

THE NASC
TIGERSHARK-XP™



**BATTLEFIELD
PROVEN
AMERICA TOUGH**





TIGERSHARK-XP™

RUGGED - VERSATILE - ADAPTABLE

With a pedigree that includes over 100,000 flight hours in the most hostile theaters of conflict in modern warfare, the NASC TigerShark-XP™ is a proven aerial platform that has performed without fail through thousands of sorties. Its rugged design and low cost make it ideal for a range of applications from professional UAV flight training to complex payload integration and deployment for both operational uses as well as research and development. Proudly made in America, the TigerShark-XP is a UAV solution with performance that rivals or exceeds larger and far costlier unmanned aircraft systems.



VERSATILITY

A medium-altitude, long-endurance UAV system, the TigerShark-XP is a true workhorse offering extreme versatility in mission configuration. Engineered for application adaptability, our experienced technicians can rapidly reconfigure the TigerShark-XP to meet any customer's individual requirements. Its accommodating open architecture allows for unlimited design customization for both a variety of payloads and capabilities. Though more compact than other airframes in the same class, the TigerShark-XP has the ability to carry and deploy more and larger payloads than similar UAV systems. NASC can cost effectively deliver a customized aircraft by leveraging our extensive R&D capability and production expertise.

SPECIFICATIONS

APPLICATIONS AND PAYLOAD CAPABILITIES

As UAV technology evolves, the list of suitable applications grows. The TigerShark-XP™ has benefitted from many years of successful deployments. In that time, this versatile and multi-mission capable UAV has been tasked with a wide variety of both military and commercial missions proving its unmatched adaptability.

The versatile TigerShark-XP was not designed around a specific payload. It incorporates a “Payload Plug and Play” system that minimizes cost and allows for the seamless integration of new and different payloads into the XP platform. A forward-thinking airframe design enables the TigerShark-XP to carry and employ multiple payloads simultaneously for an unmatched level of operational flexibility. The TigerShark-XP is configurable for an unlimited variety of payloads.

TigerShark-XP General Applications and Payloads Include:

Aerial Surveillance/Surveying with Turret-based Digital EO/IR (Thermal Camera) and Hyperspectral Imagers

- Disaster Response & Damage Assessment
- Law Enforcement/First Response
- Search and Rescue
- Fire Mapping
- Large Area Agriculture & Livestock Monitoring
- Natural Resource Management
- Electrical Utility Line Security and Monitoring
- Wildlife Conservation
- Emergency Delivery

Payload/Sensor Research & Development

- Turret Systems
- EO/IR Camera Sensors
- Synthetic Aperture Radar Systems (SAR)
- Microwave Imaging Systems
- Laser Scanning Systems

Communication and Communication Relay Platforms

- High Data Rate Software Defined Microwave Radio Systems
- Microwave Power Repeater Systems
- Airborne Cellular Base Station
- COMINT/SIGINT Systems

Laser Scanning Systems

- Geological & Terrain Mapping
- Oil, Gas and Mineral Exploration
- Utility Line Security and Monitoring

LIDAR Chemical Detection and Atmospheric Probing

- Environmental/Pollution Monitoring
- Large Area Insect Spraying
- Meteorological/Climate Research

TigerShark-XP Defense Applications Include:

- Intelligence, Surveillance and Reconnaissance
- Counter UAS
- Electronic Warfare
- Airborne Launched Effects
- Communications Relay
- Signals Intelligence
- Collaborative Combat Aircraft



TigerShark

Dimensions

A: Wingspan

B: Length

General Specifications

Engine

Fuel Capacity

Empty Weight

Gross Weight

Payload Specifications

Max. Payload Weight

Payload Capacity

Frequencies

All Frequencies

Flight Performance

Max. Altitude

Max Speed

Loiter Speed

Launch and Recovery

Endurance

+ Dependent on

* Estimated - A

XP™ SPECIFICATIONS

21' 9" (6.6m)
14' 3" (4.3m)

ations

32HP (Other options available)
20 gal. (76L)
315 lbs.* (143kg)*
515 lbs. (234kg)

ations

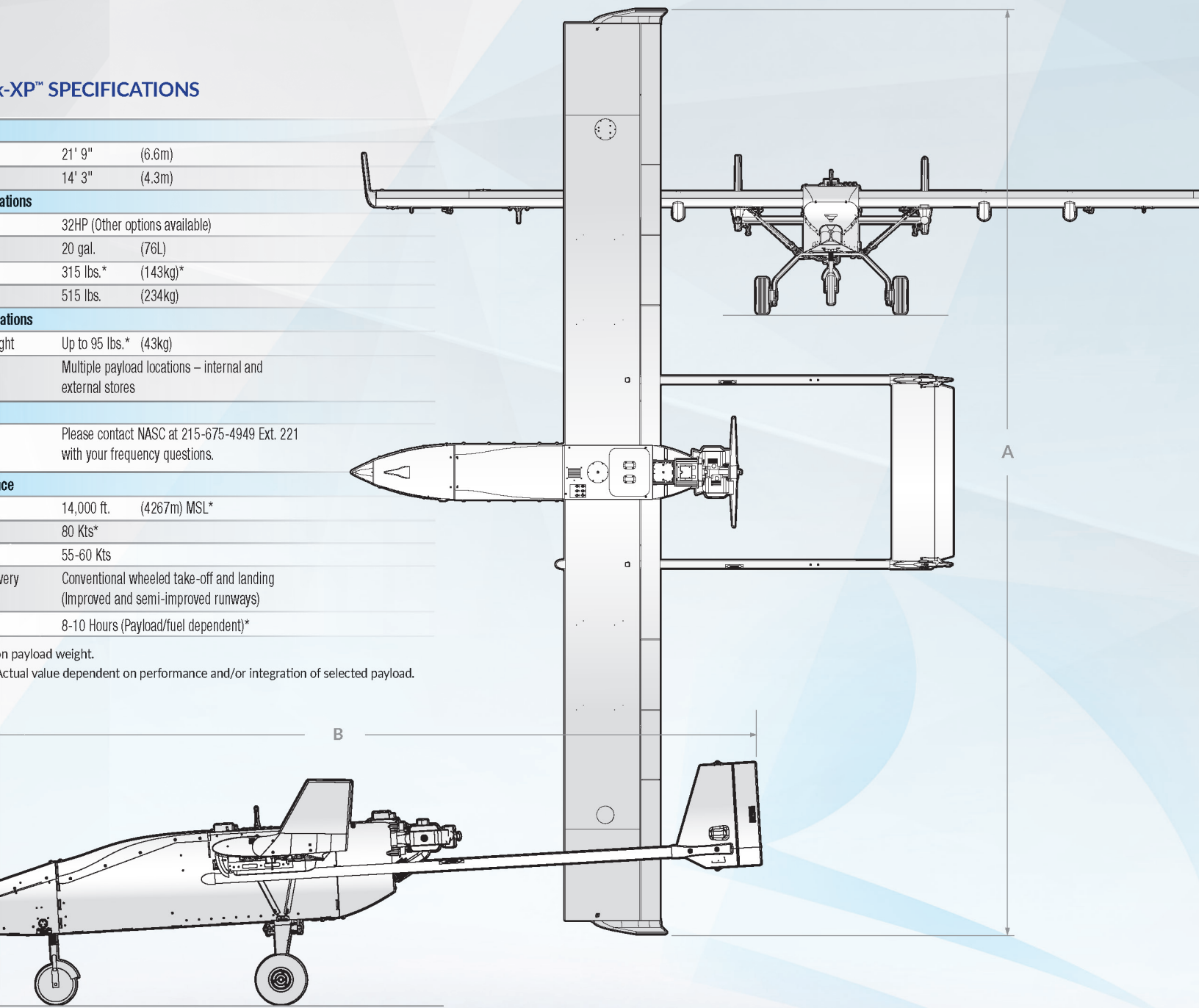
ght Up to 95 lbs.* (43kg)
Multiple payload locations – internal and external stores

Please contact NASC at 215-675-4949 Ext. 221 with your frequency questions.

ce
14,000 ft. (4267m) MSL*
80 Kts*
55-60 Kts

ery
Conventional wheeled take-off and landing (Improved and semi-improved runways)
8-10 Hours (Payload/fuel dependent)*

on payload weight.
Actual value dependent on performance and/or integration of selected payload.



DESIGN HISTORY

The NASC TigerShark-XP™ is a variant of the US Navy RQ-23A TigerShark Remotely Piloted Aircraft. The RQ-23A has performed over 100,000 hours of highly successful Intelligence, Surveillance and Reconnaissance missions in numerous theaters of operation. The TigerShark-XP design has the reliability and operational performance of the RQ-23A with the addition of new technologies including SATCOM and WAMI imaging to appeal to a broader domestic and global customer base.

NASC constantly integrates new technology into the TigerShark-XP design and provides various options including autonomous waypoint navigation, UHF command and control link for autonomous and manual flight, and VHF radio communication relay for operations in the national airspace. TigerShark-XP is built under the rigorous AS9100D Quality Control Program Standard resulting in the highest possible level of availability and reliability.

COMMAND AND CONTROL

The TigerShark-XP UAV is available with the NASC Mobile Operations Center (MOC). The MOC contains the Ground Control Station, a complete maintenance workshop, and storage/transport for the aircraft. The TigerShark-XP can be set up on site with all supporting ground equipment by a four-person team in three hours and disassembled and off site within three hours. NASC can provide turnkey aircraft complete with flight crew training or NASC operation of customer-owned assets, or combination of both.

NASC offers a wide variety of training programs. These include, but are not limited to, air vehicle pilot, mission commander, technician, instructor, and refresher training. Our highly experienced flight teams have over 18,000 hours of combined unmanned aircraft flight time.

**Available for purchase or lease,
the NASC TigerShark-XP™ is the proven
solution when you require
a truly rugged, medium-altitude,
long-endurance UAV.**



Corporate Headquarters

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NASC Information Technology Center

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Unmanned Aircraft Systems

Special Projects Facility

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Ivyland, PA 18974
Phone: (215) 675-4900

Advanced Acoustics Laboratory

607 Louis Dr., Ste. G
Warminster, PA 18974
Phone: (215) 675-4900

NASC Anti-Submarine Warfare Sector

48015-4 Pine Hill Run Rd., Ste. 100
Lexington Park, MD 20653
Phone: (215) 675-4900

UAS Flight Test Facility

Griffiss International Airport
625 Bomber Drive
Rome, NY 13441
Phone: (315) 533-4421

NAVAIR Sonobuoy Management

14051 Westgate Ct., Ste. A
Crane, IN 47522
Phone: (812) 863-7070

Combat Systems Performance Location

Geronimo Rd., Pershing Hall,
Bldg. 59 & 60
Fort Sill, OK 73503
Phone: (580) 442-3054

Yuma Proving Ground NUAUV Facility

Hwy 95, Cibola Lake, Rd,
(Mile Marker 82) Building #8905
Yuma, AZ 85366

THE NASC STORY

Since 1977, NASC has provided innovative solutions to the Department of Defense, federal research institutions, and the commercial sector. Our specialized products, support, and services are currently being used in multiple operational theaters around the world. NASC is proud to have delivered an extremely high level of quality and reliability to the Unmanned Aircraft Systems industry since the year 2000. NASC offers UAS development, manufacturing, flight services, flight training, support, service, and maintenance. In addition to advanced product development capabilities, our hard-won expertise allows an unmatched level of in-the-field operational support by NASC operators and NASC trained customer crews. Other NASC areas of expertise include UAS Ground Control Stations, Anti-Submarine Warfare Technology, Advanced Acoustics and Sensor Development, Persistent Surveillance Systems Services, Combat Systems Development and Support, and Information Technology Services.

NASC IS PROUD TO HAVE SERVED THE FOLLOWING CUSTOMERS

- Naval Air Warfare Center Aircraft and Weapons Divisions
- Naval Air Systems Command
- Space and Naval Warfare Systems Command
- U.S. Naval Research Laboratory
- Office of Naval Research
- Sandia National Laboratories
- Federally Funded Research and Development Centers
- Air Force Research Laboratory
- Georgia Tech Research Institute
- Mississippi State University
- University of Maryland
- Department of Homeland Security
- U.S. Air Force
- Department of the Army
- U.S. Marine Corps
- NASA

For detailed information on the TigerShark-XP™, please contact NASC Business Development via email at Busdev@nasc.com or by phone at (215) 675-4900.



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OUR WEBSITE



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