

Areté

AIRTRAC®-SP



Arete's AIRTRAC-SP is a ruggedized laser with >70 mJ pulse energy. AIRTRAC-SP provides Flash LiDAR capability in a very compact, lightweight and low power configuration. The athermal design provides high laser pulse energy over the full MIL-SPEC temperature range with a full system weighing less than 400 grams. AIRTRAC-SP laser has established a new standard in size for lasers of this class.

Key Features

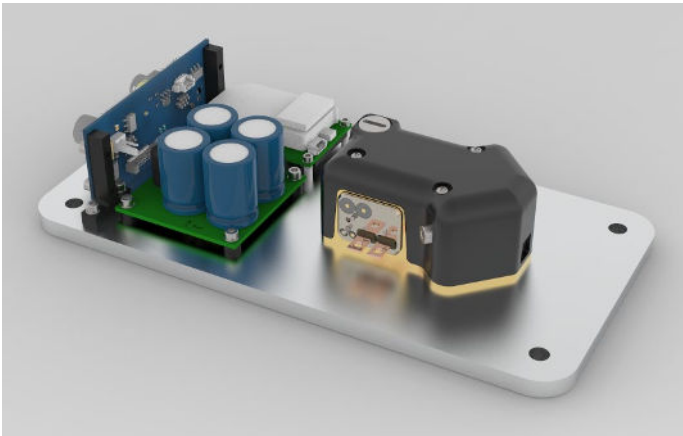
- Compact efficient athermal laser
- Patented technology for increased efficiency and long life performance
- High energy
- Flash LiDAR Capability
- No significant warm-up time
- Reduced heat-load
- Capable of continuous operation
- Shock and vibration hardened
- Fully sealed laser cavity
- Customer-specific divergence for Flash LiDAR field of view



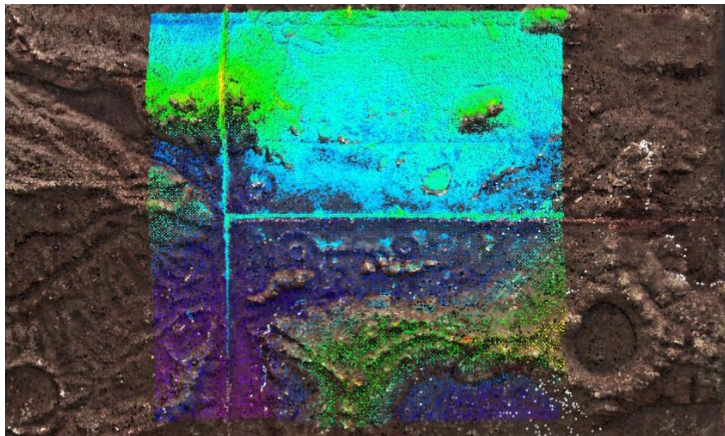
POC: | Airtrac.Sales@arete.com
Business POC: Jay Rouse, (571) 255-4035 | jrouse@arete.com
Arete | 9301 Corbin Ave. Northridge, CA 91324 | arete.com
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AIRTRAC®-SP



AIRTRAC-SP with Electronics



AIRTRAC-SP for 3D Flash LIDAR enables moon landings

Parameter	Range			Comments
	Min	Typical	Max	
Weight	400 g			112873 AIRTRAC-SP with Electronics
Wavelength	1.064 um			
Output Energy per Pulse	>70 mJ			
Pulse Width	4 ns to 7 ns			
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 24 VDC and across pulse frequencies of 7Hz to 20Hz
Peak Current	2.5 A	2.8 A	3.5 A	Values taken at 24 VDC and across pulse frequencies of 7Hz to 20Hz
Operational Temp Range	-30C to +70C			
Storage Temp Range	-40C to +85C			

