AIRTRAC®–LP

Areté's AIRTRAC-LP is a ruggedized DPSS laser with >50 mJ pulse energy in a very compact, lightweight, and low-power configuration. The athermal design provides high laser pulse energy over the full operational temperature range with low beam divergence. The full system weighs less than 320 grams, establishing a new standard in size for lasers of this class.

Key Features

- Compact efficient athermal laser resonator
- Patented technology for increased efficiency and long life performance
- High energy with low beam divergence
- Dual energy mode
- No significant warm-up time
- Reduced heat-load
- Capable of continuous operation
- Shock & vibration hardened
- Customer-specific packaging available

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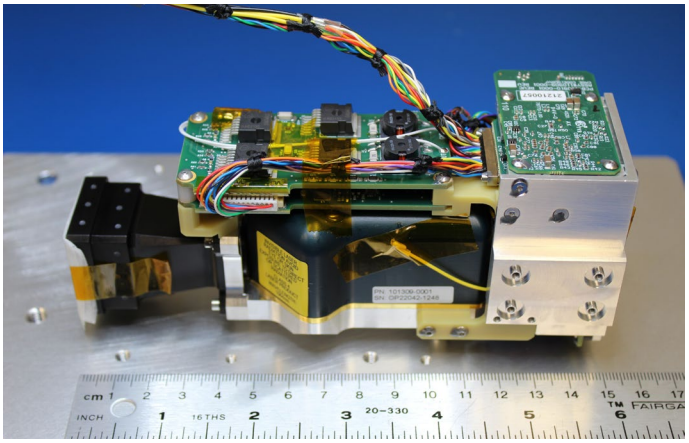
AIRTRAC®-LP Laser



AIRTRAC-LP with example custom packaging configuration

Incorporated into Marine Corp NGHTS handheld.

Parameter	Range			Comments
	Min	Typical	Max	
Weight		320 g		112500 AIRTRAC–LP Laser with Electronics (without a telescope)
Wavelength		1.064 um		
Output Energy per Pulse		>50 mJ		The AIRTRAC has a dual energy mode capability (Low Energy 35 mJ)
Pulse Width		10 ns to 25 ns		
Beam Divergence		<250 urad		With a 6X Telescope*
Beam Jitter		<25 urad		< 1/10 beam divergence with a 6X telescope
Rep Rates		0 Hz to 25 Hz		
Pulse to Pulse Energy Stability		<10% typ		
Secondary Pulses		None		
Average Standby/Arm Power		<5 W		
Average Power Draw (total)	<10 W	<25 W	<42 W	Values taken at 24VDC and across pulse frequencies of 7Hz to 20Hz
Peak Current	2.5 A	2.8 A	3.5 A	Values taken at 24VDC and across pulse frequencies of 7Hz to 20Hz
Operational Temp Range		-32C to +70C		Verified energy across entire temperature range
Storage Temp Range		-40C to +85C		
Mechanical Vibration		Complies with MIL-STD-810G		Testing performed with MIL-STD 810G-Change 1, Method 514.7, Category 24
Thermal Shock		Complies with MIL-STD-810G		Testing performed with MIL-STD 810G, Method 503.6, Procedure I-B

* beam divergence will vary with the telescope magnification

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