



# An auto refractometer series for a new era of refraction and accommodation testing.

In this era of a rapidly growing aging population and an abundance of LCD products such as smart device the patient's eye has been drastically changing no matter what their age is.

The new ACOMOEF 2 series was developed for high end optometrists and ophthalmologists who may have to treat patients suffering from unknown accommodation trouble, including early stage presbyopia. It can also promote the use of progressive lenses or anti fatigue lenses to cure patients' troubles.

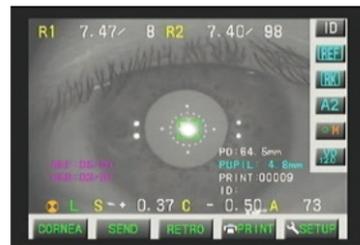
For the perfect fitting glasses, it is necessary to correctly measure patient accommodation. Detect "asthenopia" visually, which is becoming popular.



## Regular refraction (or Kerato) reading

The ACOMOREF 2 will give you an accurate reading by quicker and user friendly operation of the Speedy series as a regular Auto Refractometer and Keratometer in daily use. And yet improved accuracy by the light sensor area for reflected light is expanded by 10% so a more stable reading can be obtained.

- 45 degrees continuous tilting LCD monitor enables operator standing position.
- Unique fireworks chart shows meridian visible for even strong cylinder patients.
- Pupil diameter automatically measured during refraction.
- With the K-Model, residual astigmatism calculation for CYL contact lenses or CYL IOL is automatically conducted and the results are printed out.
- With the K-Model corneal size is also measured.



Display for REF KER measuring



Fireworks chart

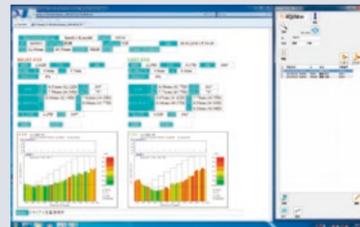
## Retro Illumination

Opacity such as in cataracts can be detected. The circle shows the area of opacity and the line can be moved up or down to show the size of opacity.



## Simple Software "i"-File (Option)

- With i-File, data can be managed and saved as simple files using Internet browser.
- Particularly convenient for searching and reviewing data as well as FK-map color printing.

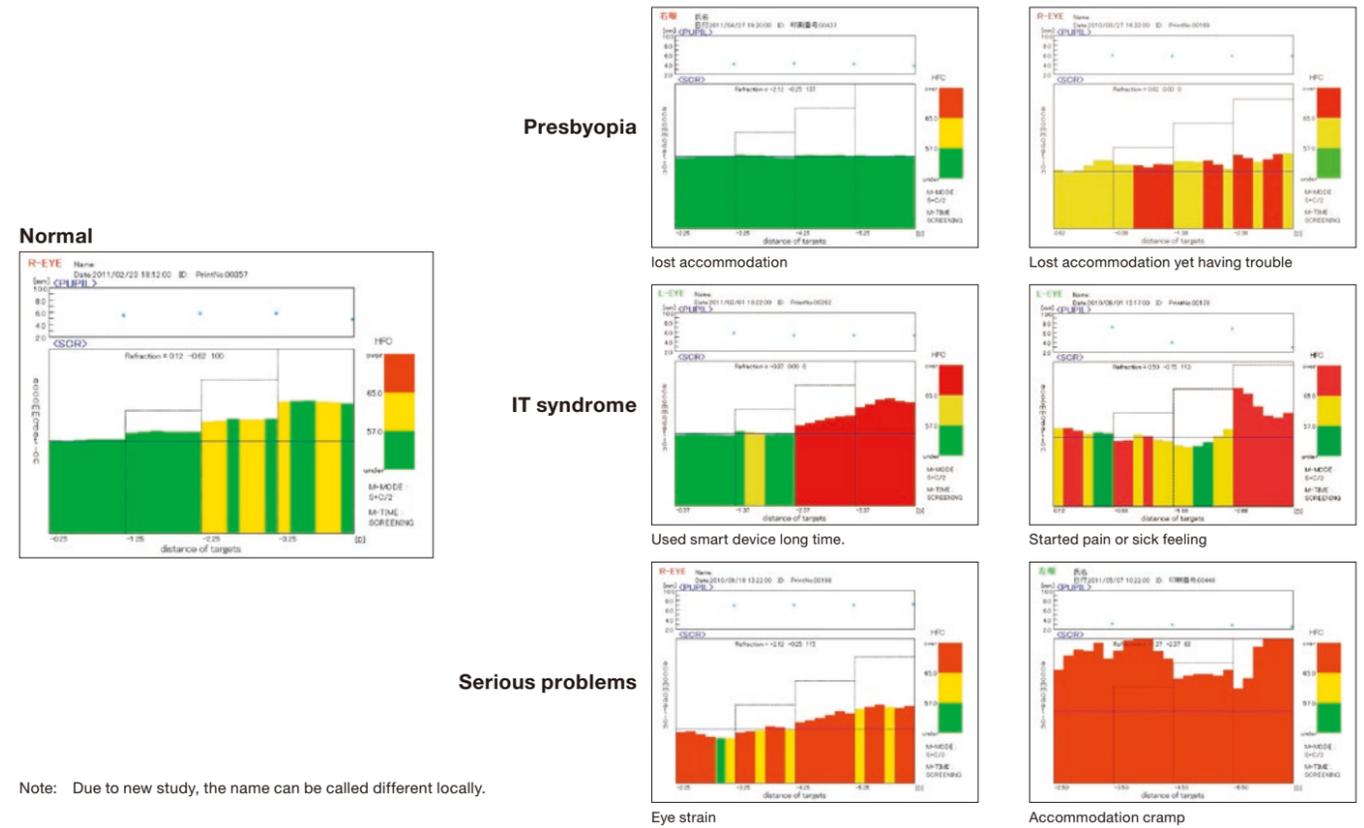


## Accommodation test

Accommodation mode is now loaded as an auto refractometer feature. SCR TEST with 49 second per eye can be done. Result are shown as Spherical Equivalent. ADD is for a patient wearing progressive lenses for the first time. AMF is for study purposes.

### Typical Graph sample

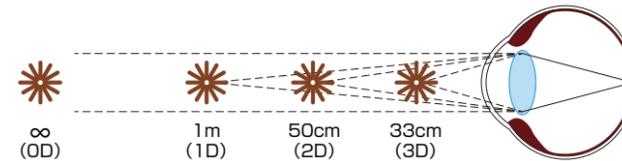
Patient accommodation status is easily shown by a graph on the monitor and can be printed out. With ACOMOREF 2 the graph on LCD can be shown more easily in a standing position.



Note: Due to new study, the name can be called different locally.

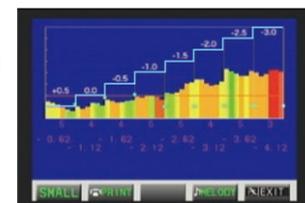
### ◆ SCR mode

A fire work target is shown in 4 steps on the different distance of 0D, 1D, 2D and 3D. Stays 10 seconds each step for let the patient serious look so that catch Accommodation Fluctuation in each Diopter. Takes 49 seconds in total per eye. Note this is fastest as patient eye can not follow if faster.



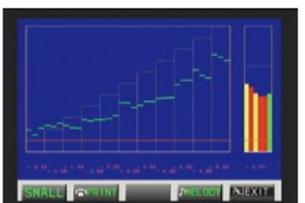
### ◆ AMF Mode

This is medical reference used for detailed inspection. As it will take more time not always suitable for daily diagnosis. One eye takes 101 seconds.

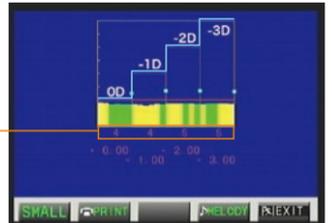


### ◆ ADD Mode

This can check the first use of Progressive lens patients.



### Post-measurement FK-map



### Reliability Value

The system counts states when data cannot be acquired for more than 0.2 seconds in one step due to a visual fixation defect or the like, and displays a confidence value (CV) in 6 steps according to the frequency thereof. CV5 = 0 data acquisition failures, CV4 = 1 data acquisition failure, CV3 = 2 data acquisition failures, CV3 = 3 data acquisition failures, CV1 = 4 data acquisition failures, CV0 = 5 or more data acquisition failures