

v30 CO₂ LASER - DATA SHEET

Industry Leading Laser more than 30 Watts of average power for marking, engraving, and ablating applications

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

- Advanced waveguide design guarantees exceptionally circular beam quality in both near- and far-fields
- 30 Watts continuous power ensures high throughput
- Optimized for your application: available in multiple wavelengths and air, fan, or water cooled options
- Common beam exits with Synrad vi- and ti-Series lasers enables an easy upgrade path as application of throughput demands increase
- Small footprint and light weight, ideal for small cutting or marking systems
- On-board tickle generator, industry standard 5-24 VDC I/O ports and remote control status via a 15-pin connector makes integration quick and straight-forward





THE MARKING & CODING INDUSTRY STANDARD

An industry proven performer for more than 15 years, OEMs and system integrators have used the v30 as their standard 30 Watt CO₂ laser for their marking and engraving systems. Reliable year after year operation, consistent high quality beam, compact size, and unique 3-point mounting system make the v30 the perfect fit for marking and engraving systems.

RECOMMENDED APPLICATIONS



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



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



Stable operation over a wide range of settings enables precise control of material removal, allowing consistent ablation depth or detailed 3D engraving.

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v30 CO₂ LASER - SPECIFICATIONS 加加光学 电话: 0755-84870203 网址: www.highlightoptics.com

Output Specifications				
Wavelength	9.3 µm	10.2 µm	10.6 µm	
Output Power ¹	>20 W	>25 W	>30 W	
Power Stability (typical, after 3 min.)	<u>+</u> 5%	+_3%		
Power Stability (cold start) ²	<u>+</u> 7%	<u>+</u> 7% <u>+</u> 5%		
Beam Quality (M ²⁾	<u><1.2</u>			
Beam Diameter ³	2.5 mm <u>+</u> 0.5 mm			
Divergence (full angle)	<7.0 mrad			
Ellipticity	<1.2			
Polarization	Linear (Horizontal)			
Rise Time	<100 µs			
Operating Frequency	0 - 100 kHz			
Power Supply				
DC Input Voltage	30 VDC			
Maximum Current	20 A			
Cooling				
Maximum Heat Load	600 W			
Coolant Temperature	<40° C (air), 18 - 22° C (water)			
Minimum Flow Rate	140 CFM, 2 required (air) 1.0 GPM, <60 PSI (water)			
Environmental				
Operating Ambient Temperatures	15 - 40° C			
Maximum Humidity	95	95%, non-condensing		
Physical	OEM Air	Fan	Water	
Dimensions (L) mm (inches)	427 (16.8)	427 (16.8)	433 (17.1)	
Dimensions (W) mm (inches)	116 (4.6)	119 (4.7)	116 (4.6)	
Dimensions (H) mm (inches)	146 (5.8)	160 (6.3)	148 (5.8)	
Weight kg (lbs.)	8.2 (18)	9.7 (21)	8.7 (19)	

1 - Power level guaranteed for 1 year from date of shipment, regardless of operation hours, within recommended coolant flow rate and temperature range.

2 - Measured from cold start as 3(Pmax-Pmin)/(Pmax+Pmin)

3 - Measured 1/e2 diameter at laser output.

Please see the manual for the full list of specifications and associated measurement conditions.

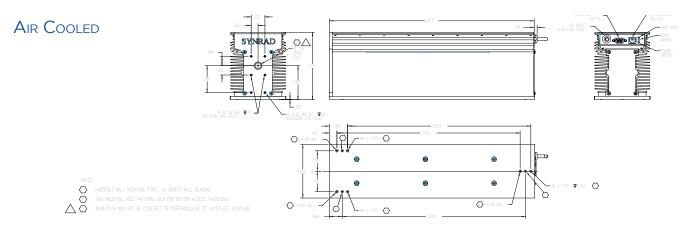


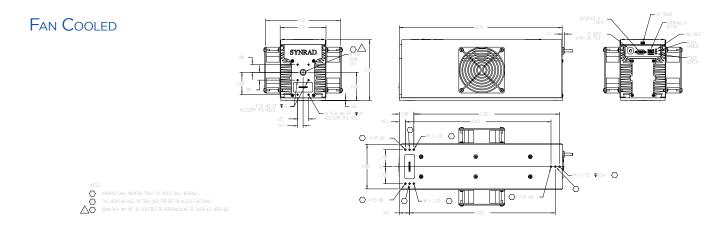


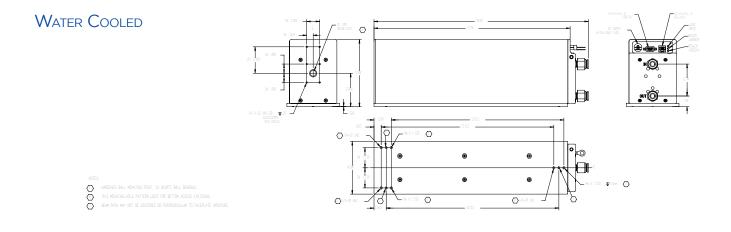
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v30 CO₂ LASER - Outline and Mounting Illustrations

dimensions are in mm (inches)







CONTACT US



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