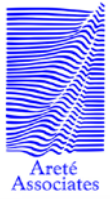


AIRTRAC: Ultra-compact Laser Designator

22 Feb 2016



AIRTRAC: Ultra-compact Laser Designator



- **>70 mJ**
- **0-30 Hz**
- **6.5 cu-in**
- **0.4 lbs**
- **<30W (wall-plug)**

Multi-Platform / Multi-Service Laser Designation

High Flyers



Small Payloads



Ship Launched



Hand Launched UAS



Areté AIRTRAC



Portable Targeting



Rifle Mounted

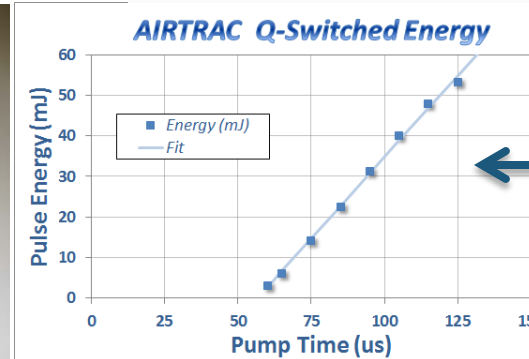
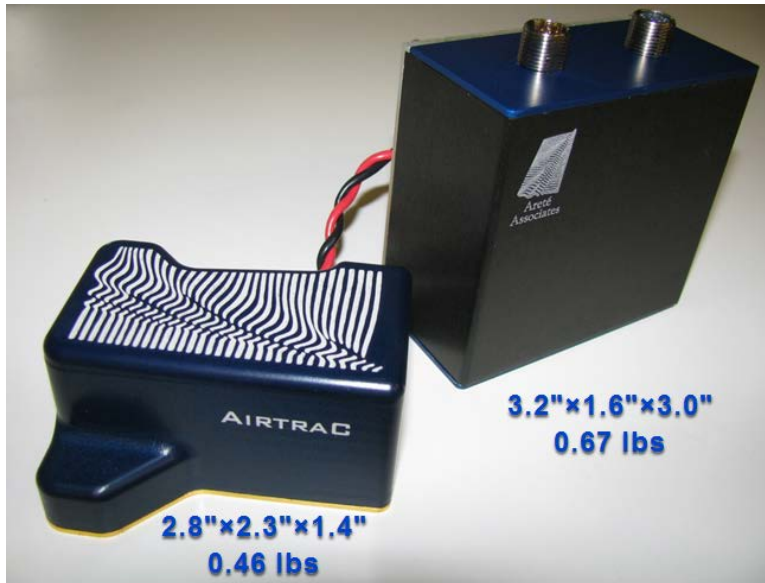
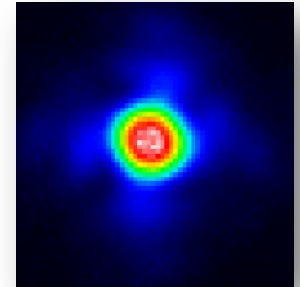
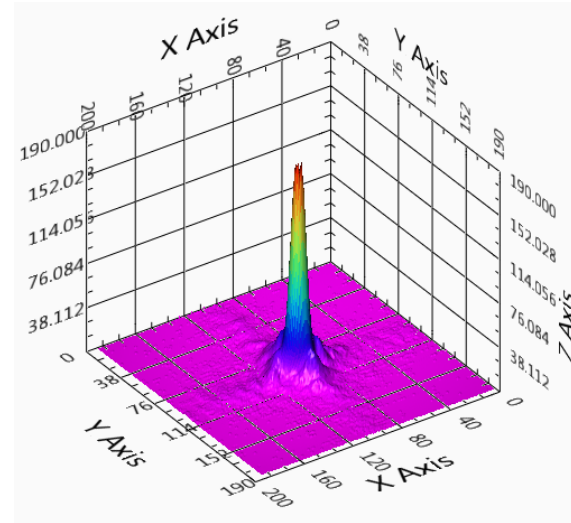


10-90 mJ
12-20 ns
0-30 Hz
<30 W
0.4 lb
6.5 in³

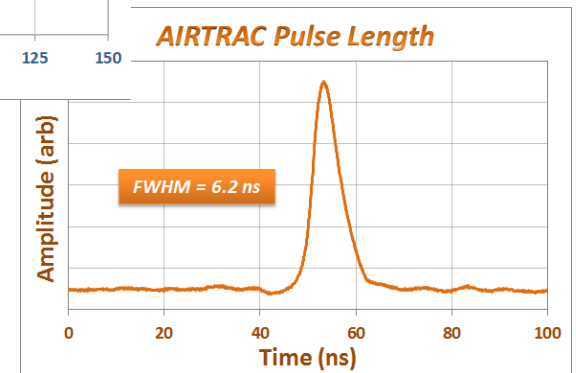
Areté's AIRTRAC subminiature laser provides target marking and designating capabilities for advanced platforms.

Key Technology Demonstrated

- **Laser output**
 - 70 mJ, 0-30 Hz, 6 ns
- **Environment**
 - Operational from -40C to +60 C
 - TRL 6
- **Ultra-low SWaP-C**
 - < 7 cu-inch LRU
 - < 0.5 lbs LRU
 - < 30 W wall-plug power draw

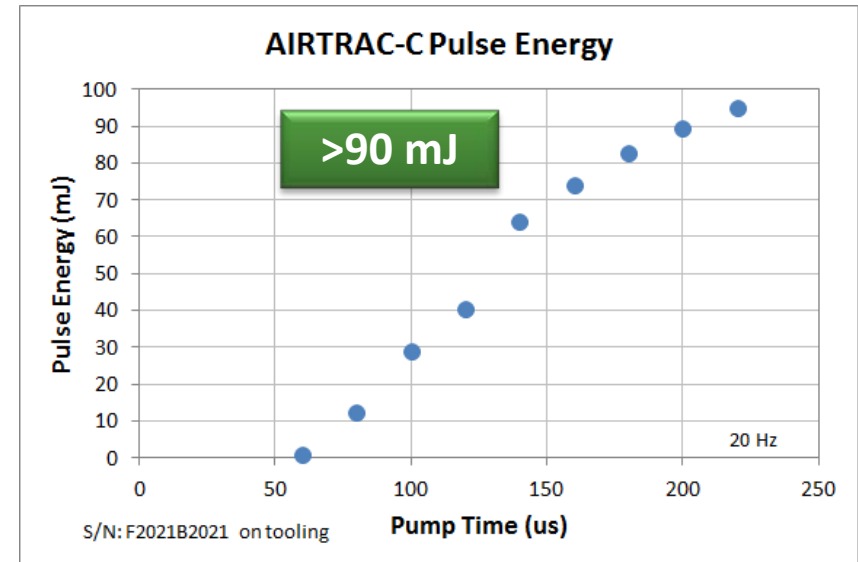
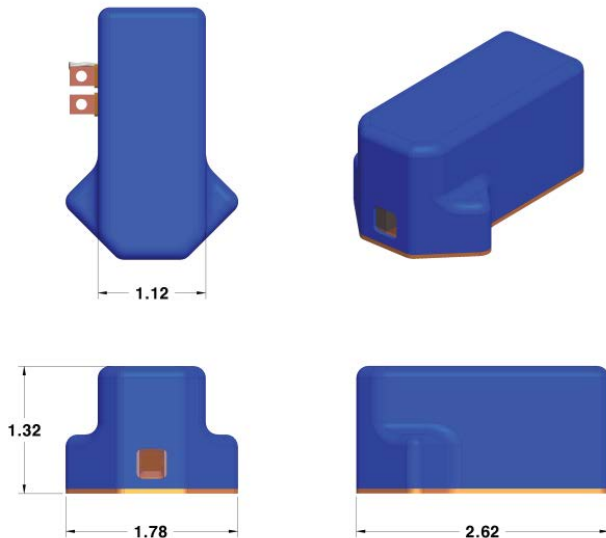


Dial-a-Power!

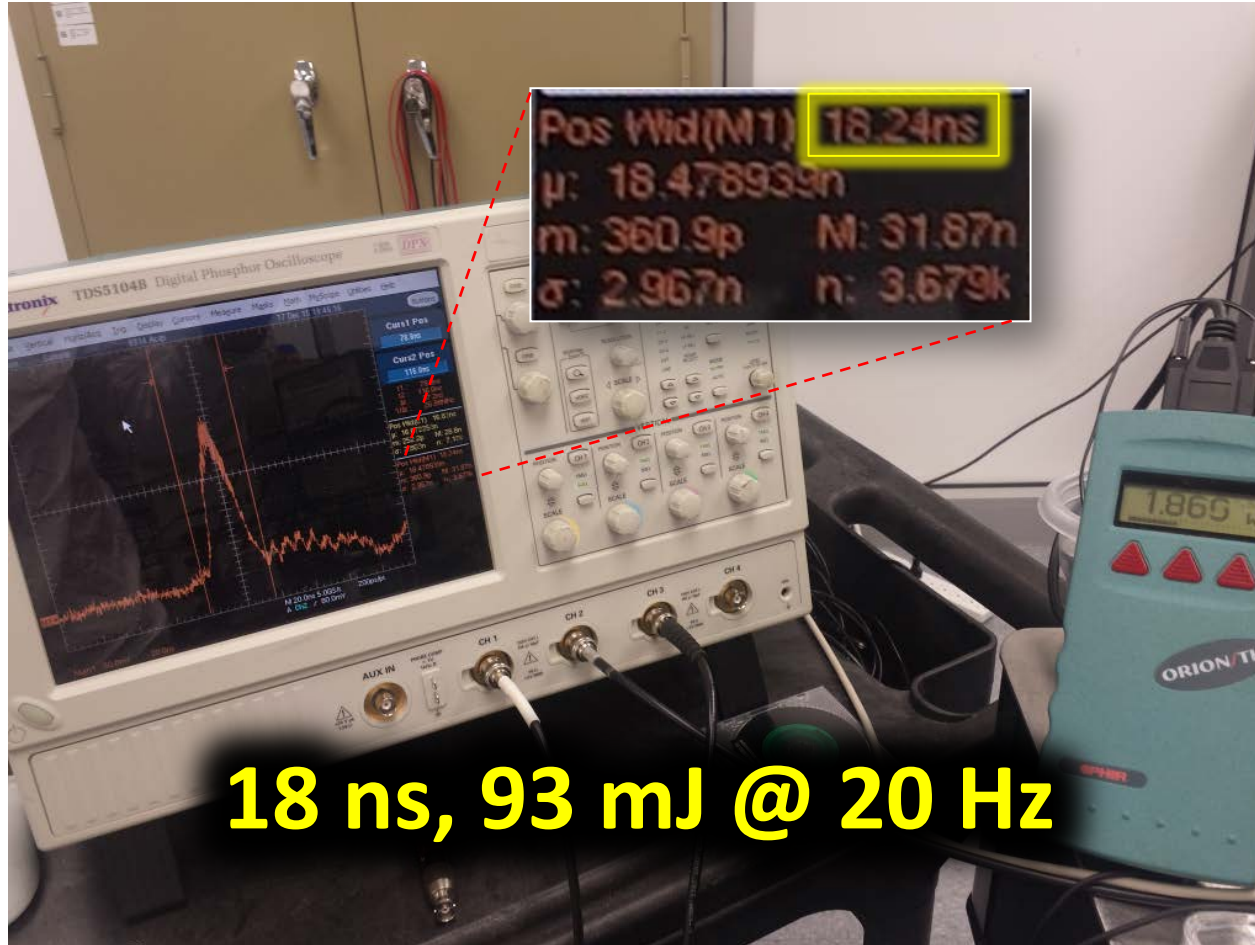


Recent Technology Improvements

- **Laser output increased**
 - **90 mJ**, 20 Hz, 5 ns
 - >75 mJ @ 30 Hz
- **Footprint reduced**
 - OEM packaging
 - 4 mm output beam
 - Gimbal compatible volume



IRAD Pulse Length Results



STANAG 3733 designator requirements achieved with AIRTRAC