# Uss george washington cvn overview ship specs

**uss george washington cvn overview ship specs** The USS George Washington (CVN-73) is a prominent aircraft carrier serving as a vital component of the United States Navy's fleet. As an integral part of naval power projection, this vessel embodies advanced technology, impressive specifications, and strategic capabilities. In this comprehensive overview, we will delve into the ship’s specifications, design features, armament, propulsion system, and operational capabilities to provide a detailed understanding of this formidable naval asset.

## Introduction to USS George Washington (CVN-73)

The USS George Washington is a Nimitz-class supercarrier, one of the largest warships in the world. Commissioned on July 4, 1992, this aircraft carrier has played a significant role in various military operations, demonstrating the United States' naval dominance. Named after the first President of the United States, George Washington, the vessel carries a legacy of strength and resilience.

## Ship Specifications

Understanding the physical and technical specifications of the USS George Washington helps appreciate its operational capacity and technological sophistication. The key specifications are as follows:

## Dimensions and Displacement

1. **Length:** approximately 1,092 feet (332.8 meters)
2. **Beam (Width):** 134 feet (40.8 meters) at the waterline
3. **Draft:** approximately 37 feet (11.3 meters)
4. **Displacement:** around 104,000 long tons (approx. 105,700 metric tonnes) at full load

## Propulsion and Power

The USS George Washington is powered by a robust nuclear propulsion system that grants it virtually unlimited range and high endurance.

1. **Propulsion System:** Two A4W nuclear reactors
2. **Propellers:** Four steam turbines driving two shafts
3. **Power Output:** Approximately 260,000 shaft horsepower (shp)
4. **Speed:** Capable of reaching speeds in excess of 30 knots (about 34.5 mph or 55.5 km/h)
5. **Operational Range:** Unlimited range due to nuclear fuel, limited primarily by provisions and crew endurance

## Aircraft Capacity

The USS George Washington is designed to carry a substantial air wing, vital for offensive and defensive operations.

1. **Aircraft Complement:** Up to 90 aircraft
2. **Typical Aircraft Types:** F/A-18 Hornets, F-35C Lightning IIs, E-2 Hawkeyes, EA-18G Growlers, and helicopters

## Complement and Crew

The ship operates with a large crew to manage its complex systems and aircraft.

1. **Ship's Crew:** approximately 3,200 sailors and officers
2. **Air Wing Personnel:** Around 2,400 personnel

# Design Features and Technologies

The USS George Washington incorporates advanced design features aimed at enhancing operational efficiency, survivability, and combat effectiveness.

## Hull Design and Stealth Features

The hull design emphasizes stability and seaworthiness, with some features aimed at reducing radar cross-section to improve survivability.

## Flight Deck and Hangar

- Size: The flight deck spans over 1,095 feet (333 meters), accommodating multiple aircraft take-offs and landings simultaneously. - Elevators: Four large aircraft elevators facilitate rapid movement of aircraft between hangar and flight deck. - Hangar Capacity: The enclosed hangar can house a significant portion of the air wing, providing maintenance and storage.

## Navigation and Combat Systems

- Radar and Sensors: Advanced radar systems such as the AN/SPY-1D(V) radar for air and missile defense. - Command Systems: Integrated combat information systems for real-time data sharing and battle management. - Electronic Warfare: Capabilities include jamming and deception to counter enemy threats.

# Armament and Defensive Systems

While primarily a naval aviation platform, the USS George Washington is equipped with various defensive weapons to protect itself and its air wing.

1. **Phalanx CIWS:** Close-in weapon system for missile defense
2. **Sea Sparrow Missiles:** Short-range anti-aircraft missiles
3. **Machine Guns:** Multiple .50 caliber machine guns for close-range defense

The ship's primary defense lies in its integrated radar and electronic warfare systems, which enable early threat detection and countermeasures.

# Operational Capabilities

The USS George Washington is a versatile platform capable of executing a broad spectrum of missions, including:

## Power Projection

Deploying air power globally, striking targets, and supporting ground operations.

## Maritime Security and Deterrence

Maintaining presence in strategic regions to deter potential adversaries.

## Humanitarian Assistance and Disaster Relief

Providing aid and support during crises through its onboard medical facilities and logistical capabilities.

## Multi-Mission Flexibility

Adaptable to various combat scenarios, thanks to its extensive air wing and advanced command systems.

# Recent Upgrades and Modernization

To keep pace with evolving threats, the USS George Washington has undergone several modernization programs, including:

1. Upgraded radar and combat systems
2. Enhanced aircraft launch and recovery systems
3. Improved living conditions and crew facilities

These upgrades extend the operational lifespan and enhance the vessel's combat readiness.

# Conclusion

The USS George Washington (CVN-73) stands as a testament to American naval engineering and strategic capability. Its impressive specifications—including its length, displacement, nuclear propulsion, and extensive air wing—make it a formidable force capable of projecting power across the globe. With advanced technology, robust defensive systems, and versatile operational capabilities, the USS George Washington continues to be a cornerstone of the United States Navy's fleet, ensuring maritime dominance and national security. Whether serving in peacetime patrols or active combat zones, the ship's specifications and features exemplify the pinnacle of modern naval warfare. As a nuclear-powered supercarrier, it embodies the strength, endurance, and technological innovation that keep the United States at the forefront of maritime security.

USS George Washington CVN Overview Ship Specs

The USS George Washington (CVN-73) stands as a formidable example of modern naval engineering and American maritime power. As a Nimitz-class aircraft carrier, she embodies decades of technological advancements, strategic versatility, and relentless operational readiness. This article provides a comprehensive overview of the ship's specifications, design features, and technological capabilities, offering readers an in-depth understanding of what makes the USS George Washington a pivotal asset in the United States Navy's fleet.

## Introduction

The USS George Washington CVN overview ship specs encapsulate the essence of an aircraft carrier that combines immense size, cutting-edge technology, and formidable firepower. As a flagship of U.S. naval operations, she plays a crucial role in projecting American influence across the globe. From her hull design to her onboard systems, every aspect of the ship underscores her mission to serve as an afloat airbase capable of conducting a wide array of military operations, from combat to humanitarian assistance.

## Design & Dimensions

### Hull and Structural Design

The USS George Washington belongs to the Nimitz class, which is characterized by their massive, flat-top hulls designed to accommodate a large air wing and supporting systems. Her hull is constructed primarily of high-strength steel and aluminum alloys, ensuring durability and resilience against threats at sea.

1. Length: Approximately 1,092 feet (332.8 meters)
2. Beam (width): 134 feet (40.8 meters)
3. Draft: 38 feet (11.6 meters)
4. Displacement: About 97,000 long tons (when fully loaded)

The ship's hull design emphasizes stability and maneuverability. The broad beam supports a large flight deck while maintaining structural integrity under high sea states. The ship is also equipped with bulbous bows and other

hydrodynamic features to optimize speed and fuel efficiency.

Propulsion System

The USS George Washington is powered by a nuclear propulsion system, which grants her virtually unlimited operational range and high endurance. The specifics include:

1. Nuclear Reactors: Two A4W reactors supplied by General Electric
2. Propulsion: Four steam turbines driving two shafts
3. Total Power Output: Approximately 260,000 shaft horsepower
4. Maximum Speed: Over 30 knots (about 34.5 miles per hour or 55.5 km/h)
5. Operational Range: Unlimited, limited only by supplies, since she can operate for over 20 years without refueling

This nuclear propulsion ensures that the carrier can maintain high speeds for extended periods, crucial for rapid deployment and sustained operations across the globe.

Air Wing and Deck

Flight Deck Specifications

The flight deck of USS George Washington is a sprawling area designed for the launch, recovery, and servicing of aircraft. Key features include:

1. Size: Approximately 4.5 acres (about 180,000 square feet)
2. Catapults: Four steam catapults (with some modern carriers transitioning to electromagnetic systems in newer classes)
3. Arrestor Cables: Four, for aircraft recovery
4. Elevators: Four large elevators facilitating quick movement of aircraft between the hangar deck and flight deck

The deck's layout supports simultaneous take-offs and landings, enhancing sortie rates and operational tempo. The design incorporates safety markings, firefighting systems, and weather monitoring equipment to ensure efficient aircraft operations under various conditions.

Aircraft Complement

The USS George Washington primarily carries a mix of fixed-wing aircraft and helicopters, including:

1. F/A-18E/F Super Hornets: Multi-role fighters serving as primary strike aircraft
2. E-2 Hawkeye: Early warning and command aircraft
3. MH-60 Seahawk: Multi-mission helicopters for anti-submarine warfare, search and rescue, and logistics

Her typical air wing comprises around 60 aircraft, which can be tailored to specific mission requirements.

Internal Layout & Systems

Hangar and Support Facilities

Beneath the flight deck lies a large hangar deck, which provides sheltered space for aircraft maintenance, storage, and preparation. The hangar spans several decks and is equipped with:

1. Climate control systems
2. Heavy-duty lifts and trolleys
3. Maintenance workshops and storage areas

This setup ensures rapid turnaround of aircraft during deployments and operations.

Crew and Personnel

The ship's complement includes around 3,200 personnel, including sailors, airmen, and officers. The internal layout accommodates living quarters, mess halls, medical facilities, and recreational spaces designed for long deployments.

Defensive & Electronic Systems

Self-Defense Capabilities

The USS George Washington is equipped with an array of defensive systems to counter aerial, surface, and underwater threats:

1. Phalanx CIWS: Close-in weapon system for missile defense
2. RIM-116 RAM: Rapid-attack missile system for anti-missile defense
3. Sea Sparrow Missiles: Surface-to-air missiles for fleet defense

Electronic and Communication Systems

Modern aircraft carriers serve as command ships, and USS George Washington is no exception. Her electronic suite includes:

1. Radar Systems:
2. AN/SPY-1D(V) Radar (Aegis Combat System): Multi-function phased-array radar for missile and air tracking
3. SPS-67 Surface Search Radar
4. Communication Suites: Satellite links, secure radios, and data links for coordination with other naval assets and command centers
5. Electronic Warfare: Systems designed to detect, jam, or deceive enemy sensors and missiles

These systems enable the carrier to operate effectively within the larger fleet and to carry out complex, coordinated strike missions.

Armament & Weapon Systems

While primarily an air platform, the USS George Washington carries a limited array of onboard weaponry to defend herself:

1. RIM-7 Sea Sparrow Missiles: For short-range air defense
2. Phalanx CIWS: For last-ditch missile defense
3. Small caliber firearms: Including machine guns for close-in defense

Her primary offensive power emanates from her air wing, capable of delivering a broad spectrum of strikes across land, sea, and air.

Operational Capabilities and Missions

The USS George Washington is designed for versatility. Her operational capabilities include:

1. Power Projection: Launching air strikes against land targets
2. Sea Control: Deterring or engaging enemy naval forces
3. Humanitarian Assistance: Providing aid and disaster relief with medical facilities and logistical support
4. Presence and Deterrence: Demonstrating U.S. commitment and readiness in strategic regions

Her nuclear power ensures sustained deployments without the need for frequent refueling, providing a strategic advantage.

Conclusion

The USS George Washington CVN exemplifies the pinnacle of naval technology and strategic design. Her impressive dimensions, nuclear propulsion, extensive flight deck, and sophisticated systems make her a true floating fortress capable of projecting power across the globe. Her specifications reflect a careful balance of size, speed, endurance, and technological prowess, ensuring she remains a vital asset in the United States Navy's fleet for decades to come. As geopolitical challenges evolve, ships like the USS George Washington will continue to serve as symbols of naval dominance and technological innovation, safeguarding national interests on the high seas.

Choosing to explore Uss George Washington Cvn Overview Ship Specs often starts with curiosity. Sometimes the goal is clear, sometimes it is simply a desire to understand something better. Having the option to download the book in PDF format makes that first step easier and less intimidating.

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Trust is essential when accessing educational resources. Reliable platforms that offer legal downloads ensure accuracy, security, and peace of mind. Readers can focus fully on understanding the content without unnecessary concerns.

Affordability plays a quiet but important role. When cost barriers are reduced, exploration becomes more open. Readers feel encouraged to learn beyond immediate needs, discovering ideas they may not have sought out otherwise.

Students often appreciate the stability that downloadable books provide. Study materials remain available offline, notes stay organized, and revision becomes less stressful. This steady access supports consistent learning habits.

Professionals approach Uss George Washington Cvn Overview Ship Specs with practical intent. The ability to consult specific sections when challenges arise makes the book a useful reference over time, not just a one-time read.

Independent learners value freedom. Without deadlines or external expectations, progress unfolds naturally. Downloadable content supports this

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Accessibility features broaden participation. Adjustable text sizes and compatibility with assistive tools help ensure that more readers can engage comfortably with the material.

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Global access connects readers across borders. People from different backgrounds engage with the same material, bringing diverse perspectives that enrich understanding.

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Rather than pushing readers to finish quickly, Uss George Washington Cvn Overview Ship Specs invites ongoing engagement. The material remains available, adaptable, and ready to support learning at different stages.

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Over time, the presence of a reliable resource builds confidence. Questions feel more manageable when information is always within reach.

In the end, accessing Uss George Washington Cvn Overview Ship Specs in this way supports steady growth. It blends learning into everyday life, allowing

understanding to develop gradually and naturally, guided by curiosity rather than pressure.

# Questions & Answers About uss george washington cvn overview ship specs

| No | Question | Answer |
|---|---|---|
| 1 | What are the key specifications of the USS George Washington (CVN-73)? | The USS George Washington (CVN-73) is a Nimitz-class aircraft carrier with a length of approximately 1,092 feet, a beam of 134 feet, a displacement of about 97,000 tons, and a top speed of over 30 knots. It is powered by two nuclear reactors and can carry around 60 aircraft. |
| 2 | How many aircraft can the USS George Washington carry? | The USS George Washington can typically carry around 60 aircraft, including F/A-18 Hornets, E-2 Hawkeyes, and other carrier-based aircraft, depending on mission requirements. |
| 3 | What are the main armament and defense systems of the USS George Washington? | The USS George Washington is equipped with close-in weapon systems (CIWS), Phalanx CIWS, and missile defense systems to protect against aerial threats. It primarily relies on its aircraft and escort ships for offensive and additional defensive capabilities. |
| 4 | What is the primary purpose of the USS George Washington? | The USS George Washington serves as a mobile airbase, providing power projection, sea control, and deterrence capabilities, supporting fleet operations, and conducting various military missions worldwide. |
| 5 | When was the USS George Washington commissioned and launched? | The USS George Washington was launched in 1990 and commissioned into the U.S. Navy in July 1992. |

| | | |
|---|---|---|
| 6 | What are some recent upgrades or modifications made to the USS George Washington? | The USS George Washington has undergone several upgrades, including refueling and complex overhaul (RCOH) in the 2010s, which modernized its combat systems, electronics, and propulsion to extend its service life and enhance capabilities. |
| 7 | How does the USS George Washington compare to other Nimitz-class carriers? | The USS George Washington shares similar specifications and capabilities with other Nimitz-class carriers, such as size, speed, and aircraft capacity, but may differ slightly in systems and upgrades based on its commissioning and refit schedule. |

USS George Washington CVN, aircraft carrier specifications, Nimitz-class carrier details, naval vessel overview, US Navy aircraft carrier, ship displacement, length and beam, propulsion system, aircraft capacity, armament and defense

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Overview Ship Specs.

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One of the strongest advantages of PDFs is searchable text. Instead of scanning pages manually, users can quickly locate specific terms, phrases, or topics. This capability is particularly valuable for research-heavy documents such as Uss George Washington Cvn Overview Ship Specs, where quick access to information improves productivity and comprehension.

Some advanced PDF readers offer search filters, allowing users to navigate through results systematically. This feature is useful when working with complex documents containing repeated terminology or technical language.

**Annotation, highlighting, and collaboration**

Annotations turn PDFs into interactive tools. Highlighting key passages, adding comments, and inserting notes help users engage actively with the content.

These features are especially helpful for students, researchers, and professionals who rely on Uss George Washington Cvn Overview Ship Specs for study or reference.

Collaborative workflows also benefit from annotation tools. Shared PDFs allow multiple users to leave comments or feedback, making PDFs suitable for review processes and group projects. Saving annotated versions ensures that insights and discussions remain documented within the file itself.

**Managing file size without losing quality**

Large PDFs can be challenging to store and share. Optimizing file size improves performance and accessibility. Image compression, font optimization, and removal of unnecessary metadata help reduce size while preserving visual quality. Well-optimized versions of Uss George Washington Cvn Overview Ship Specs load faster and require less storage space.

Splitting very large PDFs into smaller sections is another effective strategy. This approach improves navigation and allows users to access specific parts of the document without loading the entire file at once.

**Security considerations for PDF files**

PDFs offer built-in security options, including password protection and permission settings. These features help prevent unauthorized editing, copying, or printing. When distributing Uss George Washington Cvn Overview Ship Specs, applying appropriate security settings ensures content integrity while maintaining accessibility for intended users.

However, security should be balanced with usability. Overly restrictive settings may hinder legitimate use. Choosing the right level of protection depends on the purpose of the document and the audience it serves.

**Avoiding corrupted or unreadable files**

File corruption can occur due to interrupted downloads, storage issues, or

incompatible software. To minimize risk, users should download PDFs from trusted sources and verify file integrity when possible. Keeping backup copies of Uss George Washington Cvn Overview Ship Specs provides an extra layer of protection against data loss.

Regularly updating PDF readers also helps prevent errors. Newer versions include bug fixes and improved compatibility with modern PDF standards, reducing the likelihood of display or loading problems.

**Cross-device compatibility and syncing**

Modern users often switch between devices throughout the day. PDFs support this flexibility, allowing seamless access across platforms. Cloud storage solutions enable syncing, ensuring that the latest version of Uss George Washington Cvn Overview Ship Specs is available everywhere.

When using annotations across devices, enabling proper synchronization is essential. Some readers offer account-based syncing, while others require manual export. Understanding these options helps maintain consistency and prevents lost notes.

**Organizing a growing PDF library**

As digital libraries expand, organization becomes increasingly important. Clear folder structures, descriptive filenames, and consistent naming conventions make it easier to manage multiple PDFs. Categorizing documents by topic, purpose, or date helps users locate Uss George Washington Cvn Overview Ship Specs quickly when needed.

Regular maintenance sessions prevent clutter. Reviewing files periodically, removing outdated versions, and consolidating duplicates keep the library efficient and manageable over time.

**Accessibility and inclusive design**

Accessible PDFs ensure that content is usable by a wider audience. Features

such as selectable text, proper heading structure, and alternative text for images support screen readers and assistive technologies. When Uss George Washington Cvn Overview Ship Specs follows accessibility best practices, it becomes more inclusive and user-friendly.

Accessibility also improves general usability. Clear structure and logical navigation benefit all users, not just those relying on assistive tools.

**Long-term archiving strategies**

For long-term storage, PDFs are among the most reliable formats available. Using standardized PDF versions and maintaining multiple backups ensures future access. Storing Uss George Washington Cvn Overview Ship Specs in both local and cloud-based systems protects against hardware failure and accidental deletion.

Documenting version history further enhances long-term usability. Clear version labels help users identify updates and avoid confusion when multiple editions exist.

**Best practices for professional and academic use**

In professional and academic environments, PDFs are often used as official records. Maintaining clean formatting, consistent structure, and reliable metadata enhances credibility. When sharing Uss George Washington Cvn Overview Ship Specs, ensuring accuracy and clarity reinforces its value as a trusted resource.

Proper citation and referencing within PDFs also support academic integrity. Hyperlinked references allow readers to explore related materials efficiently, adding depth and context to the content.

**Future-proofing PDF usage**

Technology continues to evolve, but PDFs remain adaptable. Staying informed about updated standards and tools ensures ongoing compatibility. Regularly

reviewing storage methods, security practices, and reader software helps keep Uss George Washington Cvn Overview Ship Specs accessible in the long term.

Adopting widely supported features rather than proprietary extensions increases the likelihood that PDFs will remain usable across future platforms and devices.

**Final thoughts on maximizing PDF potential**

PDF files are more than simple digital pages—they are powerful containers for structured information. By applying effective navigation, organization, security, and accessibility practices, users can fully leverage Uss George Washington Cvn Overview Ship Specs in PDF format. With thoughtful management and consistent habits, PDFs remain a dependable medium for learning, research, and professional documentation well into the future.