

AIRTRAC[®]-LD Laser Designator

Ultra Compact Laser Designator



OEM Compatible Integration



PRODUCT OVERVIEW

Areté has developed the next generation of athermal lasers providing low divergence and >70 mJ per pulse. Full NATO STANAG 3733 capability in a very compact, light weight and low power configuration. The athermal design provides high laser pulse energy and low beam divergence in a full system weighing less than 1.5 lbs. AIRTRAC-LD has established a new standard in size for lasers of this class.

KEY FEATURES

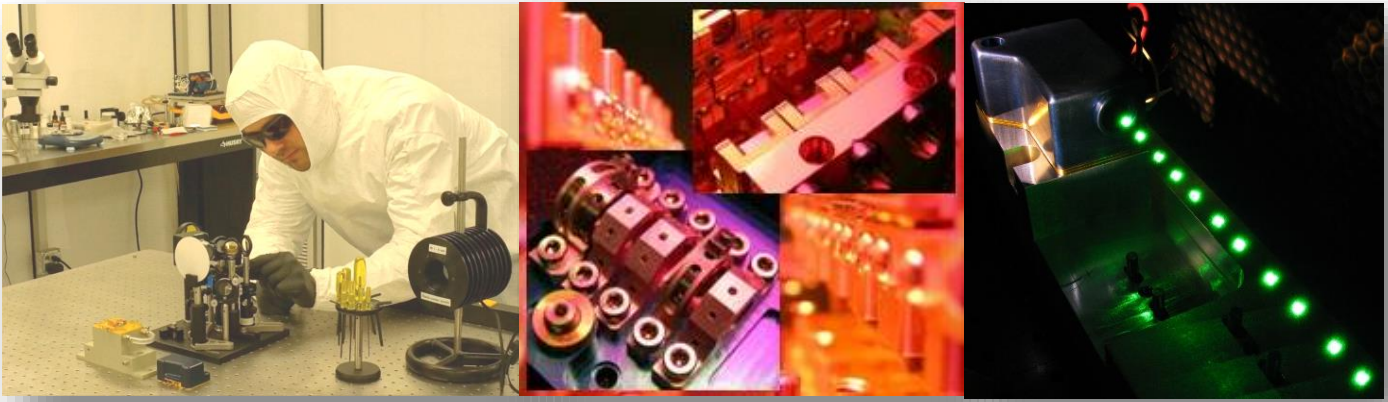
- Compact athermal laser resonator
- Solid state technology for increased efficiency and long life performance
- High energy with low beam divergence
- No significant warm up time
- Reduced heat-load: conduction or air cooled
- Continuous operation
- Shock & vibration hardened

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TECHNICAL SPECIFICATION

Laser Wavelength	1064 nm
Input Voltage	8 – 35 VDC
Power Consumption ¹	< 25 W (1.2 J/pulse @ 20Hz)
Pulse Energy ^{1,2}	10 to > 70 mJ (programmable)
Pulse Width ^{1,2}	15 ±3 ns
Timing Jitter ^{1,2}	< 1 ns
Pulse Repetition Rate ^{1,2}	Single shot to 30 Hz (programmable)
Beam Divergence ¹	< 250 μrad
Pointing Stability ¹	< 20% divergence
Dimensions ³	4.61" x 1.73" x 1.71"
Weight ³	< 1.5 lbs
Operating Temperature	-40 C to +60 C

1. Valid over all operating conditions
2. Compatible with all U.S. and NATO Laser Guided Munitions (NATO I, II, STANAG 3733)
3. OEM version available for custom integration

ALTERNATIVE CONFIGURATIONS*

AIRTRAC-SLD	Stabilized rifle mounted designator
AIRTRAC-H	Shock hardened laser designator core
AIRTRAC-6M	LIDAR transmitter: up to 70 mJ, 5 ns
AIRTRAC-532	High energy green laser: 40 mJ, 5 ns

* Contact RPMC for further information



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