24225 Garnier Street
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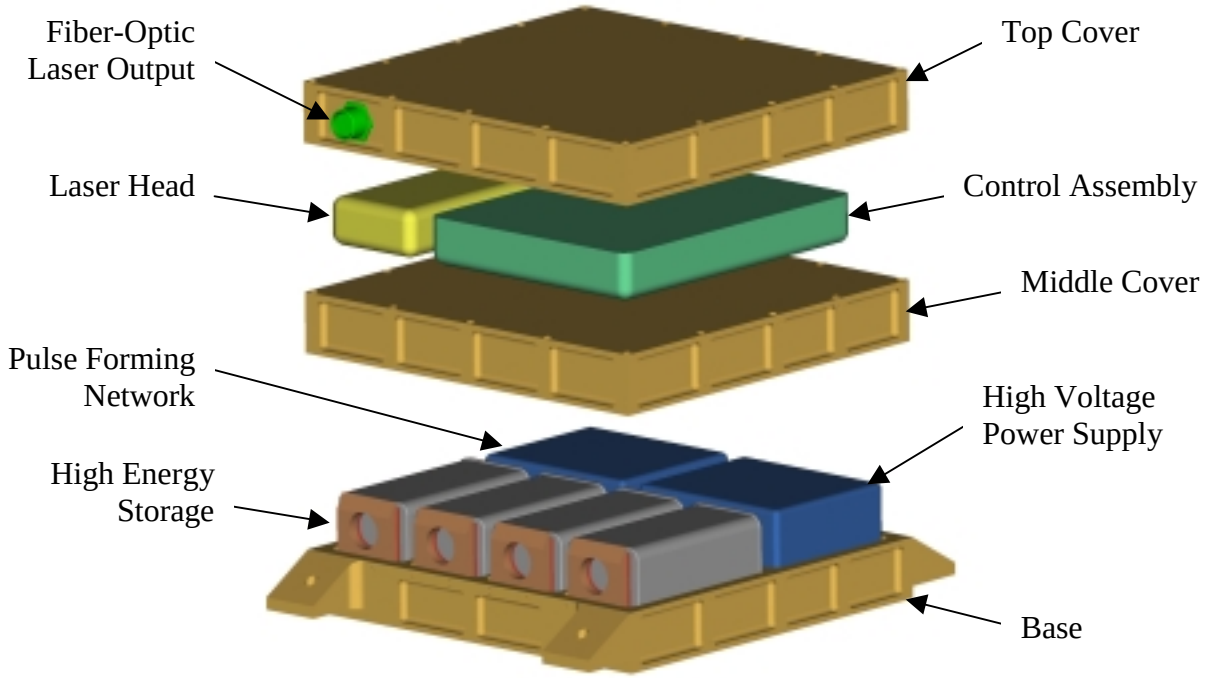
Model Paladin LS

"International Howitzer" Laser Initiation System



Exploded View

System Features & Benefits

- Provides reliable initiation of current bag charges used in Paladin systems.
- Dual flashlamp Nd:YAG laser head design is capable of generating more than six pulses per minute.
- No cooling system is required.
- Ruggedized laser head has been demonstrated through Army testing to survive high levels of shock: 300G – 12 msec (Axial) and 75 G – 12 msec (Lateral)
- Control system provides positive confirmation of successful laser firing.
- Can provide real-time feedback for verification of fiber-optic line integrity prior to laser firing.
- Laser head and control electronics are located in a single modular box for easy installation and maintenance.
- Control software compatible with RS-422, RS-232, or MIL-STD-1553 communications bus.
- 28 VDC compatibility with Paladin vehicle.
- Laser output is coupled to Paladin breech with a 600 μm diameter fiber-optic cable.

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Description

The Model Paladin LS laser initiation system was developed for the Paladin 155 mm Howitzer to replace conventional impact-sensitive primer cartridges with a reusable, highly reliable, and safe laser ignition source. The system is pending qualification to applicable Paladin specifications.

This is the next generation of the Hi-Shear Paladin laser firing system that was successfully demonstrated in Kuwait in 1996 and at the US Army Yuma Proving Ground (YPG) in 1999. The latest design incorporates advances made in laser initiation systems for Lockheed Martin's X-33 (reusable launch vehicle) hold-down post release system and for the new CRUSADER Artillery System vehicle.

Hi-Shear Technology Corporation performs all system design, integration and testing. This includes all electronics design and manufacture, software development and verification, and machining. Assembly of the LRS-200 laser firing system is performed in Hi-Shear's 1,500 square foot, class 10,000, clean room. Optical component assembly for the unit is performed under a Class 500 laminar flow environment.