



**LOCKHEED MARTIN**   
*We never forget who we're working for®*

**F-16 Fighting Falcon**  
The Most Technologically Advanced 4th Generation Fighter in the World



## Any Mission, Any Time . . . the F-16 Defines Multirole

The enemies of world peace are changing. The threats are smaller, quicker and interspersed with friendlies, but no less potent than the threats of the past. Our tools and technologies to deal with these threats have evolved in keeping with the missions flown by today's warfighter.

The F-16 is the most capable 4th generation multirole fighter available today, building upon its legendary record of over 400,000 combat sorties. It has proven itself during the last 19 years of continuous combat with the U.S. Air Force and coalition forces. Significant improvements in operational capability have been incorporated from lessons learned from these real-world experiences. These improvements include:

- Detect/track of time-critical hard-to-find targets in all weather conditions
- In-flight data sharing with coalition forces
- Airborne mission role-change capability
- Expanded defense options against lethal threats
- Reduced operational costs





## Best Seat in the House



### F-16: Mission Ready, Mission Capable

Freedom and responsibility. With one comes the other. Freedom bestows many rewards. Responsibility poses many demands. Worldwide F-16 users clearly understand the responsibilities and requirements as they rise to all the challenges – supporting stability for finance and commerce and assuring freedom of passage by securing sea and air lines of communication. These and other missions call for a fighter that is fully capable of defending nations around the world – a fighter that meets stringent capability requirements.

- Deep interdiction with substantial payloads and an unrefueled combat radius exceeding 800 nautical miles
- All-weather, day or night precision strike
- Advanced, beyond-visual-range missiles
- Air-to-ground precision-guided munitions
- Suppression or destruction of enemy air defense systems
- Highest technology cockpit, systems and sensors
- High survivability achieved through a combination of low radar cross section and advanced electronic warfare systems
- Minimum operation and support costs
- Low manpower requirements

F-16 Fighting Falcon. No other international multirole fighter meets the requirements and the responsibilities needed by air forces around the world.

### F-16: Any Mission, Any Time

The F-16 has the capability to perform any mission, any time. Coastal air defense. Maritime interdiction. Deep interdiction strike. Lethal suppression of enemy air defenses (SEAD) missions. Whatever the mission, the F-16 has already flown it – and performs it more capably.

#### SEAD

No other multirole fighter has been used so extensively for SEAD missions. New precision emitter location systems and relative targeting – along with high-speed anti-radiation missile and Global Positioning System (GPS)-guided munitions – provide the F-16 the capability to suppress and hard kill any air defense site.

#### Air-to-Ground

Air-to-ground capabilities include internal onboard, forward-looking infrared radar systems, precision targeting systems, electro-optical/infrared precision weapons, laser-guided bombs and GPS-guided munitions as well as conventional munitions.

#### Deep Interdiction

The high fuel efficiency and low cruise drag of the F-16 provide range/payload performance unmatched by any other 4th generation fighter – including the option of probe and drogue refueling through a Conformal Air Refueling Tank System.

#### Maritime Interdiction

Monitoring the coastline, protecting sea lanes and airspace . . . the long range of the F-16, combined with the latest precision weapons, fills this vital need.

### Advanced Cockpit

Color multifunction displays provide the primary interface with sensors and weapons and give the pilot exceptional awareness of the battlespace through tactical situation formats. Cockpit and external lighting are fully compatible with night vision goggles. The helmet-mounted cueing system, combined with high off-boresight missiles, provides increased lethality against air threats. The same helmet also allows for quick acquisition and engagement of ground targets. The missionized two-seat version of the F-16 fully integrates the advanced weapons system into a two-person crew concept, boosting survivability and situational awareness in high-workload environments. Advanced autopilot and autothrottle modes decrease pilot workload. Automatic aircraft recovery features and state-of-the-art ground collision avoidance systems increase safety.

### Multimode Radar

The F-16 is available with both advanced multimode mechanically scanned and Active Electronically Scanned Aperture (AESA) radars. These radars facilitate all-weather targeting, while also providing high-resolution ground target detection and imaging. Multiple modes support all facets of the tactical environment. Today's mechanically scanned radar incorporates modern electronic technology that greatly improves reliability and maintainability. The AESA-equipped F-16 offers the added benefit of electronic beam scanning that enables air-to-air and air-to-ground radar modes to interact in near real time, so the pilot can use both simultaneously.

### Advanced Data Link

This network-centric capability connects pilots with other external sensors and information sources, providing unparalleled awareness of the tactical picture – the right information at the right time. Incoming data can be filtered via pilot interface so that the information is not overwhelming.

### Survivability Features

The small visual, IR and RF signatures of the F-16 reduce aircraft detection by the enemy. Modern threat warning systems, expendables and internal electronic warfare systems help avoid the most advanced threats. Superior agility, excellent pilot situational awareness, buried fuel lines and fuel inerting systems combine to reduce the F-16's vulnerability to attack. Critical systems redundancy and shielding enhance survivability.

### Affordability: Protecting Budgets and Borders

It might be said that no price tag can be put on the importance of national defense. Yet the reality is this: budgets and borders are both important – another reason the F-16 is the worldwide favorite. Today's most capable, best-value multirole fighter is also the most affordable in terms of procurement and operational life-cycle costs. For future upgrades to capability and supportability, there is potential cost sharing among the family of two dozen users and economies of scale with thousands of F-16s in service today.

### Complete Solution for Sustainment

The F-16 features an outstanding global logistics network. With aircraft based at more than 80 locations worldwide – from the hottest climates to the coldest – Lockheed Martin offers complete sustainment solutions for any customer force size, operational concept and support arrangement. Additionally, world-class training ensures F-16 pilots and maintenance technicians reflect the skills and insights of seasoned experts. As the backbone of many coalition operations, the F-16 provides full

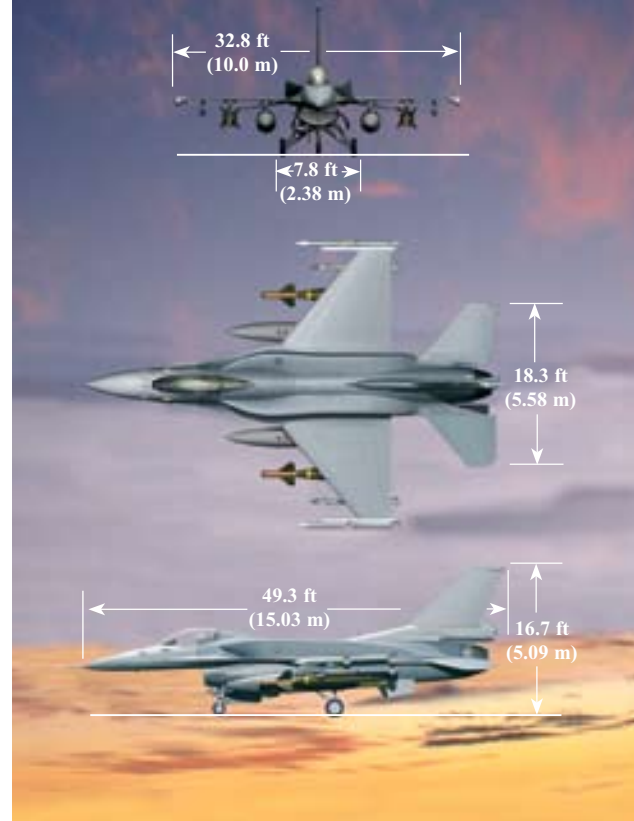


interoperability. With an unprecedented upgrade roadmap that assures continuous technology insertion, the F-16 offers customers a variety of affordable technology upgrades to ensure that aircraft purchased today will remain viable well into the future.

## F-16 Fighting Falcon

### Weights

Empty	20,300 lb / 9,207 kg
Max takeoff gross weight	48,000 lb / 21,772 kg
Engine thrust	29,000 lb / 13,000 kg class
Service life	8,000 hr
Height	16.7 ft / 5.090 m
Length	49.3 ft / 15.027 m
Design load factor	9 g
Wingspan	31.0 ft / 9.449 m
Speed	1,500 mph (Mach 2+)



*By every measure, the F-16 is the world standard multirole fighter.*





## **Ready for the Future**

Why is the F-16 the world's most sought-after fighter? The aircraft is ready for the future as it continues to foster relationships with air forces around the world. That's why the F-16 soars above all others as the international favorite. Lockheed Martin partners with the U.S. government and U.S. Air Force to ensure that nations around the world have the opportunity to evaluate a variety of choices in aircraft. The F-16 is consistently selected as the world's most capable, best-value multirole fighter available. More than 4,400 F-16s

have been produced for 25 countries with 52 follow-on buys by 14 customers – a key indicator of customer satisfaction. These customers have experienced the performance and reliability of the F-16 firsthand; they reaffirm the high quality of the aircraft. Nations that operate the F-16 have made an important commitment to their citizens' national defense. To that end, no other fighter can match the F-16's record . . . because no other fighter comes close to offering all its strengths. Proven. Effective. Affordable. Mission ready. Mission capable.

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Lockheed Martin  
Aeronautics Company  
P.O. Box 748  
Fort Worth, TX 76101  
[www.lockheedmartin.com](http://www.lockheedmartin.com)