Universal Design
The GYC-1000 utilizes a diode pumped solid-state laser to achieve long laser life and great efficiency at low heat emission. The GYC-1000 laser can be plugged into any standard power outlet and requires no external hookup for operation, yet achieves high power output (max. 1700 mW on the cornea). The GYC-1000’s specially designed silent air cooling system minimizes the typical maintenance problems common to conventional plasma tube technology.

Light and Compact Green Laser
The compact (W215 x D280 x H90 mm) and lightweight (6.7 kg / 14.8 lbs.) console offers operational flexibility and treatment versatility - from the office to the O.R.

Low Power Consumption
The new technology - ITC (Intelligent Thermo Control) function - reduces the power consumption, offering optimum and economical control of the temperature under CPU management.

High Reliability
A digitally controlled instant duty cycle permits the laser to be used at very fast speeds and high powers for extended periods of time without failure. The GYC-1000 provides many years of superior, reliable performance.
1. Slit lamp delivery unit
   - NIDEK slit lamp delivery unit (NIDEK SL-1800)
   - Spot size: 50-990 µm continuously variable
   - Protective filter unit (motorized / fixed)

2. Attachable delivery unit
   - Attachable to NIDEK SL-1800
   - ZEISS SL130,305L/M
   - Spot size: 50-990 µm continuously variable
   - Protective filter unit (motorized / fixed)

3. Endophotocoagulation delivery unit
   - Spot size: 400 µm (tip of probe)
   - Endophoto probe (5 pcs)

4. Combination delivery unit
   - Attachable to NIDEK Ophthalmic Yag Laser YC-1300/1400/1600/1800

5. Binocular indirect ophthalmoscope delivery unit
   - Adjustable working distance allows effective photocoagulation at more favorable distance.
   - Keeler All Pupil II
     - Spot size: 185 (WD300)-556 (WD700) µm
     - (variable according to the working distance)
   - HEINE OMEGA 500 type
     - Spot size: 212 (WD300)-664 (WD700) µm
     - (variable according to the working distance)

6. Dual delivery GYC 4DD-1
   - The dual delivery allows easy changeover with switching lever between two delivery systems.

7. Dual protective filter
   - For the endophotocoagulation delivery unit, the optional dual protective filter allows an assistant to safely observe the operation.

8. Carriage
   - Portable for remote use
Quiet Photocoagulator
The new technologies - DWC and IFC functions - reduce noise during
coagulation:

DWC (Digital Wave Control) Function:
The DWC function reduces the mechanical noise, as the
OPEN/CLOSE movement of the internal shutter is no longer
necessary. The GYC-1000 controls the laser wave by digital signal
from the CPU.

IFC (Intelligent Fan Control) Function:
The CPU periodically monitors the internal temperature, and reduces
noise by controlling the ON/OFF of the cooling fan. In addition,
the GYC-1000 incorporates a less noisy fan so the system is quiet
even when the fan is working.
Noise Difference:
(Increase from room noise)
Former GYC 16.7 db
GYC-1000 1.6 db

Detachable Control Panel
The GYC-1000’s compact control panel is connected by a cord,
and can be detached from the main body of the unit.
The luminescent digital display with optimal back light provides
easier operation in a dark room.
With a slit lamp delivery unit,
the spot size indication on the control panel enables setting
and confirmation all at once.

True Continuous Wave (CW)
The GYC-1000’s solid state laser is a true continuous wave
(CW), not a pulsed laser. CW laser delivery assures predictable
treatment results by eliminating the potential risks associated
with pulsed laser systems.

532 nm Green Laser
Efficient, safe photocoagulation is a hallmark of the GYC-1000.
The 532 nm laser beam passes through the ocular media with
low attenuation to minimize power loss.
- Higher absorption by the pigment epitheliopathy, hemoglobin, and oxidized hemoglobin
- Lower absorption by the xanthophyll pigment

Treatment with Precision
Exposure time of conventional lasers can be adjusted in 0.10
second increments, from 0.10 to 1.00 second.
The GYC-1000’s exposure time can be adjusted in 0.05 second
increments from 0.10 to 0.50 second, which is widely used
range for photocoagulation. The finer adjustments provide more
precise treatment for patients.
Exposure time
0.01 to 0.10 s (0.01 s increment)
0.10 to 0.50 s (0.05 s increment)
0.50 to 1.00 s (0.10 s increment)
1.00 to 3.00 s (1.00 s increment)

Safety Features
The GYC-1000 has a variety of safety features: it is equipped
with a filter that reduces the power of the reflected green laser to 1/10° or less;
the error indicator function displays the nature of the error encountered
on the time display of the control panel; the system
conducts a self-diagnosis to monitor the system condition;
and more.
## GYC-1000 Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment laser</td>
<td>Frequency-doubled diode pumped solid state laser</td>
</tr>
<tr>
<td>Wavelength</td>
<td>532 nm</td>
</tr>
<tr>
<td>Output power</td>
<td>50 to 1700 mW</td>
</tr>
<tr>
<td>Output type</td>
<td>Continuous wave</td>
</tr>
<tr>
<td>Exposure time</td>
<td>0.01 to 3.00 seconds</td>
</tr>
<tr>
<td>Interval time</td>
<td>0.1 to 1.0 second</td>
</tr>
<tr>
<td>Aiming laser</td>
<td>Red diode, 635 nm, max. 0.2 to 0.4 mW</td>
</tr>
<tr>
<td>Power supply</td>
<td>AC 100 to 240 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>200 VA</td>
</tr>
<tr>
<td>Dimensions / Mass</td>
<td>215(W) x 280(D) x 90(H) mm / 6.7 kg, 8.5(W) x 11.0(D) x 3.5(H)* / 14.8 lbs.</td>
</tr>
<tr>
<td>Optional delivery</td>
<td>Slit lamp delivery (NIDEK), Attachable delivery (NIDEK, ZEISS, HAAG STREIT, etc.), BIO delivery, MIO delivery, Endophotocoagulation delivery</td>
</tr>
</tbody>
</table>

Caution: U.S. Federal Law restricts this device to sale, distribution, and use by or on the order of a physician or other licensed eye care practitioner. Specifications may vary depending on circumstances in each country. Specifications and design are subject to change without notice.