

KR-800S

Auto Kerato-Refractometer



Introducing the next-level auto kerato-refractometer

The KR-800S is unique. Besides objective auto-refraction and keratometry, it also performs subjective near and far checks and glare, macular grid and contrast tests. This 6 in 1 functionality ensures the quick capture of comprehensive results that will enhance your test workflow.

With the KR-800S, the VA can be checked and the spherical component subjectively refined before and after cataract surgery. Unique KR-800S features like the glare and contrast tests provide understanding of functional vision at each stage.

The KR-800S allows the patient to visualise the potential post-surgical difference between the correction of sphere and cylinder versus the spherical equivalent. Simply push a button to switch from one to the other and back. The patient can then appreciate the difference in vision with and without cylinder correction. This feature may also be useful for contact lens patients considering a lens to correct astigmatism.



6-in-1 Auto Kerato-Refractometer

Overview



Easy to use



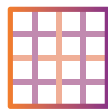
**Objective Testing
with keratometry**



Subjective VA check



Glare test



Macular grid test



Contrast test

Enhanced efficiency and easier operation

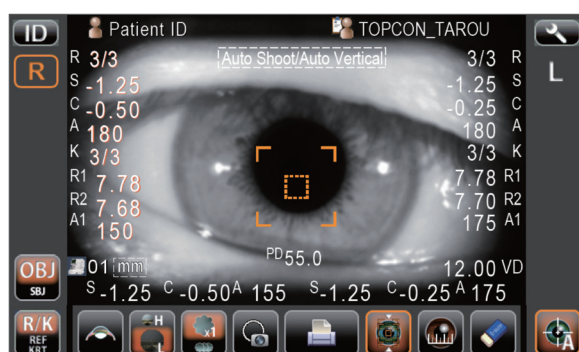
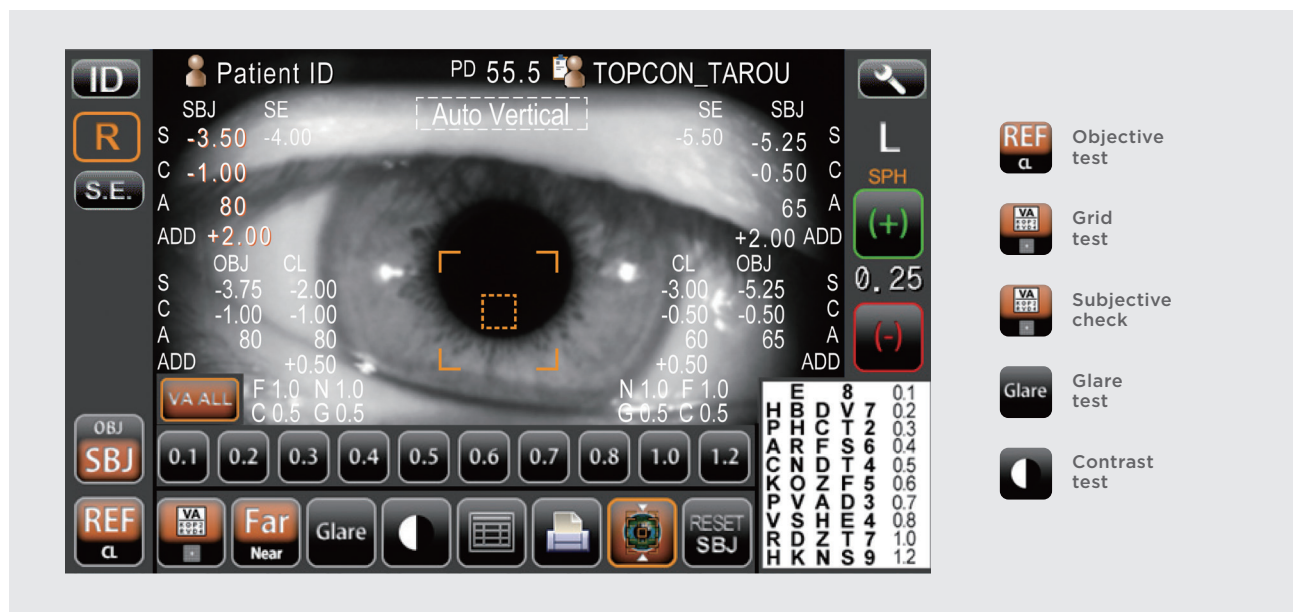
All measured data can be observed from the 8.5 inch colour touchscreen panel, allowing the user to quickly see each data point and explain the results to the patient. The streamlined design is approximately 23% lighter than older Topcon autorefractors, while the Auto Vertical mode assists smooth control of the unit during the measuring process. The KR-800S surpasses standard auto kerato-refractometers in terms of functionality and is perfectly tailored to your needs.



6-in-1 Auto Kerato-Refractometer

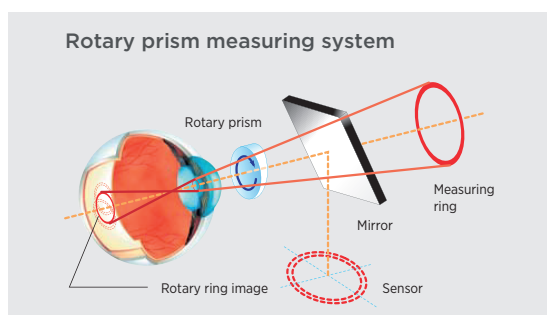
Objective and subjective data

Information for both the right and left eyes are displayed on a single 8.5 inch wide colour touchscreen that shows all measured data together, which makes it extremely easy to compare objective and subjective with imported data, if a computerised lensmeter is connected. In addition, any visual acuity data measured at far, near, or under contrast or glare conditions are displayed. Utilising this single overview of the data, the operator can easily understand the current refractive status of each eye, the visual function and whether or not the patient has presbyopia in addition to the current prescription.



Objective test

With Topcon's Rotary Prism Technology, the KR-800S provides stable measurement, even for patients with media opacities.

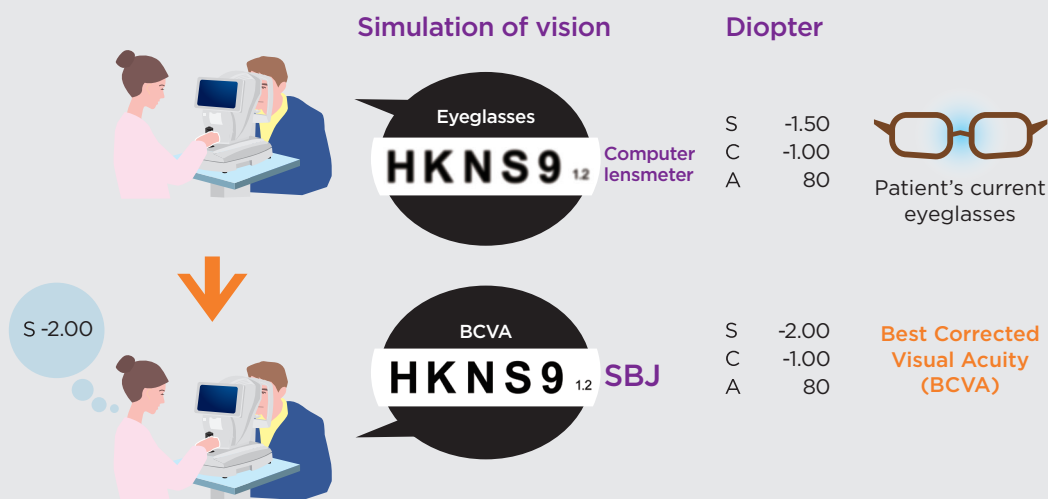


6-in-1 Auto Kerato-Refractometer

Subjective Check*

The KR-800S allows refinement of the spherical component subjectively. The near addition can also be refined for presbyopic patients, and the visual acuity measured at both far and near. If a computerised lensmeter is connected, visual acuity can also be measured with the patient's current spectacles, and then compared with the new subjective refraction.

Process example



*Cylinder power and axis cannot be changed for the subjective check. Instead, the cylinder from the refractometry measurement will be used.



Vision with glare



Normal vision

Glare test*

The test provides a consistent way of evaluating vision changes in the presence of bright lights.

*The glare test can only be performed with the subjective refraction result for far distance.



6-in-1 Auto Kerato-Refractometer

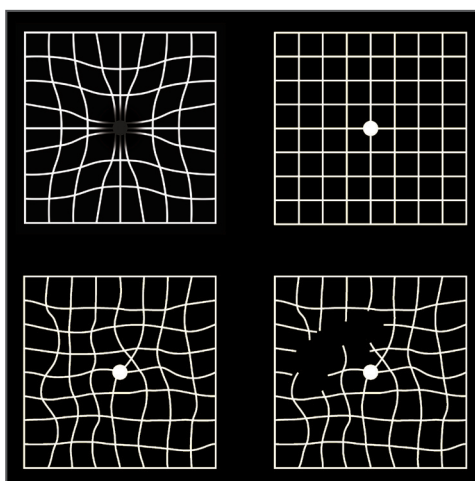


Contrast test*

The contrast test is ideal for checking the patient's quality of vision. The contrast of the chart can be changed across a range of percentages.

* The contrast test can only be performed for distance vision with the subjective distance refraction result.

* Contrast is created by changing the background with respect to the optotype.

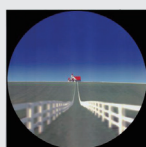


Macular grid test*

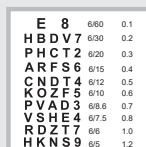
The grid test can be performed for conditions affecting the macula. Patients with macular disease may see wavy or missing lines. The test can be helpful in detecting early signs of an abnormality of central vision.

*The grid test can only be performed with the subjective far distance refraction result.

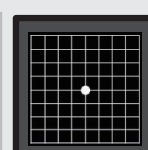
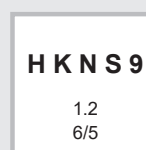
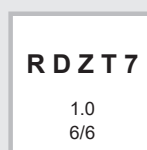
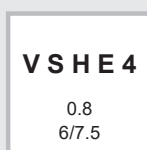
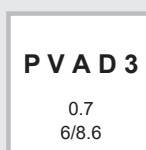
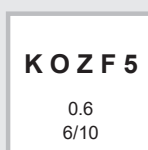
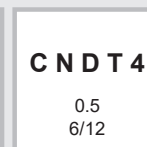
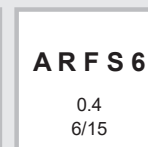
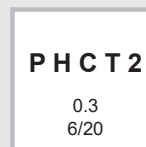
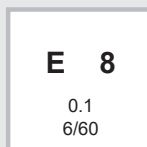
KR-800S chart options



Objective chart




Subjective chart



Grid chart

6-in-1 Auto Kerato-Refractometer

Printout example

| | | |
|---|--|---|
| | |  |
| | | OID : -KR 010001- |
| | | NAME |
| | | 2023_12_24 AM 10:00 |
| | | No. 0001 01 |
| | | SN: |
| 1 | | SBJ. DATA(REF) |
| | | <R> S C A VA |
| | | -5.00 -2.00 75 0.9 |
| | | <L> S C A VA |
| | | -0.25 -1.00 90 1.2 |
| 2 | | NEAR TEST(REF) |
| | | <R> DIST. ADD VA |
| | | 40 cm +2.50 0.7 |
| | | <L> DIST. ADD VA |
| | | 33 cm +2.25 1.2 |
| 3 | | GRID CHART(REF) |
| | | <R> <L> |
| | | TS: NG NS: NG NS: OK TS: OK |
| | | C: NG C: OK |
| | | TI: OK NI: OK NI: OK TI: NG |
| 4 | | GLARE TEST(REF) |
| | | <R> <L> |
| | | VA 0.6 VA 0.6 |
| 5 | | CONTRAST TEST(REF) |
| | | <R> VA LVL. <L> VA LVL. |
| | | 0.8 50% 1.0 50% |
| 6 | | SBJ. DATA(CL) |
| | | <R> S C A VA |
| | | -2.00 -1.00 95 0.6 |
| | | <L> S C A VA |
| | | -0.25 -1.00 100 1.2 |
| 7 | | NEAR TEST(CL) |
| | | <R> DIST. ADD VA |
| | | 40 cm +1.00 0.5 |
| | | <L> DIST. ADD VA |
| | | 33 cm +1.00 0.7 |
| | | TOPCON |

Sample



System Chart



*CL-300PDL only

Specifications of KR-800S

| | |
|--|---|
| Range of Refractometry Measurement | |
| Spherical refractive power | -25D to +22D (0.12D/0.25D steps)* |
| Cylindrical refractive power | 0D to ±10D (0.12D/0.25D steps)* |
| Astigmatic axial angle | 0° to 180° (1°/ 5°steps) |
| Minimal measurable pupil diameter | φ2 mm |
| Range of Cornea Curvature Measurement | |
| Corneal curvature radius | 5.00mm to 10.00 mm (0.01mm step) |
| Corneal refractive power | 67.50D to 33.75D (0.12D/0.25D steps) (where, corneal refractive power = 1.3375) |
| Corneal astigmatic refractive power | 0D to ±10D (0.12D/0.25D steps) |
| Corneal astigmatic axial angle | 0° to 180° (1°/ 5°steps) |
| Range of subjective check | |
| Spherical refractive power | -18D to +18D (0.25D steps) |
| Test chart | Eyesight test chart of 0.1 to 1.2 or 20/200 to 20/15, Grid display |
| Chart display | Overall, Horizontal series, Contrast change |
| Test items | Far-sightedness, Near-sightedness, Glare test |
| PD measurement range | 20mm to 85mm (0.5mm step) |
| External I/O terminal | USB (Import), RS-232C (Import/Export), LAN (Export) |
| Dimensions | 317-341mm (W) × 521-538mm (D) × 447-477 mm (H) |
| Weight | 15kg |
| Power supply | 100-240V AC, 50-60Hz, 70VA |

* -25D ≤ spherical refractive power + cylindrical refractive power or spherical refractive power + cylindrical refractive power ≤ +22D



Understand KR-800S
on YouTube



Register Now
Topcon Healthcare University



IMPORTANT In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation.
Not all products, services, or offers are available in all markets. Contact your local distributor for country-specific information and availability.

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