

CO₂ LASERS

Air & Water-Cooled

ULR-10

FEATURES

- The most compact 10-watt CO₂ laser
- Air and water-cooled options
- Integrated RF supply
- Temperature warning output
- Temperature cutoff to prevent damage to laser
- Fault indicator LED
- Low profile mounting plate
- Excellent power stability
- Quiet operation
- Ability to retrofit to current 10-watt CO₂ installations
- Manufactured with proven ULS technology
- Class IV configurations available
- RoHS compliant



LASER SPECIFICATIONS*

Rated Power**	10 W
Wavelength	10.6µm
Power Stability	±15% after 15 minutes of CW operation
M ²	1.3 ± 0.2
Beam Size (Near Field) [†]	4 ± 1mm
Beam Divergence (Full Angle)	5 ± 1 mrad
Polarization	Linear
Pointing Stability	200 µrad
Optical Pulse Rise or Fall Time	120 ± 40 µs
Optical Delay Time	38 ± 10 µs
Optical Modulation	100% up to 5KHz
Modulation Signal Type	0-5 VDC

LASER SPECIFICATIONS*

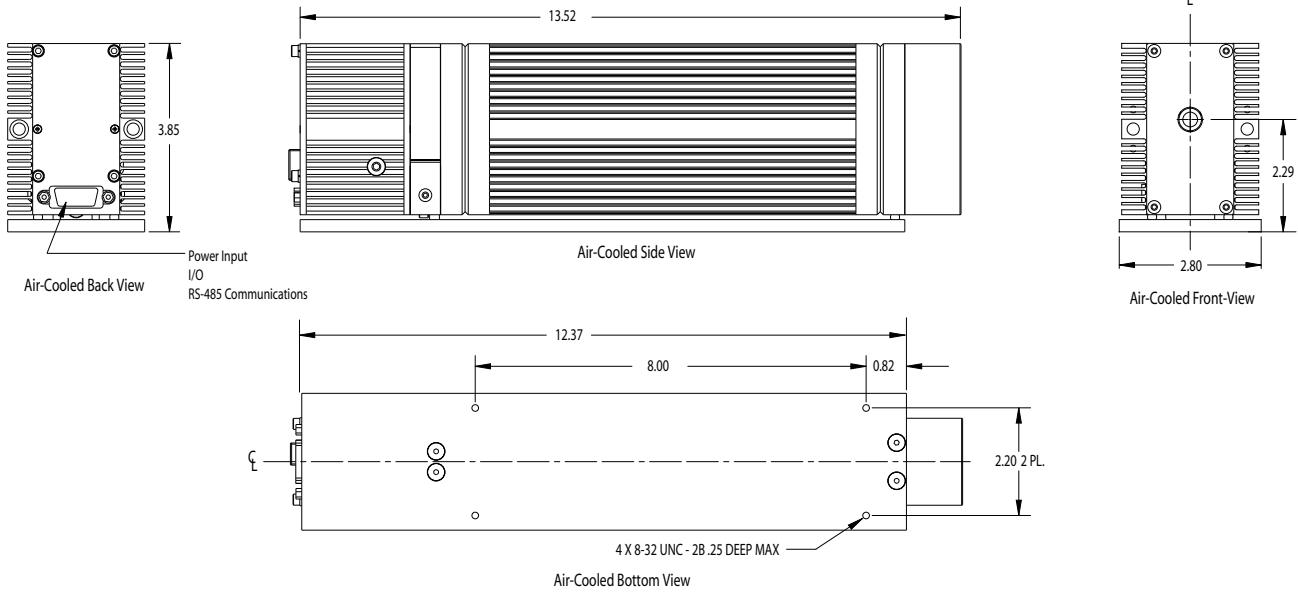
Cooling	Integrated Air/Water
Weight	8.6 lbs (3.9 kg) - Class IV
	7.25 lbs (3.3 kg) - OEM
Dimensions	see rear panel
<i>Environmental</i>	
Ambient Temperature ^{††}	50-95°F (10-35°C)
Relative Humidity	<90% (non-condensing)
<i>Power Requirements</i>	
DC Input Voltage	48 VDC
RMS Current (CW, with fan)	5 A

* These specifications are subject to change without notice. ** Output power is guaranteed to exceed this level for the duration of ULS warranty regardless of use. † Near field approximately 150mm from output coupler. †† At temperatures below 50°F [10°C] operation may be intermittent and there is a potential for damage to the power supply and optics.

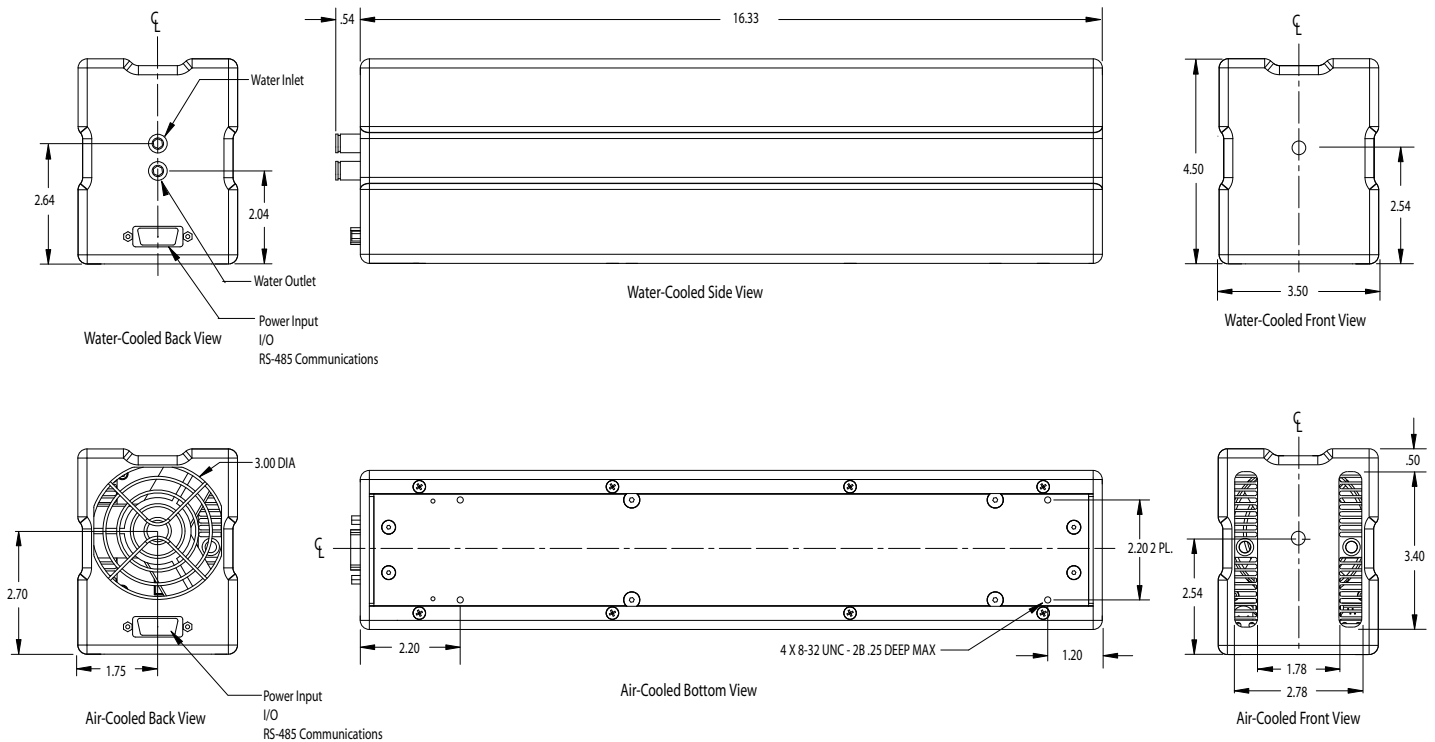
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≡ BASIC CONFIGURATION (AIR OR WATER-COOLED)



≡ CLASS IV CONFIGURATION (AIR OR WATER-COOLED)



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