

Adaptable Role-Fit Capability (ARC) Radar

■ MARSHALL

ARC
R A D A R

The Marshall ARC Radar is a palletized multi-mode AESA radar system that provides operators an expanded capability to rapidly and temporarily role-fit their aircraft for intelligence, surveillance and reconnaissance (ISR) missions. The system can be installed or removed in under two hours and requires no permanent modifications to the aircraft or special handling equipment.



System Overview

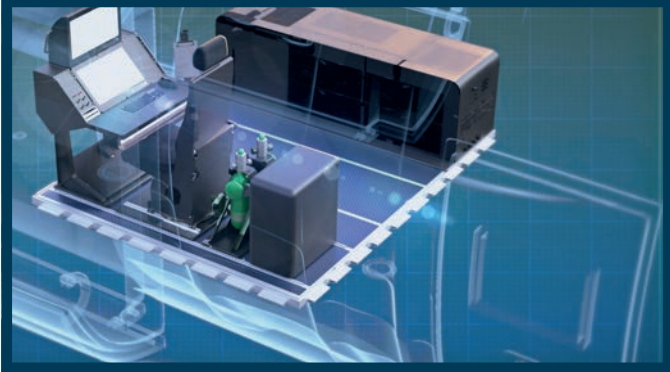
Role-fit, palletized, multi-mode AESA ISR solution kit for the C-130

Optional, second Mission Pallet for dedicated operator workstation

Radar Pallet Installed and Deployed



(Optional) Mission Pallet



ARC Radar Configuration and Components

Radar Pallet

- Standard 463L master pallet compatible with existing cargo handling systems and methods
- 2x Leonardo Osprey 30 multi-domain active electronically scanned array (AESA) surveillance radars
- Associated software, electronics, power supply, and stowage provisions included in this self-contained configuration with full installation tool kit
- 2x modified paratroop doors with Marshall-designed and manufactured covert conformal radomes

(Optional) Mission Pallet

- Mission Management System (MMS) operator console on separate 463L pallet
- Modular, open architecture for sensor updates, datalink systems
- Cabin location at user discretion
- Workstation fully interoperable with 3rd party Geographic Information Systems (GIS)

Features and Benefits

- Expands existing C-130 capability to multi-role, multi-mission platform on short notice
- Expedient reconfiguration in ~ 2 hours
- Accessible to operator's entire C-130 fleet
- No Group A component integration
- No unique aircraft modifications required
- No permanent changes to aircraft and no impact on performance or handling
- Overt visible profile conceals expanded ISR role
- Uses existing C-130 power outlets in cabin
- Dual panel radar configuration with wide field of view
- Flight tested with no radar performance degradation or impact to host aircraft systems
- Modular and scalable for future growth

Mission Applications

- Humanitarian and Disaster Relief (HADR)
- Search and Rescue (SAR)
- Maritime and Border Patrol
- Special Tactics Airfield and Assault Zone Survey
- Intelligence, Surveillance, Target Acquisition, and Reconnaissance (ISTAR)



For a full set of capabilities please contact the Marshall Sales team or take a look at our website

