

# CO<sub>2</sub> LASERS

Air & Water-Cooled

# ULR-40

## FEATURES

- 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 40-watt CO<sub>2</sub> installations
- Manufactured with proven ULS technology
- Class IV configurations available
- RoHS compliant



## LASER SPECIFICATIONS\*

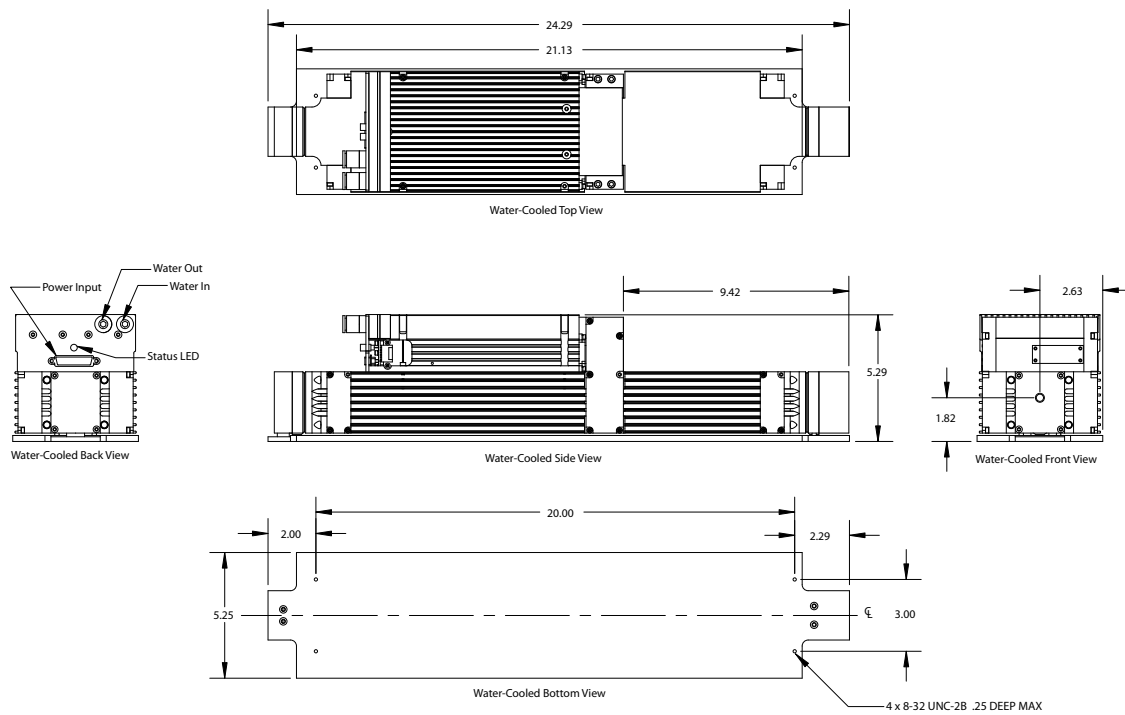
Rated Power**	40 W
Wavelength	10.6 $\mu$ m
Power Stability	$\pm 5\%$ after 15 minutes of CW operation
M <sup>2</sup>	1.3 $\pm$ 0.2
Beam Size (Near Field) <sup>†</sup>	4 $\pm$ 1mm
Beam Divergence (Full Angle)	5 $\pm$ 1 mrad
Polarization	Linear
Pointing Stability	200 $\mu$ rad
Optical Pulse Rise or Fall Time	120 $\pm$ 40 $\mu$ s
Optical Delay Time	38 $\pm$ 10 $\mu$ s
Optical Modulation	100% up to 5KHz
Modulation Signal Type	0-5 VDC

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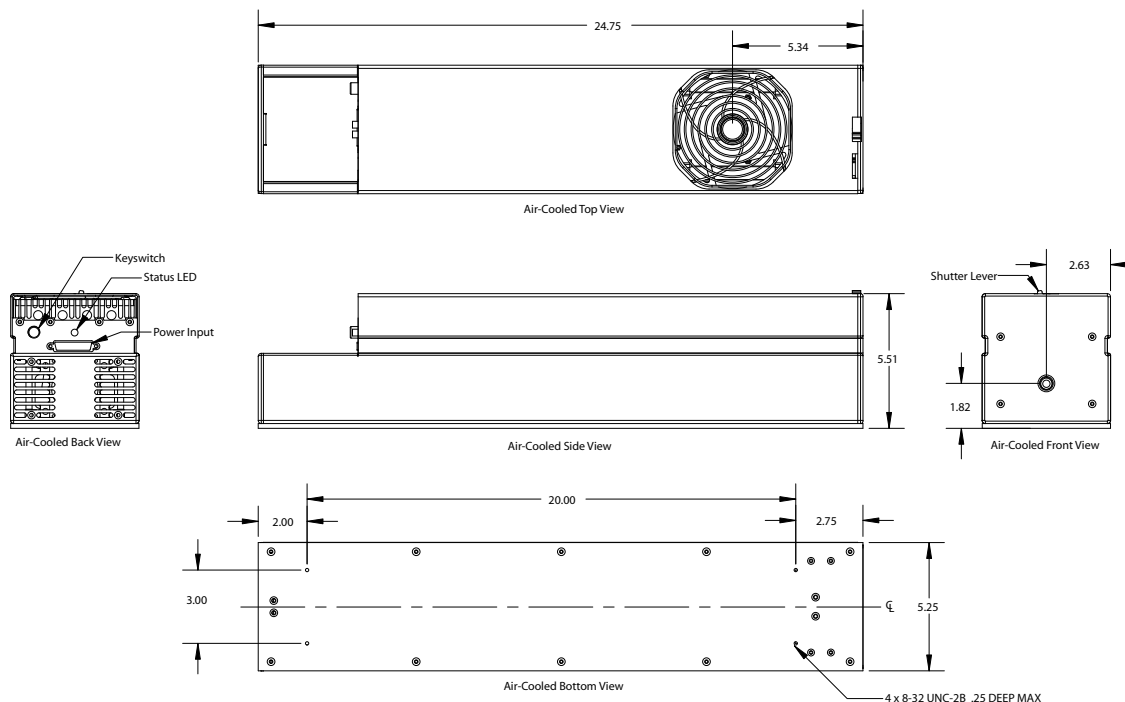
Cooling	Integrated Air/Water
Weight (Air-cooled)	25 lbs (11.3 kg) - Class IV
	19 lbs (8.62 kg) - OEM
Dimensions	see rear panel
<i>Environmental</i>	
Ambient Temperature <sup>††</sup>	50-95°F (10-35°C)
Relative Humidity	<90% (non-condensing)
<i>Power Requirements</i>	
DC Input Voltage	48 VDC
RMS Current (CW, with fan)	12 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.

## ≡ BASIC CONFIGURATION (WATER-COOLED SHOWN BELOW)



## ≡ INTEGRATED COOLING/CLASS IV CONFIGURATIONS (CLASS IV AIR-COOLED SHOWN BELOW)



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