vi30 CO₂ Laser

Industry leading laser with more than 30 Watts of average power for marking, engraving, and ablating applications

Next gen high performance CO2 laser engineered for seamless integration into high-speed industrial equipment

- Gen2 tube design provides excellent thermal management to deliver stable, high power output and crisp beam quality for precise processing
- Fast rise/fall times enable high speed engraving, marking, and coding applications for high-volume manufacturers and processors
- 30W continuous power for faster throughput
- Industry best maximum operating environment temperature ensures reliable operation in a wide range of conditions
- Compact, lightest 30W CO₂ laser available, easily fits into tight spaces and onto weight sensitive systems



Gen2 Tube Design

The vi30 architecture features the new Gen2 tube design for lower thermal resistance to deliver more power from a compact package. The vi30's stable, accurate beam creates detailed application results, and ensures proper marking depth without external correction optics. Throughput speed has also been improved with fast rise/fall times, especially useful in high-speed, high-volume coding applications.



Specifications

μm) W		
•		
) W		
<1.2		
Linear (Horizontal)		
<100 µs		
48 VDC		
10 A		
500 W		
45° C		
140 CFM, 2 required (air)		
15 - 40° C		
95%, non-condensing		
427 x 89 x 139 (16.8 x 3.5 x 5.5)		
6.5 (14.3)		

- ${\it 1}$ Power level guaranteed for ${\it 1}$ year from date of shipment, regardless of operation hours, within recommended coolant flow rate and temperature range.
- 2 Measured from cold start as $\pm (P_{max}-P_{min})/(P_{max}+P_{min})$
- 3 Measured 1/e² diameter at laser output.

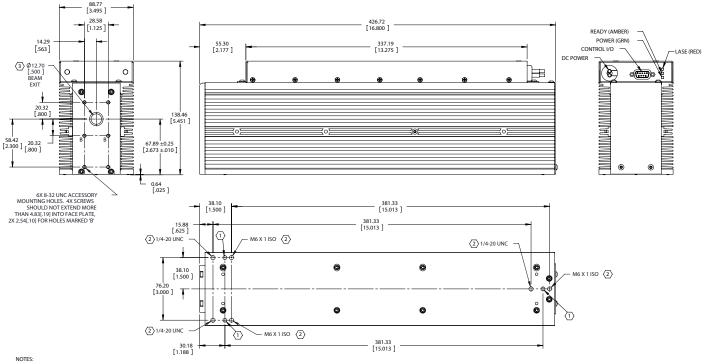




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Outline and Mounting Illustrations dimensions are in mm (inches)

Outline and mounting drawings for tall, wide, and water-cooled models are available on the Synrad website at: https://www.synrad.com/products/lasers/vi-series.



- 1 HARDENED BALL MOUNTING POINT, 3X (Ø.1875 BALL BEARING).
- THIS MOUNTING HOLE PATTERN USED FOR BOTTOM ACCESS FASTENING
- (3) BEAM PATH MAY NOT BE CENTERED OR PERPENDICULAR TO FACE PLATE APERTURE.

Recommended Applications



100 kHz pulse frequency for accurate raster image scanning at high speeds.



Powerful, accurate laser output that can be used on a wide variety of materials.



Small footprint, light weight, and high resolution imagery engineered to fit a wide variety of automated manufacturing systems.

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