Open Elective-A Subject Code: 18PHY651 Subject Name: LASER PHYSICS AND NON-LINEAR OPTICS Department of Basic Sciences Engineering & Humanities



LASER DIODE





MILITARY DEFEN

Find Target
 An infrared camera on the laser continuously scans a 6 to 10-mile radius around the airpor for suspicious heat emissions. When it finds plume, it relays the coordinates to an identification and tracking system, which is also on the unit.

Confirm Threat

The onboard computer checks the object's heat signature against a data bank, confirms that it's a missile (and not a bird or a plane), and activates the laser. Prepare to Fire

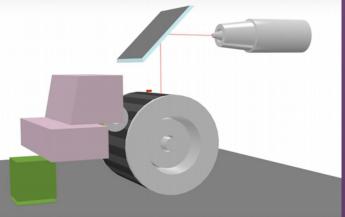
Reactive gases in the laser's fuel tanks are funneled through a vacuum tube to heat up atoms and send them cascading through resonator mirrors. This produces a tightly focused, high-energy beam. Destroy Missile

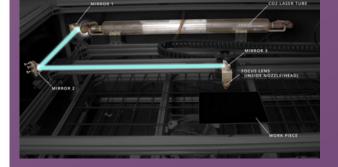
The laser-beam cannon emits a burst of intense light aimed at the missile's most vulnerable spot, usually the explosives compartment. Simultaneously, it sends a signal to aimod control tower to give authorities a fix. India on 22nd September 2020, successfully test-fired the laser guided anti-tank guided missile (ATGM) in the country.

It has been prepared jointly by three DRDO institutions. The test fire of ATGM took place in the KK range of Ahmednagar on Tuesday, it targeted the target three km away. High Explosive Anti-Tank (HEAT) War Head is used in ATGM, it can also destroy armored tanks.

Engraving Metal With A CO2 Laser







How CO2 Laser Cutters work and ...Why you might want to build one





