

REMOTELY PILOTED AIRCRAFT (RPA)



Learn more at www.ga-asi.com



SKYGUARDIAN/SEAGUARDIAN MQ-9B

Wing Span | 79 feet

Length | 38 feet

Maximum Altitude | >40,000 feet

Maximum Air Speed | 242 miles per hour

Maximum Endurance | 40 hours



WORLD-WIDE IMPACT

- Over 1,000 GA-ASI RPAs have been built
- Have flown for over 7,000,000 hours
- Flights in over 20 countries

SERVICES:

- Inspect train tracks, power lines, energy pipelines, communications infrastructure, canals, seaports; land surveys
- Monitor wildfires and floods; disaster relief
- Atmospheric and climate research
- Integration of RPAs in U.S. National Airspace System
- National and World Security

SUPPORTING

- NASA
- Department of Homeland Security
- Federal Aviation Administration
- National Guard
- Department of Defense
- First Responders
- Scientists



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SUPPORTING NASA MISSIONS



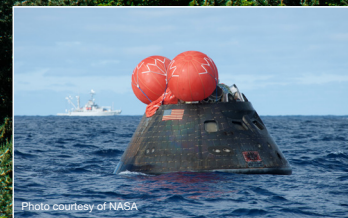
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NASA IKHANA REMOTELY PILOTED AIRCRAFT MADE BY GA-ASI

Ikhana (ee-kah-nah) is a Native American word from the Choctaw Nation meaning intelligent, conscious or aware.

- Collects data to enable scientists to:
 - » Better understand and model environmental conditions and climate
 - » Improve capabilities of remotely piloted aircraft to perform advanced missions
 - » Demonstrate technologies enabling new piloted and remotely piloted aircraft capabilities, such as flying in the National Airspace System
- Provided real time imaging of 26 major fires across nine western states, minimizing hazards to firefighters
- Supported NASA Orion Capsule splashdown



FIGHTING WILDFIRES



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INFRARED
SENSORS



SMOKE/CLOUD
VISIBILITY



RESOURCE
MAPPING

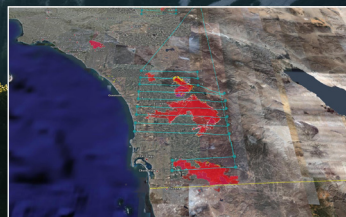


RELIABLE
COMMUNICATIONS

GA-ASI MQ-9 remotely piloted aircraft and piloted aircraft are working with NASA, California Air National Guard, and CAL FIRE to provide support for fighting wildfires and other emergencies.



- Uses advanced radar/visible light/infrared sensors and mapping software to determine the fire's location
- Provides video through smoke, fire, clouds and darkness from 27,000 feet
- Allows firefighters to map the perimeter of the fire and predict the future path of the fire
- Assists fire fighters with tactical planning, resource allocation, and decision-making
- Future uses will provide "cell phone tower in the sky" capability to provide reliable communications for all first responders



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PROVIDING DISASTER ASSISTANCE



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INFRARED
SENSORS



SMOKE/CLOUD
VISIBILITY



NATURAL
DISASTERS



EMERGENCY
RESPONSE

Customs and Border Protection GA-ASI MQ-9 can fly at 276 miles per hour for 27 hours. The 36-foot-long aircraft, with a 66-foot wing span, also has a color optical and infrared cameras that can stream live video across a satellite hookup to those dealing with disaster response, showing leaks from oil rigs or blown-off roofs.

- Deployed for the 2010 Haitian earthquake and for Hurricanes Gustav, Hanna, and Ike
- Look at marinas and key ports before and after the hurricane moves through so that Federal Emergency Management Agency officials can assess damage and decide what areas are top-priority concerns after the storms, and determine emergency response routes
- Infrared capability can detect warm bodies in cold water for search-and-rescue
- Synthetic aperture radar can create a visual picture through clouds, fog, and rain, day or night



UNCREWED COMBAT JETS



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FQ-42A

The FQ-42A Collaborative Combat Aircraft (CCA) is a revolutionary semi-autonomous unmanned jet designed to act first in contested airspace and seamlessly integrate with crewed fighters for a decisive battlespace advantage. It features a highly producible common core that provides an affordable fighter capacity at scale for enhanced flexibility, scalability, and mission effectiveness. Backed by decades of GA-ASI's advancements in autonomy and battle-proven technologies, FQ-42A is the future of air combat.



Avenger®

The high-speed, multi-mission Avenger is a long-endurance, medium-to-high-altitude Remotely Piloted Aircraft (RPA) system that can perform wide-area surveillance, time-sensitive strike missions over land or sea, and a host of other challenging military or civilian missions. Avenger can operate at speeds up to 460 mph, at an altitude of over 50,000 feet, and 20+ hours of endurance, resulting in quick response and rapid repositioning for improved mission flexibility.



XQ-67A

The XQ-67A Off-Board Sensing Station (OBSS) is an unmanned aircraft built and flown in partnership with the Air Force Research Laboratory that uses a common core chassis designed for rapid and cost-effective production. Partnered with manned aircraft, this cutting-edge platform enables situational awareness that provides a strategic advantage.



DETECT & AVOID SYSTEM



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General Atomics Aeronautical Systems, Inc.'s (GA-ASI) Detect and Avoid (DAA) system is a highly effective solution for remotely piloted aircraft to “see and avoid” cooperative and non-cooperative aircraft. DAA also provides advanced collision avoidance capability for safe and FAA-compliant operations in both restricted and unrestricted airspace. With the DAA system, remotely piloted aircraft pilots can monitor air traffic and receive automated alerts, as well as review local weather conditions, empowering crews with critical airspace insight for tactical conflict management. DAA provides a proven solution for safe operations and unmatched air-to-air domain awareness that expands mission capabilities.



- Enables “see and avoid” capability for transit and loiter operations
- Uses simultaneous alerting and guidance assessment to provide early notification of developing traffic encounters to Unmanned Aerial System operators
- Ensures local air traffic is reliably detected and displayed to aircrew
- Detects cooperative and non-cooperative traffic in the local airspace

