



# 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

## OVERVIEW

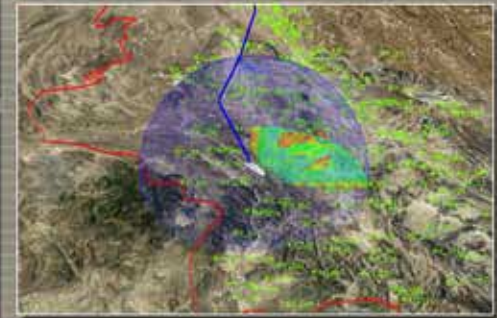
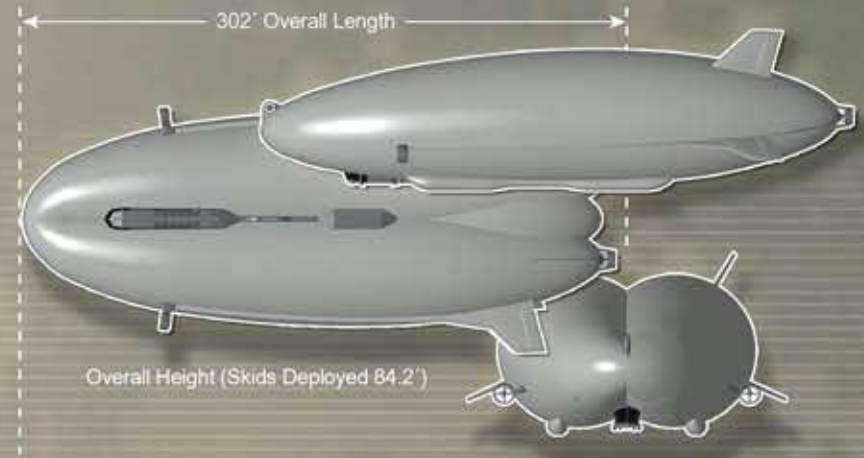
Northrop Grumman's open-architected Long Endurance Multi Intelligence Vehicle (LEMV) is a revolutionary aviation concept that will shape the future of ISR. We've developed a clean aerodynamic design with less drag than competing designs, use existing proven hull material, a type certified engine, off-the-shelf 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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