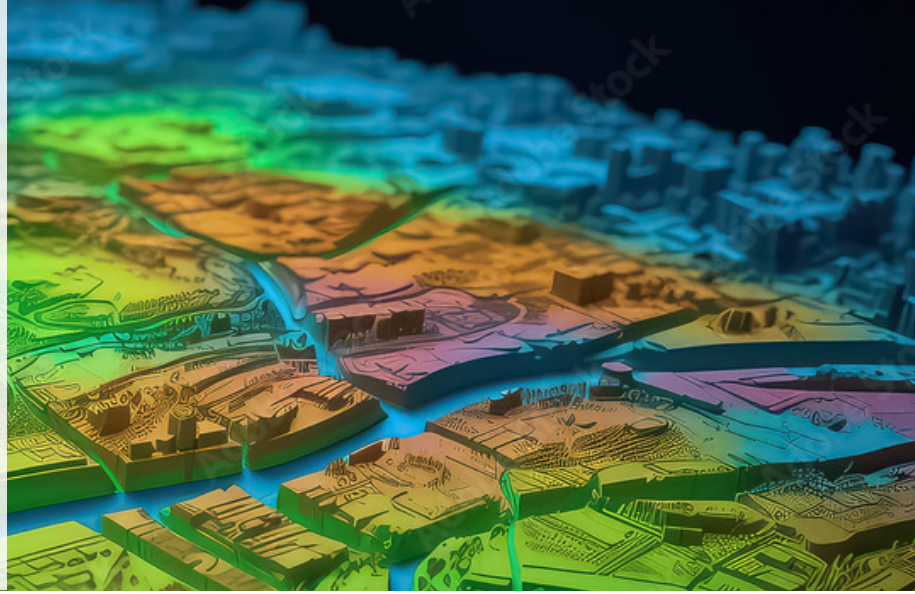




AIRTRAC[®] LIDAR



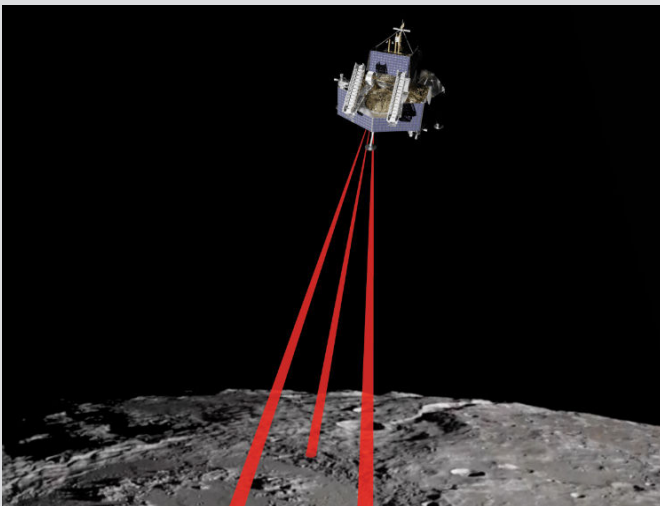
Introducing AIRTRAC low SWaP Lasers specifically designed for Lidar Applications: Revolutionizing Imaging Lidar Applications! Experience the future of compact efficiency and high-performance imaging with our state-of-the-art SWaP (Size, Weight, and Power) optimized AIRTRAC lasers. Engineered for excellence, these lasers redefine the landscape of Lidar technology, providing unparalleled precision and reliability in a compact form factor.



AIRTRAC-SP

The AIRTRAC-SP is a 1064 nm short pulse laser with compact, athermalized design to fit in small packages. Areté's AIRTRAC-SP is a ruggedized laser with >70 mJ pulse energy. It is 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.

Wavelength	Weight (w/ Electronics)	Energy	Pulse Width	Average Power Draw
1064 nm	400 g	>70 mJ	5 ns	<36 W



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
 Areté | 9301 Corbin Ave. Northridge, CA 91324 | arete.com
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AIRTRAC-532

AIRTRAC-532 is a ruggedized laser capable of both 1064nm and 532nm output wavelengths with >70mJ total pulse energy. AIRTRAC-532 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 500 grams.

Wavelength	Weight (w/ Electronics)	Energy	Pulse Width	Average Power Draw
532 nm	500 g	>35 mJ out of 532 nm wavelength	5 ns	<36 W



Key Features

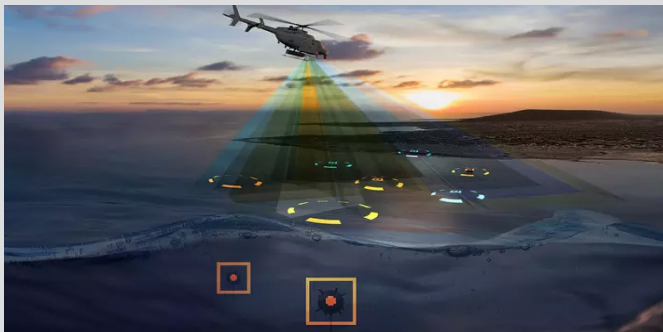
- Compact efficient athermal laser
- Patented technology for increased efficiency and long life performance
- High pulse energy
- Cavity Dimensions: 4.0"x 1.5"x 1.5"
- Dual wavelength and Flash LiDAR capability
- Reduced heat load
- No significant warm-up time
- Capable of continuous operation
- Shock and vibration hardened
- Compact electronics configuration included
- Fully sealed laser cavity



AIRTRAC-532 HP

The AIRTRAC-532 HP is a 532 nm short pulse laser with higher performance energy. Introducing the cutting-edge Airtrac-532 HP Prototypes: Elevate your power expectations while retaining the core advantages synonymous with the Airtrac-532. Experience unparalleled performance potential as we merge high power capabilities with the hallmark features that define Airtrac.

Wavelength	Weight (w/ Electronics)	Energy	Pulse Width	Average Power Draw
532 nm	<800 g	>70 mJ out of 532 nm wavelength	5 ns	<60 W



Key Features

- High Powered Airtrac Design
- Maximum of 60 W of average power draw
- No significant warm-up time
- Reduced heat-load
- Capable of continuous operation
- Shock & vibration hardened
- Customer-specific packaging available



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