THE AIR AND MISSILE DEFENSE RADAR (AN/SPY-6(V)) IS THE U.S. NAVY’S NEXT GENERATION INTEGRATED AIR AND MISSILE DEFENSE RADAR.
IT ENHANCES SHIPS’ ABILITIES TO DETECT, TRACK AND DISCRIMINATE AIR, SURFACE AND BALLISTIC MISSILE TARGETS.
AMDR is built with individual building blocks called Radar Modular Assemblies, better known as RMAs.
EACH RMA IS A SELF-CONTAINED RADAR IN A BOX
9 RMAs ARE COMPARABLE IN SENSITIVITY TO THE CURRENT RADAR ON TODAY’S NAVY DESTROYERS

*EASR CONFIGURATION*
37 RMAs can see a target of half the size at twice the distance of radars on today's Navy destroyers.

*SPY-6[v] configuration for DDG 51 Flight III
69 RMAs CAN SEE A TARGET OF HALF THE SIZE AT ALMOST FOUR TIMES THE DISTANCE.
THE AMDR ADVANTAGE

- MISSION
- CAPABILITIES
- SCALABILITY
- MAINTENANCE
- INNOVATION
AMDR PROVIDES:

- SIMULTANEOUS, 360° INTEGRATED AIR AND MISSILE DEFENSE
  - BALLISTIC MISSILE DEFENSE, ANTI-AIR WARFARE, ANTI-SURFACE WARFARE

- DETECTION IN ADVERSE AND HIGH-CLUTTER ENVIRONMENTS
ADVANCEMENTS OVER CURRENTLY DEPLOYED RADARS INCLUDE:

- GREATER DETECTION RANGES AND INCREASED DISCRIMINATION ACCURACY*
  - MORE THAN TWICE THE RANGE
  - MORE THAN 30 TIMES MORE SENSITIVE
  - INCREASED RAID HANDLING
- FULL-TIME, 360° SITUATIONAL AWARENESS
- ADVANCED ELECTRONIC PROTECTION

*SPY-6(V) 37 RMA configuration for the DDG 51 Flight III
RADAR MODULAR ASSEMBLIES ARE FUNCTIONAL RADARS IN A 2' X 2' X 2' BOX. THEY ENABLE:

- Configurations to suit any ship size or mission need
  - 9 RMAs (EASR) are equivalent to the sensitivity of today’s AN/SPY-1D(V) radar
  - 37 RMAs (SPY-6(V)) provide SPY-1 +15dB capability
  - 69 RMAs provide SPY-1 +25dB capability

- Upgrades to meet backfit, forward fit and mission requirements supported by tailorable, reprogrammable software and hardware
MAINTENANCE

THE AMDR ADVANTAGE

DESIGNED FOR RELIABILITY AND MAINTAINABILITY, AMDR IS EASILY MAINTAINED AND REPAIRED. THE RADAR:

- HAS 70% FEWER UNIQUE PARTS (LINE REPLACEABLE UNITS) THAN CURRENT RADARS
- REQUIRES ONLY TWO TOOLS TO REPAIR OR REPLACE LRUS — REPLACEMENT CAN BE DONE IN LESS THAN SIX MINUTES
AMDR is the most innovative radar in the world. It benefits from advancements in radar design and technology, including:

- RMAs which enable the radar’s scalability
- GaN technology that drives its power, size and efficiency
- Scalability that allows various configurations to support any ship for any mission
- Capability that exceeds any currently deployed naval radar
- Open interfaces for ease of integration with combat systems and weapons
FITS ANY SHIP, FOR ANY MISSION.
AMDR:
THE NAVY’S FIRST TRULY SCALABLE RADAR.