

# Medium Altitude Reconnaissance Surveillance System (MARSS)

A Medium ISR Platform Aircraft



The MARSS aircraft are Quick Reaction Capabilities (QRCs) supporting the U.S. Army's requirement for Reconnaissance, Surveillance, Targeting and Acquisition (RSTA) and Intelligence, Surveillance and Reconnaissance (ISR). MARSS delivers Full Motion Video (FMV) as well as Communications Intelligence (COMINT) and Signals Intelligence (SIGINT) data directly to the Warfighter.

MARSS was developed and deployed as a QRC to Central Command (CENTCOM) Area of Responsibility (AOR) to support counter-IED operations. MARSS QRCs are successfully integrated with Taskforce (TF) ODIN (Observe, Detect, Identify, and Neutralize) and continue to operate today with each aircraft flying in excess of 400 hours per month both as contractor and government operated.

Data and intelligence gathered with the systems can be sent directly to Warfighter on the ground and then disseminated to echelons above Corps. MARSS now employs Beyond Line of Sight (BLOS) that is reducing the support foot print and leverage a broader analytical enterprise.



## MARSS Features

- **Missions:**
  - Support of deliberate operations
  - Command and control
  - Area, route and border reconnaissance
  - Force protection
  - Dynamic tasking
- **Aircraft:** King Air 300
- **Architecture:** Ground stations immediately actionable for information to supported unit
- **Primary Sensors:**
  - Wescam MX-15 Series HD/SD EON/EOW/FLIR
  - PeARL™ Hi Res Digital Camera x 2-4, Video Camera x1, 4,000 x 4,000 pixel
  - VORTEX downlink
  - Communications: TACSAT, DAMA, LOS VHF/UHF, HF, FreqHop
  - KuSS (BLOS)(Arlight/iDirect), PRC-117 family radios
- **Aircraft/Crew Survivability Equipment:** AAR-47/APR-39
- **Feature:** Blue Force Tracker (MTX Transmitter)



## MARSS Performance

- |                             |             |
|-----------------------------|-------------|
| • Max Speed (VNE)           | 270 knots   |
| • Service Ceiling Altitude  | 35,000 ft.  |
| • Endurance                 | 6.0 hours   |
| • Max Gross Take Off Weight | 15,100 lbs. |



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