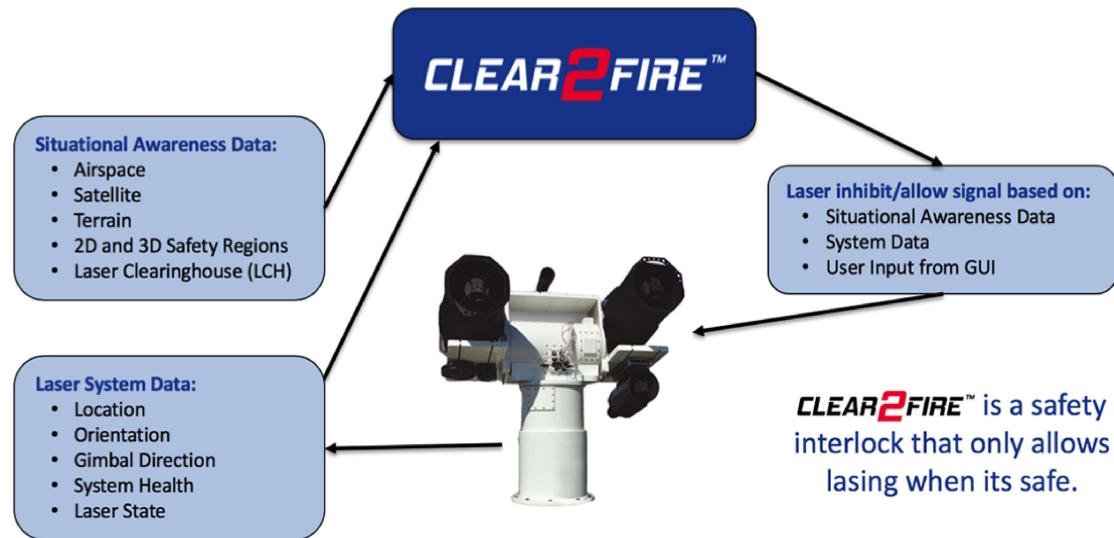


Clear2Fire Laser Safety System

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YOUR CHALLENGE IS OUR PROGRESS



Clear2Fire (C2F) is a highly adaptable laser safety system for use with: LIDAR/LADAR systems, laser communication systems, laser imaging systems, or high energy laser systems. For these and other laser systems that have dynamic pointing, C2F provides a fail-safe way to protect people and assets from inadvertent illumination. C2F is a real-time system that constantly monitors the laser systems, gimbal and surrounding environment for safety conflicts, and if any are found, laser emission can be inhibited. The system can deconflict laser operations with static constraints such as 2D (azimuth and elevation) and 3D (latitude-longitude-altitude)



the terrain, and your safety zones. System c
and the systems' health.



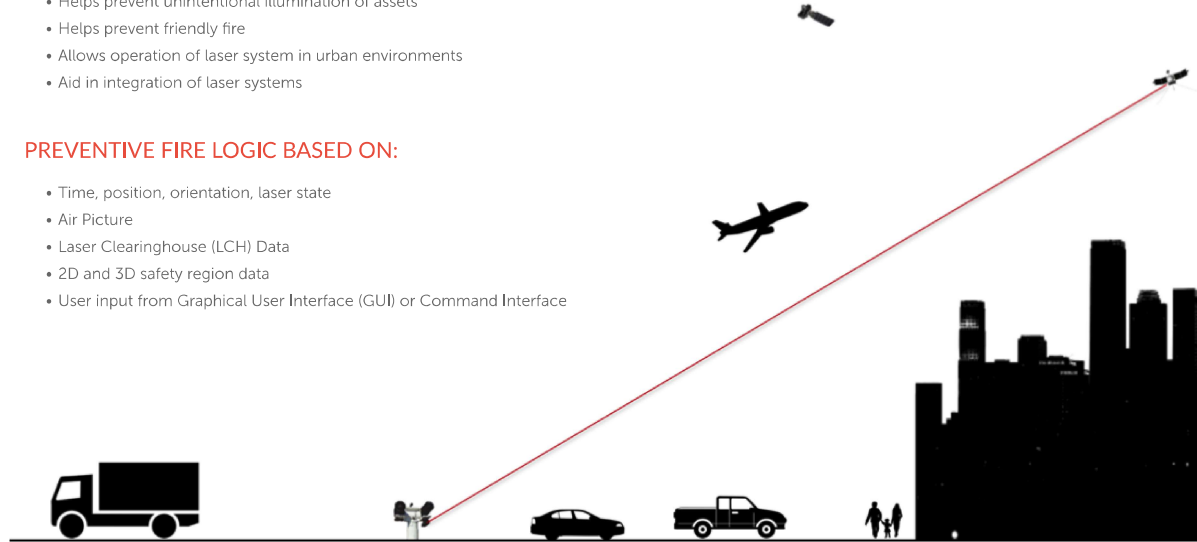
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- PRODUCTS
- SERVICES
- NEWS
- SEAPORT-E

BENEFITS

- Helps prevent unintentional illumination of assets
- Helps prevent friendly fire
- Allows operation of laser system in urban environments
- Aid in integration of laser systems

PREVENTIVE FIRE LOGIC BASED ON:

- Time, position, orientation, laser state
- Air Picture
- Laser Clearinghouse (LCH) Data
- 2D and 3D safety region data
- User input from Graphical User Interface (GUI) or Command Interface



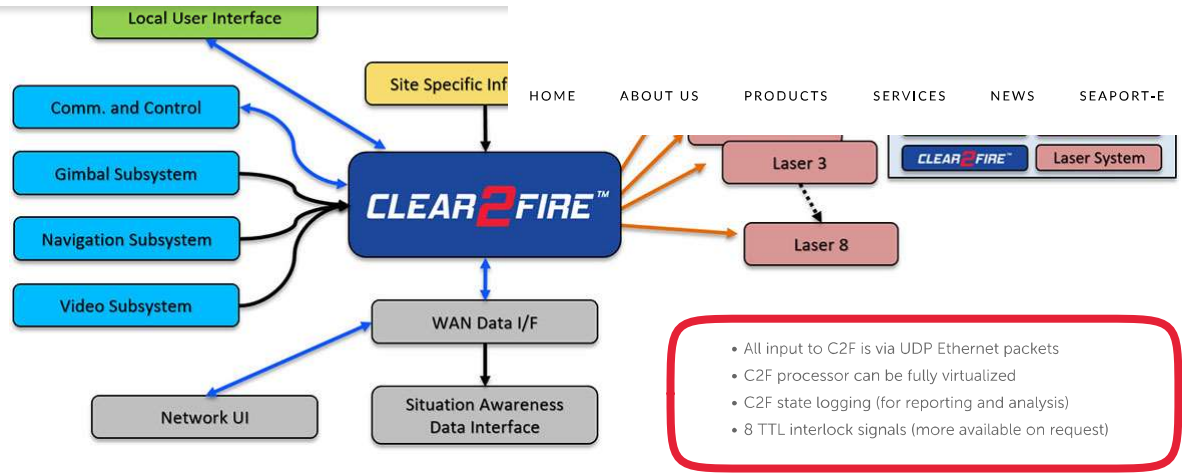
A combination of hardware, software, and 20-years of development

Processor

- Performs all safety calculations
- Provide graphical user input
- Safety configuration tools
- 8 independent laser controls

Laser Interface

- Only interface to the lasers
- Provides failsafe interlock
- Only two states: inhibit / allow
- Can control 8 independent lasers



CURRENT FEATURES

- Hardware Based Failsafe Operation
- Safety Protect Region (2D and 3D)
- Airspace Deconfliction (User Supplied Air Picture)
- Centralized and Decentralized Predictive Avoidance (PA)*
- Situational Awareness Graphic User Interface (GUI)
- Uses Inertial Reference Input
- Support Multiple Lasers with Single Device
- Open Interfaces

ADDITIONAL FEATURES

- Remote Control Interface
- Geodetic Information Systems (GIS) Terrain Mapping
- Video Surveillance Input
- Low Size, Weight, and Power (SWaP)
- Software Virtualization

* End user LCH approval required, Decentralized PA requires classified operation

Summary

Clear2Fire is based on verified and validated laser safety approaches, and is a complete safety solution providing 2D and 3D safety regions, airspace protection, and satellite protection. The system is commercially supported with software updates, training, repair, and upgrades. The Clear2Fire Safety System's hardware and software are fully customizable, designed to meet your specific application needs.



Vision Engineering Solutions, LLC is an award-winning team of experienced professionals providing advanced sensing solutions for defense, aerospace, and industrial applications.



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