



## AIR TRAFFIC NAVIGATION INTEGRATION AND COORDINATION SYSTEM

# BATTLEFIELD-TESTED, ENHANCED CAPABILITIES

### Enabling rapid deployment in remote locations

Warfighter safety, preparedness and mobility are critical for mission success in today's fast-changing battlefield. Collins Aerospace Air Traffic Navigation Integration and Coordination System (ATNAVICS) offers a fully autonomous, highly mobile, International Civil Aviation Organization (ICAO)-compliant ground controlled approach system for rapid deployment of troops and equipment in remote locations.

Collins ATNAVICS is mission-tested for operation and survivability in all



environments. It is a complete system packaged into the most capable, lightweight and compact configuration available. With over two decades of service, our ATNAVICS has received continuous upgrades and enhancements, addressing obsolescence and adding new capabilities,

ATNAVICS is used by the U.S. Army, U.S. Marine Corps, and U.S. Air Force for humanitarian missions around the world.

### KEY FEATURES & BENEFITS

- Transportable in a single C-130
- One-hour setup time to controlling aircraft
- Complete, self-contained mobile system including prime power and HVAC
- 60 nmi PSR/SSR and 10 nmi PAR
- AIMS 03-1000 certified Mode 5 SSR/IFF system



## SYSTEM SETUP AND DEPLOYMENT

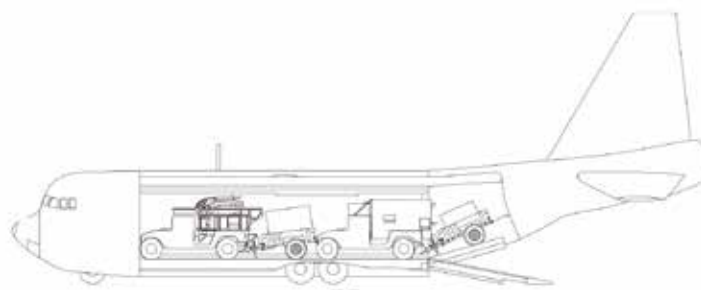
- Automatic radar alignment
- No on-site calibration required
- MIL-STD-810 and ground transport qualified

## OPERATIONS SHELTER

- Two air traffic controller positions and one supervisor position provide user-friendly HMI to ease controller workload
- Integrated VHF/UHF communications include secure G/A and G/G capability
- Automation system enables simultaneous/integrated surveillance and precision approach operations
- Expansion option supports six additional controller positions

## SENSOR PALLET

- Integrated PSR/SSR/PAR system
- Tracking of high-altitude, low-speed and highly maneuverable targets
- ICAO Annex 10-compliant track-while-scan PAR using AESA technology
- Extensive automatic system built-in test (BIT) fault monitoring and fault isolation (FM/FI)
- Field-adjustable PSR frequency coverage of full 2.7-2.9 GHz band in 1 MHz steps.



ATNAVICs configuration for single C-130 transport



ATNAVICs operations shelter



Controlling aircraft from ATNAVICs



Fully detachable ATNAVICs sensor pallet



ATNAVICs sensor tracking aircraft

PERFORMANCE	PSR	SSR/IFF	PAR
Frequency	S-band	L-band	X-band
Range coverage	60 nmi	60 nmi	10 nmi
Azimuth coverage	360°	360°	±15°
Elevation coverage	30,000 ft	30,000 ft	-1° to +8°
Velocity coverage	20-500 knots	—	20-250 knots
Update rate	5 sec	5 sec	1 sec
Modes	—	1, 2, 3/A, C, 5	—
Probability of detection (including in rain)	80% for 3m <sup>2</sup> RCS at 60 nmi 80% for 1m <sup>2</sup> RCS at 50 nmi	—	90% for 1m <sup>2</sup> target at 10 nmi

Specifications subject to change without notice.



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