



LITE CYCLES, INC.

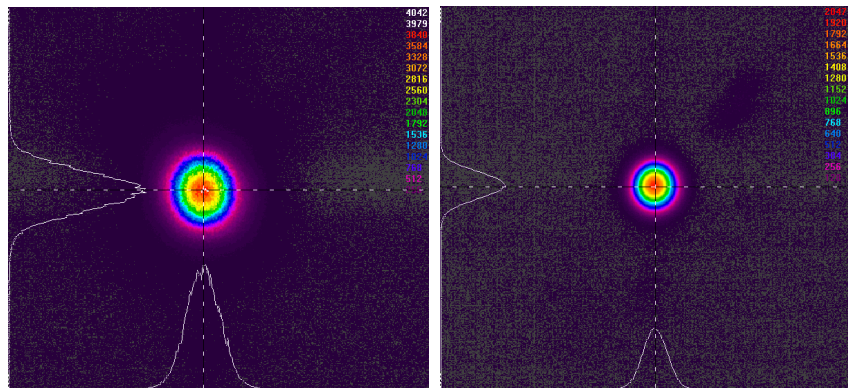
ARELUX™

HIGH PRF SHORT PULSE LADAR TRANSMITTER

The Arelux™ is a compact high PRF short pulse ladar transmitter originally developed for military applications.

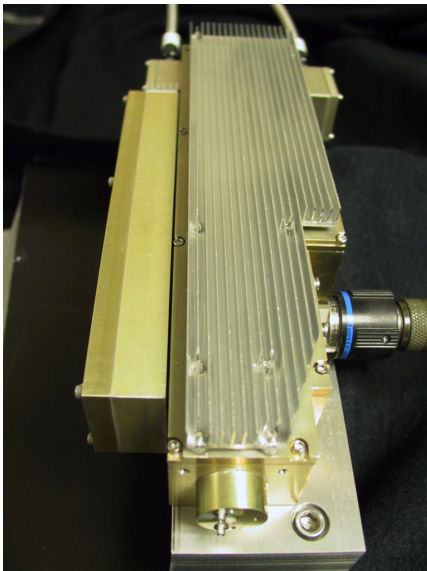
Built to withstand high vibration and to operate over a wide temperature range, the Arelux™ is ideal for applications with demanding environmental and size requirements, including both manned and un-

manned platforms.



Profile of beam at 1064 nm

Profile of beam at 1550 nm



Utilizing a custom-designed Graphical User Interface (GUI) for system control, the Arelux™ combines ease-of-use with rugged design and high performance, making it well-suited to a wide variety of military and non-military applications.

Parameter	1550 nm		1064 nm	
	Rep Rate	20 kHz	40 kHz	20 kHz
Pulse Energy	125 μJ	75 μJ	500 μJ	300 μJ
Avg. Power	2.5 W	3 W	10 W	12 W
Pulsewidth	3.5 ns	6 ns	4.0 ns	6.5 ns
Beam Quality	M ² < 1.5		M ² < 1.2	
Size	Laser Head	9" x 5" x 1.5" (23 cm x 13 cm x 4 cm)		
	Electronics*	19" / 6U rack mount		
Cooling	Laser head and diodes are conduction cooled- no liquid required			
Operating Temp.*	0 ^o C to 40 ^o C			
Communications	RS-232 (standard), RS-422, Ethernet, custom			

* Custom options available

LITE CYCLES, INC.

2301 N. Forbes Blvd. Ste. 111
Tucson, AZ 85745
Phone: 520-798-0616
Fax: 520-798-0667
E-mail: info@litecycles.com