



DON'T BLINK

**A PERSISTENT ENEMY REQUIRES
PERSISTENT SURVEILLANCE**

**NORTHROP GRUMMAN IS COMMITTED TO PROVIDING
OUR WARFIGHTERS A 21-DAY UNBLINKING STARE.**

**LEMV IS A DISRUPTIVE ISR INNOVATION
THAT WILL ALTER THE IRREGULAR FIGHT.
WE DON'T BLINK BECAUSE OUR SOLDIERS DEPEND ON IT.**

NORTHROP GRUMMAN

HYBRID AIR VEHICLES

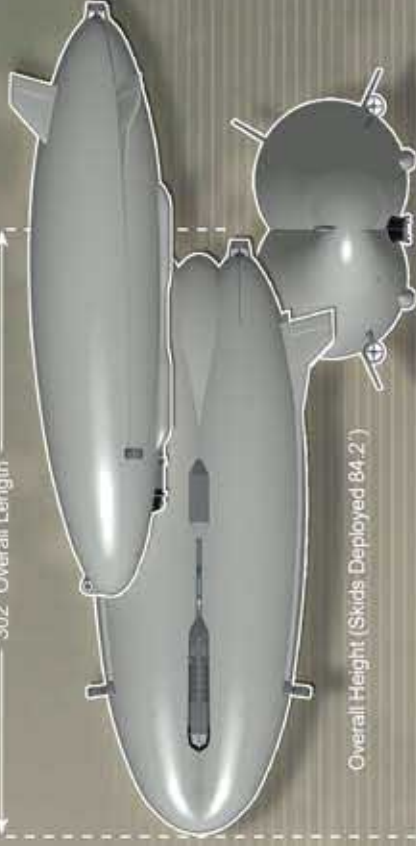


Warwick Mills



A REVOLUTIONARY ISR WEAPON SYSTEM

302' Overall Length



Overall Height (Skids Deployed 84.2')

◆ OVERVIEW

Northrop Grumman's open-architected Long Endurance Multi-Intelligence Vehicle (LEMV) is a revolutionary aviation concept that will shape the future of ISR. We've developed a clean aerodynamic design with less drag than competing designs, use existing proven hull material, a type certified engine, off-the-shelf sensors, and the Army's Universal Ground Control Station with 100% interoperability with DCGS-A. We integrate ISR payloads most efficiently through our Murphy Bay on the vehicle centerline. Every design tradeoff was made with an unyielding commitment to schedule. Our open architecture and business model invites third parties to get onboard the aircraft with limited interference, offering the Army complete flexibility to add capability at will. The result is a very capable weapon system, balanced by its elegant simplicity. Simple means we will fly in theater in December, 2011.

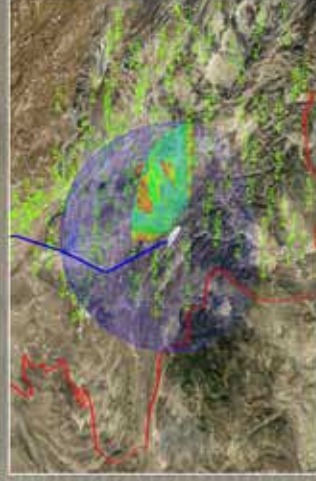
◆ KEY FEATURES

Simple, non-exotic solutions with proven components
Energy efficient. Fuel consumption over 10x less than comparable capability
12 - 24 forward deployed crew members to support 18 vehicles 24/7/365
1,500nm - 2,400 nm range with 15,000 lbs (Heavy Lift Configuration)
More than 21 days endurance with 2,750 lb payload (ISR configuration)
Payload Volume over 2700 cubic feet, heavy lift yields additional volume
Service Ceiling greater than 22,000 ft MSL

Loiter/dash speed: 30/80 kts

◆ CAPABILITIES

More than 21 days of unblinking stare
Proven multi-INT payload integration
Multi-mission capable: persistent surveillance, force protection, counter-drug operations, support host nation ops, disaster, humanitarian relief, overwatch/support troops
Flexible Murphy Bay modules to accommodate current and future payloads
Very short or vertical takeoff, excellent ground stability
Bow thruster provides low-speed control and position hold capability
Leverages proven type-certified engine
Future growth accomplished through field installations
Radar, SIGINT, Full Motion Video, LOS/BLOS COMM Relay



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HYBRID AIR VEHICLES



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