

ESHAAR

SPECIAL MISSION AIRCRAFT

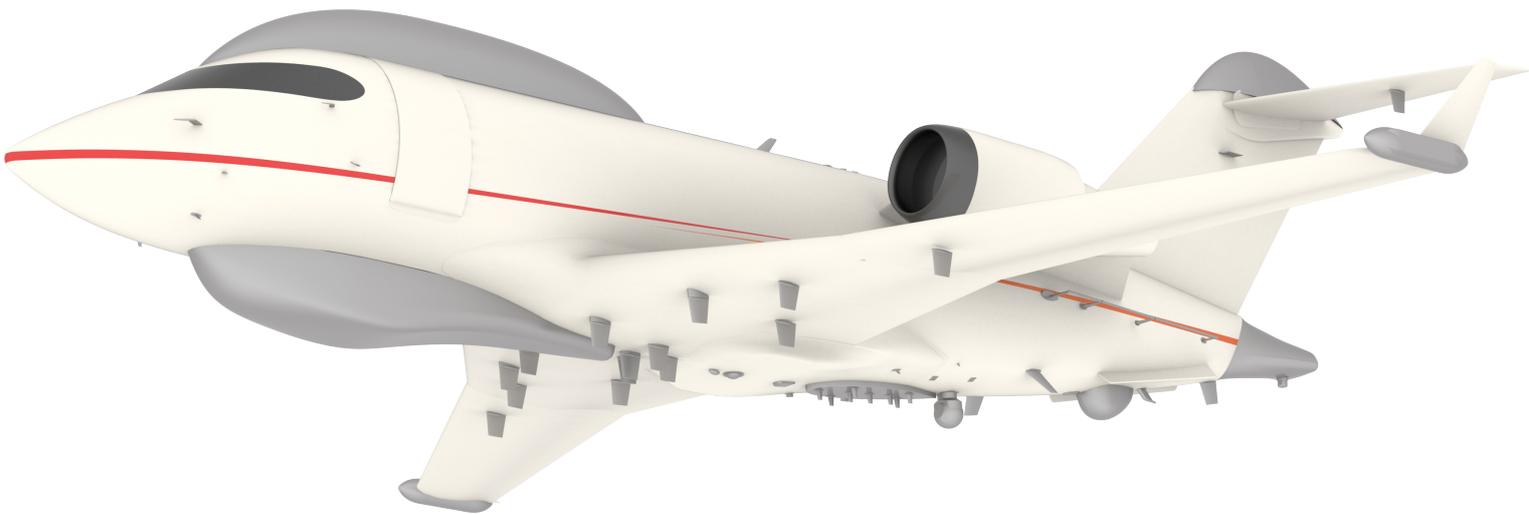
COMINT SUBSYSTEM

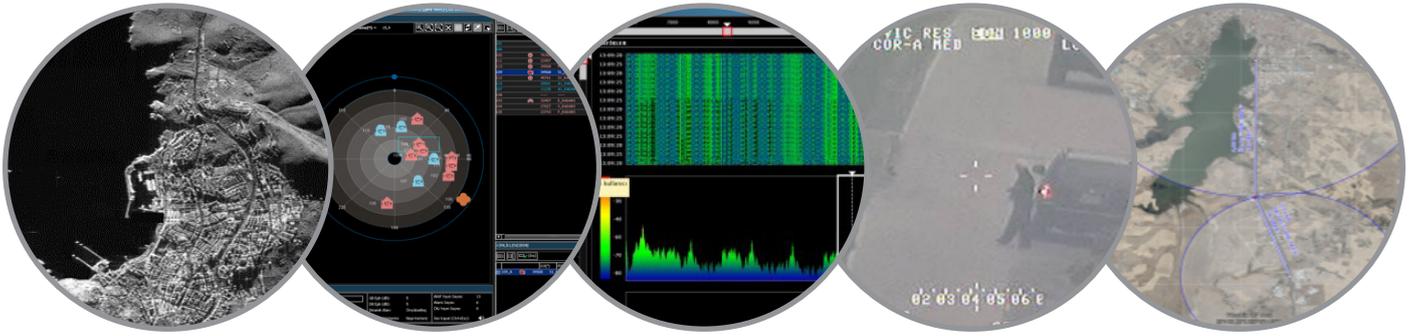
ESM/ELINT SUBSYSTEM

IMINT (SAR/GMTI, EO/IR) SUBSYSTEM

COMMUNICATION AND DATA LINK SUBSYSTEM

GROUND SUPPORT SUBSYSTEMS





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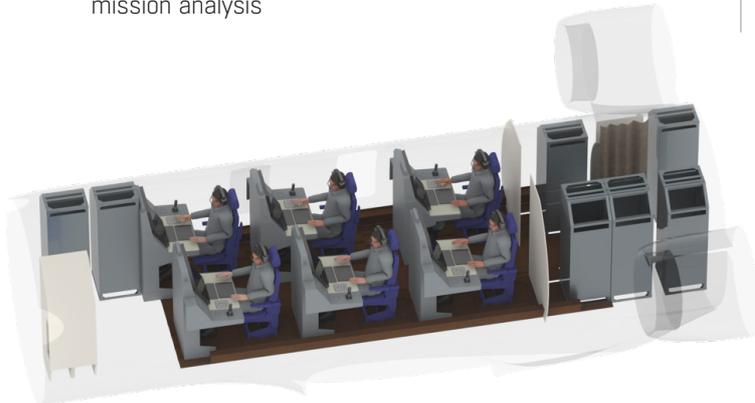
SPECIAL MISSION AIRCRAFT

COMINT Subsystem

- Wide band frequency coverage
- High system sensitivity
- Precise direction finding and geo-location
- Narrow band and wide band recording and off-line analysis
- Analog and digital modulation recognition and protocol decoding
- Analog and digital de-modulation
- Multi channel communication signals monitoring and recording demodulated signals
- Effective on frequency hopping signals

ESM/ELINT Subsystem

- New generation digital receiver architectures
- Wide band frequency coverage
- High system sensitivity
- High probability of intercept
- Sub mode, radar and platform based Mission Data File
- Automatic and manual detection, classification and identification
- Interpulse and intrapulse modulation measurement and recording
- Finger printing, analysis and recording
- Antenna scan type and antenna scan period measurement
- Geo-location
- PDW and event recording
- Detailed emitter analysis and database upgrade with post mission analysis



IMINT (SAR/GMTI, EO/IR) Subsystem

- Synthetic Aperture Radar System
 - Automatic antenna positioning and stabilization
 - Wide Region Imaging Mode (STRIPMAP)
 - High Resolution Imaging Mode (SPOTLIGHT)
 - Ground Moving Target Indicator (GMTI)
 - Inverse SAR Mode (ISAR)
- Superior imaging resolution from EO and IR cameras
 - Precise line-of-sight stabilization
 - Wide coverage area
 - Precise direction finding and target tracking
 - Laser range finding
 - Fast azimuth / elevation slew rate
 - Simultaneous digital & analog outputs
 - Cross-Cue capability

Communication and Data link Subsystem

- High data rate LOS air to ground datalink
- SATCOM for long range data and voice communication
- Inter Communication System (ICS)
- V/UHF Radio Communication System
- IFF (Identification Friend Or Foe) System
- Real time mission coordinated with Ground Support Subsystems

Ground Support Subsystems

- Command and Control Center
- Fixed and Mobile Ground Relay Stations
- Mission Monitor Stations



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