



FIELD
AVIATION

The Guardian 400 MRSA

Aircraft Description

VIKING 

Main Characteristics

- Overall length:
52' 6" (16.00 m)
- Wingspan:
65' 0" (19.81 m)
- Nominal Height:
19' 6" (5.94 m)
- MTOW Landplane:
14,000 lbs (6,350 kg)
- MTOW Amphibious:
13,780 lbs (6,250 kg)
- Max Fuel capacity:
3,890 lbs (2,205 l)
- Max Range:
1,300Nm (2,400 km)
- Time on Station with 100 Nm
transit: 7 hours.

Typical Roles

- Maritime Surveillance
- Urban Policing
- Border patrols
- Overland ISR
- Command and Control
- Coastguard Operations
- Search and Rescue
- Airdrops
- Paratroop operations
- Emergency Response
- Medical evacuation
- Troop Transport
- Cargo transport
- Pollution control
- Aerial spraying



The Guardian 400 MRSA is the Multi-Role Surveillance Aircraft version of the Viking Twin Otter 400, developed by Field Aviation in cooperation with Viking Air.

The unique versatility of the Twin Otter is maintained in the Guardian 400; the aircraft can easily be re-configured between Amphibious floats, standard wheels or skis, and sensor installations are compatible with all landing gear configurations.

Standard equipment for the Guardian 400 MRSA includes search radar, EO/IR, Data Management System, enhanced communications systems (HF, V/UHF and Mission Intercom), a single operator station, large observation windows and a lavatory aft of the cabin. The aircraft is available with an ITAR-free sensor suite, and there is also a very comprehensive list of optional equipment.

The Search radar is installed in the nose of the aircraft with the antenna below the nosecone to give full 360° rotation.



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A retractable EO/IR system is installed to protect the lenses from spray and debris during water and rough field operations. Any 15 – or 16 inch EO/IR can be accommodated.

Baseline Mission System

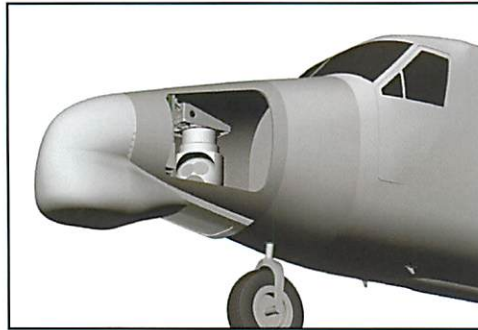
- Selex 5000E Electronically Scanned Search radar with SAR, ISAR, Spot SAR, MTI, Small Target Mode, Long Range Search, Track While Scan
- FLIR UltraForce 350 EO/IR, or Wescam MX-15HDi EO/IR with up to 6 camera/sensor payload systems
- CarteNav AIMS-ISR Data Management System

Optional Mission Equipment

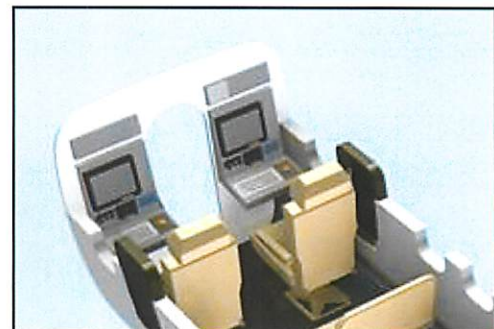
- Additional Communications equipment (Dual systems, Satcom, Data Link, Customer radios etc.)
- SLAR System
- AIS
- Direction Finder
- Search Light
- Fixed Camera Systems
- IFF
- Self- Protection System
- ELINT

Optional Aircraft Systems

- Air Conditioning
- Autopilot System
- Interior Configurations
- Utility Passenger Seating
- Oxygen Systems
- Air Operable Main Door
- Stretcher Systems
- Single/Dual Lifeport Systems
- Large Capacity Cargo Pod
- Oil Dispersant Spray System



With integral fuel tanks and the two largest sensors with associated LRUs in the nose section of the aircraft, the cabin is free for mission operating crew, observers and for ancillary payload, thus maintaining full multi-role versatility of the aircraft.



The Guardian can be outfitted with additional work stations for mission crew, and/or with seats for transport, stretchers for medical evacuation, or multiple life rafts for Search and Rescue missions.

