

Laser Ordnance Disposal System (LORDS)

Laser Ordnance Disposal System is an engineered vehicle mounted laser system for standoff neutralization of explosive hazards i.e., surface munitions, unexploded ordnances (UXOs) and IEDs from safe, stand-off ranges. Laser system along with its support systems, including a compact electrical generator, is mounted onto a vehicle for stand-alone operation. Overall system comprises of a Beam Directing Optical Channel, motorized beam director assembly integrated with high accuracy laser range finder (LRF) assisted auto focusing system and a 2-axis servo pedestal for precise pointing and directing of high power laser beam onto the target. The waste heat generated in the laser source is removed by the thermal management chiller unit. A day camera with variable zoom integrated and bore sighted with the laser head is used for target sighting. A visible (green) laser beam is provided for designating the target point. The entire operation of the system is controlled by a single operator through a command control console (HMI) provided in co-driver's seat.

The system can be suitably modified for higher or lower power lasers on the same or different vehicle or tripod for different versions of LORDS.