



# CONTRAST GLARETESTER

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## OPHTHALMIC OPTICAL INSTRUMENTS

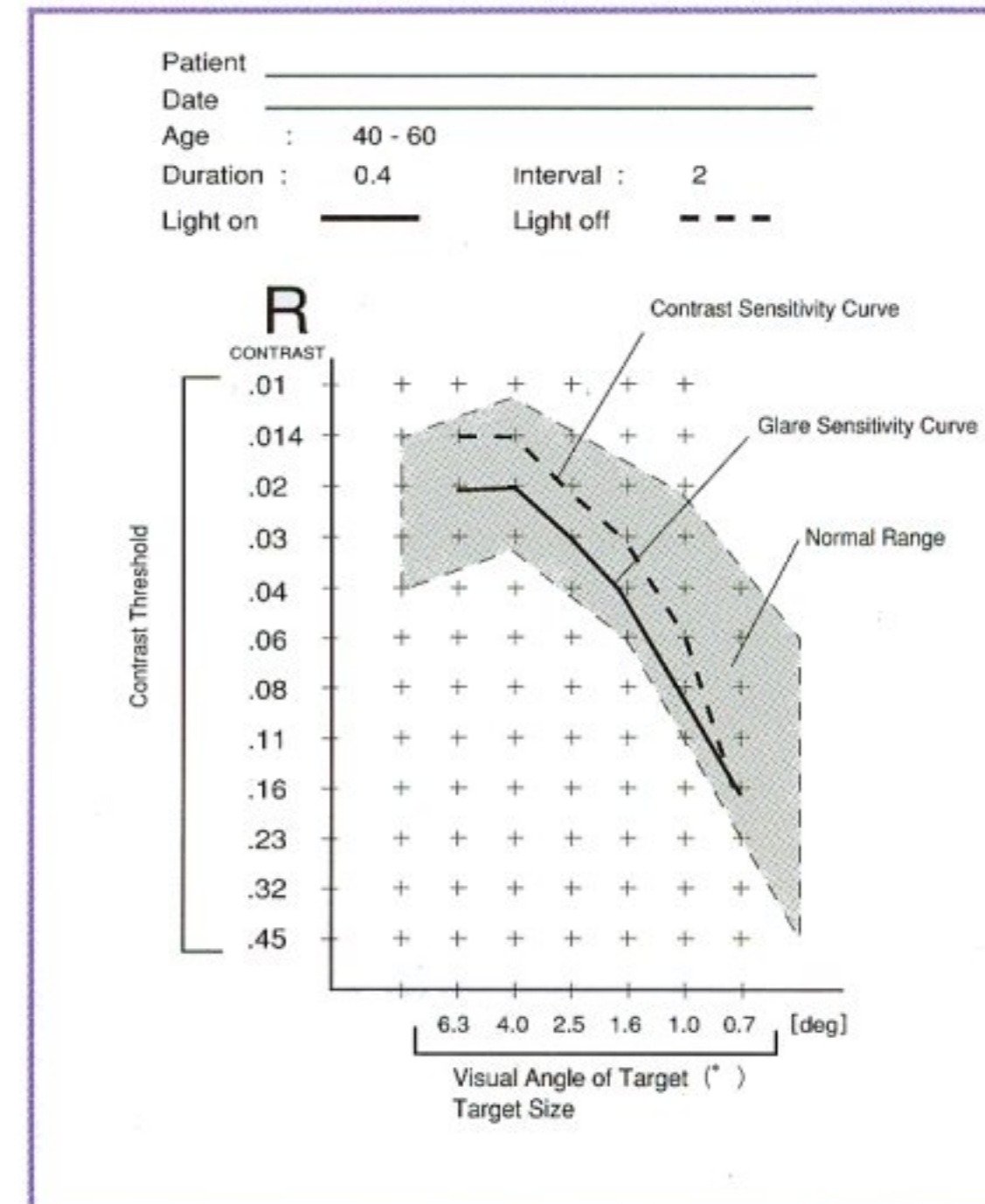
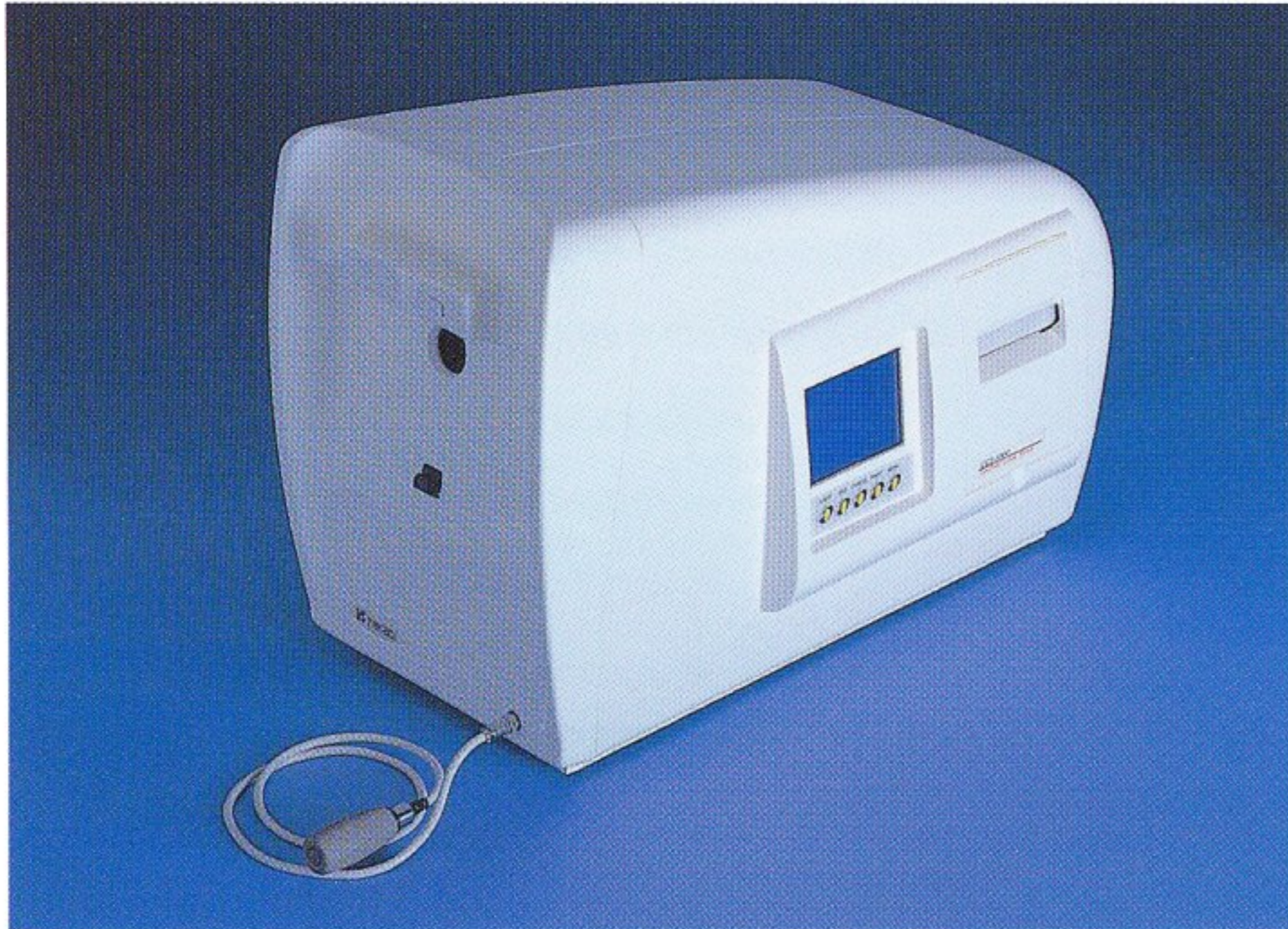
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# MODEL CGT-1000



Aiming at a new stage in quality.

**Effectively available for diagnosis before and after the cataract surgery, observing the progress after the surgery of the corneal refractive power correction, relatively examining the contrast sensitivity and glare sensitivity for loss of the visual function.**



No need to read the operation manual repeatedly. Immediately you may be an expert operator.



Just press the START button. No complicated setting of the targets. The CGT-1000 will automatically perform examinations with presentation of 6 kinds of the targets and 12 levels of the contrast thresholds. Buzzer will notice the completion of the examinations. (Refer to the operation procedure.)



After finish, just press the PRINT button. The examination results will be printed out through the built-in printer.

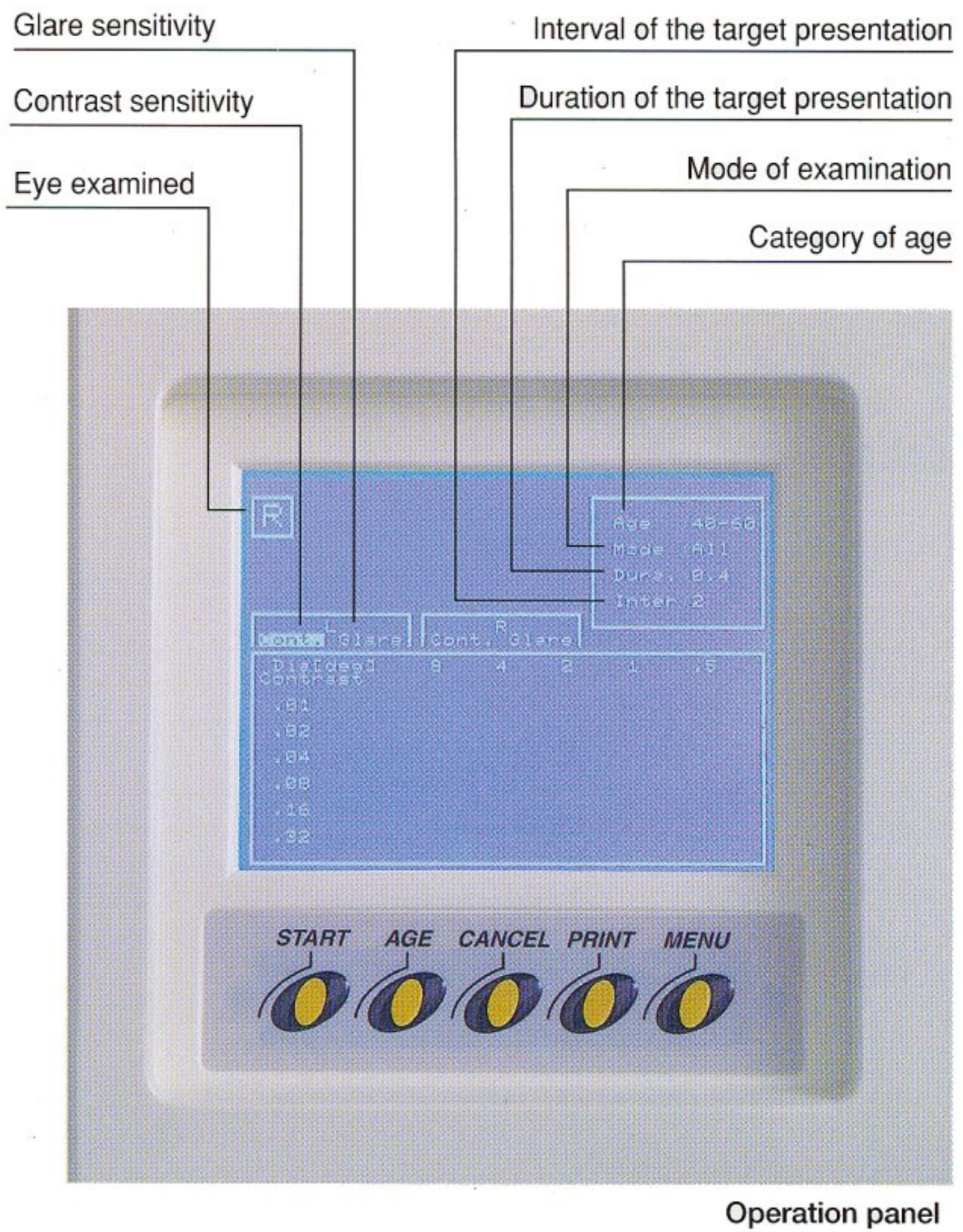
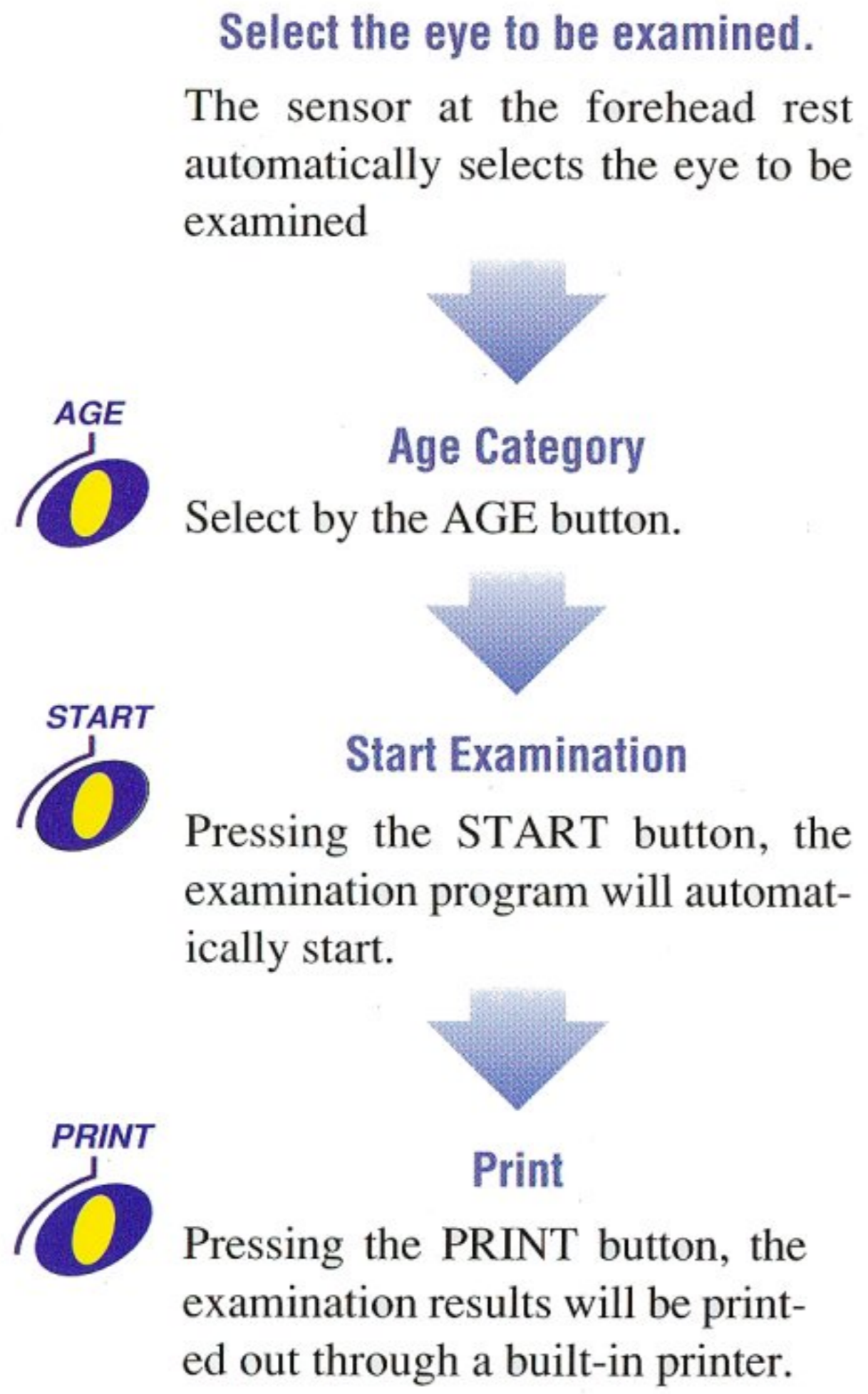


Less patient's fatigue with short time of examination. (Examination time is approximately 2 minutes per eye) \*2)

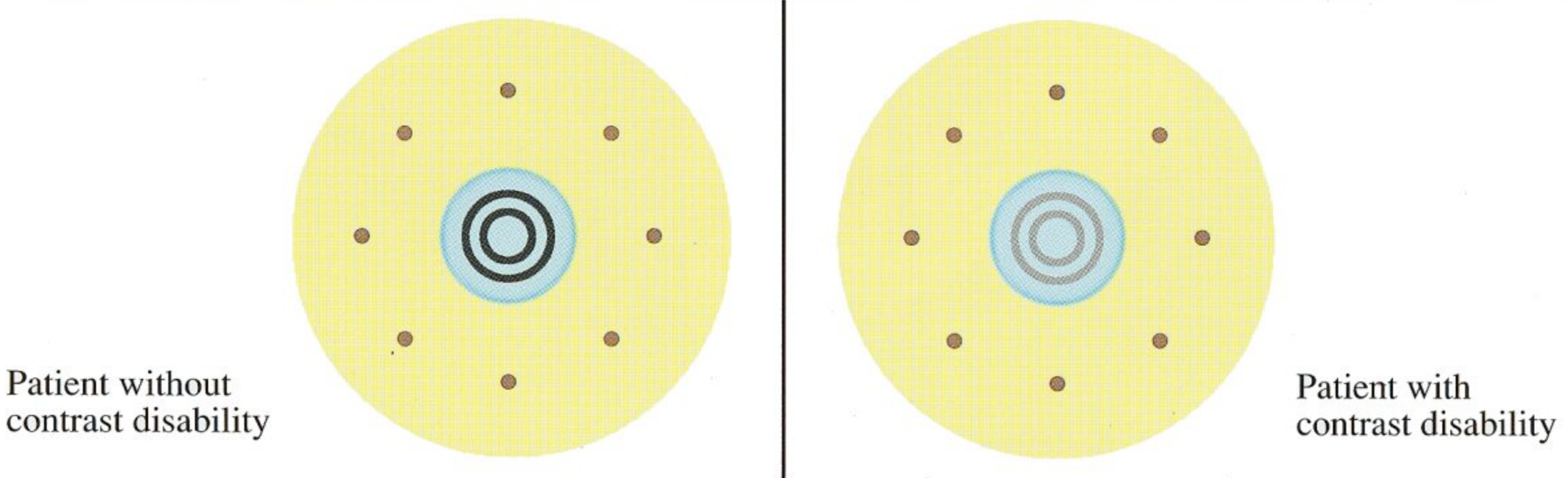
### Contrast Sensitivity

Vision is generally measured by acuity tests that determine the smallest detail that can be seen, using black letter on white background such as Landolt charts or Snellen charts. Our everyday world, however, is not composed of black and white. Objects have varying levels of contrast and diverse range of sizes. Furthermore, those objects must be seen under visually degraded conditions such as night time, bright sun, fog or rain. The advantage of using contrast sensitivity as a diagnostic device is that it gives a comprehensive evaluation of visual contrast that appears in the everyday environment.

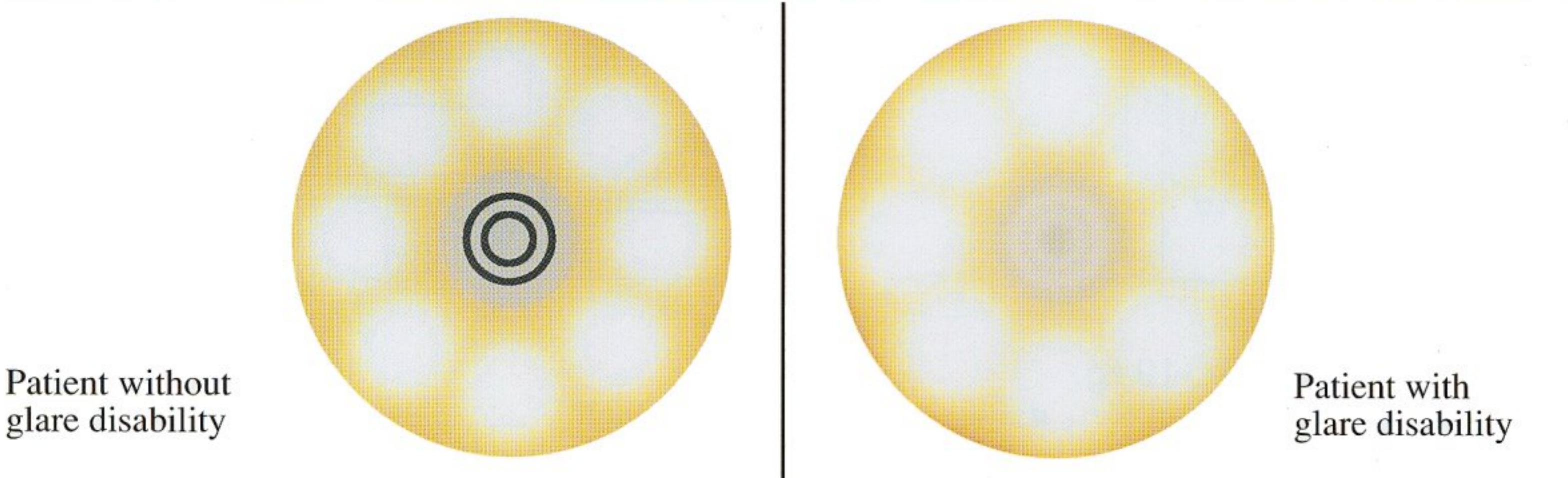
## Examination Procedure



### Targets to be seen with Contrast Sensitivity Test



### Targets to be seen with Glare Sensitivity Test (The vision under glare conditions)



### Impediment by glare

This means the difficulty in seeing objects due to glare, causing a loss to the contrast sensitivity due to scattering of the light into the eye. The glare sensitivity test is to evaluate the degrees of loss of the contrast sensitivity and the difficulty in seeing.

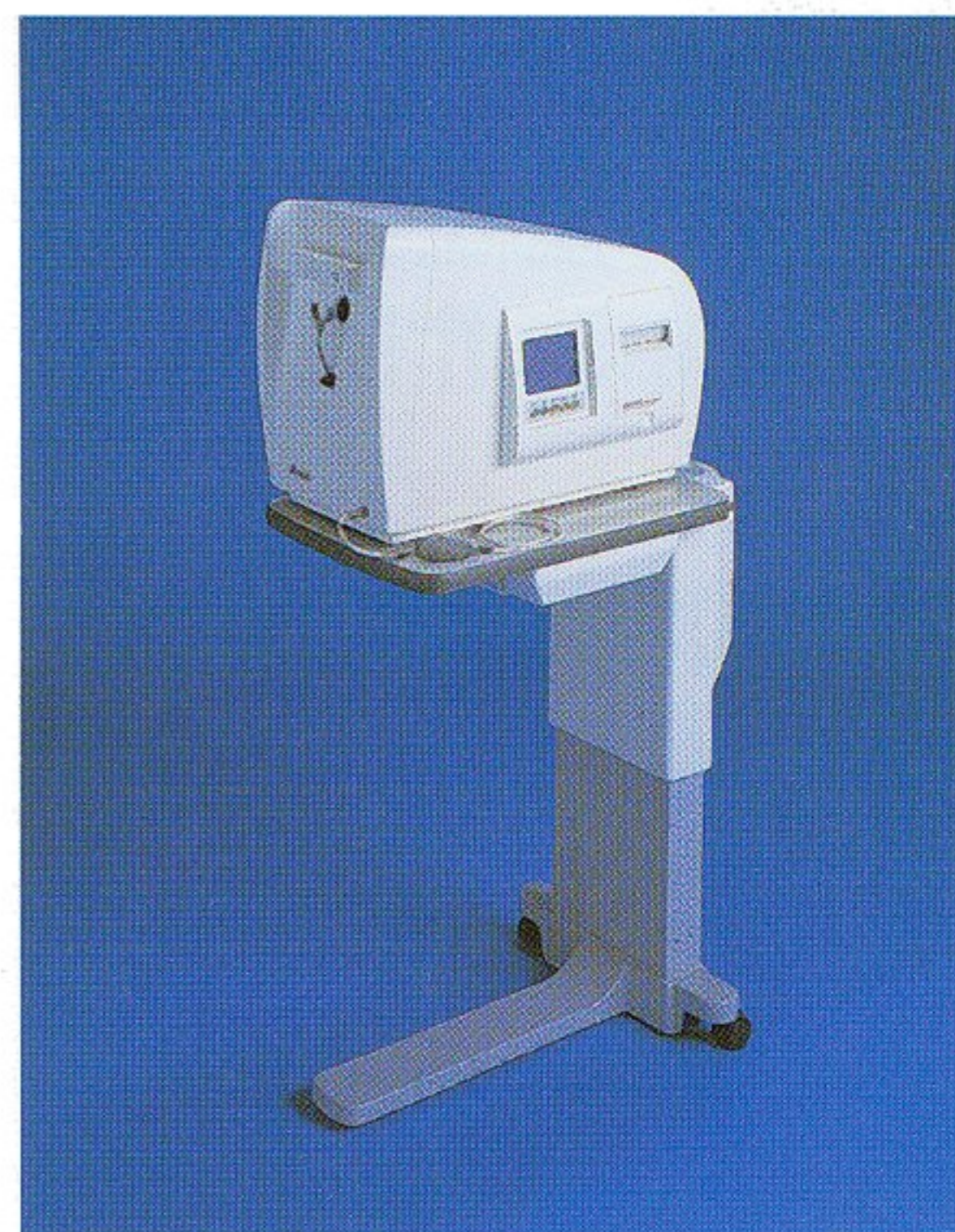
\* 1) This is a sample (not an actual data.)  
\* 2) It depends on the duration and interval of the target presentation or a patient's response.

## Rating

Power Source:	100—230 volts AC
Frequency:	50/60Hz
Power Consumption:	200VA

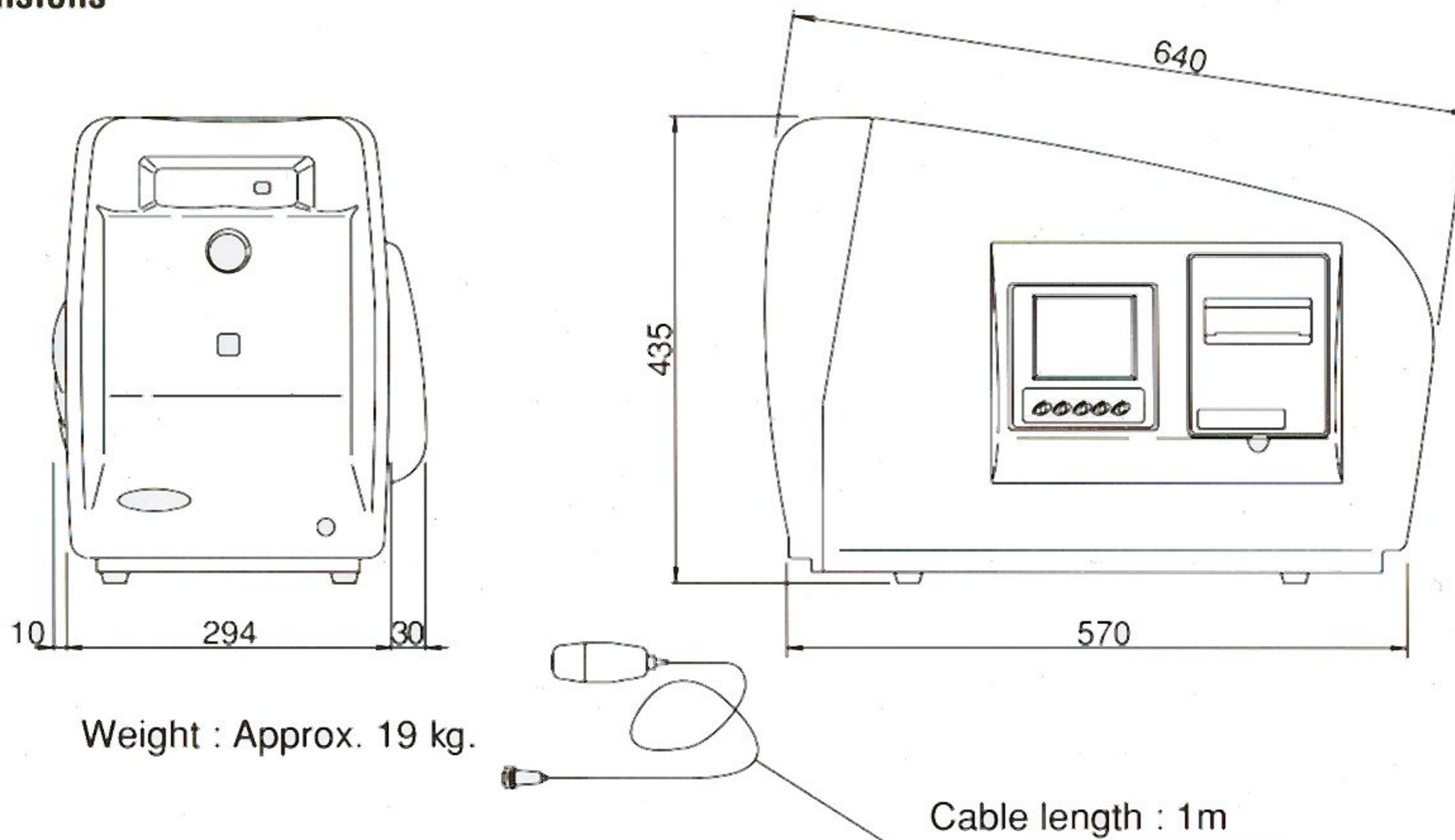
## Specifications

Testing Distance:	350mm
Display Background	10cd/m <sup>2</sup> (standard)
Luminance:	50cd/m <sup>2</sup> (maximum) 5cd/m <sup>2</sup> (minimum)
Display Background	0.5(maximum)
Threshold:	0.01(minimum)
Peripheral Glare Luminance:	10,000cd/m <sup>2</sup> Low 20,000cd/m <sup>2</sup> Middle 40,000cd/m <sup>2</sup> High
Target Size Visual Angle:	6.3, 4.0, 2.5, 1.6, 1.0, 0.7(deg.)
Diameter:	φ 48.5, φ 30.6, φ 19.3, φ 12.2, φ 7.7(mm)
Target Threshold:	0.01—0.45 (12 levels)
Target Presentation Duration:	0.2, 0.4, 0.8(sec.)
Target Presentation Interval:	1, 2, 3(sec.)



Mounted on Electric Instrument Table ST-25

## Dimensions



●Kindly note that specifications may vary as improvements are carried out in the design.

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