



# HALIFAX-CLASS CANADIAN PATROL FRIGATE

The 12 Canadian-built Halifax-class multi-role patrol frigates are considered the backbone of the Royal Canadian Navy (RCN). They can deploy anywhere in the world in support of the Government of Canada. Under the Halifax-class Modernization / Frigate Life Extension project, the frigates are undergoing a mid-life refit to ensure they have the capabilities to meet the new threats and changing operating environments of today. Enhanced capabilities include:

- new Combat Management System
- new radar capability
- new communications and missile system upgrades
- new Integrated Platform Management System

The first modernized Halifax-class frigates were delivered in late 2014, with the last ship scheduled for delivery in spring 2018.

## HALIFAX-CLASS SPECIFICATIONS

Length:	134 metres
Beam:	16 metres
Complement:	225 personnel



Halifax-class Canadian Patrol Frigate  
Displacement: 4,770 tonnes



Harry DeWolf-class Arctic/Offshore Patrol Ship  
Displacement: 6,440 tonnes



Kingston-class Maritime Coastal Defence Vessel  
Displacement: 970 tonnes

To scale

### PHALANX MARK 15 BLOCK 1B CLOSE-IN WEAPON SYSTEM

Provides defence against close-in targets. Includes a thermal imaging camera and has a firing rate of 4500 rounds per minute.

### HELICOPTER CAPABILITY

A new CH-148 Cyclone or a CH-124 Sea King maritime helicopter can be embarked to conduct Surface and Subsurface Surveillance and Control, utility and search and rescue missions.

### MARK 46 TORPEDO

Lightweight torpedo launched from either torpedo tubes or dropped by a helicopter, designed to counter submarine threat.

### INTEGRATED PLATFORM MANAGEMENT SYSTEM

Integrates legacy machinery control systems into a single platform, including additional Battle Damage Control Systems functionality to provide better information flow during an onboard emergency.

### ADVANCED HARPOON WEAPON CONTROL SYSTEM

The Harpoon Missile System Upgrade adds GPS guidance and better near-shore capability with an anti-ship missile, also capable of performing land-strikes.

### ELECTRONIC SUPPORT MEASURES

System provides passive interception, tracking, analysis and identification of radio frequencies to aid in developing situational awareness and the cueing of weapons and sensors.

### SMART-S MK2 3D RADAR

Optimized for medium to long range surveillance and target designation. This radar is the ship's primary surveillance radar.

### CEROS 200 FIRE CONTROL RADAR

Fire control radar which interfaces with the 57mm gun system and Evolved Sea Sparrow Missile system to provide enhanced capability to defend the ship.

### COMBAT MANAGEMENT SYSTEM 330

Designed to interface with new and existing weapons and sensor suite, the system optimizes usability and presentation of information to the operator.

### 57 MM MK3 NAVAL GUN SYSTEM

Delivers high rates of fire with extreme accuracy against surface, airborne and shore-based threats.

### PROPULSION SYSTEM

Flexible operation of two 17.7 MW gas turbine or one 6.5 MW diesel engine to permit speeds up to 30+ knots.

### MULTI AMMUNITION SOFT-KILL SYSTEM

A fully computerized countermeasure, it is interfaced to the ship's sensors and protects against attacks by advanced, sensor-guided missiles by launching airborne decoys.