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 more than 400,000 combat sorties. It has proven itself during the last 20 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:

- Detecting/tracking 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
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: Any Mission, Any Time. No other international multirole fighter meets the requirements and the responsibilities needed by air forces around the world.

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 performs.

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.

*By every measure, the F-16 is the world-standard multirole fighter.*
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. Twenty-six nations have
selected F-16s, with more than 4,400 produced to date and
53 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.