



## F-35C – Bringing 5th Generation Capability to the Carrier

### Redefining the Multirole Fighter

*The 5th generation F-35 Lightning II integrates advanced stealth technology into a highly agile, supersonic aircraft that provides the pilot with unprecedented situational awareness and unmatched lethality and survivability. As new threats emerge, it is more important than ever for U.S. and allied fighter fleets to fly the F-35 stealth fighter, the world's only 5th generation international aircraft. While each aircraft is uniquely designed to operate from different environments, all three variants set new standards in network-enabled mission systems, sensor fusion and supportability. The F-35 redefines the multirole fighter.*

### The World's Only 5th Generation Carrier Aircraft

For the first time in U.S. naval aviation history, radar-evading stealth capability comes to the carrier deck. The F-35C Carrier Variant sets new standards in weapon system integration, lethality, maintainability, combat radius and payload that bring true multimission power projection capability from the sea.



### Ruggedized Stealth

Together, Lockheed Martin, Northrop Grumman and BAE Systems bring a wealth of maritime aircraft heritage and extensive experience fielding stealth aircraft. The F-35C combines lessons learned from previous aircraft with technology breakthroughs to produce a fighter that retains its stealthy advantage with minimal low observable maintenance, even in the harshest shipboard conditions.

### Enhanced Asymmetric Advantage

The F-35C matches 5th generation survivability with major advances in network-enabled mission systems, reliability and interoperability. It is a first-day-of-the-war fighter with the capability to dominate adversaries in the air or on the surface, while surviving the most formidable threat environments.

### Reduced Operation and Support Costs

The F-35C Lightning II redefines fighter support, starting with unprecedented reliability and durability requirements. Simplicity and ease of maintenance have been designed into the aircraft, and the need for support equipment is reduced. Logistics are streamlined and automated, and the F-35C is able to accomplish its missions with less support than required by legacy fighters.



### F-35C

|                                     |   |
|-------------------------------------|---|
| Length .....                        | 51.5 ft / 15.7 m                          |
| Speed .....                         | Mach 1.6                                  |
| Wingspan .....                      | 43 ft / 13.1 m                            |
| Wing area .....                     | 668 ft <sup>2</sup> / 62.1 m <sup>2</sup> |
| Combat radius (internal fuel) ..... | >600 n.mi / 1,100 km                      |
| Range (internal fuel) .....         | >1,200 n.mi / 2,200 km                    |
| Internal fuel capacity .....        | 19,200 lb / 8,708 kg                      |
| Max g-rating .....                  | 7.5                                       |
| Weapons payload .....               | 18,000 lb / 8,160 kg                      |
| Propulsion .....                    | F135-PW-100                               |
| Thrust* .....                       | 40,000 lb Max / 25,000 lb Mil             |

\* Maximum Power (Max) = with afterburner  
Military Power (Mil) = without afterburner



HELPING THE FUTURE ARRIVE

**LOCKHEED MARTIN**  
We never forget who we're working for<sup>®</sup>