



AIRTRAC[®]-E



Areté's AIRTRAC-E is a ruggedized laser with >30mJ pulse energy. The AIRTRAC-E provides key laser pulse energy and pulse width capabilities over the full MIL-SPEC temperature range. The condensed size and full system weighing less than 220 grams establishes the AIRTRAC-E as a new low weight standard for lasers of this class.

Key Features

- Compact efficient athermal laser resonator
- Low power
- Lightweight laser with key pulse energy and pulse width capabilities
- Patented technology for increased efficiency and long life performance
- Reduced heat load
- No significant warm-up time
- Capable of continuous operation
- Fully sealed laser cavity



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AIRTRAC®-E

Parameter	Range			Comments
	Min	Typical	Max	
Weight	220 g			AIRTRAC-E with Electronics
Wavelength	1.064 um			
Output Energy per Pulse	> 30mJ			
Pulse Width	10 ns to 25 ns			
Beam Divergence	400 urad to 600 urad			With 3x beam expander. Other beam expanders are available
Beam Jitter	< 50 urad			With 3x beam expander. Other options available
Rep Rates	0 Hz to 25 Hz			
Pulse to Pulse Energy Stability	< 15% typ			
Secondary Pulses	None			
Average Standby/Arm Power	< 5 W			
Average Power Draw (total)	< 24 W	< 30 W	< 40 W	Values taken at 24 VDC and across pulse frequencies of 7Hz to 20Hz.
Peak Current	3.5 A	3.8 A	4.5 A	Values taken at 24 VDC and across pulse frequencies of 7Hz to 20Hz.
Operational Temp Range	-10C to +70C			Some variation in energy over this temperature range
Storage Temp Range	-40C to +85C			

