



## USS WINSTON S. CHURCHILL (DDG 81)

Guided Missile Destroyer

Homeport: Norfolk, Virginia

www.churchill.navy.mil



USS Winston S. Churchill's mission is to be prepared to conduct prompt, sustained combat operations at sea in support of national policy. She must as well be capable of operating within a Carrier Strike Group (CSG) and Expeditionary Strike Group (ESG) in extreme threat environments, providing primary anti-air protection for the ships within that Strike Group. To accomplish this, Churchill utilizes her various sensors to detect, classify and track hundreds of potential targets simultaneously in the air, on the surface and under the sea.

Churchill's Combat System is the most technologically advanced in the world, capable of projecting power both at sea and ashore with precision and deadly accuracy. A key component to the ship's ability to perform its mission is the Aegis Weapon System (AWS). AWS consists of a number of sub-systems that include the ship's primary air radar, the AN/SPY1D, and the Standard Missile (SM). These two components, along with 7 other fire control, command and decision, and training elements compose the most effective air defense system in the world. Capable of tracking hundreds of contacts simultaneously, the AWS can engage multiple threats at maximum range without any operator intervention.

In addition to the AWS, Churchill is outfitted with a single 5"/54 caliber dual purpose gun mount able to accurately fire 16-20 rounds a minute to ranges in excess of 13 miles. For point defense, Churchill's two 20mm Close-in Weapon Systems (CIWS) are capable of firing 4500 rounds a minute to exasperate and extinguish an inbound threat at close range. The ship's Sonar Suite is capable of detecting, tracking, identifying, and engaging multiple submerged threats. All this firepower is useless though without the ability to take the fight to the enemy; therefore, Churchill is powered and driven by the most sophisticated engineering plant afloat. At the touch of a button, all four of the ship's General Electric LM2500 Gas Turbine Engines come to life, providing the ship with over 100,000 shp. Three smaller, Allison 501-K34 Gas Turbine Generators provide the ship with enough electrical power to operate everything onboard. Incorporated in the engineering plant is a complex damage control system that utilizes automation and human operators to maintain a safe ship and manage damage control assets.

As the first Flight IIA Aegis Destroyer, Churchill looks and performs quite differently than previous ships in the class. The addition of a helicopter hangar and the upgraded baseline 6.1 Aegis Combat System are two of the most significant -modifications. Other alterations include: raised aft facing AN/SPY-1D arrays, increased missile capacity from 90 to 96 missiles, inclusion of a Recovery, Assist, Securing, and Traversing (RAST) System to assist in the recovery of SH-60 helicopters during inclement weather and high sea states, Kingfisher Mine Detection System, and the addition of a stern sheet trim tab hydrostatically designed to allow Winston S. Churchill to travel at higher speeds with less engineering plant output.

It is the Officers and crew of Churchill that make her the finest ship in the Fleet. The crew is comprised of highly trained, highly motivated professionals committed to excellence and devoted to serving their country. As a unified team, the crew of the Churchill are ready now to meet any threat to our nation by another unfortunate enough to dare our skill, conviction, and resolve.

### SHIP'S SPECIFICATIONS:

#### GENERAL

Length - 511 feet  
Beam (Maximum)- 59 feet  
Speed: 30+ knots  
Draft (Navigational)- 33 feet  
Displacement- 9157 tons full load  
Complement- 32 Officers/348 Enlisted

#### ENGINEERING

Propulsion: 4 General Electric LM2500-30 gas turbines, 2 shafts (100,000 shaft horsepower)  
Electrical:  
Services:

#### SENSORS

AN/SPS-67(V)3, G band surface search radar  
AN/SPS-64(V)9 I band radar  
AN/SQQ-89(V)10 Surface ASW Combat System  
AN/SQS-53C(V)4 sonar detecting and ranging set with Kingfisher  
AN/SLQ-32A(V)3 countermeasures set  
AN/SLQ-25A torpedo countermeasures transmitting set  
AN/SRS-1(V) CDF system  
AN/SQQ-89(V) T4 On-Board Trainer (OBT)

#### WEAPONS

5"/62 caliber gun mount  
Vertical Launch System (VLS) forward and aft (96 cells)  
Phalanx Close In Weapons System (CIWS) forward and aft  
Torpedo launchers midships port and starboard  
4 50-caliber mounts

#### AIRCRAFT

2 SH-60B LAMPS MK III helicopters