

**HANGAR SAFETY: Fire Detection and Protection**

Commercial aircraft costs can exceed \$200 million.  
Military aircraft cost exponentially more.

**SAFETY PROTECTION IS PARAMOUNT.**

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**DET-TRONICS FIRE PROTECTION AND SUPPRESSION SOLUTIONS**

Detecting flame in addition to heat and smoke improves response times.

Det-Tronics solutions for the unique hangar environment include the X3301 Multispectrum IR Flame Detector (pictured, at left), code and standard compliance and application expertise. Site analysis and fire testing determines placement of detectors to minimize false alarms and maximize protected areas.

**FIRE HAZARD DETECTION CHALLENGES:**

- ▲ Size of hangars presents huge area to be protected
- ▲ Equipment and aircraft obstruct views
- ▲ Large open doors permit view of external “friendly fire” sources
- ▲ Avionics can generate considerable electromagnetic interference (EMI)
- ▲ Aircraft damage occurs in seconds

**COMPLETE SOLUTIONS MUST:**

- ▲ Have a long detection range with a wide field of view
- ▲ Ignore false alarm sources such as EMI and “friendly fires”
- ▲ Respond rapidly
- ▲ Integrate detection, notification, and suppression functionality
- ▲ Place and aim detection equipment for optimum coverage
- ▲ Validate performance during commissioning
- ▲ Use performance-based design that adheres to codes and standards

Det-Tronics will:

- ▲ Determine detector placements to eliminate blind spots and maximize coverage
- ▲ Use high-performance, hangar specific, optical flame detectors with wide field of view and long detection range that rapidly detect fire and mitigate false alarms
- ▲ Integrate flame, gas, heat and smoke detectors, fire suppression and notification devices to improve performance and response times
- ▲ Navigate code requirements and application complexities to achieve desired results

**DET-TRONICS PIONEERED FLAME DETECTION. TODAY CUSTOMERS WORLDWIDE TRUST US TO PROVIDE FIRE & GAS SAFETY SYSTEM SOLUTIONS.**

Protecting aircraft and hangars requires high-performance fire detection and suppression systems. Det-Tronics understands what is needed to meet and exceed the requirements of the Authorities Having Jurisdiction (AHJ):

- ▲ NFPA 409—Standard on Aircraft Hangars
- ▲ NFPA 410—Standard on Aircraft Maintenance
- ▲ FM Global—Property Loss Prevention Datasheet 7-93 (April 2017)
- ▲ Unified Facilities Criteria UFC 4-211-01 (13 April 2017)—US Air Force, US Army, US Marines, US Navy

**REQUEST THE WHITE PAPER:  
“5 Keys to Successful  
Hangar Fire Detection”**

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