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YGLS

HIGH ENERGY LASER SYSTEM



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It is designed to provide a rapid, effective, and silent response capability against small-scale threats, primarily unmanned aerial systems (UAS), including drones.

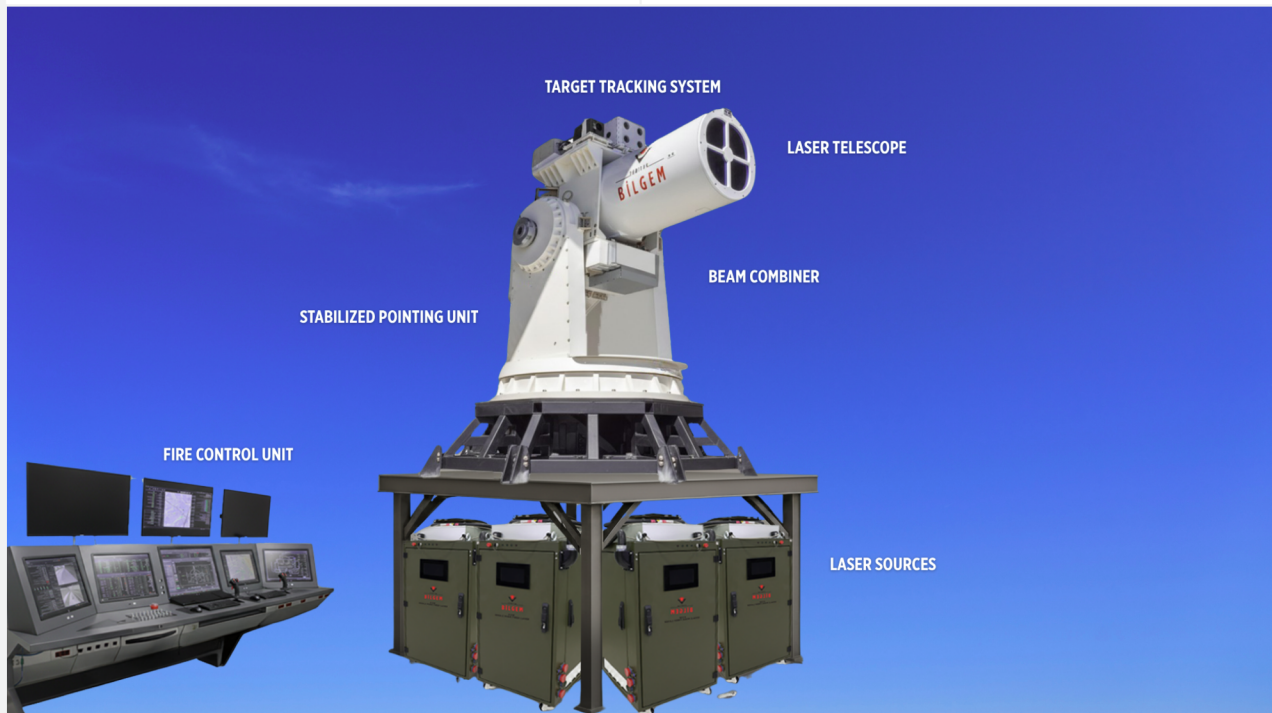
System Overview

The system is based on a modular architecture delivering a total laser output power of 20 kW, configurable as 4 × 5 kW modules. This modular design enables operational flexibility and simplifies maintenance processes.

- Capable of neutralizing Group 1 drones (FPV / mini-UAS) within 3-5 seconds of engagement
- Provides optical dazzling/blinding capability against adversary sensor systems
- Radar integration ready
- Scalable architecture supporting configurations up to 80 kW (4 × 20 kW)

TECHNICAL SPECIFICATIONS

Laser Type	Fiber Laser
Total Output Power	20 kW (4x5 kW) Scalable up to 80 kW (4x20 kW)
Beam Combining	Spectral + Spatial
Target Tracking	EO Sensors and Stabilized Pointing System
Tracking Accuracy	<10 µrad
Azimuth Range	0° / 360°
Elevation Range	-30° / +90°
Soft-Kill Range (Optical Dazzling)	400m - 10 km
Hard-Kill Range (Drone/UAS)	400m - 3 km
Operation Mode	Semi-autonomous / Manual
Mobility	Containerized Structure, Redeployable
Cooling Method	Active Water Cooling
Operating Temperature	-10 °C / + 40 °C
Storage Temperature	-15 °C / + 50 °C
Input Power	380 V AC
Power Consumption	160 kW



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