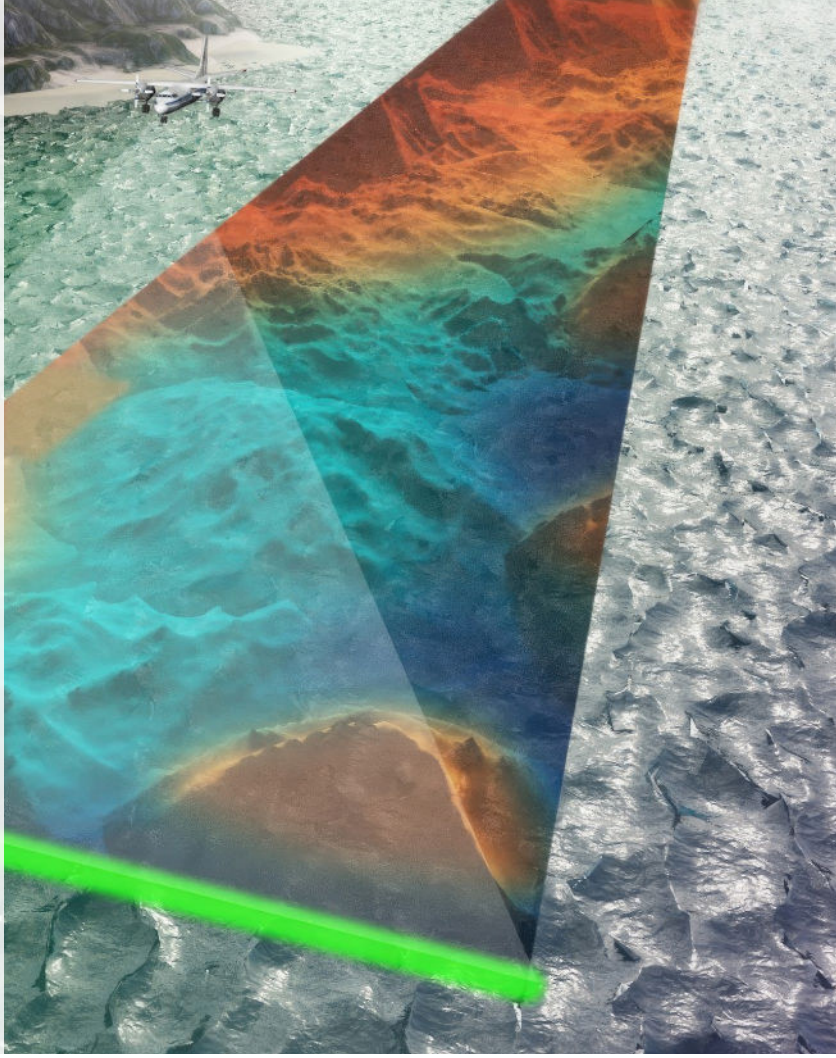
Areté

AIRTRAC®–532



Arete's AIRTRAC-532 Laser is a ruggedized laser capable of both 1064 nm and 532 nm output wavelengths with >70 mJ total pulse energy. AIRTRAC-532 Laser 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 full system weighing less than 500 grams. AIRTRAC-532 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 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

Areté

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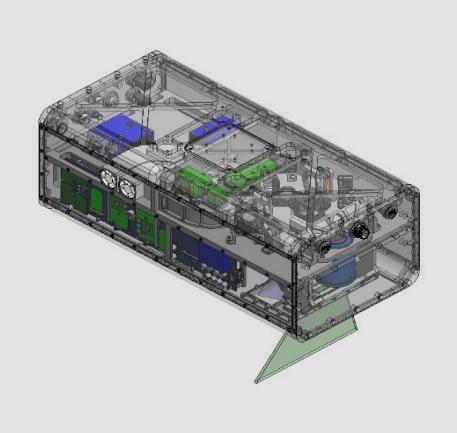
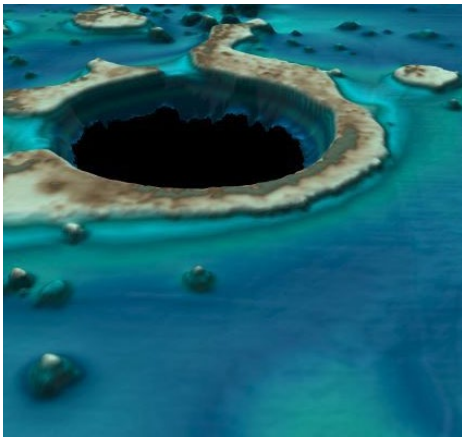
AIRTRAC®–532



AIRTRAC-532 Laser in Fugro RAMMS 3

532 Laser Electronics: 3.0" x3.0" x1.5"



RAMMS aerial mapping

Parameter	Range			Comments
	Min	Typical	Max	
Weight		500 g		112501 AIRTRAC-532 Laser with Electronics and Electronics Container
Wavelength		1.064 um & 0.532 um		
Output Energy per Pulse		>35 mJ		Energy out of 0.532 um wavelength
		>35 mJ		Energy out of 1.064 um wavelength
		>70 mJ		Total pulse energy
Pulse Width		4ns to 7ns		
Rep Rates		0 Hz to 25 Hz		
Pulse to Pulse Energy Stability		<10% typ		
Secondary Pulses		None		
Average Standby/Arm Power		<10 W		
Average Power Draw (total)	<10 W	<25 W	<48 W	Values taken at 24 VDC and at pulse frequency of 30Hz
Peak Current	2.5 A	2.8 A	3.5 A	Values taken at 24 VDC and at pulse frequency of 30Hz
Operational Temp Range		-30C to +50C		
Storage Temp Range		-40C to +85C		

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