**Subject Bibliography**

**LASER DEVICES AND WEAPONS**


Note: Available through Interlibrary Loan.

Abstract: An early work on the threat of low-energy lasers to human vision on the battlefield. Basic overview of laser origins, eye damage processes, and current military systems (basically range-finders) provided. Good discussion on the advantages, disadvantages, and potential use of these weapons in close combat situations.


Call Number: UG 486 .A53 1992

Abstract: Immensely important and often cited even though it is an older work. It contains very useful chapters on the laser as a weapon, low-energy antipersonnel and antisensor laser (LEL) weapons, and protection and countermeasures. Advocates a blinding laser ban which eventually was enacted in international law. Index in the back of the work is very helpful.


Abstract: One of the best publications on tactical laser weapons with specific information provided on ten U.S. systems and some comments on foreign systems.


Call Number: UG486.5 .B4345 2005

Abstract: Good overview of directed energy weapons and how lasers differ from high-power microwaves. High energy, rather than low-energy, lasers are focused upon.

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Abstract: Discusses criminal potentials of laser pointer use: dotting (harassment), weapons sighting, and when used in a counter-optical role, for tactical advantage gained. Laser classes (I-IV) summarized with special concern focused on Class IIIb and Class IV lasers that can easily cause eye-damage to law enforcement officers.

Abstract: Thirteen tactical counter-optical laser use scenarios provided as a ‘heads up’ for tactical officers concerning the need for countermeasures, protective equipment, and new training requirements in the face of the emergent laser threat.

Abstract: Training document for U.S. law enforcement agencies discussing types and availability of lasers, laser dangers to officers, examples of past laser employment against officers, tactical employment and operational scenarios, laser countermeasures, and useful points of contact.

Abstract: Types of laser pointers, the five laser classes (I-IV), and Maximum Permissible Exposure (MPE) and the Accessible Emission Limit (AEL) mentioned. Scenarios of lasers falling into the wrong hands are provided with specific examples. Six recommendations offered in order to limit the dangers of laser pointers to law enforcement officers.

Note: Available through Interlibrary Loan.
Abstract: History of laser threats in the early 1990s due to Las Vegas casino light shows, Federal Aviation Administration (FAA), International Civil Aviation Organization (ICAO), and American National Standards Institute (ANSI) standards enacted safety concerns (flash blindness, after-images, glare & dazzle) and ongoing medical research. Critical flight (vulnerability) figures for air crews approaching runways.

Note: Available through Interlibrary Loan.
Abstract: Laser threat potentials to air crews highlighted. In response a laser hazard ‘protocol’ was developed based on preventive procedures, laser incident procedures, and medical follow-up procedures.

Internet: [rgl.ffa.gov](http://rgl.ffa.gov) [Select Advisory Circulars, Keyword: Laser]
Abstract: Directed at the aviation community, specifically air crews, regarding current FAA protocols concerning the unauthorized illumination of aircraft by lasers. Authority,
notifications and reporting, reporting procedures, air crew mitigation procedures, and information resources provided.


Note: Available through Interlibrary Loan.
Abstract: An early work focusing on laser illuminations directed at airborne law enforcement. A discussion of laser threats, incidents collected by LaserWatch (a Los Angeles Terrorism Early Warning Group (TEW), Los Angeles World Airports (LAWA), and Western FAA Security program that transitioned into the national FAA laser incident reporting program), and response plan provided.

Internet: [http://www.legininfo.ca.gov/calaw.html](http://www.legininfo.ca.gov/calaw.html) [Select Penal Code, Keyword: Laser]
Abstract: Covers lasers, or light or other bright device, intentionally discharged and/or shined at aircraft; the aiming or pointing of a laser scope or laser pointer at another person (except in self defense); the aiming or pointing of a laser scope or laser pointer at a peace officer; and additional conditions of use and possession prohibited.

Internet: [http://www.icltd.org/laser_weapons.htm](http://www.icltd.org/laser_weapons.htm)
Abstract: General survey of the effects of laser weapons on the human eye, types of military battlefield laser systems (U.S. and foreign), national policies on counter-optical lasers, and international law pertaining to these weapons.

Call Number: HV6431 .J35 2002
Abstract: Covers laser weapon type, incident response to pointer, dazzling, and blinding laser devices, and aircraft lasing case study.

Abstract: Indictment based on the Patriot Act against David W. Banach for shining a green laser at an aircraft (used for “mass transportation”), thus endangering the crew and passengers, and for making false statements to law enforcement officers. *Note: eventual plea bargain and 2 years probation.*

Compiled by Dr. Robert J. Bunker, 5/07.