

## Scorpius D Pro Portable Infrared Laser Module



### Series Specifications:

Nominal Wavelength	808 nm
Output Type	CW
Laser Source Type	Diode

### Overview:

The Scorpius-D Pro Series, a portable diode laser emitting at 808 nm, produces a completely invisible laser beam. Extreme caution must be used when operating any infrared laser as the human eye will not detect it. Laser safety goggles are included with each Scorpius Series laser. The Scorpius-D Pro Series is available at up to >2.0 W, much greater output power levels than those available in visible-wavelength portable lasers. In addition the price per milliwatt of output power is a fraction of the cost of visible lasers. Ideal for IR laser experimentation such as building a 532 nm laser using Nd:YVO4 and KTP crystals to produce green laser light at 532 nm.

Laserglow's Scorpius-D Pro Series IR portable lasers are individually tested using a laser power meter for a 20-minute continuous period to ensure sustained performance. This test is done at least 3 times before being shipped to the customer.

### Key Features:

- **Starting at: \$1889**
- **Output Power:** >2.0 W
- **Key Feature:** The most powerful portable laser available anywhere!
- **Wavelength:** 808 nm (Infrared)
- **Casing:** Hard Anodized Machined Aluminum
- **Package Includes:** Portable laser, laser safety goggles, aluminum framed carrying case, instructions/warranty.
- **Warranty:** 6 Month Standard/12 Month Extended
- **Safety Info:** Class IV
- **Duty Cycle:** 100%

**U.S. Orders:** This laser cannot be shipped to the United States. If you live in the USA please consider the [808 nm laboratory laser](#), which provides similar output but is not portable. [Click here for more information.](#)

**Canadian Orders:** This laser can be shipped within Canada to Canadian companies who provide the following documentation:

- A valid LSO Certificate with a certified Laser Safety Officer on the premises
- A company purchase order
- A signed Declaration of Use. Please contact our sales department for this form

## Specifications:

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

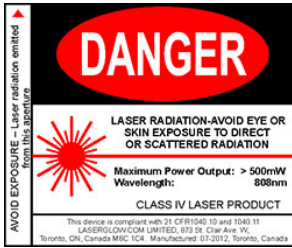
Laser Form Factor	<b>GSS</b>
Output Power (W)	<b>&gt;2</b>
FDA Safety Class	<b>IV</b>
Central Wavelength (nm)	<b>808</b>
Divergence (mrad, full angle)	<b>&lt;4</b>
Beam Dimensions (mm, 1/e <sup>2</sup> )	<b>6x6</b>
Transverse Mode	<b>Multimode</b>
Longitudinal Modes	<b>Multiple</b>
Approximate Peak Power (W)	<b>2300</b>
Operating Temperature Range (°C)	<b>15 to 35</b>
Storage Temperature Range (°C)	<b>-10 to 50</b>
Max. TTL Modulation Freq. (Hz)	<b>200</b>
Modulation Input Signal	<b>0-5 VDC</b>
Total Power Consumption (W)	<b>10</b>
Max. Power Input Duty Cycle	<b>100%</b>
Cooling Method	<b>TEC/Forced Air</b>
Standard Warranty (months)	<b>6</b>
MTTF (operational hours)	<b>5000</b>
Weight of Product or Laser Head (kg)	<b>0.82</b>
Dimensions of Product or Laser Head (mm)	<b>366 (l) x 54 (d)</b>
Power Supply	<b>3 x D Batteries</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.

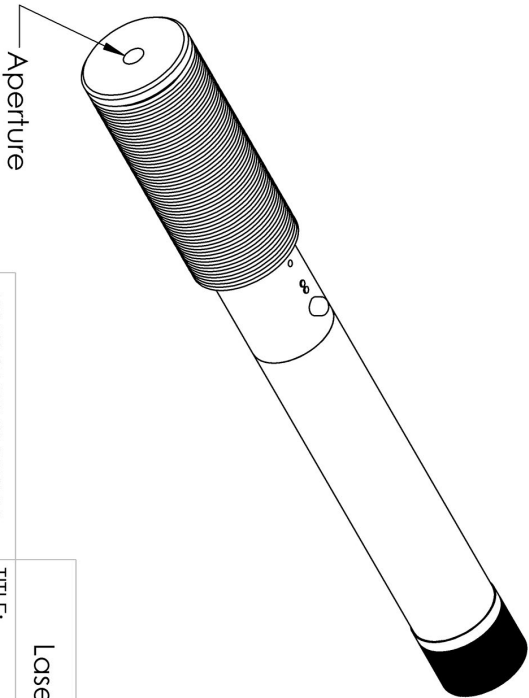
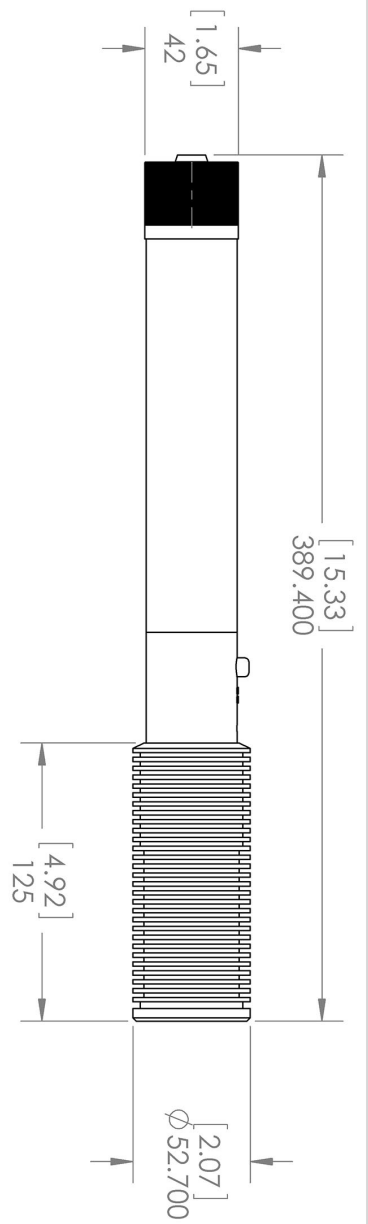
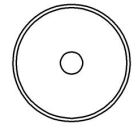
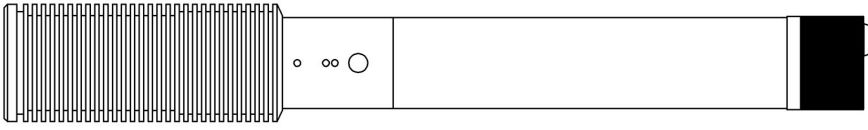
Q-Switched: Specifications are based on the laser pulsing at the specified design frequency. Output characteristics may change if the laser is run at a different frequency.

## Regulatory Classification:

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



**Dimensional Drawing - Laser Form Factor: GSS:**



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






TITLE: <b>Scorpius-D Pro</b>	
SCALE: 1:3	SHEET 1 OF 1

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## Accessories:

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

Part Number	Description	
 ACAGHE1XX	Carrying Case-1 Hercules/Scorp Pro/Scorp-D Pro/VegaHV - STD Full Details: <a href="http://www.laserglow.com/ACA">www.laserglow.com/ACA</a>	Included With Laser
 AGF80859X	LSG-808-NF-6 Fit-Over Safety Goggles 808nm Output: OD 6+ at 800-818 nm CE Certified Full Details: <a href="http://www.laserglow.com/AGF">www.laserglow.com/AGF</a>	Included With Laser
 AGM00HXXX	Hercules GlowMount Tripod Adaptor Full Details: <a href="http://www.laserglow.com/AGM">www.laserglow.com/AGM</a>	
 AHA005XXX	Hercules 5.0A AC Power Adaptor Full Details: <a href="http://www.laserglow.com/AHA">www.laserglow.com/AHA</a>	
 ASE001XXX	Engraving On Laser Pointer Max. 2 lines 45 characters each Full Details: <a href="http://www.laserglow.com/ASE">www.laserglow.com/ASE</a>	

## 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.