



# AIRTRAC®-LP

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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

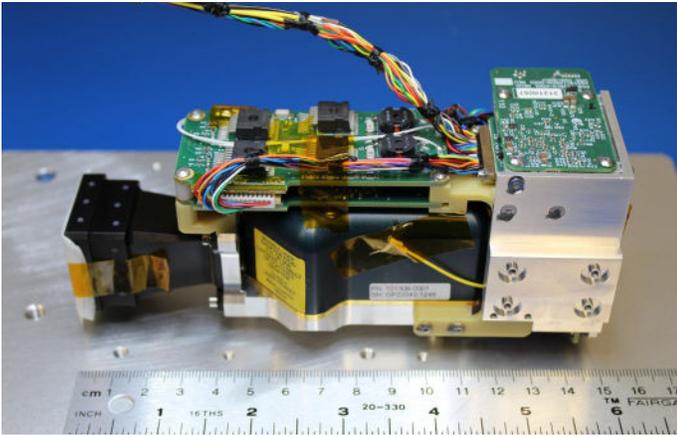
- Compact efficient athermal laser resonator
- Patented technology for increased efficiency and long life performance
- High energy with low beam divergence
- Dual energy mode
- No significant warm-up time
- Reduced heat-load
- Capable of continuous operation
- Shock & vibration hardened
- Customer-specific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