ADVANCED ACCOMMODATION MEASUREMENT
Binocular, Dynamic, Refractive, Pupil Diameter Measurements

In addition to the Binocular Refractor and Keratometer measurement functions, the WAM-5500 can measure the Refractive Power and Pupil Diameter simultaneously. These are advanced features provided on the earlier WR-5100K AutoRef/Keratometer version.

With this function, it can be used to confirm the change on the accommodation function before and after the surgery. In addition, it can be used to confirm presbyopia and the accommodation error due to fatigue as a result of VDT work or other eye fatigue instances. By connecting with the computer, you can measure refractive value at a rapid, continuous speed, thus allowing you to measure the accommodation response dynamically.

**A.M. MODE**

It measures the pupil diameter at 0.1mm step (minimum 2mm) simultaneously with refractive value. The measurements are then presented on the monitor. Subsequently, you can print the results and check the condition of pupil. Studies have indicated that pupil constriction is evident when the eye is accommodating. Thus, the pupil diameter measurement function allows you to more precisely ascertain whether the subject's eyes are accommodating or not. Another option is to present the image via video, thus giving you precise image analysis of the pupil constriction as well.

The ideal refractive value for 50, 40, 30, 25, and 20cm is displayed, thus you can compare the patient data with the ideal value more easily as it relates to the actual distance of the Near Point Card.

**HI SPEED MODE**

By connecting with the computer and using our dedicated software - WSC4 (optional), you can measure the SE value and Pupil Diameter at 0.2 seconds per step. In addition, you can analyze this data with spreadsheet software like Microsoft Excel.

Unlike the previous model, WR-5100K, this HI Speed Mode allows you to more dynamically measure the eye. Additionally, in this Mode, since the refractive value is calculated on the entire meridian instead of a specific one, you can understand the refractive value precisely.

**Measurement with Both Eyes**

With both eyes open, the natural condition, the measurement is taken. Thus, there would be no Instrumental Myopia, and allows you to achieve more precise measurement.

**Easy Measurement with Open View Window**

The Open View Window, which adopted the Half Mirror, makes it possible to take a measurement without the subject being aware as there is no distraction of view. For the infant/children, it gives less pressure, and you can measure easily and quickly. Additionally, it allows you to go through the measurement process smoothly since you can observe the condition of a subject directly.

**Any Target**

You can select from any target, or as you like, Needless to say, it can be an eye chart. Or for the infant/children, you can choose from what they are interested in, such as toy and cartoon. It helps the measurement process go more smoothly. Additionally, since you can put a target at any distance, you can measure middle and near target as well.

**Indication of SE (Spherical Equivalent)**

You can confirm the change of accommodation as the SE is indicated on the monitor each time (0.1 data).

**Easy Measurement**

Since it is adopting the Open View Window, you can measure a subject with glasses and contact lens as well as a subject with the IOL, easily. It also allows you to confirm the prescription.

**Data Output**

Video Output: It allows to show the same image as internal monitor on an external monitor (NTSC System) RS-232C Interface: It allows you to send the measurement data.

**Software**

WSC4 (optional) HI SPEED MODE Control software MDG1 (optional) The Measurement Data Collection software

- Example: 33 years old male
  This is the data of moving the Near Point Card every 20 seconds, With this data, the subject eyes are accommodating from the ideal value of -2.00D to -3.00D. Additionally, the pupil diameter is constraining from 4.0mm to 3.2mm. (Blinking at the same interval.)