



# 301st Fighter Wing

## F-35A Lightning II

### 5th Gen Lethal Fighter



#### Mission

The F-35A is the U.S. Air Force's latest fifth-generation fighter. It will replace the U.S. Air Force's aging fleet of F-16 Fighting Falcons and A-10 Thunderbolt II's, which have been the primary fighter aircraft for more than 20 years, and bring with it an enhanced capability to survive in the advanced threat environment in which it was designed to operate. With its aerodynamic performance and advanced integrated avionics, the F-35A will provide next-generation stealth, enhanced situational awareness, and reduced vulnerability for the United States and allied nations.

#### F-35A Specs

Length.....	51.4 ft/15.7 m
Speed.....	Mach 1.6
Wingspan.....	35 ft/10.7m
Wing Area.....	460 ft <sup>2</sup> /42.7 m <sup>2</sup>
Combat Radius (Internal Fuel).....	>590 n.mi/1,093 km
Range (Internal Fuel).....	>1,200 n.mi/2,200 km
Internal Fuel Capacity.....	18,250 lb/8,278 kg
Max G-Rating.....	9.0
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

#### SENSOR PACKAGE:

Designed to gather, fuse and distribute more information than any fighter in history, giving operators a decisive advantage over all adversaries.

#### TACTICAL DATA LINKS:

Provide the secure sharing of data among its flight members as well as other airborne, surface and ground-based platforms required to perform assigned missions

#### HELMET MOUNTED DISPLAY SYSTEM:

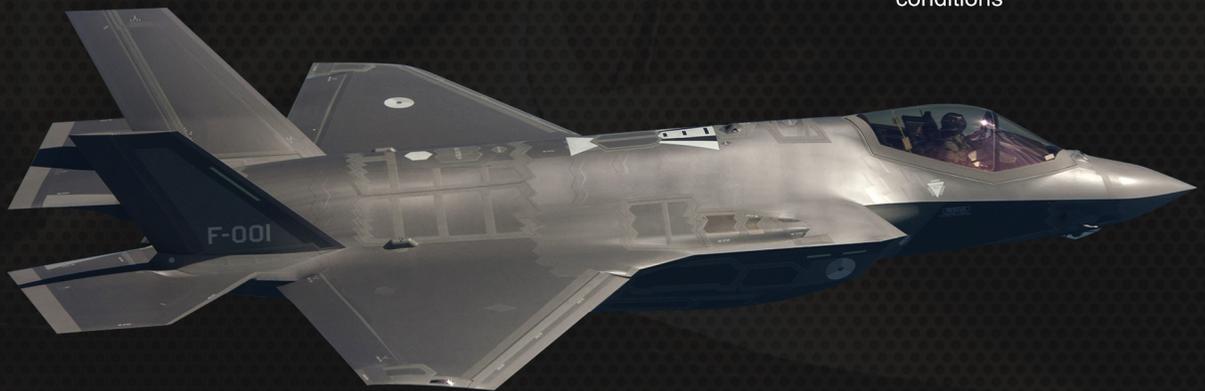
All the intelligence and targeting information an F-35 pilot needs to complete the mission is displayed on the helmet's visor

#### ENHANCED PILOT PERFORMANCE:

Designed to provide the pilot with unsurpassed situational awareness, positive target identification and precision strike in all weather conditions

#### ENGINE:

Produces 40,000 lbs. of thrust and consists of a 3-stage fan, a 6-stage compressor, an annular combustor, a single stage high-pressure turbine, and a 2 stage low-pressure turbine



#### ELECTRO-OPTICAL DISTRIBUTED APERTURE SYSTEM:

Provides pilots with situational awareness in a sphere around the aircraft for enhanced missile warning, aircraft warning, and day/night pilot vision

#### ELECTRO-OPTICAL TARGETING SYSTEM:

Provides extended range detection and precision targeting against ground targets, plus long range detection of air-to-air threats

#### TAKEOFF AND LANDING:

The F-35A is an agile, versatile, high-performance, 9g capable multi-role fighter that combines stealth, sensor fusion, and unprecedented situational awareness

#### LOGISTICS SUPPORT:

Designed to achieve unprecedented levels of reliability and maintainability, combined with a highly responsive support and training system linked with the latest in information technology

**TO TRAIN AND DEPLOY COMBAT-READY AIRMEN**

