



Areté's family of AIRTRAC lasers offer NATO STANAG 3733 compliant capability in rugged, very compact, lightweight and low power draw configuration. The athermal design of Areté's patented AIRTRAC configuration provides stable energy and beam quality over the full MIL-SPEC temperature range. AIRTRAC has established a new standard in size for lasers of this class.



#### AIRTRAC-LP

- · Dual energy mode capability
- NATO STANAG 3733 compliant
- · Non-ITAR

#### Dual Energy:

Low > 35 mJ High > 50 mJ

#### Weight (w/ Electronics):

320 g

## Average Power Draw:

25 W

#### Cavity Dimensions (L x W x H):

2.7" x 1.9" x 1.3"



#### AIRTRAC-E

- Lower cost and energy version of AIRTRAC-LP
- · Suitable for integration into smaller systems (fewer electronics boards)
- · Non-ITAR

#### **Energy:**

> 30 mJ

#### Weight (w/ Electronics):

220 g

## Average Power Draw:

30 W

#### Cavity Dimensions (L x W x H):

2.7" x 1.9" x 1.3"



#### AIRTRAC-HP

- · High laser pulse energy
- · New standard in size for this energy
- Designed for longrange designation
- · Non-ITAR

#### **Energy:**

> 120 mJ

#### Weight (w/ Electronics):

468 g

## Average Power Draw:

45 W

#### Cavity Dimensions (L x W x H):

4" x 4" x 2.25"



#### AIRTRAC-MINI

- · Low SWaP (Size, Weight, and Power)
- Lower cost version and designed specifically for attritable applications and Group-1 UAS integration
- · Non-ITAR

#### **Energy:**

> 15 mJ

#### Weight (w/ Electronics):

< 100 g

### Average Power Draw:

12.5 W

#### Cavity Dimensions (L x W x H):

3" x 1.5" x 1.25"



Electronic Boards Used	
Component Name and Part Number	Qty Needed for System
HV Drive Electronics, P/N 100205-0001	1
Diode Driver 4 Capacitor Version, P/N 112227-0001	1
Diode Driver 2 Capacitor Version	Not Required**
AIRTRAC Control Stack, P/N 101825-0001	1

#### **Telescope Options and Beam Divergence**

Available Telescopes*	Divergence
6X	< 250 urad
5X	< 300 urad
3X	< 500 urad

\* Custom telescopes or customer design can be considered \*\* Testing under way to determine

\*\* Testing under way to determine the use of 2 capacitor diode driver

# AIRTRAC-E (Available in Prototypes)





Electronics and laser cavity are at the same scale.

Electronic Components		
Component Name and Part Number	Qty Needed for System	
Diode Driver 2 Capacitor Version	1	
AIRTRAC Control Stack, P/N 101825-0001	1	

#### **Telescope Options and Beam Divergence**

Available Telescopes*	Divergence
6X	< 250 urad
5X	< 300 urad
3X	< 500 urad

\* custom telescopes or customer design can be considered

# AIRTRAC-HP (Available in Prototypes)



Electronics and laser cavity are at the same scale.

# Electronic Components Component Name and Part Number HV Drive Electronics, P/N 100205-0001 Diode Driver 4 Capacitor Version, P/N 112227-0001 Diode Driver 2 Capacitor Version AIRTRAC Control Stack, P/N 101825-0001 Qty Needed for System 1 Not Required\*\*

#### **Telescope Options and Beam Divergence**

Available Telescopes*	Divergence
6X	< 250 urad
5X	< 300 urad
3X	< 500 urad

- \* custom telescopes or customer design can be considered
- \*\* Testing under way to determine the use of the 2 Capacitor diode driver

# AIRTRAC-MINI (Product in Development)

Production Electronics are under development for new reduced size PCA

Testing is performed with current electronics



Electronic Components		
Component Name and Part Number	Qty Needed for System	
HV Drive Electronics	l Implem	
Diode Driver	Under Development	
AIDTDAC Control Board		

Beam Characteristics	
Divergence	< 750 urad



