The Small, Incredibly Versatile Green Laser Photocoagulator

The GYC-500 Vixi / GYC-500 is a solid state green laser that achieves stable treatment outcomes for multiple applications including, retinal photocoagulation, trabeculoplasty and iridotomy.

The user-friendly features include a compact and lightweight design, and a wide range of delivery options allowing versatility for in-office use and the surgical suite.
User Friendly

- Lightweight and Compact Design
This multifunction laser is housed in a small console. The space-saving design allows portability to virtually any room.

- 5.7-inch Color LCD with Touchscreen Control Box
An intuitive graphic user interface and easy-to-read touch screen color LCD allows quick and easy setup and verification of the scan pattern and treatment parameters.

Pop-up Window
The pop-up window appears once the displayed value, such as POWER, TIME, and INT is selected. The surgeon can easily make changes to these laser values.

Stored Photocoagulation Data
For flexibility in treating different types of clinical cases, 10 sets of photocoagulation data (power output, emission time, interval time, scan pattern and spacing) can be stored. Each set can be quickly retrieved with one-touch operation.

Registration of Contact Lens Magnification
Up to 5 contact lens magnifications can be registered. Confirmation of actual spot size on the retinal surface is easily performed by selecting the registered contact lens.

Treatment Summary
Photocoagulation data can be displayed in one screen for review and output in XML format for saving the treatment.

- Keycard
The SD card is used as a key to start the unit. It enables software upgrades and saves a summary of the treatments.

- 3-D Mouse (optional)
The 3-D mouse allows intuitive operation for changing parameters. Up to 10 parameters can be preset with the 3-D mouse.
Superior Performance

- **Stable and Reliable Green Laser**
  The GYC-500 Vixi / GYC-500 ensures stable laser output by using a solid state laser. Two cooling fans in the console maintain the correct internal temperature. The maximum room temperature during use is 35°C (95°F) which is within the range to treat retinopathy of prematurity cases which requires ambient room to be approximately 30°C (86°F).

- **SOLIC  (Safety Optics with Low Impact on Cornea)**
  The SOLIC optical design is incorporated into all delivery units, ensuring low energy density on the cornea and lens, even for large spot sizes.

- **Optimal Design of Optical Axis**
  The optical axes for observation and the laser are coaxially aligned. Coaxial alignment results in precise laser delivery, increasing safety and maximizing treatment effect.

- **Protective Filter**
  A fixed protective filter for the GYC-500 reduces the risks of backscatter laser irradiation maximizing surgeon safety during treatment. A special coating on the filter ensures that the surgeon’s view of the fundus is completely clear during examination and photocoagulation.
Incorporating Vixi, scan delivery units, into the GYC-500 enables laser treatments with various scan patterns. The GYC-500 Vixi enhances treatment efficiency and reduces patient chair time.

### Multiple Scan Patterns

The GYC-500 Vixi has 22 preprogrammed scan patterns to allow treatment of varying retinal pathologies.

- **Square** (2x2, 3x3, 4x4, 5x5)
- **Equal space** *(2x2, 3x3, 4x4, 5x5)*
- **Rectangle**

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### Auto Forward

Once photocoagulation is completed in one region, the GYC-500 Vixi allows automated advancement to the next region for delivery of the next scan pattern during photocoagulation. This feature allows the surgeon to concentrate on focus adjustment.

The repeat mode with the auto forward function enables consecutive regions to undergo photocoagulation on a selected path without repeatedly pressing the foot switch.

*The auto forward function is available for the equal space (2x2, 3x3, 4x4) and the square (2x2, 3x3, 4x4) patterns. The number of times auto-forwarding can occur differs depending on the scan pattern, spot size, and spacing.*
Wide Range of Selectable Delivery Units

In addition to conventional single delivery units, the scan delivery units are added to the wide range of green laser delivery systems. Both the scan and single delivery units include attachable models* for the NIDEK SL-1800, ZEISS SL-130 and 305SL/M, and HAAG 900BQ, which provide the existing slit lamps with a new stage for scan and single laser treatment.

*Prior confirmation of attachment to an existing slit lamp model is required.

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**Scan Delivery Units**
(GYC-500 V-xx)

- Scan slit lamp delivery unit (NIDEK SL-1800)
- Scan attachable delivery unit (NIDEK SL-1800)
- Scan attachable delivery unit (ZEISS SL-130, 305SL/M)
- Scan attachable delivery unit (HAAG 900BQ)

**Single Delivery Units**
(GYC-500)

- SR1 lamp delivery unit (NIDEK SL-1800)
- Attachable delivery unit (NIDEK SL-1800)
- Attachable delivery unit (ZEISS SL-130, 305SL/M)
- Attachable delivery unit (HAAG 900BQ)

- BIO delivery unit (Keeler AllPupil II)
- BIO delivery unit (HEINE OMEGA 500)
- YAG laser combination delivery unit (NIDEK YC-1800)
- Endophotoocoagulation delivery unit (ZEISS, LEICA)

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**Dual Delivery Port***

The dual delivery unit connectors enable simultaneous connection with two delivery units, such as slit lamp delivery and BIO delivery units. They eliminate the inconvenience of connecting and disconnecting units and provide easy cable management.

*The dual delivery port is available for the dual delivery model.

**Automated Recognition of Connected Delivery***

The GYC-500 Vixi / GYC-500 automatically recognizes the types of connected delivery unit and changes the setting according to the delivery unit. This can be visually confirmed on the control box.
**Main Body Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatment laser</td>
<td>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 (Except for scan delivery) / 50 to 1500 mW (Scan delivery)</td>
</tr>
<tr>
<td>Output type</td>
<td>Continuous wave, Pulse 0.01 to 0.2 second</td>
</tr>
<tr>
<td>Exposure time</td>
<td>0.01 to 3.00 seconds</td>
</tr>
<tr>
<td>Interval time</td>
<td>0.05 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>250 VA</td>
</tr>
<tr>
<td>Dimensions / Mass</td>
<td></td>
</tr>
<tr>
<td>237 (W) x 318 (D) x 90 (H) mm / 6.2 kg *1</td>
<td></td>
</tr>
<tr>
<td>9.3 (W) x 12.5 (D) x 3.5 (H) / 13.7 lbs *1</td>
<td></td>
</tr>
<tr>
<td>Optional accessories</td>
<td>Power foot switch, Dual unit, Expansion box, CB top plate attachment unit, Safety goggles, 3D mouse, Barcode scanner, Magnetic card reader</td>
</tr>
</tbody>
</table>

*1 276 (W) x 318 (D) x 90 (H) mm / 7.15 kg, 10.9 (W) x 12.5 (D) x 3.5 (H) / 15.8 lbs. with the expansion box, which is an optional accessory to connect the scan delivery unit to the main body.

**Scan / Single Delivery Unit Specifications**

<table>
<thead>
<tr>
<th>Model</th>
<th>Scan delivery unit (GYC-500 Vixi)</th>
<th>Single delivery unit (GYC-500)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot size</td>
<td>100 to 500 μm (scan mode &amp; auto manipulation mode)</td>
<td>50 to 1000 μm (slit lamp &amp; attachable deliveries)</td>
</tr>
<tr>
<td>Emission pattern</td>
<td>Single (2x2, 3x3, 4x4, 5x5), Equal space (2x2, 3x3, 4x4, 5x5)*2, Rectangle, Circle, Arc, Curve, Line</td>
<td>Single</td>
</tr>
<tr>
<td>Type</td>
<td>Scan slit lamp delivery unit (NIDEK SL-1800)</td>
<td>Silt lamp delivery unit (NIDEK SL-1800)</td>
</tr>
<tr>
<td>Dimensions / Mass</td>
<td>760 (W) x 450 (D) x 1300 to 1500 (H) mm / approximately 45 kg *3</td>
<td>760 (W) x 450 (D) x 1290 to 1490 (H) mm / approximately 45kg *3</td>
</tr>
</tbody>
</table>

*2 For equal space patterns, No. x No. indicates the number of spots in horizontal and vertical directions.

*3 The dimensions and mass differ depending on delivery types.

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**DANGER**

LASER RADIATION – AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

& 532nm, CW Pulse Output: 2kHz, 10kHz max.
& 632nm, CW, <1mW max.
CLASS IV LASER PRODUCT

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Product / Model name: Green Laser Photocoagulator GYC-500

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.

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