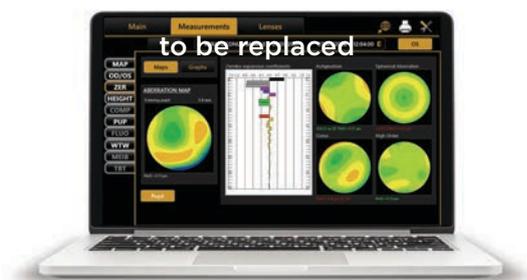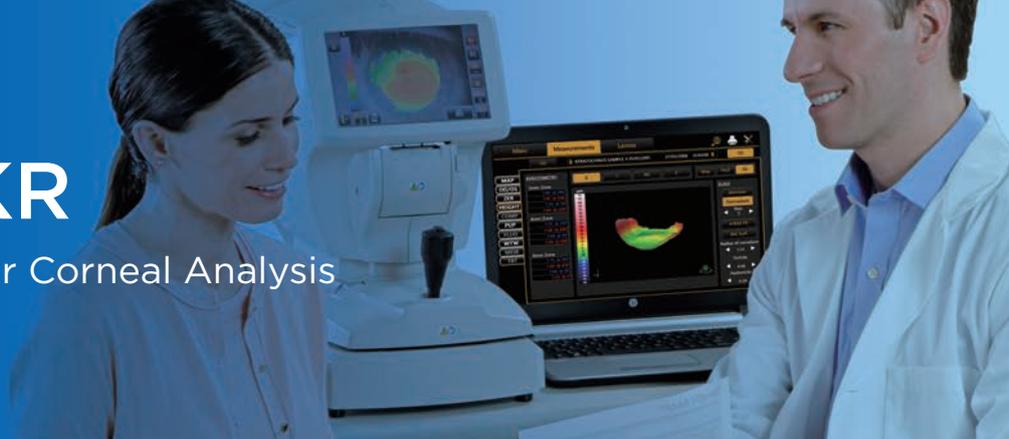# i-Map for KR

## Comprehensive Data for Corneal Analysis

The i-Map for KR provides comprehensive corneal analysis information[1].
The i-Map instantly retrieves your patient's measurement data from Topcon's KR-800PA Auto Kerato-Refractometer and offers a full menu of color-coded analytical displays including corneal shape, mapping and contact lens fitting.

## Fully Featured

- Topography Map
- OD/OS Results on Same Screen
- Corneal Zernike Analysis
- Corneal Surface Height Map
- Comparison Map & Differential Map
- White to White Measurement
- Contact Lens Fitting Simulation

## DICOM Compliance

- Modality Worklist
- Patient Root Query
- Storage
- Storage Commitment
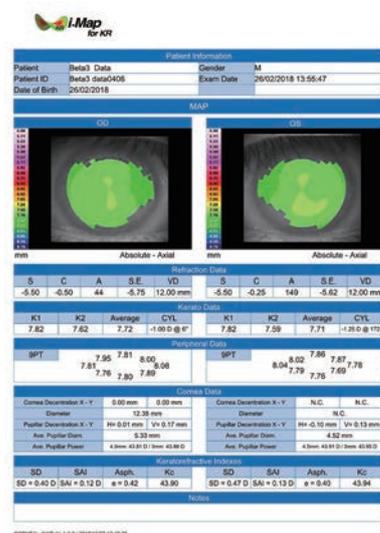
## Topography Map

With the KR-800PA, it is easy to compare topography maps between two different exams from the same patient, which can be used for pre- and post-operative corneal analysis. With the differential map, progress in recovery of the cornea can be observed after refractive surgery. Parameters such as keratometry, apical curvature and corneal symmetry can be analyzed to follow the development of any corneal surface changes. The i-Map for KR can assist you in monitoring corneal collagen crosslinking treatment for corneal ectasia.

1. The i-Map for KR is a visualization software for corneal analysis for Topcon KR-800PA.
   The i-Map for KR is able to analyzes corneal data acquired by KR-800PA.

# i-Map for KR

## Comprehensive Data for Corneal Analysis
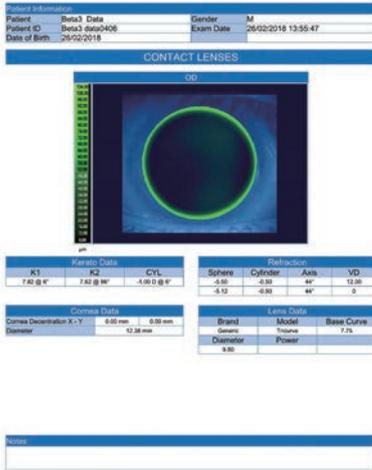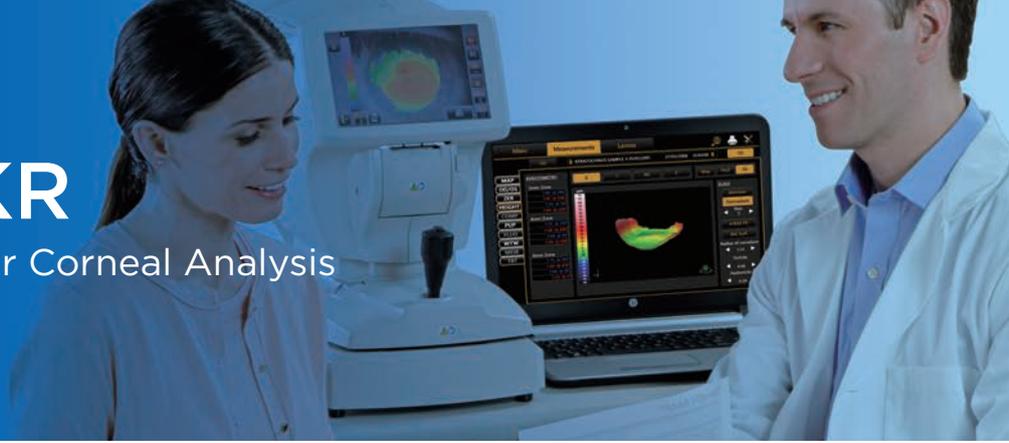
### Contact Lens Fitting Simulation

The KR-800PA provides the perfect platform for contact lens fitting. Simulation software is provided on-board, which automatically selects the best fitting contact lens based upon an included complete contact lens database for all the main manufacturers (upgradable and customizable by the user). With the option to input refractive powers, the contact lens proposal is accurate and complete. The on-board fluorescein acquisition system allows for full control of the contact lens position on the eye. The comparison between different contact lenses is easy, allowing you to ensure the best fit.
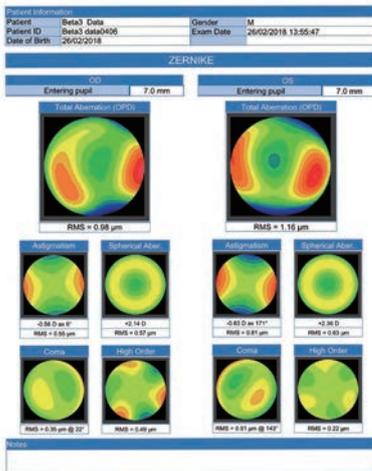
### Corneal Zernike Analysis

The Zernike analysis module consists of 36 polynomials into the 7th order, and provides a clear view on the optical deficiencies which can disturb vision. Based on this information, the KR-800PA provides the visual acuity summary. Zernike analysis is the basis for the calculation of the ablation area for laser treatment. The Zernike expansion coefficient is used to determine which component(s) dominate the aberration structure of the cornea and to what degree.

**Product Requirements**

| Operating System | Windows 10 (32/64 bit) |
|---|---|
| RAM | 2GB Minimum |
| HDD | 4GB Minimum |
| Screen Resolution | 1280x1024 Minimum |