

High Energy Laser Target Board



bluehalo.com | sales@bluehalo.com





bluehalo.com | sales@bluehalo.com

High Energy Laser Target Board

Integrated beam-profiling payload for use in conjunction with group II sUAS to make in-situ laser measurements at a flying, threat-representative target. The payload supplies real-time beam diagnostic feedback to laser operators, as

Features

- 10 cm x 10 cm active target area with 2 mm resolution
- Sand blasted aluminum front-facing components with existing Optical Radiation Hazard Analysis (711th HPW)
- Pre-flight user-adjustable payload pitch angle
- Integrated high throughput Silvus Streamcaster radio at user specified frequency
- Optional integration to COTS Elistair SAFE-T or SAFE-T 2 UAS Tether Systems
- Light-weight and rigid carbon fiber construction
- Real-time irradiance profile and quick look post-shot data
- User-friendly GUI for payload control and data recording

Available Data Products Through Time:

- Power in the bucket
- Irradiance profile
- Spot size
- Total power
- Jitter



well as a complete post-processed data package. The UAS Target Board was developed in conjunction with the EMRC Heli E1250 sUAS.

Applications

- Threat-representative UAS engagements with real-time and complete data feedback
- Long duration static hover engagements for beam troubleshooting (with tether option)
- Laboratory or ground-based laser diagnostics
- Laser operator familiarization and training while deployed

High Energy Laser Target Board		
Feature	Specs	Unit
Peak Beam Irradiance	10	kW/cm ²
Peak Beam Fluence	100	kJ/ cm ²
Irradiance Accuracy	10	%
Active Target Area	10 x 10	cm
Spatial Resolution	2	mm
Payload Mass	<2	kg
Input Power	4.9A	12VDC
	1.4A	5VDC
Payload Volume	25	cm L
	23	cm W
	28	cm H