



Thermal Beacon

- Thermal Beacon Ltd. is a leading company developing and producing high-end innovative thermal IFF (Identification Friend or Foe) emitters and high power visible and infrared laser illuminators and pointers.
- •The company products are being based on state of the art, patented technologies and combines high performance with extremely compact design.
- Among our Infrastructures are :
 - R&D in fields of electronics/optics/mechanics
 - Production abilities
 - Laser laboratory







Past performance

Major clients:











European Land Systems-Steyr





















Pointer / Illuminator for payload

- Power up to 2 watts
- Divergence from 0.5mrad up to few degrees









Pointer / Illuminator for payload

 Possible wavelengths from 532nm up to 1064 nm

The products are designed to withstand

Mil-Std-704D

 The produces have a monitor out ability – allowing the user to know when the laser is activated











• TINY:

This compact size laser provides to the system designer the capability of integrating a very powerful laser into the crowded space of the gyro stabilized gimbals system. For small UAVs where the sizes do counts, a new design is provided, in which the diode is encapsulated in sealed aluminum housing. This housing will be mounted inside the gimbals system, with a bore sight mechanism and the optics. Since the weight on the gimbals is a significant problem, we split the system into the laser unit (laser and optics) and laser driver; therefore most of the weight can be located where ever the system designer will decide

	Parameters	
	Operational mode	Pulse/CW
	Wavelength	810 nm other wavelengths available
	Output power	1.5 Watt
	Repetition rate pulse mode	1.5 - 4 Hz (optional)
	Beam divergence	1 mRad other deviances are available
	Beam shape	Quadrangular
	General Parameters	
	Operational voltage	28 VDC
r	Dimensions: Laser Module	30 mm X 60 mm X 30 mm
	Dimensions: Driver Box	45 mm X 40 mm X 35 mm
	Weight	85 gr. + 45gr. (driver box)
	Boresight	2.1° tilt and 1.4° pan
	Altitude	Operational to 40,000

ft.







Lapid Air:



Parameters		
Operational mode	Pulse/CW	
Wavelength	830nm	
Output power	1.5W	
Repetition rate pulse mode	Up to 5 Hz	
Beam divergence	4.3mRad	
Beam shape	Circle	
General Parameters		
Operational voltage	28 VDC	
Dimensions: Laser Module	40 mm X 30 mm X 25 mm	
Dimensions: Driver box	45 mm X 40 mm X 45 mm	
Weight	135 gr	







Micro Lapid Green:



• The uniqueness of this compact size laser is that the beam points at wavelength of 532nm(green).

Parameters		
Operational mode	Pulse/CW	
Wavelength	532 nm	
Output power	200mW	
Repetition rate pulse mode	1 Hz	
Beam divergence	Less than 0.5 mRad on both axes	
Beam shape	Circle	
General Parameters		
Operational voltage		
Operational voltage	28 VDC	
Dimensions: Laser + Optics	28 VDC 40mm X 30mm X 23mm	
Dimensions: Laser	40mm X 30mm X	
Dimensions: Laser + Optics Dimensions:	40mm X 30mm X 23mm 11 mm X 35 mm X 35	

Altitude

Operational to 40,000

ft.





Micro Lapid Green-Performance

Green Laser at day-time, 200mW, 0.5mrad













Micro Lapid 200:



Parameters		
Operational mode	Pulse/CW	
Wavelength	808nm	
Output power	200mW	
Repetition rate pulse mode	1.5 Hz	
Beam divergence	Less than 0.5 mRad on both axes	
Beam shape	Circle	
General Parameters		
Operational voltage	9 VDC	
Dimensions: Laser + Optics	23mm X 15 mm X 15mm	
Dimensions: Elec. board	20mm X 30mm X 5mm	
Weight	12gr. + 4gr. (elec. board)	
Boresight	Not included	
Altitude	Operational to 40,000	

ft.

Altitude







Micro Lapid 200C:



Parameters		
Operational mode	Pulse/CW	
Wavelength	830nm	
Output power	190mW	
Repetition rate pulse mode	Up to 5 Hz	
Beam divergence	0.5 mRad on both axes	
Beam shape	Rectangular	
General Parameters		
Operational voltage	28 VDC	
Dimensions	25mm X 85mm X 25mm	
Weight	85gr	
Boresight	±20mRad	







Micro Lapid 70m:



Parameters		
Operational mode	Pulse/CW	
Wavelength	830nm	
Output power	55-65mW	
Repetition rate pulse mode	Up to 5 Hz	
Beam divergence	0.5 mRad on both axes	
Beam shape	Rectangular	
General Parameters		
Operational voltage	12 VDC	
Dimensions	23mm X 82mm X 23mm	
Weight	90gr	
Boresight	±2.5mRad	







Ray 200:



Parameters		
Operational mode	Pulse/CW	
Wavelength	830nm	
Output power	190mW	
Repetition rate pulse mode	Up to 5 Hz	
Beam divergence	0.5 mRad	
Beam shape	Rectangular	
General Parameters		
Operational voltage	12 VDC	
Dimensions	20mm X 45 mm X 45mm	
Weight	25gr	
Boresight	Not included	





Certifications

ISO Certification



AS9100 Certifications



 The laser laboratory was certificated by "Industry, Trade and Labor Ministry"

