

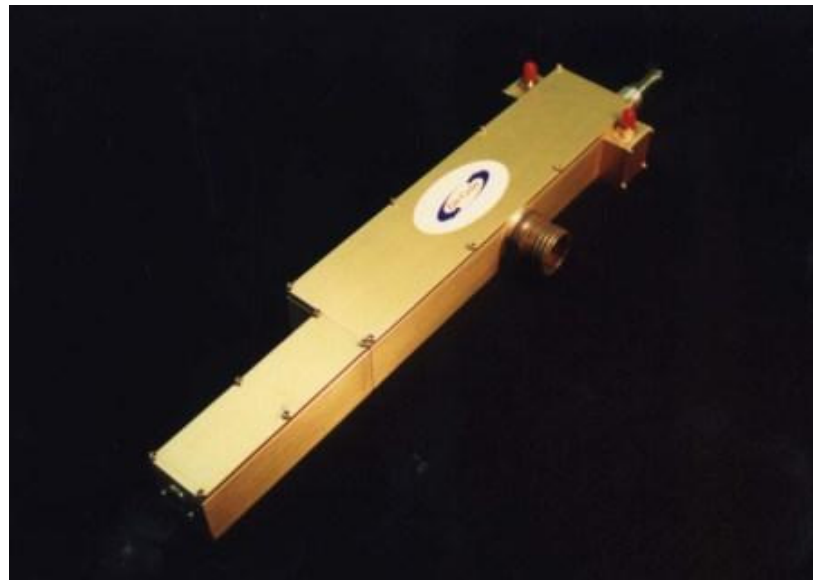


LITE CYCLES, INC.

# 3 - WAVELENGTH TRANSMITTER

1 0 6 4 , 5 3 2 , A N D 3 5 5  
N A N O M E T E R S

The 3-wavelength transmitter produces 3 different wavelengths of output energy simultaneously. It features a rugged flight-hardened design, compact packaging, and high efficiency. It has been flown by NASA in the ER-2 platform at up to 65,000 ft. for cloud sensing applications, and was used to support satellite launch with acquisition of ground truth data during the spring of 2006. This transmitter is also being integrated into a prototype LIDAR system for plume detection.



Energy/pulse (1064 nm/532 nm/355 nm)	0.4 mJ/0.2 mJ/0.1 mJ
Rep. Rate	Up to 10 kHz
Avg. Power	4W, 2W, 1W
Pulsewidth	12 ns
M <sup>2</sup>	1.3
λ	1064 nm/532 nm/355 nm
Standard Op. Temp. Range	-20 <sup>0</sup> to +55 <sup>0</sup> C
Storage Temp. Range	-40 <sup>0</sup> to +65 <sup>0</sup> C
Dimensions of Laser Head	12.6" x 2" x 1.2" (32 cm x 5 cm x 3 cm)
Weight of Laser Head	3 lbs.

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