

# SEAGUARDIAN

Persistent Maritime Domain Awareness



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## Persistent Maritime Domain Awareness

### OBJECTIVE

Perform persistent maritime awareness with over-the-horizon long-endurance, medium-altitude Intelligence, Surveillance and Reconnaissance (ISR) missions, while maintaining complete airspace situational awareness

### CHARACTERISTICS

Wing Span:	79 ft (24m)
Length:	38 ft (11.7m)
Powerplant:	Honeywell TPE331-10 Turboprop
Max Gross Takeoff Weight:	12,500 lb (5670 kg)
Fuel Capacity:	6,000 lb (2721 kg)
Payload Capacity:	4,750 lb (2155 kg) across 9 hardpoints (8 wing, 1 centerline) 800 lb internal (363 kg)
Power:	45 kVA
Backup Power:	2 kW

### PERFORMANCE

Max Altitude:	40,000+ ft MSL
Max Endurance:	35 hr
Max Air Speed:	200+ KTAS
Max Range:	5,500+ nmi

### CONTROL/DATA LINKS

Line-of-Sight:	C-Band
Over-the-Horizon:	X-, Ku-, or Ka-Band Backup Inmarsat

### FEATURES

- High Definition EO/IR
- SeaGuardian Mission Kit:
  - Multimode 360° Maritime Surface Search Radar
  - Automatic Information System (AIS)
- GA-ASI Lynx Multi-mode Radar
- Dual VHF/UHF certified radios
- Open mission systems architecture
- STANAG 4671-compliant type certifiable design
- DO-178 and DO-254 design assurance for software and avionics
- All weather De-ice/Anti-ice system - Lightning protection
- Detect and Avoid (TCAS/ADS-B and Due Regard Radar)
- Damage tolerant airframe
- 40,000 hour design service life
- Automatic takeoff and land (LOS and SATCOM)
- Fire protected engine bay
- Other customer specific payloads
  - Electronic Support Measures (ESM)
  - SIGINT