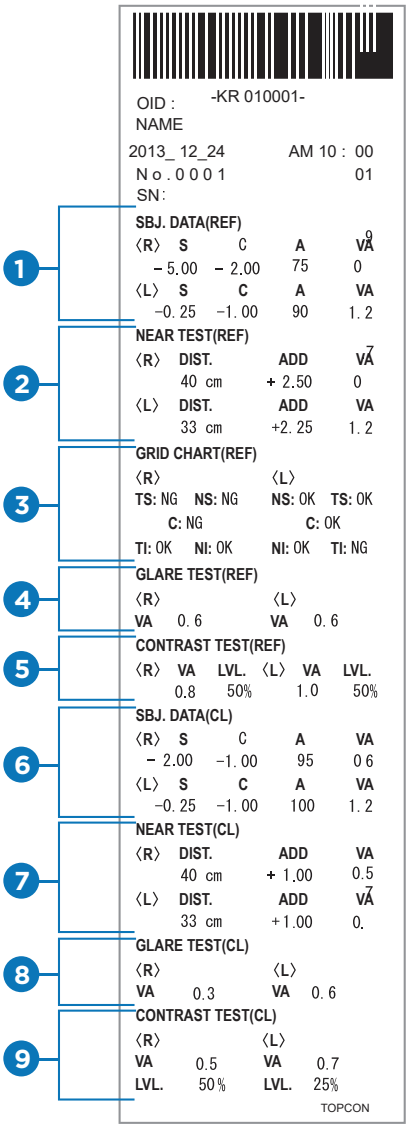
KR-800S

Auto Kerato-Refractometer

TOPCON Healthcare

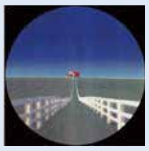
Printout Sample

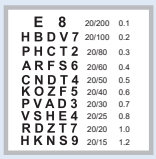
1. Subjective refraction Far VA value
2. Subjective refraction Near VA value
3. Grid test result
4. Glare test result
5. Contrast test result
6. Far VA for lensmeter
7. Near VA for lensmeter
8. Glare test VA for lensmeter
9. Contrast test VA for lensmeter



Sample

Chart thumbnail

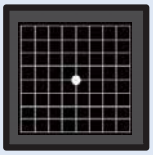




E 8	HBDV7	PHCT2	PVAD3	VSHE4
0.1 20/200	0.2 20/100	0.3 20/80	0.4 20/30	0.5 20/25

Objective chart Subjective chart

RDZT7	ARFS6	CNDT4	KOZF5	HKNS9
0.6 20/20	0.7 20/60	0.8 20/50	1.0 20/40	1.2 20/15



Grid chart

More Than Just an Auto Kerato Refractometer

The sleek and modern design of the KR-800S incorporates the latest technology designed to increase practice efficiency and enhance the patient experience. The KR-800S provides auto refraction, keratometry, contrast screening, visual acuity, and glare testing all in one easy to use instrument.

This multi-functionality supports enhanced work flow, and enables the KR-800S to be used in any variety of settings from hospitals, multi-specialty ophthalmic and optometric clinics and even vision screening centers.

- Enhances workflow efficiency and improves utilization.
- Comfortable and smooth examination provides superior patient experience
- Assessment of visual acuity under glare conditions
- Multi-functional instrument helps you quickly document the patient's vision during treatment and follow up of a range of ocular diseases
- Small footprint and LAN connection supports flexible installation.

6in1

KR-800S

Auto Kerato-Refractometer

KR-800S will dramatically change the clinical workflow

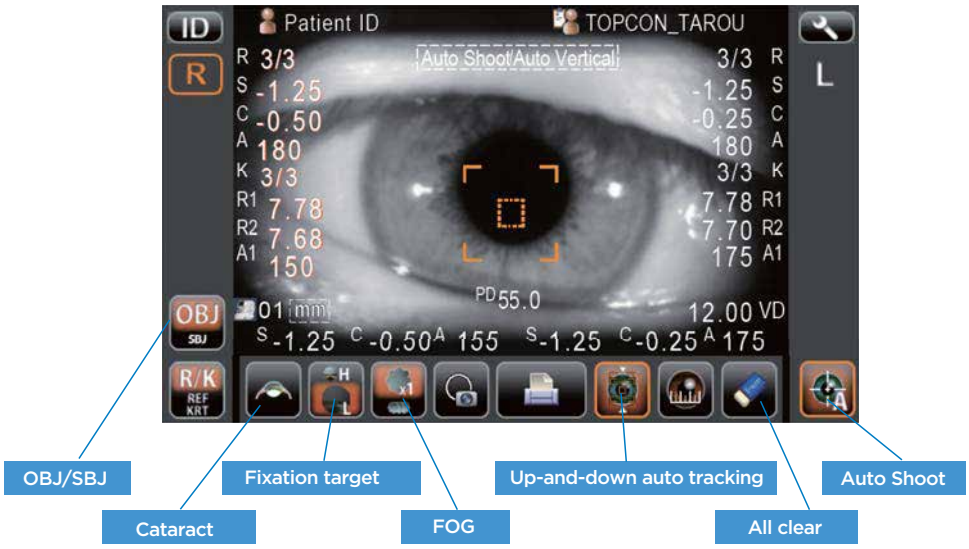
- Subjective VA Test
- Subjective IOL Type Selection
- Grid Test
- Glare Test
- Contrast Test
- Objective Test

Objective and Subjective Data

Subjective VA Test Objective Test

KR-800S displays the test results of all objective and subjective measurements on a single screen. This all-in-one instrument saves examination time and offers wide functionality in situations where a manual refractor is not available, such as school screening, athletic or occupational screening, and nursing homes. Refractive results can be viewed on the screen, printed out, or exported to an Electronic Health Record.

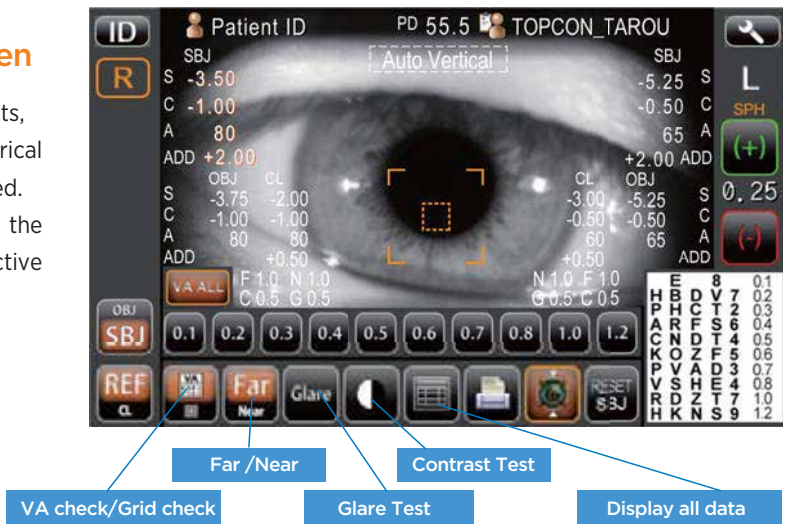
Objective Test



Subjective Test

All information is shown on the one screen

Lensmeter results, Objective results, Subjective results, and Spherical Equivalent simulation are displayed. The operator can refer to all of the information during the subjective tests.



Range of functions

Glare test

Glare Test

The test is simple, standardized and provides a consistent and reliable way to evaluate vision changes in the presence of bright lights.

*The Glare test can only be performed with the subjective far distance test.

Glare Vision

Example

Normal Vision

Example

Contrast test

Contrast Test

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

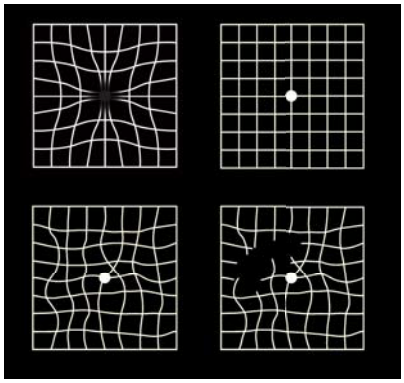
* The Contrast test can only be performed with the subjective far distance test.
* Only the contrast of the background changes.

100 % 50 % 25 % 12.5 %

Grid test

Grid Test

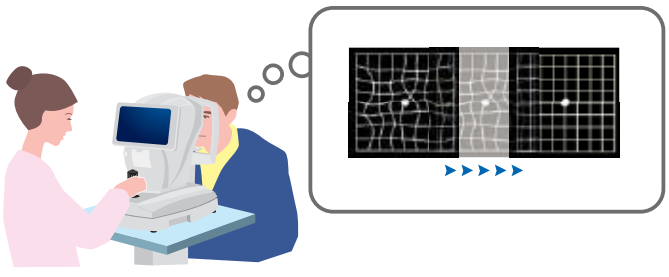
The grid test can be performed for conditions affecting the macula. Patients with macular disease may see wavy or missing lines. The test can be helpful in detecting early signs of abnormality in the eye.
New grid test function shows the grid for no longer than 0.25 seconds to prevent the natural "completion phenomenon" filling in the grid.



What is Completion phenomenon?

The human brain is able to restore "crooked" lines back to straight lines in just over 0.25 seconds, losing the actual result

*The Grid test can only be performed with the subjective far distance test.



Other Features

Compare toric to non toric correction

Subjective IOL Type Selection

This software function allows the patient to visualize the potential post-surgical difference between a spherical and toric IOL. Simply push a single button to switch “Sphere, Cylinder, and Axis” to “Spherical Equivalent”. The patient may then view a comparison of their with and without cylinder correction.
This feature is also useful for contact lens patients considering a toric lens versus a spherical equivalent to correct low astigmatism.

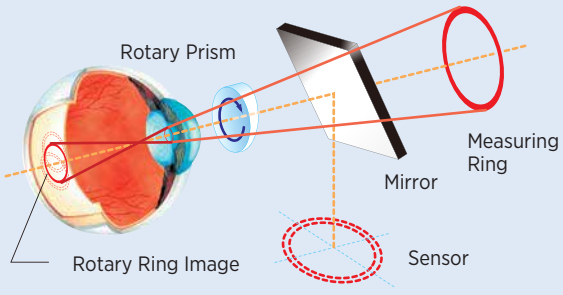
Toric IOL

This allows the patient to visualize the potential post-surgical differences between a standard and Toric IOL

Rotary Prism Measuring System

With Topcon's exclusive Rotary Prism Technology, the KR-800S also provides unmatched accuracy and reliability. The innovative optical design incorporated into the KR-800S allows for accurate and reliable measurements wit h a pupil as small as φ2mm.

Rotary Prism Measuring System (Image)



Cataract surgery quality control

Visual acuity (VA) is the most common clinical measure following cataract surgery. It is how we describe and measure the success of surgery. Measurement of VA must be standardized and systematic. Topcon's KR-800S Auto Kerato-refractometer with subjective VA check will do exactly that. With the KR-800S the VA can be subjectively tested pre- and post-operative cataract surgery. With the unique features of the KR-800S, such as "Glare" test and "Contrast" test, you can even evaluate the progression of cataract and identify cataract that is causing impaired quality of vision without a significant reduction in high contrast VA.

Topcon's Cataract Workstation

VA Simulation Premium IOL

KR-800S offers a Spherical Equivalent mode which can simulate the benefit of a premium (toric) IOL.

Cataract workstation

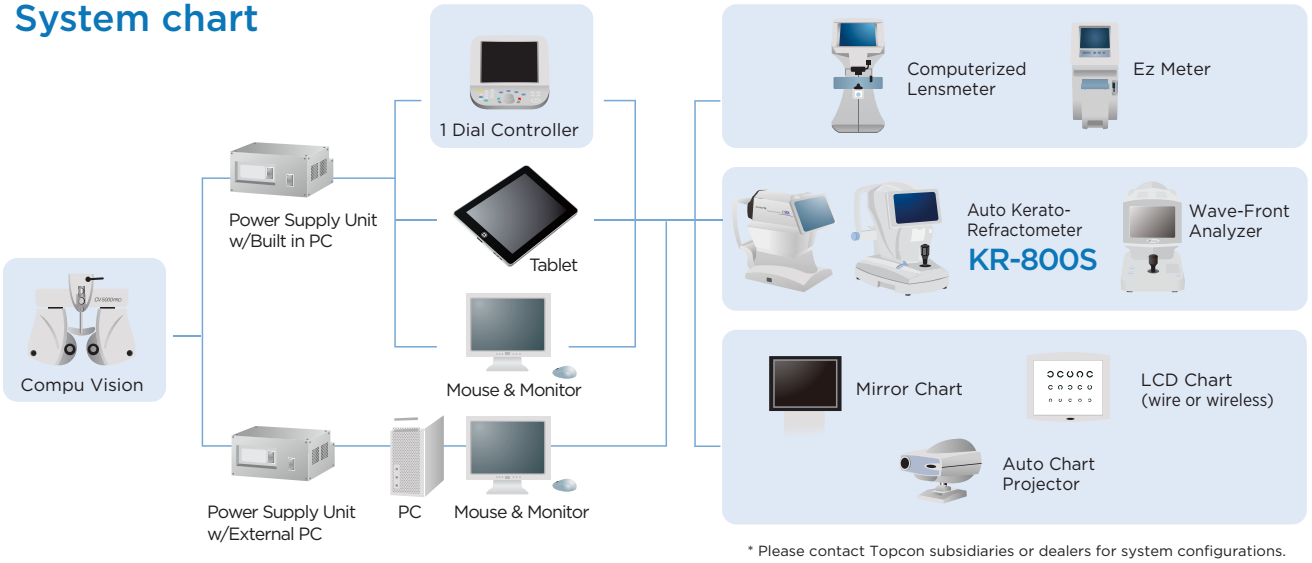
The KR-800S completes the screening workflow of cataract surgery. All necessary cataract pre-op information can be obtained by combining the KR-800S and ALADDIN, while the KR-800S assists you postop in Visual Acuity evaluation and determining the success of the cataract surgery. ALADDIN and KR-800S - the perfect combination for your cataract practice.

Specifications

Refractive Power 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° (in 1°or 5°steps)
	Minimal measurable pupil diameter	ϕ2 mm
Corneal Curvature Measurement	Corneal curvature radius	5.00 to 10.00mm (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/0.25 D steps)
	Corneal astigmatic axial angle	0°to 180° (1°/ 5°steps)
Range of Subjective refractive check	pherical refractive power:	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)
Data Transport Terminal		USB (Import) /RS-232C (Import/Export) / LAN (Export)
Dimensions		317-341mm (W) × 521-538mm (D) × 447-477 mm (H)
Weight		15 kg
Power Supply		100-240V AC, 50-60Hz, 70VA

※-25D ≦ spherical refractive power + cylindrical refractive power or spherical refractive power + cylindrical refractive power ≦ +22D

System chart



* Please contact Topcon subsidiaries or dealers for system configurations.

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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