

ABBREVIATIONS AND ACRONYMS

A

AA: air-to-air
ABL: airborne laser
ACGIH: American Conference of Governmental Industrial Hygienists
ACP: air commander's pointer
AD: air defense
ALL: airborne laser laboratory
AMC: Army Materiel Command
AMEDD: Army Medical Department
AMEDDC&S: Army Medical Department Center and School
AMRDC: Army Medical Research and Development Command
ANSI: American National Standards Institute
APC: armored personnel carrier
AR: Army regulation
ArF: argon fluoride
ARPA: Advanced Research Projects Agency (US Department of Defense)
AT: antitank
ATGM: antitank guided missile
AVS: Aidman Vision Screener

B

BLPS: Ballistic and Laser Protective Spectacles
BMP: *Boyevaya Mashina Pekhoty* (Russian for "infantry fighting vehicle")
BOLT: bomb, laser, target
BRAC: Base Realignment and Closure

C

C-CLAW: close-combat laser assault weapon
CIE: International Commission on Illumination (Commission Internationale de l'Éclairage)
CLGP: cannon-launched guided projectile
COIL: chemical oxygen-iodine laser
C-RAM: counter rockets, artillery, and mortar rounds
C-RAMD: counter rockets, artillery, mortar rounds, and drones
CSLO: confocal scanning laser ophthalmoscopy
CW: continuous wave

D

DARPA: Defense Advanced Research Projects Agency (successor to ARPA)
DF: deuterium-fluoride
DoD: Department of Defense
DoDI: DoD Instruction
DPI: dual Purkinje image

E

ED₅₀: median effective dose
EDL: electrical discharge laser
ELRF: eyesafe laser rangefinder
ELTEP: Emerging Laser Threat Eye Protection (program)
Er: erbium-doped

F

FIST-V: fire support team vehicle
FM: Farnsworth Munsell
FM: field manual

G

GA: General Atomics
GaAlAs: gallium-aluminum-arsenide
GaAs: gallium arsenide
G-BAD: ground-based air defense
GBU: guided bomb unit
GCP: ground commander's pointer
GDL: gas dynamic laser
GLATGM: gun-launched antitank guided missile
G/VLLD: ground/vehicular laser locator designator

H

He-Cd: helium-cadmium
HEL: high-energy laser
HELLADS: high-energy liquid laser area defense system
He-Ne: helium-neon
HF: hydrogen fluoride
HMMWV: high-mobility multipurpose wheeled vehicle
Ho: holmium

I

ICG: indocyanine green
ICNIRP: International Commission on Non-Ionizing Radiation Protection
ICRC: International Committee of the Red Cross
IEC: International Electrotechnical Commission
IFV: infantry fighting vehicle
IRSF: intraretinal scar formation
ISMT: indoor simulated marksmanship trainer

J

JLST: Joint Laser Safety Team
JLTV: joint light tactical vehicle

K

KrF: krypton fluoride

L

LADS: laser area defense system
LAIR: Letterman Army Institute of Research
LAMC: Letterman Army Medical Center
LAPD: Los Angeles Police Department
LAV: light-armored vehicle
LaWS: Laser Weapon System
LCMS: laser countermeasures system
LED: light-emitting diode
LEL: low-energy laser
LEP: Laser Eye Protection
LGM: laser-guided munitions
LLDR: lightweight laser designator rangefinder
LMB: Lasers on the Modern Battlefield (conference)
LOSAT: line-of-sight antitank

M

MAD: mobile Army demonstrator
MD: mobile demonstrator
MELIOS: mini-eyesafe laser infrared observation set
MILES: Multiple Integrated Laser Engagement System
MIRACL: midinfrared advanced chemical laser
MLRF: miniature laser range finder
MPE: maximum permissible exposure

MRT: military ruggedized tablet
MTHL: mobile tactical high-energy laser
MTU: mobile test unit
MULE: modular universal laser equipment
MVL: minimum visible lesion

V

VA: visual acuity
VEP: visual-evoked potential

W

WRAIR: Walter Reed Army Institute of Research

N

NATO: North Atlantic Treaty Organization
Nd:YAG: neodymium-doped yttrium aluminum garnet
NFL: nerve fiber layer
NHP: nonhuman primate
NIR: near-infrared
NOHD: nominal ocular hazard distance

O

OCT: optical coherence tomography
OD: right eye (ocular dexter)
OPA: optical phased array
OS: left eye (ocular sinister)

P

PEO: Program Executive Office
PLC: pocket laser communicator
PMB: papillo-macular bundle
PRF: pulse repetition frequency
PRL: preferred retinal location

R

RBS: Robotsystem
R&D: research and development
RDT&E: research, development, test, and evaluation
RHME: retinal heating, moving eye (model)
RNFL: retinal nerve fiber layer
ROBS: rapid optical beam steering
RPE: retinal pigment epithelium

S

SAM: surface-to-air missile
SDI: strategic defense initiative
SLO: scanning laser ophthalmoscopy
SRI: Stanford Research Institute
SSL: solid-state laser

T

TD: technology demonstrator
TEM: transverse electromagnetic
THEL: tactical high-energy laser
TIE: total intraocular energy
TLOS: target location and observation system
Tm:YAG: thulium yttrium aluminum garnet
TOW: tube-launched, optically tracked, wire-guided
TSL: tri-service laser

U

UAV: unmanned aerial vehicle
UNFT: unified Navy field test
USACHPPM: US Army Center for Health Promotion and Preventive Medicine (now the US Army Public Health Center)
USAMRD: US Army Medical Research Detachment
UV: ultraviolet