



Areté's family of AIRTRAC Laser Designators 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.

 • Dual energy mode	Dual Energy:	Weight (w/ Electronics):	Average Power Draw:	Cavity Dimensions (L x W x H):
capability • NATO STANAG 3733 compliant * AIRTRAC-LD+	Low > 35 mJ High > 50 mJ*	320 g	36 W	(L X W X H): 2.7" ×1.9" ×1.3"
available at >70 mJ				

 AIRTRAC-E	Energy:	Weight (w/ Electronics):	Average Power Draw:	Cavity Dimensions
 Lower cost and energy version of AIRTRAC-LD Non-ITAR Suitable for integration into smaller systems (fewer electronics boards) 	> 30 mJ	220 g	32 W	(L x W x H): 2.7" × 1.9" × 1.3"

AIRTRAC-HP	Energy:	Weight (w/ Electronics):	Average Power Draw:	Cavity Dimensions
 High laser pulse energy New standard in size for this energy Designed for long- range designation 	> 120 mJ	468 g	60 W	(L x W x H): 4" x 4" x 2.25"

integration



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

Component Name and Part Number

Diode Driver 2 Capacitor Version

Electronic Components

* Custom telescopes or customer design can be considered

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

Qty Needed for System

1

AIRTRAC-E (Available in Prototypes)





Electronics and laser cavity are at the same scale.

AIRTRAC Control Stack, P,		
Telescope Options and E	Beam Divergence	
Available Telescopes*	Divergence	* custom tele design can
6X	< 250 urad	accigitean
5X	< 300 urad	

< 500 urad

* custom telescopes or customer design can be considered

AIRTRAC-HP		Electronic Components			
(Available in Prototypes)		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		01 2	
		Diode Driver 2 Capacitor Version		Not Required**	
		AIRTRAC Control Stack, P/N 101825-0001		1	
	Electronics and laser cavity are	Telescope Options and E	Beam Divergence		
	at the same scale.	Available Telescopes*	Divergence	custom telescopes or customer design can be considered	
	scale.	6X		Testing under way to determine the use of the 2 Capacitor diode driver	
	-	5X	< 300 urad	use of the 2 capacitor diode driver	

3X

3X

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 Under Diode Driver Under AIRTRAC Control Board Development

< 500 urad

Divergence* < 750 urad

* Customer designs available to support lower divergence

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