

LaserFX – LETHALITY ASSESSMENT FOR HIGH-ENERGY LASER WEAPONS

KEY FEATURES

LaserFX is an interactive high-energy laser (HEL) lethality assessment tool used at the U.S. Air Force Research Laboratory (AFRL) Directed Energy Effects Branch (RDLE). The tool:

- Supports the existing assessment process and enhances productivity.
- Allows fast identification of “sweet spots,” which can be subject to more detailed analysis.
- Includes first-order (thermal mass) and 1D with 2D correction (Integrated Thermal Response Algorithm [ITRAL]) methodology.
- Is currently being enhanced for full kinetic energy (KE)-like probability-of-kill (P_K) analysis and AFRL uncertainty quantification techniques.

