

HUMAN HEALTH

ENVIRONMENTAL HEALTH



KEEPING OUR  
TROOPS  
**SAFE**  
ON THE GROUND  
ON THE WATER  
AND IN THE AIR

Delivering Mission-Critical  
**Defense and Aerospace Solutions**





Keeping Our Troops Safe  
with 50 years of Unequaled  
Experience Supporting  
Mission Critical Programs



## A Proven Heritage of Leadership in Supporting Critical Defense and Aerospace Programs

### Mission-Critical Performance

Today's advanced defense and aerospace applications demand a partner that will provide the technology and expertise to get the job done right the first time. When it comes to mission-critical performance, reliability and support, PerkinElmer delivers it all.

PerkinElmer has been intimately involved in the defense and aerospace industry for over 50 years and understands what it takes to get even the most complex project off the ground. From initial design to deployment, PerkinElmer consistently delivers mission-critical solutions for demanding defense and aerospace applications. Every product, whether customized to exact customer requirements, ruggedized commercial off-the-shelf units (COTS), or build-to-print, is engineered to meet stringent performance requirements and operate in extreme environments.



### Unequaled Experience

Our entire product family is backed by PerkinElmer's exceptional ISO 9001-certified design, production and test capabilities and more than 50 years of experience in hardware, software and systems integration. PerkinElmer's leadership in defense and aerospace design is the product of many exceptional capabilities:

- Innovative technologies
- Engineering expertise
- Comprehensive manufacturing
- Materials analysis
- Expert testing facilities
- State-of-the-art instrumentation in surface science, metallurgy, thermal analysis, and x-ray diffraction

## Exceptional Partnerships With Our Customers

PerkinElmer works closely with each customer throughout the entire product life cycle—from concept definition through long-term after-market support—while providing expert technical input at every step along the way. Dedicated program management services ensure successful attainment of qualification milestones, on-time delivery schedules and adherence to contractual commitments.

By utilizing a wide range of standard and customized components from within the portfolio, PerkinElmer is able to offer high-performance, integrated systems that provide more reliable and cost-effective solutions for its customers. Specialized design and test capabilities ensure reliable solutions that work flawlessly the first time, significantly reducing critical cost and performance risks of unproven designs. These unique capabilities fuel our ability to consistently deliver solutions that meet or exceed the complex specifications and critically short deadlines of the most demanding defense and aerospace applications.



### Sensors

PerkinElmer's wide variety of photodiodes, pulsed laser diodes, emitters, and detectors are ideal:

- Laser range finding
- Semi-active laser receiver and terminal guidance
- Laser warning systems
- Proximity fuzing



### Power Supplies

PerkinElmer's family of converters, controllers, sequencers, and digitally controlled power supplies provide high fidelity power for:

- Solid state radars
- Communication systems
- Guidance and control
- Depot and repair services



### Energetic Systems

PerkinElmer is a leader in energetic initiation and control with a variety of detonators, initiators, and Electronic Safe Arm Devices (ESAD) for:

- Warhead initiation
- Rocket motor ignition
- ESAD
- MIL-STD-190A/B compliance



### Radiant Sources

High-performance, rugged radiant energy solutions provide superior capability in:

- Infrared countermeasure systems
- Spacecraft lighting



### Rubidium Time Standards

PerkinElmer's precise rubidium atomic frequency/time standards are ideal, whether on earth or in space for:

- Tactical communications systems
- Navigation systems
- Global positioning



### Imaging

PerkinElmer delivers advanced UV – NIR imaging solutions, including CCD arrays and cameras for use in:

- Targeting and acquisition/designation
- Reconnaissance systems



### LEDs

PerkinElmer offers a wide range of standard and custom LEDs for:

- Interior aircraft lighting
- Anti-collision beacons
- Navigation lights
- Defense tactical displays



## Your Partner of Choice

When it comes to mission-critical performance, reliability and support, you want to work with a company you can trust, a partner that has the expertise and years of experience to support your project from concept through completion. For over 50 years, PerkinElmer has been partnering with its customers to provide a wide range of off-the-shelf and customer specific optoelectronic solutions for the most demanding defense and aerospace applications.

[www.perkinelmer.com/defense](http://www.perkinelmer.com/defense)

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