



Contrast Glare Tester CGT-2000

Serving Your Vision



Contrast Glare Tester

CGT-2000

Advanced performance from pursuit of “Quality”

The CGT-2000 detects even the subtle changes in visual function that would be missed by visual acuity tests.



The CGT-1000, which had been well received by many practices and medical facilities including university hospitals, has evolved into an advanced model, the CGT-2000 incorporating various customers' feedback.

The CGT-2000 is particularly useful and effective in pre-/post-cataract surgery diagnosis and follow-up observations subsequent to refractive surgery.

Binocular testing capability

While monocular testing provides assessment of each eye, it does not reflect how well patients actually see objects in everyday life. As the CGT-2000 can test patients with both eyes open, it provides assessment of their visual function close to real-world conditions.



Variable test distance

Test distance can now be selected from the following four settings: 30cm, 60cm, 1m, or 5m, allowing measurement of contrast sensitivity at a near, intermediate or far point. This will provide detailed assessment of patient's 'quality of vision' for more precise diagnosis. This function is also useful in measuring contrast sensitivity in patients with multifocal intraocular lens.



Testing under various light conditions (Luminance levels of test target background)

Testing can now be done under various light conditions: day, twilight, night, or examiner specified. This will provide assessment of patient's functional vision under conditions close to their everyday environment.

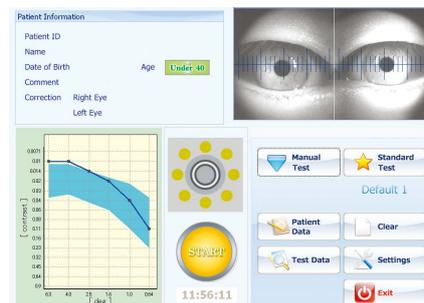
Database storage

By simply entering a patient ID and a date of birth (or age group), the patient's data will be stored in the device. Selected sets of data are instantly converted into graphs, contributing to ease of examination and diagnosis including for pre-/post-cataract surgery comparisons and post-refractive surgery follow-up observations.



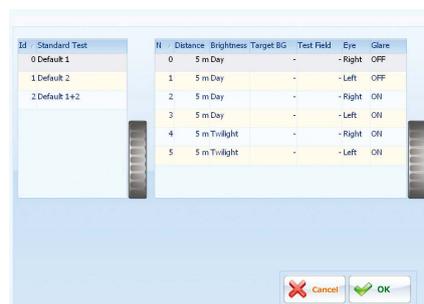
Pupil monitoring

Testing can now be performed as you monitor patient's pupils, which improves test quality, facilitating more precise diagnosis and examinations.



Customizing

Test items can be customized to suit each practice or hospital. This can be done with ease as once entered, the test setting will be stored in the instrument's internal memory; there is no need to repeat this procedure. Multiple test settings to suite a number of specific conditions and cases can be stored.



Simple touch-screen operation

The testing process, including start and end, can be performed by touching the 10.4" screen. On-screen buttons are arranged in a user-intuitive way, facilitating ease of operation. The CGT-2000 is designed to deliver stress-free testing to the examiner.



Motorized alignment

The chinrest and the interpupillary distance can be adjusted smoothly with the controls placed on the examiner's side of the instrument.



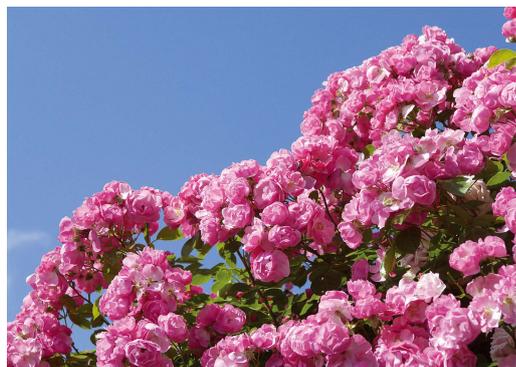
Easier paper loading

With the new "drop-in" paper loading system, all the examiner has to do is drop in a paper roll, and close the cover. No cumbersome paper feeding or threading through a slot is involved, reducing the examiner's burden.

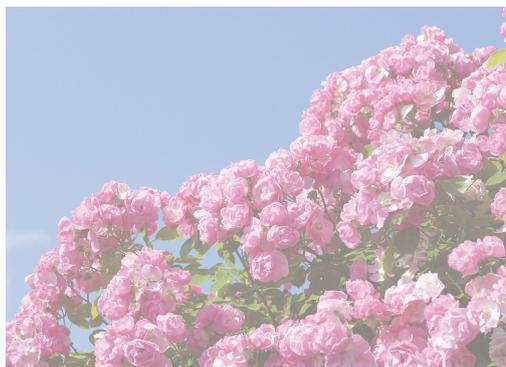


Testing

Testing how much contrast a patient can distinguish in objects of varying sizes (Contrast sensitivity testing)



Normal state



Reduced ability to distinguish contrast

Present test targets with lower contrast to those patients whose expected ability to distinguish contrast is high. On the other hand, present targets with higher contrast where patient's expected ability to distinguish contrast is low. Patient's responses are graphed, which provides sensitivity evaluation across the wide range of sizes and contrasts.

Testing the degree of visual disturbance from glare



Normal state



Affected by glare

The degree of visual disturbance from glare can be assessed by using glare lamps during contrast sensitivity testing.

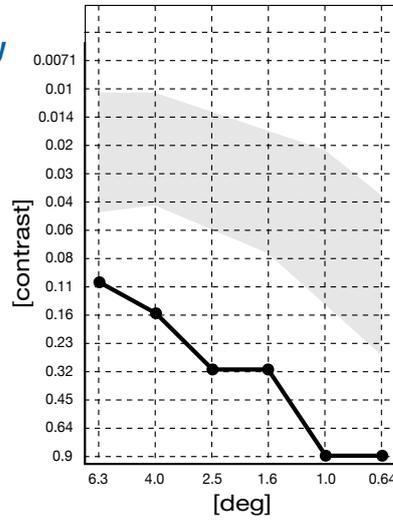


Examples of Test Readings

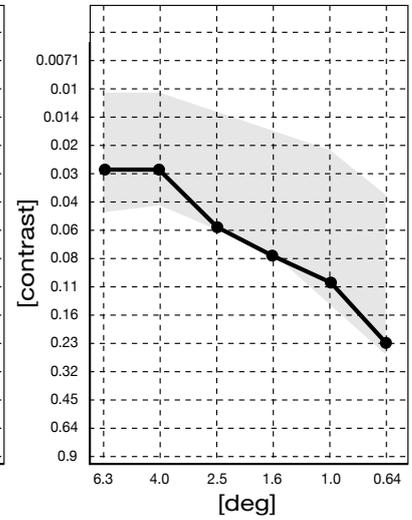
Case 1) Pre- and Post-cataract surgery

Age group: Over 60,
Sex: Female,
Tested eye: Right,
Test distance: 5m,
Light conditions: Day,
Glare: Off

* Patient was given monofocal
intraocular lens implant.



Pre-surgery

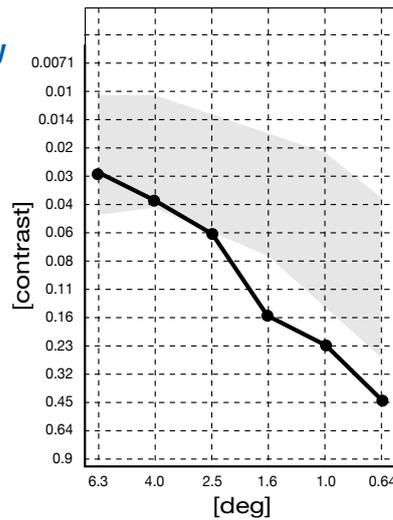


3 days post-surgery

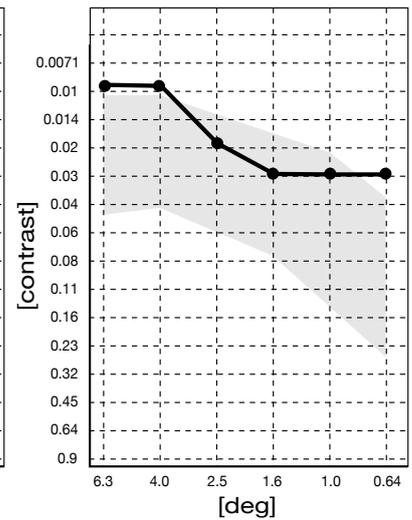
Case 2) Pre- and Post-cataract surgery

Age group: Over 60,
Sex: Female,
Tested eye: Right,
Test distance: 5m,
Light conditions: Day,
Glare: Off

* Patient was given monofocal
intraocular lens implant.



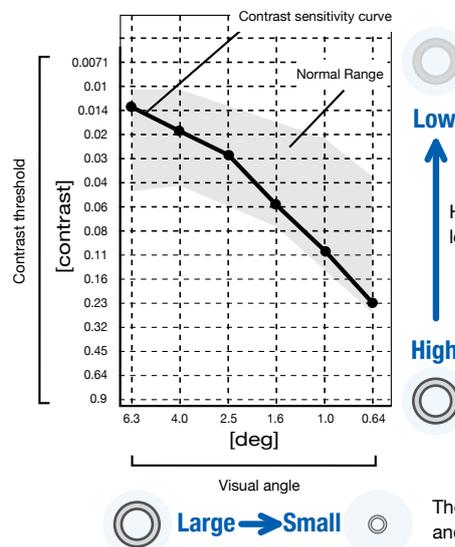
Pre-surgery



15 days post-surgery

Interpretation of Readings

This sensitivity curve was created for demonstration purposes only, and not based on actual test results.



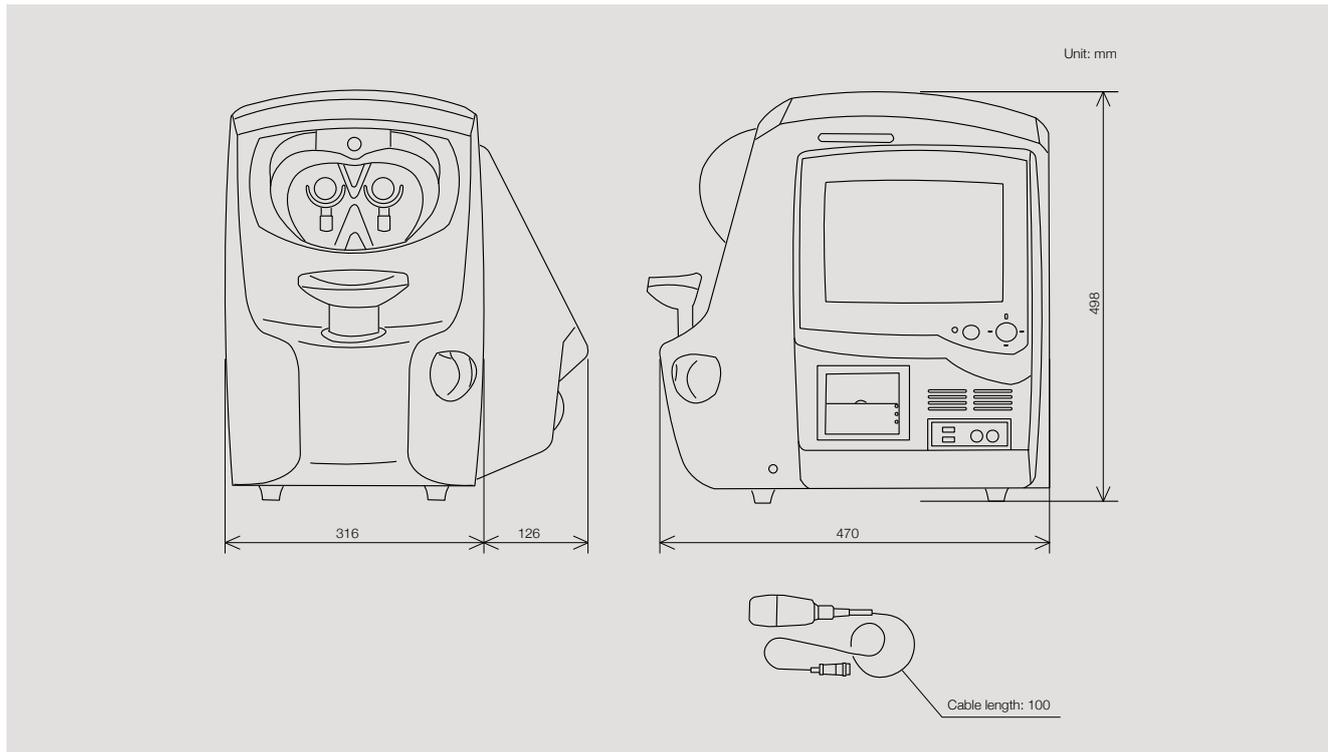


Specifications

Test distance	30 cm, 60 cm, 1 m, 5 m
Light conditions (Luminance of test target background)	Day, Twilight, Night, or Examiner Specified
Glare	Three settings: Low (L), Medium (M), and High (H)
Structure of test target	Multiple structure with dual concentric circles
Visual angle of test target	6.3, 4, 2.5, 1.6, 1, 0.64 degrees
Contrast value of test target	14 levels between 0.0071 and 0.64
Presentation duration of test target	0.2, 0.4, 0.8, 1.6 seconds
Presentation interval of test target	1, 2, 3 seconds
Power supply	AC 100-230 V, 50/60 Hz
Power consumption	200 VA
Fuse	5 A
External dimensions	442 (W) × 470 (D) × 498 (H) mm
Weight	22 kg



Dimensions



Caution To ensure safe and correct handling please read the user manual before using.

- Description and appearance as detailed in this brochure may be subject to change as improvements are made to products.
- Colours as they appear in brochure photographs may be slightly different to actual products due to lighting conditions when photographs were taken, or print colours.

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