

OPTRA'S  
**LASER EVENT RECORDER**  
WARNS PILOTS & THEN RECORDS DATA  
ON IN-FLIGHT EXPOSURES OF AIRCRAFT  
BY LASER LIGHT

This Laser Warning Sensor was developed for NavAir, the Naval Air Systems Command, to record and diagnose instances of exposure of naval aircraft to potentially hazardous laser beams.



**OPTRA**

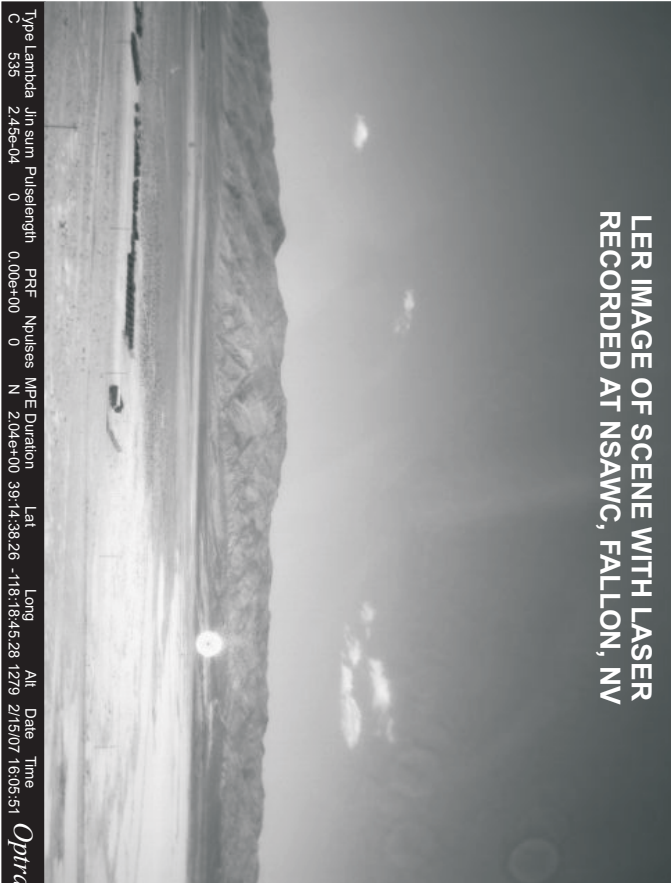
OPTRA, Inc.  
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978-887-6600 [www.optra.com](http://www.optra.com)

*Laser Event Recorder wins  
Aviation Week  
Product Breakthrough Award*

Aviation Week magazine has selected the OPTRA Laser Event Recorder as one of five Product Breakthrough Award winners, selected from a list of 25 finalists.

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LER IMAGE OF SCENE WITH LASER  
RECORDED AT NSAWC, FALLON, NV



Type Lambda: jin sum Pulselength: PRF: Npulses: MPE Duration: Lat: Long: Alt: Date: Time: Optra  
C: 535 2.45e-04 0 0 2.04e+00 39.14:38.26 -118:18:45.28 1279 2/15/07 16:05:51

**NEW IN THE LER MOD II**

- Improved spatial resolution in the scene image (752 x 480 pixels)
- Increased wavelength resolution (8nm)
- Improved GPS sensitivity
- Waterproof package
- Provision for firmware updating
- Provision for external power supply
- Improved source location accuracy in the scene image

# LER Features

IMMEDIATELY SENSES LASER IRRADIATION & WARNS PILOT

## MEASURES & RECORDS

- LASER WAVELENGTH
- LASER PULSE WIDTH & REP RATE
- IRRADIANCE (WATTS/CM<sup>2</sup>)
- GPS COORDINATES
- DIGITAL IMAGE OF SCENE WITH LASER SOURCE

Battery-powered -- small & light-weight;  
Easily attached near a cockpit window;  
Records multiple exposure data on CompactFlash cards;  
8 hr. continuous operation / 100 events.

"The compact Laser Event Recorder with three colored LEDs tells a pilot or crewmember if they're being targeted by a laser. Green means normal; yellow, a laser is pointed at them but is not a hazard; and red, an eye-threatening laser is in use."  
"The device not only provides instant feedback in real time, it also records detailed information onto a compact flash card for later analysis..."  
"In all tests, the LER was able to identify various types of lasers, at night and in bright daylight, and has proved resistant to being fooled by other light sources."

From AVIATION WEEK

For further information  
please contact OPTRA Inc. at  
[info@optra.com](mailto:info@optra.com)

# OPTRA

# LASER EVENT RECORDER (LER) APPLICATIONS

- Laser irradiation monitoring for military & commercial aircraft
- Record exposure data for laser range safety applications
- Monitor laser illumination of ships & land-based vehicles
- VIP protection



LASER BEAM

