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

The World’s Smallest Green Laser on the Market
The compact (W215 x D280 x H90 mm) and lightweight (6.7kg / 14.8lbs) console offers maximum operational flexibility and treatment versatility - from the office to the O.R.

Ergonomically easy to handle.

Lowest Power Requirement
The new technology - ITC (Intelligent Thermo Control) function - reduces the power requirement, 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.
Quietest Photocoagulator in the Market

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: 16.7db
GYC-1000: 1.6db

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.

**532nm Green Laser**
Efficient, safe photocoagulation is a hallmark of the GYC-1000. The 532nm 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 seconds. The GYC-1000’s exposure time can be adjusted in 0.05 second increments from 0.10 to 0.50 seconds, which is the most widely used range for photocoagulation. The finer adjustments provide more precise treatment for patients.

**Exposure time**
- 0.01-0.10s (0.01s increment)
- 0.10-0.50s (0.05s increment)
- 0.50-1.00s (0.10s increment)
- 1.00-3.00s (1.00s 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 1/104 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.
1. Slit lamp delivery unit

NIDEK slit lamp delivery unit
(NIDEK SL-1800 type)
Spot size: 50-500 μm continuously variable
Protective filter unit (motorized / manual)

2. Attachable slit lamp delivery unit

Attachable to your existing slit lamp
ZEISS attachable slit lamp
(attachable to ZEISS 30SL/M, 125/16)
Spot size: 50-500 μm continuously variable
Protective filter unit 30SL/M
(motorized/manual) 125/16 (manual)

3. Endophotocoagulation delivery unit

Spot size: 400 μm (tip of probe)
Endophoto probe (5pcs)

4. Combination delivery unit

Attachable to NIDEK OPHTALMIC YAG LASER YC-1300/1400/1600

5. Binocular indirect ophthalmoscope delivery unit

Adjustable working distance allows effective photocoagulation at the most favorable distance.

Keeler All Pupil II
Spot size: 185 (WD300)-556 (WD700) μm
(variable according to the working distance)

HEINE OMEGA 180 type
Spot size: 180 (WD300)-520 (WD700) μm
(variable according to the working distance)

6. Monocular indirect ophthalmoscope delivery unit

NEITZ BS-II type
Spot size: 262 (WD300)-752 (WD700) μm
(variable according to the working distance)

Lightweight with bright, clear illumination.
**Bracket / Extension Table for Integration with a Slit Lamp**
The extension table or bracket can be used to integrate the GYC-1000 with a slit lamp for space saving and better operability.

**Coaxial illumination probe (Endophoto probe with the coaxial illumination)**
The coaxial illumination probe enables one-hand operation by performing photocoagulation and providing lighting at the same time.

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

**Carriage Handle**
Portable for remote use.

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**Safety Goggles**
For assistants, safety goggles reduce the reflected beam's power to 1/10^4 or less for their eye protection. (Note: Do not look directly at the emitted beam).

**Integration with the NIDEK Phacoemulsification System CV-24000 (Optional)**
The GYC-1000 can be integrated into the NIDEK CV-24000 using the special bracket (optional). This integration can eliminate problems such as the lack of hygiene and difficulties at the time of installation / connection. The endophoto probes can connect to the GYC-1000, contributing to space saving, easy setup and simple system operation.

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**GYC-1000**
Optional Accessories
### GYC-1000 Specifications

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td><strong>Treatment Laser</strong></td>
<td>Frequency-Doubled Diode Pumped Solid State Laser</td>
</tr>
<tr>
<td><strong>Wavelength</strong></td>
<td>Green: 532nm</td>
</tr>
<tr>
<td><strong>Output power</strong></td>
<td>Green: 50-1700mW</td>
</tr>
<tr>
<td><strong>Output type</strong></td>
<td>Continuous Wave</td>
</tr>
<tr>
<td><strong>Exposure times</strong></td>
<td>0.01-3.00 seconds</td>
</tr>
<tr>
<td><strong>Automation repeat</strong></td>
<td>0.1-1.0 seconds intervals</td>
</tr>
<tr>
<td><strong>Aiming laser</strong></td>
<td>Red Diode</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>90-264 Vac, 50/60Hz, 200VA</td>
</tr>
<tr>
<td><strong>Dimension/Weight</strong></td>
<td>215 (W) x 280 (D) x 90 (H)mm / 6.7kg</td>
</tr>
<tr>
<td></td>
<td>8.46(W) x 11.0(D) x 3.5(H)&quot; / 14.8lbs</td>
</tr>
<tr>
<td><strong>Optional Delivery</strong></td>
<td>Sill Lamp Delivery (Nidek, Zeiss, Haag Streit, etc.)</td>
</tr>
<tr>
<td></td>
<td>BIO Delivery, MIO Delivery</td>
</tr>
<tr>
<td></td>
<td>Endophotocoagulation Delivery</td>
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</tbody>
</table>

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**LASER RADIATION**

Avoid exposure to direct or scattered radiation. Risk of explosion if used in the presence of flammable anesthetics. Follow the manufacturer’s instructions for use. Use caution when handling a laser product. Do not remove cover. Do not aim the laser beam at eyes, skin, or objects. Keep work area clean and uncluttered. Do not allow the laser beam to strike or scatter off reflective surfaces. Do not use or store laser equipment in an environment with water or other liquids. Do not use or store laser equipment in an environment with flammable anesthetics. Do not use or store laser equipment in an environment with explosive materials. Do not use or store laser equipment in an environment with ignition sources. Do not use or store laser equipment in an environment with electrical equipment. Do not use or store laser equipment in an environment with magnetic materials. Do not use or store laser equipment in an environment with metal-halide lamps. Do not use or store laser equipment in an environment with radioactive materials. Do not use or store laser equipment in an environment with accelerators. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. For more information, contact the manufacturer. 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