

IRADION

Ceramic Core CO₂ Lasers

DESTINY SERIES

CERAMIC CO₂ LASER

Iradion **Destiny Series** patented laser design hermetically seals the CO₂ laser gas in a monolithic ceramic core resonator, and energizes it with the latest RF electronics. The compact, integrated package achieves exceptional performance and long-term reliability.

SPECIFICATIONS:

Model Destiny	D200	D250
Rated Optical Power (W)	200	250
Mode Quality (M ²)	≤ 1.2	
Beam Ellipticity	< 1.2:1	
Beam Diameter (mm), 1/e ² @ 0m	2.5 ±0.5	
Beam Divergence (mrad, Full angle)	<7	
Wavelength (µm)	10.6	10.6
Rise Time (µs)	<75	
*Power Stability, Water	<4%	
Polarization	Vertical to mounting plane	
Cooling	Water	
Input power / Heat Load (Watts)	2340	2640
Input Voltage, Current	45V / 52A	48V / 55A
Frequency Range (kHz)	0.1 - 140 kHz	
Operating Temperature °C (°F)	5 - 40 (40 - 104)	
Operating Humidity	Non-Condensing	
Shipping Temperature °C (°F)	-10 - 60 (14 - 140)	
Weight (kg / lbs.)	24.6 / 52	
Dimensions L x W x H (mm)	715.0 x 196.0 x 98.0	

*Power Stability is measured after 5 minutes warmup.
Specifications are typical and subject to change without notice

FEATURES & BENEFITS

- Patented Ceramic Core Design - excellent beam quality
- Aluminum Oxide Ceramic - no leakage or metal contamination
- Low Thermal Expansion - enhanced power and beam pointing stability
- Expanded Power Stability - consistent from 2% to maximum power
- 30% Fewer Laser Components - higher reliability
- Good Pulsing Characteristics – short rise and fall times
- Fast Driver Electronics - single-chip design, reliable, efficient and state of the art

APPLICATIONS

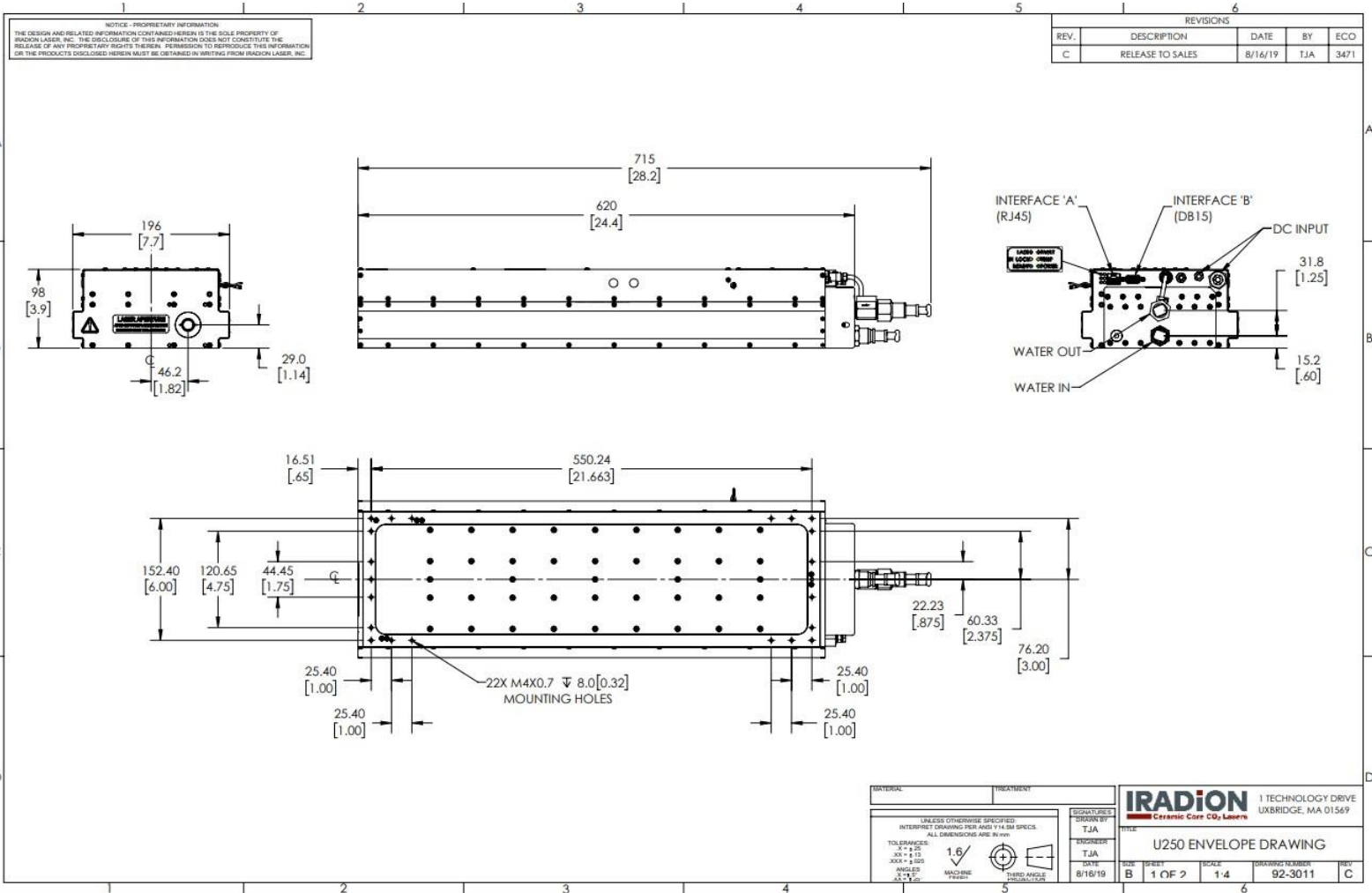
- Cutting/perforating
- Engraving/etching
- Ablation
- Glass processing
- Textile processing
- Acrylic processing

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MECHANICAL DIMENSIONS:



*Note all Destiny lasers are water cooled.



Destiny Datasheet



Destiny Manual



Patents: US 7460577 B2, US 8295319 B2
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