

## Rigel HV Portable Yellow Laser Module



### Series Specifications:

Nominal Wavelength	589 nm
Output Type	Pulsed (720 Hz)
Laser Source Type	DPSS

### Overview:

The new 589 nm bright yellow pointer from Laserglow is noticeably brighter and more "yellow" than the original 593.5 nm Rigel series yellow lasers. (The regular Rigel is often described as "amber-yellow".) This wavelength is closer to the middle of the spectrum, making it brighter to the human eye and more suitable for presentations on bright projection screens or long-range pointing applications. This is really the brightest and "yellowest" yellow pointer on the market!

### Key Features:

- **Starting at: \$689**
- **Output Power:** 2.0 mW - 4.9 mW, varies based upon model
- **Expected Life:** 3000-5000 hours
- **Wavelength:** 589 nm (yellow)
- **Key Feature:** The brightest yellow laser on the market!
- **Casing:** Solid Brass
- **Package Includes:** Portable laser, aluminum carrying case, instructions/warranty.
- **Safety Info:** Models below 5 mW comply with Class IIIa regulations.
- **Duty Cycle:** 30 sec. on/15 sec. off

## Specifications:

This spec sheet has been generated specifically for part number GRH-GAP, per your request, and data for the entire series is also displayed for your reference. The specs which are specific to GRH-GAP have been highlighted below in **red + bold**.

Laser Form Factor	<b>GAP</b>
Output Power (mW)	<b>&lt;2, &lt;5</b>
FDA Safety Class	<b>IIIa</b>
Central Wavelength (nm)	<b>588.6</b>
Divergence (mrad, full angle)	<b>&lt;1.5</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	<b>1.5</b>
Transverse Mode	<b>TEM00</b>
Longitudinal Modes	<b>Multiple</b>
Operating Temperature Range (°C)	<b>15 to 35</b>
Storage Temperature Range (°C)	<b>-10 to 50</b>
Total Power Consumption (W)	<b>2</b>
Max. Power Input Duty Cycle	<b>30 sec. on/15 sec. off</b>
Cooling Method	<b>Passive Air</b>
Standard Warranty (months)	<b>6</b>
MTTF (operational hours)	<b>5000</b>
Weight of Product or Laser Head (kg)	<b>0.1</b>
Dimensions of Product or Laser Head (mm)	<b>150 (l) x 16.5 (d)</b>
Power Supply	<b>1 x CR2 Battery</b>

CW: All specifications are based on performance at full output power and after the specified warmup period. Output characteristics may change if the laser is run at a different power level.

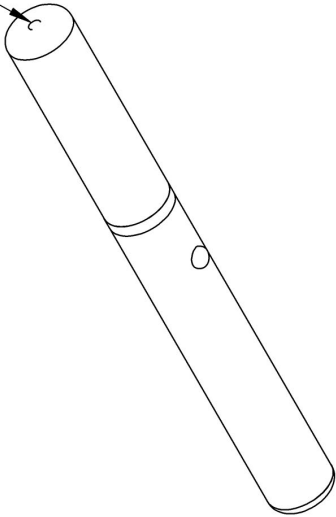
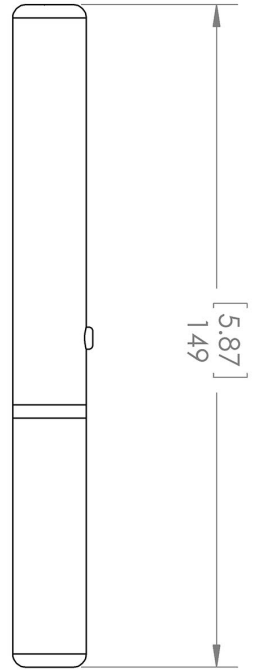
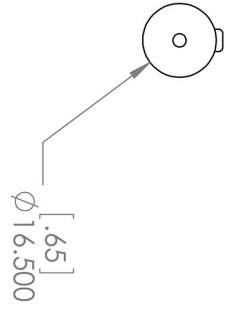
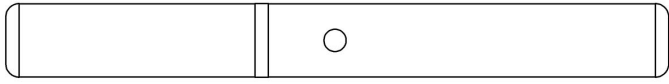
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

## Regulatory Classification:

The model you have selected (GRH-GAP) requires the following safety label(s):



Dimensional Drawing - Laser Form Factor: GAP:



Aperture

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN MM(INCH)  
TOLERANCES: +/- 0.75 MM

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Laserglow Technologies



TITLE:  
**Aquarius /  
Rigel HV /  
Electra / Hydra**  
REV  
**1**

SCALE: 2:3

SHEET 1 OF 1

**Accessories:**

The most popular accessories for model GRH-GAP are shown below. For additional details regarding these or other accessories please see our website or contact us directly.

Part Number	Description	
 AGF59459X	Optical Density 6 Fit over prescription glasses Protect your vision when working with Class IIIb and Class IV green lasers. Full Details: <a href="http://www.laserglow.com/AGF">www.laserglow.com/AGF</a>	
 ACAGAQ1XX	Carrying Case-7 Aquarius/Electra/Rigel HV/Hydra Full Details: <a href="http://www.laserglow.com/ACA">www.laserglow.com/ACA</a>	Included With Laser

**FOR MORE INFORMATION PLEASE CONTACT:**

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E&OE: Data included in this sheet may be subject to change without notice.

Please confirm critical specifications with our staff prior to ordering.