophthalmic optics.
In 2018 Rodenstock is able to measure the individual anatomy of the eye thanks to the new DNEye® PRO technology and is the only manufacturer in the world who transfers the acquired biometric measurements to the lens. Standard values like the "reduced eye" according to Gullstrand are now a thing of the past after 118 years. The result is the most individual and sharpest Rodenstock lenses and thus the sharpest vision of all time.

DNEye® PRO TECHNOLOGY.

$K1 = 7{,}76 \, mm$
$ACD = 3{,}24 \, mm$
$AxL = 25{,}26 \, mm$
$Z_4 = 0{,}31 \, \mu m$

Individual:
3D-eye measurement

+

Unique:
Transfer of all measurements to the lens

+

Precise:
Manufacture of most individual and sharpest Rodenstock lenses of all time

=

Revolutionary:
The world, sharper than ever with DNEye® PRO technology

3. SIMPLY SMART THANKS TO INTUITIVE OPERATION.

The intuitive user interface of the DNEye® Scanner 2 enables you and your employees to conveniently make the targeted measurements. Thanks to the comfortable and intuitive application, the familiarisation period is shortened to a minimum. Moreover, you can call up all essential customer data at any time without a problem.

4. TOP-SOFTWARE FOR EFFICIENT WORK.

The numerous software features of the DNEye® Scanner 2 simplify the consulting process, thus allowing more efficient work.

Import interface
The DNEye® Scanner 2 can import customer data from external customer management systems with a corresponding interface.

Compile reports
Reports can be generated directly from the DNEye® Scanner 2, exported, sent by e-mail and printed. You define the desired content for your documentation.

Faster backup
Data backup can be effected in stages, i.e. only the last changes and updates are transferred to the backup. The backup process is thus considerably faster.

Online update
Updates can be downloaded directly online. This way you can easily update your software as needed.

Comparison of measurement results
Compare different customer measurements directly at a glance.

Remote view
You can have the measurement results displayed on an iPad or other external devices. While you discuss the measurement results with one customer, a new customer can already be measured.

TECHNICAL DATA.

DNEye® Scanner and DNEye® Scanner 2+

DEVICE SPECIFICATION	
Height	570 mm
Length	530 mm
Width	312 mm
Weight	25 kg
GENERAL SPECIFICATIONS	
Printer	Black and white printer
Screen type	TFT LCD touch screen
Screen size	10" WSVGA resolution (1,024 x 600 pixels)
SPECIFICATION FOR THE ABERROMETRY AND RANGE (WAVEFRONT)	
Spherical range	−20 dpt to +20 dpt for HSA 12 mm
Cylinder range	0 dpt to +8 dpt
Axis	0 to 180°
Measuring area	2.0 mm to 7.0 mm pupil (3 zones)
Number of measuring points	1,400 points for 7.0 mm pupil
Method	Shack-Hartmann
SPECIFICATION FOR CORNEAL TOPOGRAPHY	
Number of rings	24
Number of measuring points	6,144
Number of analysed points	100,000
Diopters	37.5 dpt to 56.0 dpt
Reproductibility	0.03 mm
Method	Placido disc (keratoscope)
Diameter of covered corneal area at 43 dpt	0.75 mm to > 10 mm
SPECIFICATION FOR PACHYMETRY	
Measuring wavelength	455 nm, no UV light
Measurement range	150 µm to 1,300 µm
Precision	< 5 µm
Method	Scheimpflug camera, static
SPECIFICATION FOR OPACITY	
Measuring wavelength	850 nm
Method	Retro illumination
SPECIFICATION FOR TONOMETRY (ONLY DNEYE® SCANNER 2+)	
Calibrated range	7 mm/Hg to 50 mm/Hg
Precision	+/− 2 mm/Hg
Method	Air blast applanation tonometer for contactless measurement