



DUTY
HONOR
SERVICE

MINNESOTA
NATIONAL GUARD
ESTABLISHED 1856

RESPECT
INTEGRITY
EXCELLENCE

PATRIOT

Mission

To provide defense of critical assets and maneuver forces belonging to the corps and to echelons above corps against aircraft, cruise missiles, and tactical ballistic missiles

Entered Army Service

1985

Description and Specifications

The combat element of the PATRIOT (Phased Array Tracking Intercept of Target) missile system is the fire unit, which consists of a phased array radar set (RS), and engagement control station (ECS), an electric power plant, an antenna mast group (AMG), a communications relay group (CRG), and up to eight launching stations (LS).



The RS provides all tactical functions of airspace surveillance, target detection, identification, classification, and tracking, and missile guidance and engagement support. The ECS provides the human interface for command and control of operations. Each LS contains four ready-to-fire PAC-2, guidance enhanced missiles (GEM, GEM+) sealed in canisters that serve dual purposes as shipping containers and launch tubes.

The PATRIOT Advanced Capability-3 (PAC-3) upgrade program incorporates significant upgrades to the RS and ECS, and adds the new PAC-3 missile, which utilizes hit-to-kill technology for greater lethality against TBMs armed with weapons of mass destruction. Additionally, up to 16 PAC-3 missiles can be loaded per launcher, increasing firepower and missile defense capabilities.

Information courtesy Army.mil and Global.Security.org

Manufacturer

Raytheon, Lockheed Martin

FOR MORE INFORMATION, CONTACT: Minnesota National Guard Public Affairs at public.affairs@mn.ngb.army.mil or go to www.MinnesotaNationalGuard.org/press_room/fact_sheets/military_equipment.php for a list of equipment used by the Minnesota National Guard.