



MOBILE MAPPING OF AIR AND GROUND INTELLIGENCE COLLECTION



The DRS Mobile Mapping of Air and Ground Intelligence Communications (MAGIC) is a modifiable avionics mission system designed for air crew situational awareness. It is a scalable, open architecture avionics mission system that provides near real-time geo-located intelligence and sensor data on a moving map display to furnish aircrews increased navigational and situational awareness. MAGIC's open architecture is optimized for integration of virtually any desired subsystem, including:

- Intelligence Broadcast Receiver (IBR)
- Situational Awareness Data Link (SADL)
- MIDS/Link-16
- PRC-117G/F
- Full Motion Video (FMV) Links
- Electronic Flight Bag (EFB) data sets

MAGIC can be configured with any number of cockpit/cabin displays to meet any mission or aircrew configuration. MAGIC provides an integrated moving map capability obtaining the 3-D present position data from the aircraft's avionics bus. The avionics bus is interfaced in a monitor mode, not requiring costly and timely modification of the aircraft's operational flight program.

The open architecture of MAGIC also provides connections for carry-on systems (BAO Kit, JPADS, PRC-117, Rover, etc.) to the MAGIC bus. Once connected, the remote system user (Airborne Mission Commander, Direct Support Operator, team member, etc.) has access to all of the data, either selectively or fused.

The MAGIC architecture has been optimized for Government-developed/owned software application sets (Cursor On Target (COT), PFFS, etc.) but can host any Windows®-based application. Various state-of-the-art rugged airborne servers are available for users who require data storage (up to 8 terabytes solid state) and remote hosting of processing intensive applications. The MAGIC system can either be installed in a temporary (T1/T2) roll-on/roll-off configuration or permanently installed on the host aircraft.

MAGIC variants have been integrated on MC-130W, MC-130H, MC-130P, KC-130J, and CV-22B.

HIGHLIGHTS

- Provides enhanced situational awareness today, while larger programs remain in development
- Combat capability without costly Operational Flight Program (OFP) modifications
- Expandable to any number of users/displays
- Incorporates currently available, government owned hardware/software



Fills an urgent need for airborne situational awareness



Survivor data into the cockpit



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(AS 9100, Rev. C, ISO 9001:2008, CMMI Level 3, Registered Company)

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